# NMED AIR QUALITY BUREAU
# PREVENTION OF SIGNIFICANT DETERIORATION
# MAJOR MODIFICATION APPLICATION
## TARGA NORTHERN DELAWARE, LLC
## RED HILLS GAS PROCESSING PLANT




**Prepared By:**
Jaimy Karacaoglu – Senior Consultant

**TRINITY CONSULTANTS**
1999 Broadway
Suite 820
Denver, CO 80202

March 2026

Project 233201.0054 & 250601.0072

Trinity Consultants

Trinity Consultants
1999 Broadway, Ste 820, Denver, CO 80202 / P 720.638.7647 / **trinityconsultants.com**

March 9, 2026

Permit Programs Manager
NMED Air Quality Bureau
525 Camino de los Marquez Suite 1
Santa Fe, NM 87505-1816

*RE: Application for PSD Major Modification to NSR Permit 4310-M6R1*
*Targa Northern Delaware, LLC – Red Hills Gas Processing Plant*

Permit Programs Manager:

On behalf of Targa Northern Delaware, LLC, Trinity Consultants is submitting a PSD Major Modification application for the Red Hills Gas Processing Plant, currently authorized to operate under NSR Permit No. 4310-M6R1.

With this application, Targa is seeking to update calculation methodologies, representations, emission limits, and throughput capacities throughout the facility. Targa is submitting this application to apply for a PSD major modification pursuant to 20.2.74.300.D NMAC. With this modification, the facility will undergo PSD review for $NO_x$, CO, VOC, $SO_2$, $PM_{10}$, $PM_{2.5}$, and $H_2S$ as the increases exceed the PSD major source thresholds or their respective significant emission rates. Per 20.2.74.7.AG NMAC, any major source that is major for nitrous oxides ($NO_x$) or volatile organic compounds (VOC) shall also be considered major for ozone. Targa has also determined that greenhouse gas emissions for the modification will exceed the major source threshold.

The format and content of this application are consistent with the Bureau's current policy regarding PSD applications; it is a complete application package using the most current application form. Enclosed are two hard copies of the application. Please feel free to contact Robert Andries, Senior Environmental Specialist for Targa Northern Delaware, LLC, at (713) 584-1360 or by email at randries@targaresources.com.

Sincerely,
Trinity Consultants

Cc: Rob Liles, rliles@trinityconsultants.com (Trinity Consultants)
Charles Bates, cbates@targaresources.com (Targa Northern Delaware, LLC)

Trinity Project File 233201.0054 & 250601.0072

**Air Permit Application**
**Compliance History Disclosure Form**

Pursuant to Subsection 74-2-7(S) of the New Mexico Air Quality Control Act ("AQCA"), NMSA §§ 74-2-1 to -17, the New Mexico Environment Department ("Department") may deny any permit application or revoke any permit issued pursuant to the AQCA if, within ten years immediately preceding the date of submission of the permit application, the applicant met any one of the criteria outlined below. In order for the Department to deem an air permit application administratively complete, or issue an air permit for those permits without an administrative completeness determination process, the applicant must complete this Compliance History Disclosure Form as specified in Subsection 74-2-7(P). An existing permit holder (permit issued prior to June 18, 2021) shall provide this Compliance History Disclosure Form to the Department upon request.

| **Permittee/Applicant Company Name** | | **Expected Application Submittal Date** |
|---|---|---|
| Targa Northern Delaware, LLC | | March 9, 2026 |
| **Permittee/Company Contact** | **Phone** | **Email** |
| Robert Andries | (713) 584-1360 | randries@targaresources.com |

| **Within the 10 years preceding the expected date of submittal of the application, has the permittee or applicant:** | | |
|---|---|---|
| 1 | Knowingly misrepresented a material fact in an application for a permit? | ☐ Yes ☒ No |
| 2 | Refused to disclose information required by the provisions of the New Mexico Air Quality Control Act? | ☐ Yes ☒ No |
| 3 | Been convicted of a felony related to environmental crime in any court of any state or the United States? | ☐ Yes ☒ No |
| 4 | Been convicted of a crime defined by state or federal statute as involving or being in restraint of trade, price fixing, bribery, or fraud in any court of any state or the United States? | ☐ Yes ☒ No |
| 5a | Constructed or operated any facility for which a permit was sought, including the current facility, without the required air quality permit(s) under 20.2.70 NMAC, 20.2.72 NMAC, 20.2.74 NMAC, 20.2.79 NMAC, or 20.2.84 NMAC? | ☐ Yes ☒ No |
| 5b | If "No" to question 5a, go to question 6.<br>If "Yes" to question 5a, state whether each facility that was constructed or operated without the required air quality permit met at least one of the following exceptions:<br><br>a. The unpermitted facility was discovered after acquisition during a timely environmental audit that was authorized by the Department; or<br><br>b. The operator of the facility estimated that the facility's emissions would not require an air permit, **and** the operator applied for an air permit within 30 calendar days of discovering that an air permit was required for the facility. | ☐ Yes ☐ No |
| 6 | Had any permit revoked or permanently suspended for cause under the environmental laws of any state or the United States? | ☐ Yes ☒ No |
| 7 | For each "yes" answer, please provide an explanation and documentation. | |

| **Mail Application To:** | | **For Department use only:** |
|---|---|---|
| New Mexico Environment Department<br>Air Quality Bureau<br>Permits Section<br>525 Camino de los Marquez, Suite 1<br>Santa Fe, New Mexico, 87505<br><br>Phone: (505) 476-4300<br>Fax: (505) 476-4375<br>www.env.nm.gov/aqb | | |

# Universal Air Quality Permit Application

**Use this application for NOI, NSR, or Title V sources.**

Use this application for: the initial application, modifications, technical revisions, and renewals. For technical revisions, complete Sections, 1-A, 1-B, 2-E, 3, 9 and any other sections that are relevant to the requested action; coordination with the Air Quality Bureau permit staff prior to submittal is encouraged to clarify submittal requirements and to determine if more or less than these sections of the application are needed. Use this application for streamline permits as well.

**This application is submitted as** (check all that apply): ☐ Request for a No Permit Required Determination (no fee)
☐ **Updating** an application currently under NMED review. Include this page and all pages that are being updated (no fee required).
**Construction Status:** ☐ Not Constructed ☒ Existing Permitted (or NOI) Facility ☐ Existing Non-permitted (or NOI) Facility
**Minor Source:** ☐ NOI 20.2.73 NMAC ☐ 20.2.72 NMAC application or revision ☐ 20.2.72.300 NMAC Streamline application
**Title V Source:** ☐ Title V (new) ☐ Title V renewal ☐ TV minor mod. ☐ TV significant mod. ☐ TV Acid Rain: ☐ New ☐ Renewal
**PSD Major Source:** ☐ PSD major source (new) ☐ Minor Modification to a PSD source ☒ a PSD major modification

**Acknowledgements:**

☒ I acknowledge that a pre-application meeting is available to me upon request. ☐ Title V Operating, Title IV Acid Rain, and NPR applications have no fees.

☒ $500 NSR application Filing Fee enclosed OR ☐ The full permit fee associated with 10 fee points (required w/ streamline applications).

☒ Check No.: **662835** in the amount of **$500**

☒ I acknowledge the required submittal format for the hard copy application is printed double sided 'head-to-toe', 2-hole punched (except the Sect. 2 landscape tables is printed 'head-to-head'), numbered tab separators. Incl. a copy of the check on a separate page.

☒ I acknowledge there is an annual fee for permits in addition to the permit review fee: www.env.nm.gov/air-quality/permit-fees-2/.

☐ This facility qualifies for the small business fee reduction per 20.2.75.11.C. NMAC. The full $500.00 filing fee is included with this application and I understand the fee reduction will be calculated in the balance due invoice. The Small Business Certification Form has been previously submitted or is included with this application. (Small Business Environmental Assistance Program Information: www.env.nm.gov/air-quality/small-biz-eap-2/.)

**Citation:** Please provide the **low level citation** under which this application is being submitted: **20.2.74.300.D NMAC**
(e.g. application for a new minor source would be 20.2.72.200.A NMAC, one example for a Technical Permit Revision is 20.2.72.219.B.1.b NMAC, a Title V acid rain application would be: 20.2.70.200.C NMAC)

# Section 1 – Facility Information

## Section 1-A: Company Information

| | | | |
|---|---|---|---|
| | | AI # if known: 29885 | Updating Permit/NOI #: 4310-M6R3 |
| 1 | Facility Name: Red Hills Gas Processing Plant | Plant primary SIC Code (4 digits): 1311 | |
| | | Plant NAIC code (6 digits): 21113 | |
| a | Facility Street Address (If no facility street address, provide directions from a prominent landmark): 1934 W NM Highway 128, Jal, NM 88252 | | |
| 2 | Plant Operator Company Name: Targa Northern Delaware, LLC | Phone/Fax: (575) 631-7093 | |

| | | |
|---|---|---|
| a | Plant Operator Address: 201 S 4th Street, Artesia, NM 88210 | |
| b | Plant Operator's New Mexico Corporate ID or Tax ID: 1948249 | |
| 3 | Plant Owner(s) name(s): Targa Northern Delaware, LLC | Phone/Fax: (575) 631-7093 |
| a | Plant Owner(s) Mailing Address(s): 201 S 4th Street, Artesia, NM 88210 | |
| 4 | Bill To (Company): Targa Northern Delaware, LLC | Phone/Fax: (575) 631-7093 |
| a | Mailing Address: Mailing Address(s): 201 S 4th Street, Artesia, NM 88210 | E-mail: jaustin@targaresources.com |
| 5 | ☒ Preparer: Jaimy Karacaoglu<br>☒ Consultant: Trinity Consultants, Inc. | Phone/Fax: (505) 266-6611 |
| a | Mailing Address: 1999 Broadway, Ste 820, Denver, CO 80202 | E-mail: Jaimy.karacaoglu@trinityconsultants.com |
| 6 | Plant Operator Contact: Cody Whinery | Phone/Fax: (575) 810-6019 |
| a | Address: 201 S 4th Street, Artesia, NM 88210 | E-mail: jcwhinery@targaresources.com |
| 7 | Air Permit Contact 1: Robert Andries | Title: Senior Environmental Specialist |
| a | E-mail: randries@targaresources.com | Phone/Fax: (713) 584-1360 / N/A |
| | Air Permit Contact 2: Charles Bates | Title: Air Quality Advisor |
| | Email: cbates@targaresources.com | Phone/Fax: (979) 575-8273 / N/A |
| b | Mailing Address: 1625 Broadway, Suite 2260, Denver, CO 80202 | |
| c | The designated Air permit Contact will receive all official correspondence (i.e. letters, permits) from the Air Quality Bureau. | |

## Section 1-B: Current Facility Status

| | | |
|---|---|---|
| 1.a | Has this facility already been constructed? ☒ Yes ☐ No | 1.b If yes to question 1.a, is it currently operating in New Mexico? ☒ Yes ☐ No |
| 2 | If yes to question 1.a, was the existing facility subject to a Notice of Intent (NOI) (20.2.73 NMAC) before submittal of this application? ☐ Yes ☒ No | If yes to question 1.a, was the existing facility subject to a construction permit (20.2.72 NMAC) before submittal of this application? ☒ Yes ☐ No |
| 3 | Is the facility currently shut down? ☐ Yes ☒ No | If yes, give month and year of shut down (MM/YY): N/A |
| 4 | Was this facility constructed before 8/31/1972 and continuously operated since 1972? ☐ Yes ☒ No | |
| 5 | If Yes to question 3, has this facility been modified (see 20.2.72.7.P NMAC) or the capacity increased since 8/31/1972? ☐ Yes ☐ No ☒ N/A | |
| 6 | Does this facility have a Title V operating permit (20.2.70 NMAC)? ☒ Yes ☐ No | If yes, the permit No. is: P-278M1 |
| 7 | Has this facility been issued a No Permit Required (NPR)? ☐ Yes ☒ No | If yes, the NPR No. is: N/A |
| 8 | Has this facility been issued a Notice of Intent (NOI)? ☐ Yes ☒ No | If yes, the NOI No. is: N/A |
| 9 | Does this facility have a construction permit (20.2.72/20.2.74 NMAC)? ☒ Yes ☐ No | If yes, the permit No. is: 4310M6R3 |
| 10 | Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? ☐ Yes ☒ No | If yes, the register No. is: N/A |

## Section 1-C: Facility Input Capacity & Production Rate

| | | | | |
|---|---|---|---|---|
| 1 | What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required) | | | |
| a | Current | Hourly: 50.417 MMscfh | Daily: 1,210 MMscfd | Annually: 441,650 MMscfy |
| b | Proposed | Hourly: 65.625 MMscfh | Daily: 1,575 MMscfd | Annually: 574,875 MMscfy |
| 2 | What is the facility's maximum production rate, specify units (reference here and list capacities in Section 20, if more room is required) | | | |
| a | Current | Hourly: 50.417 MMscfh | Daily: 1,210 MMscfd | Annually: 441,650 MMscfy |

| | | | | |
|---|---|---|---|---|
| b | Proposed | Hourly: 65.625 MMscfh | Daily: 1,575 MMscfd | Annually: 574,875 MMscfy |

## Section 1-D: Facility Location Information

| | | | | |
|---|---|---|---|---|
| 1 | Latitude (decimal degrees): 32.21056 | Longitude (decimal degrees): -103.52389 | County: Lea | Elevation (ft): 3,582 |
| 2 | UTM Zone: ☐ 12 or ☒ 13 | Datum: ☐ NAD 83 ☒ WGS 84 | | |
| a | UTM E (in meters, to nearest 10 meters): 639,114 | UTM N (in meters, to nearest 10 meters): 3,564,730 | | |
| 3 | Name and zip code of nearest New Mexico town: Jal, NM 88252 | | | |
| 4 | Detailed Driving Instructions from nearest NM town (attach a road map if necessary): East of Carlsbad on Hwy 62/180 to State Road 31 south to Hwy 128. Go east for approximately 27 miles. Plant is on left just before MM 29. | | | |
| 5 | The facility is 20.7 miles NW of Jal, NM. | | | |
| 6 | Land Status of facility (check one): ☒ Private ☐ Indian/Pueblo ☐ Government ☐ BLM ☐ Forest Service ☐ Military | | | |
| 7 | List all municipalities, Indian tribes, and counties within a ten (10) mile radius (20.2.72.203.B.2 NMAC) of the property on which the facility is proposed to be constructed or operated: Lea County | | | |
| 8 | **20.2.72** NMAC applications **only**: Will the property on which the facility is proposed to be constructed or operated be closer than 50 km (31 miles) to other states, Bernalillo County, or a Class I area (see www.env.nm.gov/air-quality/modeling-publications/ )? ☒ Yes ☐ No (20.2.72.206.A.7 NMAC) If yes, list all with corresponding distances in kilometers: Texas, 43 km | | | |
| 9 | Name nearest Class I area: Carlsbad Caverns National Park | | | |
| 10 | Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 79.8 km | | | |
| 11 | Distance (meters) from the perimeter of the Area of Operations (AO is defined as the plant site inclusive of all disturbed lands, including mining overburden removal areas) to nearest residence, school or occupied structure: > 1600 m | | | |
| 12 | Method(s) used to delineate the Restricted Area: Continuous Fencing and signage<br><br>"**Restricted Area**" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area. | | | |
| 13 | Does the owner/operator intend to operate this source as a portable stationary source as defined in 20.2.72.7.X NMAC?<br>☐ Yes ☒ No<br>A portable stationary source is not a mobile source, such as an automobile, but a source that can be installed permanently at one location or that can be re-installed at various locations, such as a hot mix asphalt plant that is moved to different job sites. | | | |
| 14 | Will this facility operate in conjunction with other air regulated parties on the same property? ☒ No ☐ Yes<br>If yes, what is the name and permit number (if known) of the other facility? | | | |

## Section 1-E: Proposed Operating Schedule (The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.)

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Facility **maximum** operating ($\frac{\text{hours}}{\text{day}}$): 24 | ($\frac{\text{days}}{\text{week}}$): 7 | ($\frac{\text{weeks}}{\text{year}}$): 52 | ($\frac{\text{hours}}{\text{year}}$): 8,760 | | |
| 2 | Facility's maximum daily operating schedule (if less than 24 $\frac{\text{hours}}{\text{day}}$)? Start: N/A | | ☐AM ☐PM | End: N/A | ☐AM ☐PM | |
| 3 | Month and year of anticipated start of construction: September 2026, or upon permit issuance | | | | | |
| 4 | Month and year of anticipated construction completion: September 2026, or upon permit issuance | | | | | |
| 5 | Month and year of anticipated startup of new or modified facility: September 2026, or upon permit issuance | | | | | |
| 6 | Will this facility operate at this site for more than one year? ☒ Yes ☐ No | | | | | |

## Section 1-F: Other Facility Information

| | | | |
|---|---|---|---|
| 1 | Are there any current Notice of Violations (NOV), compliance orders, or any other compliance or enforcement issues related to this facility? ☒ Yes ☐ No If yes, specify: LUC-29885-2201; Targa completed an audit and is presently resolving disclosed matters with NMED. This application is part of that action. | | |
| a | If yes, NOV date or description of issue: 12/05/2024 | | NOV Tracking No: LUC-29885-2201 |
| b | Is this application in response to any issue listed in 1-F, 1 or 1a above? ☒ Yes ☐ No<br>If Yes, provide the 1c & 1d info below: | | |
| c | Document Title: N/A | Date: N/A | Requirement # (or page # and paragraph #): N/A |
| d | Provide the required text to be inserted in this permit: Please refer to Section 20. | | |
| 2 | Is air quality dispersion modeling or modeling waiver being submitted with this application? ☒ Yes ☐ No | | |
| 3 | Does this facility require an "Air Toxics" permit under 20.2.72.400 NMAC & 20.2.72.502, Tables A and/or B? ☐ Yes ☒ No | | |
| 4 | Will this facility be a source of federal Hazardous Air Pollutants (HAP)? ☒ Yes ☐ No | | |
| a | If Yes, what type of source? ☒ **Major** (☒ ≥10 tpy of any single HAP **OR** ☒ ≥25 tpy of any combination of HAPS)<br>**OR** ☐ **Minor** (☐ <10 tpy of any single HAP **AND** ☐ <25 tpy of any combination of HAPS) | | |
| 5 | Is any unit exempt under 20.2.72.202.B.3 NMAC? ☐ Yes ☑ No | | |
| a | If yes, include the name of company providing commercial electric power to the facility: N/A<br><br>Commercial power is purchased from a commercial utility company, which specifically does not include power generated on site for the sole purpose of the user. | | |

## Section 1-G: Streamline Application (This section applies to 20.2.72.300 NMAC Streamline applications only)

| | | |
|---|---|---|
| 1 | ☐ I have filled out Section 18, "Addendum for Streamline Applications." | ☒ N/A (This is not a Streamline application.) |

## Section 1-H: Current Title V Information - Required for all applications from TV Sources

**(Title V-source required information for all applications submitted pursuant to 20.2.72 NMAC (Minor Construction Permits), or 20.2.74/20.2.79 NMAC (Major PSD/NNSR applications), and/or 20.2.70 NMAC (Title V))**

| | | |
|---|---|---|
| 1 | Responsible Official (R.O.) (20.2.70.300.D.2 NMAC): Andrew Perdue | Phone: (713) 584-1000 |
| a | R.O. Title: Vice President Operations | R.O. e-mail: APerdue@targaresources.com |
| b | R. O. Address: 1675 Broadway, Suite 2260, Denver, CO 80202 | |
| 2 | Alternate Responsible Official (20.2.70.300.D.2 NMAC): Jimmy Oxford | Phone: (940) 220-2493 |
| a | A. R.O. Title: Vice President Operations | A. R.O. e-mail: JOxford@targaresources.com |
| b | A. R. O. Address: 3100 McKinnon Street, Suite 800, Dallas, TX 75201 | |
| 3 | Company's Corporate or Partnership Relationship to any other Air Quality Permittee (List the names of any companies that have operating (20.2.70 NMAC) permits and with whom the applicant for this permit has a corporate or partnership relationship): Targa Resources, Inc. | |
| 4 | Name of Parent Company ("Parent Company" means the primary name of the organization that owns the company to be permitted wholly or in part.): Targa Resources, Inc. | |
| a | Address of Parent Company: 811 Louisiana Suite 2100, Houston, TX 77002-1400 | |
| 5 | Names of Subsidiary Companies ("Subsidiary Companies" means organizations, branches, divisions or subsidiaries, which are owned, wholly or in part, by the company to be permitted.): Targa Northern Delaware, LLC, Targa Midstream Services, LLC, Versado Gas Processors, LLC | |
| 6 | Telephone numbers & names of the owners' agents and site contacts familiar with plant operations: Jaylen Fuentes – (575) 810-6051 | |

| | |
|---|---|
| 7 | Affected Programs to include Other States, local air pollution control programs (i.e. Bernalillo) and Indian tribes:<br>Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B)? If yes, state which ones and provide the distances in kilometers: Texas 43 km. Local Pollution Control Programs: N/A. Indian Tribes and Pueblos: N/A |

# Section 1-I – Submittal Requirements

Each 20.2.73 NMAC (**NOI**), a 20.2.70 NMAC (**Title V**), a 20.2.72 NMAC (**NSR** minor source), or 20.2.74 NMAC (**PSD**) application package shall consist of the following:

## Hard Copy Submittal Requirements:

1) One hard copy **original signed and notarized application package** **printed double sided** **'head-to-toe'** **2-hole punched** as we bind the document on top, not on the side; except Section 2 (landscape tables), which should be head-to-head. Please use **numbered tab separators** in the hard copy submittal(s) as this facilitates the review process. For NOI submittals only, hard copies of UA1, Tables 2A, 2D & 2F, Section 3 and the signed Certification Page are required. Please include a copy of the check on a separate page.

2) If the application is for a minor NSR, PSD, NNSR, or Title V application, include one working hard **copy** for Department use. This copy should be printed in book form, 3-hole punched, and **must be double sided**. Note that this is in addition to the head-to-to 2-hole punched copy required in 1) above. Minor NSR Technical Permit revisions (20.2.72.219.B NMAC) only need to fill out Sections 1-A, 1-B, 3, and should fill out those portions of other Section(s) relevant to the technical permit revision. TV Minor Modifications need only fill out Sections 1-A, 1-B, 1-H, 3, and those portions of other Section(s) relevant to the minor modification. NMED may require additional portions of the application to be submitted, as needed.

3) The entire NOI or Permit application package, including the full modeling study, should be submitted electronically. Electronic files for applications for NOIs, any type of General Construction Permit (GCP), or technical revisions to NSRs must be submitted with compact disk (CD) or digital versatile disc (DVD). For these permit application submittals, **two** CD copies are required (in sleeves, not crystal cases, please), with additional CD copies as specified below. NOI applications require only a single CD submittal. Electronic files for other New Source Review (construction) permits/permit modifications or Title V permits/permit modifications can be submitted on CD/DVD or sent through AQB's secure file transfer service.

**Electronic files sent by (check one):**

☐ CD/DVD attached to paper application

☒ Secure electronic transfer.

Air Permit Contact Name: Jaimy Karacaoglu

Email: Jaimy.karacaoglu@trinityconsultants.com

Phone number: (410) 903-0750

a. If the file transfer service is chosen by the applicant, after receipt of the application, the Bureau will email the applicant with instructions for submitting the electronic files through a secure file transfer service. Submission of the electronic files through the file transfer service needs to be completed within 3 business days after the invitation is received, so the applicant should ensure that the files are ready when sending the hard copy of the application. The applicant will not need a password to complete the transfer. **Do not use the file transfer service for NOIs, any type of GCP, or technical revisions to NSR permits.**

4) Optionally, the applicant may submit the files with the application on compact disk (CD) or digital versatile disc (DVD) following the instructions above and the instructions in 5 for applications subject to PSD review.

5) If **air dispersion modeling** is required by the application type, include the **NMED Modeling Waiver** and/or electronic air dispersion modeling report, input, and output files. The dispersion modeling ***summary report only*** should be submitted as hard copy(ies) unless otherwise indicated by the Bureau.

6) If the applicant submits the electronic files on CD and the application is subject to PSD review under 20.2.74 NMAC (PSD) or NNSR under 20.2.79 NMC include,
   a. one additional CD copy for US EPA,
   b. one additional CD copy for each federal land manager affected (NPS, USFS, FWS, USDI) and,
   c. one additional CD copy for each affected regulatory agency other than the Air Quality Bureau.

   If the application is submitted electronically through the secure file transfer service, these extra CDs do not need to be submitted.

**Electronic Submittal Requirements** [in addition to the required hard copy(ies)]:

1) All required electronic documents shall be submitted as 2 separate CDs or submitted through the AQB secure file transfer service. Submit a single PDF document of the entire application as submitted and the individual documents comprising the application.

2) The documents should also be submitted in Microsoft Office compatible file format (Word, Excel, etc.) allowing us to access the text and formulas in the documents (copy & paste). Any documents that cannot be submitted in a Microsoft Office compatible format shall be saved as a PDF file from within the electronic document that created the file. If you are unable to provide Microsoft office compatible electronic files or internally generated PDF files of files (items that were not created electronically: i.e. brochures, maps, graphics, etc,), submit these items in hard copy format. We must be able to review the formulas and inputs that calculated the emissions.

3) It is preferred that this application form be submitted as 4 electronic files (3 MSWord docs: Universal Application section 1 [UA1], Universal Application section 3-19 [UA3], and Universal Application 4, the modeling report [UA4]) and 1 Excel file of the tables (Universal Application section 2 [UA2]). Please include as many of the 3-19 Sections as practical in a single MS Word electronic document. Create separate electronic file(s) if a single file becomes too large or if portions must be saved in a file format other than MS Word.

4) The electronic file names shall be a maximum of 25 characters long (including spaces, if any). The format of the electronic Universal Application shall be in the format: "A-3423-FacilityName". The "A" distinguishes the file as an application submittal, as opposed to other documents the Department itself puts into the database. Thus, all electronic application submittals should begin with "A-". Modifications to existing facilities should use the core permit number (i.e. '3423') the Department assigned to the facility as the next 4 digits. Use 'XXXX' for new facility applications. The format of any separate electronic submittals (additional submittals such as non-Word attachments, re-submittals, application updates) and Section document shall be in the format: "A-3423-9-description", where "9" stands for the section # (in this case Section 9-Public Notice). Please refrain, as much as possible, from submitting any scanned documents as this file format is extremely large, which uses up too much storage capacity in our database. Please take the time to fill out the header information throughout all submittals as this will identify any loose pages, including the Application Date (date submitted) & Revision number (0 for original, 1, 2, etc.; which will help keep track of subsequent partial update(s) to the original submittal. Do not use special symbols (#, @, etc.) in file names. The footer information should not be modified by the applicant.

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**Section 12:** **PSD Applicability Determination for All Sources & Special Requirements for a PSD Application**
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**Section 14:** **Operational Plan to Mitigate Emissions**
**Section 15:** **Alternative Operating Scenarios**
**Section 16:** **Air Dispersion Modeling**
**Section 17:** **Compliance Test History**
**Section 20:** **Other Relevant Information**
**Section 22:** **Certification Page**

# Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

| Unit Number[1] | Source Description | Make | Model # | Serial # | Manufacturer's Rated Capacity[3] (Specify Units) | Requested Permitted Capacity[3] (Specify Units) | Date of Manufacture[2] / Date of Construction/ Reconstruction[2] | Controlled by Unit # / Emissions vented to Stack # | Source Classification Code (SCC) | For Each Piece of Equipment, Check One | RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4] | Replacing Unit No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RH1-H-23-704 | RH1, HOT OIL HEATER | New Point Thermal | DHV 100/50C | 311-0014 | 42.50 MMBtu/hr | 42.50 MMBtu/hr | 2011<br>2011 | N/A<br>RH1-H-23-704 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-H-1101 | RH1, STABILIZER HOT OIL HEATER | Tulsa Heaters Midstream | SH01750 | MJ19-423 | 22.30 MMscf/d | 22.30 MMscf/d | 2019<br>2019 | N/A<br>RH1-H-1101 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH4-H-41100 | RH4, LIQUIDS IN-LINE HEATER | Tulsa Heaters Midstream | HF1000 | MJ19-385 | 13.16 MMBtu/hr | 13.16 MMBtu/hr | 2019<br>2019 | N/A<br>RH4-H-41100 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH2-H-741 | RH2, REGEN GAS HEATER | Heatec | HCI-5010-40-G | 14-266 | 9.60 MMBtu/hr | 9.60 MMBtu/hr | 2017<br>2017 | N/A<br>RH2-H-741 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH2-H-781 | RH2, CRYO HOT OIL HEATER | Heatec | HCI-8010-40(D)-G | 14-267 | 13.20 MMBtu/hr | 13.20 MMBtu/hr | 2017<br>2017 | N/A<br>RH2-H-781 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH2-H-2301 | RH2, TEG REBOILER | Reset Energy | N/A[6] | F-6 | 4.00 MMBtu/hr | 4.00 MMBtu/hr | 2017<br>2017 | N/A<br>RH2-H-2301 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH2-H-0901 | RH2, AMINE HOT OIL HEATER | Devco Process | Heliflo | 31484001 | 75.00 MMBtu/hr | 75.00 MMBtu/hr | 2017<br>2017 | N/A<br>RH2-H-0901 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH2-H-1001 | RH2, AMINE HOT OIL HEATER | Devco Process | Heliflo | 31253001 | 75.00 MMBtu/hr | 75.00 MMBtu/hr | 2017<br>2017 | N/A<br>RH2-H-1001 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RHA-H-4901 | RHA, AMINE HOT OIL HEATER | Sigma | HC2-20.0-H-SF | J17133 | 33.90 MMBtu/hr | 33.90 MMBtu/hr | 2018<br>2018 | N/A<br>RHA-H-4901 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH3-H-741 | RH3, REGEN GAS HEATER | Tulsa Heaters Midstream | CMS1500 | MJ17-265 | 9.20 MMBtu/hr | 9.20 MMBtu/hr | 2018<br>2018 | N/A<br>RH3-H-741 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH3-H-781 | RH3, CRYO HOT OIL HEATER | Tulsa Heaters Midstream | SHO2500 | MJ17-266 | 19.80 MMBtu/hr | 19.80 MMBtu/hr | 2018<br>2018 | N/A<br>RH3-H-781 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH3-H-6301 | RH3, TEG REBOILER | Reset Energy | N/A[6] | 357 | 4.00 MMBtu/hr | 4.00 MMBtu/hr | 2019<br>2019 | N/A<br>RH3-H-6301 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH4-H-741 | RH4, REGEN GAS HEATER | Tulsa Heaters Midstream | CMS1500 | MJ17-271 | 9.20 MMBtu/hr | 9.20 MMBtu/hr | 2018<br>2019 | N/A<br>RH4-H-741 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH4-H-781 | RH4, CRYO HOT OIL HEATER | Tulsa Heaters Midstream | CMS2500 | MJ17-272 | 22.30 MMBtu/hr | 22.30 MMBtu/hr | 2017<br>2019 | N/A<br>RH4-H-781 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH4-H-3901 | RH4, AMINE HOT OIL HEATER | Tulsa Heaters Midstream | CMS8500 | MJ19-388 | 76.73 MMBtu/hr | 76.73 MMBtu/hr | 2019<br>2019 | N/A<br>RH4-H-3901 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH4-H-5301 | RH4, TEG REBOILER | Reset Energy | N/A[6] | F-15 | 4.00 MMBtu/hr | 4.00 MMBtu/hr | 2018<br>2018 | N/A<br>RH4-H-5301 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH4-H-4001 | RH4, AMINE HOT OIL HEATER | Tulsa Heaters Midstream | CMS8500 | MJ19-389 | 76.73 MMBtu/hr | 76.73 MMBtu/hr | 2019<br>2019 | N/A<br>RH4-H-4001 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |

# Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

| Unit Number[1] | Source Description | Make | Model # | Serial # | Manufact-urer's Rated Capacity[3] (Specify Units) | Requested Permitted Capacity[3] (Specify Units) | Date of Manufacture[2] / Date of Construction/ Reconstruction[2] | Controlled by Unit # / Emissions vented to Stack # | Source Classi-fication Code (SCC) | For Each Piece of Equipment, Check One | RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4] | Replacing Unit No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RH5-H-50902 | RH5, AMINE/TEG HOT OIL HEATER | Tulsa Heaters Midstream | CMS8500 | MJ19-418 | 89.94 MMBtu/hr | 89.94 MMBtu/hr | 2020<br>2020 | N/A<br>RH5-H-50902 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH5-H-50001 | RH5, AMINE/TEG HOT OIL HEATER | Tulsa Heaters Midstream | CMS8500 | MJ19-419 | 89.94 MMBtu/hr | 89.94 MMBtu/hr | 2020<br>2020 | N/A<br>RH5-H-50001 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH5-H-50741 | RH5, REGEN GAS HEATER | Tulsa Heaters Midstream | CMS1500 | MJ19-384 | 9.08 MMBtu/hr | 9.08 MMBtu/hr | 2020<br>2020 | N/A<br>RH5-H-50741 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH5-H-50781 | RH5, CRYO HOT OIL HEATER | Tulsa Heaters Midstream | CMS5500 | MJ18-370 | 33.99 MMBtu/hr | 33.99 MMBtu/hr | 2020<br>2020 | N/A<br>RH5-H-50781 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH6-H-60001 | RH6, STABILIZER HOT OIL HEATER | Tulsa Heaters Midstream | BMS8500 | MJ21-474 | 89.94 MMBtu/hr | 89.94 MMBtu/hr | 2020<br>2022 | N/A<br>RH6-H-60001 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH6-H-60741 | RH6, REGEN GAS HEATER | Tulsa Heaters Midstream | BMS1500 | MJ121-475 | 9.10 MMBtu/hr | 9.10 MMBtu/hr | 2022<br>2022 | N/A<br>RH6-H-60741 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH6-H-60781 | RH6, CRYO HOT OIL HEATER | Tulsa Heaters Midstream | BMS5500 | MJ21-476 | 33.85 MMBtu/hr | 33.85 MMBtu/hr | 2021<br>2022 | N/A<br>RH6-H-60781 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RA2-H-20001 | RA2, HOT OIL HEATER | Tulsa Heaters Midstream | CMS8500 | MJ22-543 | 89.94 MMBtu/hr | 89.94 MMBtu/hr | 2023<br>2023 | N/A<br>RA2-H-20001 | 31000404 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-FL-29-1003 | RH1, FLARE | Callidus | RTA-20 Air-Assisted Tip | F-201113 | 184.07 Mscf/d | 184.07 Mscf/d | 2012<br>2012 | N/A<br>RH1-FL-29-1003 | 31000205 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH2-FL-5100 | RH2, FLARE | Zecco | N/A[6] | 30144 | 715.01 Mscf/d | 715.01 Mscf/d | 2017<br>2017 | N/A<br>RH2-FL-5100 | 31000205 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH3-FL-5100 | RH3, FLARE | Zecco | N/A[6] | 33985 | #REF! | #REF! | 2018<br>2018 | N/A<br>RH3-FL-5100 | 31000205 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH4-FL-45100 | RH4, FLARE | Zecco | N/A[6] | 37803 | 665.03 Mscf/d | 665.03 Mscf/d | 2019<br>2019 | N/A<br>RH4-FL-45100 | 31000205 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH5-FL-55100 | RH5, FLARE | Zecco | N/A[6] | 42009 | 237.26 Mscf/d | 237.26 Mscf/d | 2020<br>2020 | N/A<br>RH5-FL-55100 | 31000205 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RHA-FL-5100 | RHA, FLARE | Tulsa Combustion | N/A[6] | 170084-07 | 12.55 MMscf/d | 12.55 MMscf/d | 2018<br>2018 | N/A<br>RHA-FL-5100 | 31000205 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RA2-FL-25100 | RA2, FLARE | Zeeco, Inc. | N/A[6] | 61585 | 13.08 MMscf/d | 13.08 MMscf/d | 2023<br>2023 | N/A<br>RA2-FL-25100 | 31000205 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RHA-FL-5850 | RHA, SOUR SLOP WATER STORAGE TANKS FLARE | Tulsa Combustion | N/A[6] | 17-09-2126 | 3.4 Mscf/d | 3.4 Mscf/d | 2018<br>2018 | RHA-FL-5850<br>RHA-FL-5850 | 31000205 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RA2-FL-25850 | RA2, SOUR SLOP WATER STORAGE TANKS FLARE | Mission Flares & Combustion | N/A[6] | 22301 | 3.78 Mscf/d | 3.78 Mscf/d | 2023<br>2023 | RA2-FL-25850<br>RA2-FL-25850 | 31000205 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |

# Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

| Unit Number[1] | Source Description | Make | Model # | Serial # | Manufacturer's Rated Capacity[3] (Specify Units) | Requested Permitted Capacity[3] (Specify Units) | Date of Manufacture[2] / Date of Construction/ Reconstruction[2] | Controlled by Unit # / Emissions vented to Stack # | Source Classification Code (SCC) | For Each Piece of Equipment, Check One | RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4] | Replacing Unit No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RH1-FL-2850 | RH1, CONDENSATE STORAGE TANKS FLARE | Hero Flare | G50A13 | TBD | 5.17 Mscf/d | 5.17 Mscf/d | 2025<br>2025 | RH1-FL-2850<br>RH1-FL-2850 | 31000205 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH4-FL-46200 | RH4, SLOP WATER STORAGE TANKS FLARE | TBD | TBD | TBD | 54.08 Mscf/d | 54.08 Mscf/d | TBD<br>TBD | RH4-FL-46200<br>RH4-FL-46200 | 31000205 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-TEG | RH1, TEG REGENERATION SYSTEM | New Point Thermal | DHV 100/50C | 11-014-300 / 11-014-305 | 75 MMscf/d | 75 MMscf/d | 2012<br>2012 | RH1-FL-29-1003<br>RH1-FL-29-1003 | 31000301 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH2-TEG | RH2, TEG REGENERATION SYSTEM | Reset Energy | N/A[6] | 123 | 300 MMscf/d | 300 MMscf/d | 2017<br>2017 | RH2-TO-5500<br>RH2-TO-5500 | 31000301 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH3-TEG | RH3, TEG REGENERATION SYSTEM | N/A[5] | N/A[5] | 355 | 300 MMscf/d | 300 MMscf/d | 2018<br>2018 | RH4-TO-45500<br>RH4-TO-45500 | 31000301 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH4-TEG | RH4, TEG REGENERATION SYSTEM | N/A[5] | N/A[5] | 320 | 300 MMscf/d | 300 MMscf/d | 2019<br>2019 | RH4-TO-45500<br>RH4-TO-45500 | 31000301 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH5-TEG | RH5, TEG REGENERATION SYSTEM | N/A[5] | N/A[5] | 342 / 344 | 300 MMscf/d | 300 MMscf/d | 2019<br>2020 | RH5-TO-55500<br>RH5-TO-55500 | 31000301 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH6-TEG | RH6, TEG REGENERATION SYSTEM | N/A[5] | N/A[5] | 1261 / 1259 | 300 MMscf/d | 300 MMscf/d | 2022<br>2022 | RH5-TO-55500<br>RH5-TO-55500 | 31000301 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-AMINE | RH1, AMINE REGENERATION SYSTEM | Callidus | RTA-20 Air-Assisted Tip | 3098 / 6110-070 | 65 MMscf/d | 65 MMscf/d | 2012<br>2012 | RH2-TO-5500<br>RH2-TO-5500 | 31000305 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH2-AMINE | RH2, AMINE REGENERATION SYSTEM | PBP Fabrication Inc | N/A[6] | 112 / 115 | 290 MMscf/d | 290 MMscf/d | 2017<br>2017 | RH2-TO-5500<br>RH2-TO-5500 | 31000305 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RHA-AMINE | RHA, AMINE REGENERATION SYSTEM | N/A[5] | N/A[5] | 226 / 94 | 20 MMscf/d to 75 MMscf/d | 20 MMscf/d to 75 MMscf/d | 2018<br>2018 | AGI Well System & RHA-FL-5100<br>AGI Well System & RHA-FL-5100 | 31000305 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH4-AMINE | RH4, AMINE REGENERATION SYSTEM | Gaumer Process | N/A[6] | 105 / 18-C29278-1 | 290 MMscf/d | 290 MMscf/d | 2019<br>2019 | RH4-TO-45500<br>RH4-TO-45500 | 31000305 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH5-AMINE | RH5, AMINE REGENERATION SYSTEM | N/A[5] | N/A[5] | 348 / 351 | 290 MMscf/d | 290 MMscf/d | 2020<br>2020 | RH5-TO-55500<br>RH5-TO-55500 | 31000305 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RA2-AMINE | RA2, AMINE REGENERATION SYSTEM | RAMA | N/A[6] | 03780 / 03778 | 60 MMscf/d to 260 MMscf/d | 60 MMscf/d to 260 MMscf/d | 2023<br>2023 | AGI Well System & RA2-FL-25100<br>AGI Well System & RA2-FL-25100 | 31000305 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| 3-EP-4 | Amine Unit Flash Tank & Still Vent Service - 3 Train | TBD | TBD | TBD | 200 MMscf/d | 200 MMscf/d | TBD<br>TBD | N/A<br>EP-8 | 31000305 | ☐ Existing (unchanged) ☑ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH2-TO-5500 | RH2, THERMAL OXIDIZER | Zecco | N/A[6] | 30343 | 90.00 MMBtu/hr | 90.00 MMBtu/hr | 2012<br>2012 | N/A<br>RH2-TO-5500 | 30205021 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |

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Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RH4-TO-45500 | RH4, THERMAL OXIDIZER | Zecco | N/A[6] | 37954 | 80.00 MMBtu/hr | 80.00 MMBtu/hr | 2020<br>2020 | N/A<br>RH4-TO-45500 | 30205021 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH5-TO-55500 | RH5, THERMAL OXIDIZER | Zecco | N/A[6] | 41184 | 56.74 MMBtu/hr | 56.74 MMBtu/hr | 2020<br>2020 | N/A<br>RH5-TO-55500 | 30205021 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| EP-6 | Thermal Oxidizer | TBD | TBD | TBD | 28 MMBtu/hr | 28 MMBtu/hr | TBD<br>TBD | N/A<br>EP-6 | 30205021 | ☐ Existing (unchanged) ☑ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-TK-COND-EAST | RH1, TK-20101-20106, EAST CONDENSATE STORAGE TANKS | Palmer<br>Palmer<br>Palmer<br>Palmer<br>Palmer<br>Permian Tanks | N/A[6] | ST-26091<br>ST-26092<br>ST-26093<br>ST-26094<br>ST-26095<br>F52974 | 500 bbl Per Tank | 500 bbl Per Tank | 2012<br>2012 | RH1-FL-2850<br>RH1-FL-2850 | 40400311 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RHA-TK-SLOP | RHA, TK-6100-6200, SOUR SLOP WATER STORAGE TANKS | Tank & Vessel Builders, L.P. | N/A[6] | 201749<br>201750 | 500 bbl Per Tank | 500 bbl Per Tank | 2018<br>2018 | RHA-FL-5850<br>RHA-FL-5850 | 40400311 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-TK-COND-WEST | RH1, TK-20107-20112, WEST CONDENSATE STORAGE TANKS | Dragon Products LLC | N/A[6] | 172676<br>172677<br>172681<br>172682<br>172683<br>172684 | 500 bbl Per Tank | 500 bbl Per Tank | 2011<br>2013 | RH1-FL-2850<br>RH1-FL-2850 | 40400311 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RA2-TK-SLOP | RA2, TK-26100-26200, SOUR SLOP WATER STORAGE TANKS | TBD | N/A[6] | 66960<br>66961 | 500 bbl Per Tank | 500 bbl Per Tank | 2023<br>2023 | RA2-FL-25850<br>RA2-FL-25850 | 40400311 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH4-TK-SLOP | RH4, TK-46200-46230, SLOP WATER STORAGE TANKS | TBD | N/A[6] | ST1938920<br>ST1938921<br>ST1938922<br>ST1938923 | 400 bbl Per Tank | 400 bbl Per Tank | 2019<br>2019 | RH4-FL-46200<br>RH4-FL-46200 | 40400311 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH2-TK-SLOP | RH2, TK-6200, SLOP WATER STORAGE TANK | Palmer | N/A[6] | ST1614377 | 400 bbl Per Tank | 400 bbl Per Tank | 2017<br>2017 | N/A<br>RH2-TK-SLOP | 40400311 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-TK-SLOP | RH1, TK-33-001-33-002, SLOP WATER STORAGE TANKS | Permian Tank & Manufactuing Co. | N/A[6] | F-53836<br>F-53071 | 500 bbl Per Tank | 500 bbl Per Tank | 07/2013<br>07/2013 | N/A<br>RH1-TK-SLOP | 40400311 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH-TK-METHANOL | RH, METHANOL STORAGE TANKS | Various | Various | Various | 29,700 gallons (aggregate) | 29,700 gallons (aggregate) | Various<br>Various | N/A<br>RH-TK-METHANOL | 40400311 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |

# Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

| Unit Number[1] | Source Description | Make | Model # | Serial # | Manufacturer's Rated Capacity[3] (Specify Units) | Requested Permitted Capacity[3] (Specify Units) | Date of Manufacture[2] / Date of Construction/ Reconstruction[2] | Controlled by Unit # / Emissions vented to Stack # | Source Classification Code (SCC) | For Each Piece of Equipment, Check One | RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4] | Replacing Unit No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RHA-TK-SLOP-LOAD | RHA, TK-6100-6200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | N/A[5] | N/A[5] | N/A[10] | 7,560.00 gal/hr | 2,000,000 gal/yr | 2018<br>2018 | RHA-FL-5850<br>RHA-FL-5850 | 40400250 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-TK-COND-WEST-LOAD | RH1, TK-20107-20112, WEST CONDENSATE STORAGE TANKS, TRUCK LOADING | N/A[5] | N/A[5] | N/A[10] | 30,240.00 gal/hr | 10,160,640 gal/yr | 2013<br>2013 | RH1-FL-2850<br>RH1-FL-2850 | 40400250 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RA2-TK-SLOP-LOAD | RA2, TK-26100-26200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | N/A[5] | N/A[5] | N/A[10] | 7,560.00 gal/hr | 3,500,000 gal/yr | 2023<br>2023 | RA2-FL-25850<br>RA2-FL-25850 | 40400250 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH4-TK-SLOP-LOAD | RH4, TK-46200-46230, SLOP WATER STORAGE TANKS, TRUCK LOADING | N/A[5] | N/A[5] | N/A[10] | 15,120.00 gal/hr | 5,999,184 gal/yr | 2019<br>2019 | RH4-TK-SLOP<br>RH4-TK-SLOP | 40400250 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH2-TK-SLOP-LOAD | RH2, TK-6200, SLOP WATER STORAGE TANK, TRUCK LOADING | N/A[5] | N/A[5] | N/A[10] | 15,120.00 gal/hr | 3,999,698 gal/yr | 2017<br>2017 | N/A<br>RH2-TK-SLOP-LOAD | 40400250 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-TK-SLOP-LOAD | RH1, TK-33-001-33-002, SLOP WATER STORAGE TANKS, TRUCK LOADING | N/A[5] | N/A[5] | N/A[10] | 15,120.00 gal/hr | 3,999,439 gal/yr | 2013<br>2013 | N/A<br>RH1-TK-SLOP-LOAD | 40400250 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH-GEN-1 | RH, DIESEL FIRED GENERATOR | TBD | TBD | TBD | Less than 499 hp | Less than 499 hp | TBD<br>TBD | N/A<br>RH-GEN-1 | 2310022105 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH-GEN-2 | RH, DIESEL FIRED GENERATOR | TBD | TBD | TBD | Less than 499 hp | Less than 499 hp | TBD<br>TBD | N/A<br>RH-GEN-2 | 2310022105 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH-GEN-3 | RH, DIESEL FIRED GENERATOR | TBD | TBD | TBD | Less than 499 hp | Less than 499 hp | TBD<br>TBD | N/A<br>RH-GEN-3 | 2310022105 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH-GEN-4 | RH, DIESEL FIRED GENERATOR | TBD | TBD | TBD | Less than 499 hp | Less than 499 hp | TBD<br>TBD | N/A<br>RH-GEN-4 | 2310022105 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |

# Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

| Unit Number[1] | Source Description | Make | Model # | Serial # | Manufact-urer's Rated Capacity[3] (Specify Units) | Requested Permitted Capacity[3] (Specify Units) | Date of Manufacture[2] / Date of Construction/ Reconstruction[2] | Controlled by Unit # / Emissions vented to Stack # | Source Classi-fication Code (SCC) | For Each Piece of Equipment, Check One | RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4] | Replacing Unit No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RH-GEN-5 | RH, DIESEL FIRED GENERATOR | TBD | TBD | TBD | Less than 499 hp | Less than 499 hp | TBD<br>TBD | N/A<br>RH-GEN-5 | 2310022105 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH-GEN-6 | RH, DIESEL FIRED GENERATOR | TBD | TBD | TBD | Less than 499 hp | Less than 499 hp | TBD<br>TBD | N/A<br>RH-GEN-6 | 2310022105 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH-GEN-7 | RH, DIESEL FIRED GENERATOR | TBD | TBD | TBD | Less than 499 hp | Less than 499 hp | TBD<br>TBD | N/A<br>RH-GEN-7 | 2310022105 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH-GEN-8 | RH, DIESEL FIRED GENERATOR | TBD | TBD | TBD | Less than 499 hp | Less than 499 hp | TBD<br>TBD | N/A<br>RH-GEN-8 | 2310022105 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH-GEN-9 | RH, DIESEL FIRED GENERATOR | TBD | TBD | TBD | Less than 499 hp | Less than 499 hp | TBD<br>TBD | N/A<br>RH-GEN-9 | 2310022105 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH-GEN-10 | RH, DIESEL FIRED GENERATOR | TBD | TBD | TBD | Less than 499 hp | Less than 499 hp | TBD<br>TBD | N/A<br>RH-GEN-10 | 2310022105 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH-TRAILER | RH, DIESEL FIRED HEATER TRAILER | Allmand (Heater) Caterpillar or Perkins (Engine) | Maxi-Heat 1MBTU (Heater) Model 1.1 (Engine) | TBD | 13.8 hp | 13.8 hp | TBD<br>TBD | N/A<br>RH-TRAILER | 2310022105 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH-GEN-WELL | RH, DIESEL FIRED GENERATOR, WATER WELL | Isuzu Motors, Ltd. | BV-4LE1 | 255513 | 35 hp | 35 hp | 2010<br>2024 | N/A<br>RH-GEN-WELL | 2310022105 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-SSM | RH1, SSM | N/A[7] | N/A[7] | N/A[7] | N/A[11] | N/A[11] | 2013<br>2013 | Various<br>Various | 30600402 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH2-SSM | RH2, SSM | N/A[7] | N/A[7] | N/A[7] | N/A[11] | N/A[11] | 2017<br>2017 | Various<br>Various | 30600402 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH3-SSM | RH3, SSM | N/A[7] | N/A[7] | N/A[7] | N/A[11] | N/A[11] | 2018<br>2018 | Various<br>Various | 30600402 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH4-SSM | RH4, SSM | N/A[7] | N/A[7] | N/A[7] | N/A[11] | N/A[11] | 2019<br>2019 | Various<br>Various | 30600402 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH5-SSM | RH5, SSM | N/A[7] | N/A[7] | N/A[7] | N/A[11] | N/A[11] | 2020<br>2020 | Various<br>Various | 30600402 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH6-SSM | RH6, SSM | N/A[7] | N/A[7] | N/A[7] | N/A[11] | N/A[11] | 2022<br>2022 | Various<br>Various | 30600402 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RHA-SSM | RHA, SSM | N/A[7] | N/A[7] | N/A[7] | N/A[11] | N/A[11] | 2018<br>2018 | Various<br>Various | 30600402 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RA2-SSM | RA2, SSM | N/A[7] | N/A[7] | N/A[7] | N/A[11] | N/A[11] | 2023<br>2023 | Various<br>Various | 30600402 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH2-TO-5500-SSM | RH2, THERMAL OXIDIZER, SSM | Zeeco, Inc. | N/A[6] | 30343 | N/A[11] | N/A[11] | 2012<br>2012 | N/A<br>RH2-TO-5500 | 30600402 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |

# Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

| Unit Number[1] | Source Description | Make | Model # | Serial # | Manufacturer's Rated Capacity[3] (Specify Units) | Requested Permitted Capacity[3] (Specify Units) | Date of Manufacture[2] / Date of Construction/ Reconstruction[2] | Controlled by Unit # / Emissions vented to Stack # | Source Classification Code (SCC) | For Each Piece of Equipment, Check One | RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4] | Replacing Unit No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RH4-TO-45500-SSM | RH4, THERMAL OXIDIZER, SSM | Zeeco, Inc. | N/A[6] | 37954 | N/A[11] | N/A[11] | 2019<br>2019 | N/A<br>RH4-TO-45500 | 30600402 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH5-TO-55500-SSM | RH5, THERMAL OXIDIZER, SSM | Zeeco, Inc. | N/A[6] | 41184 | N/A[11] | N/A[11] | 2020<br>2020 | N/A<br>RH5-TO-55500 | 30600402 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RHA-REC-WINKLER | RHA, WINKLER INLET PIG RECEIVER | N/A[8] | N/A[8] | N/A[8] | N/A[11] | N/A[11] | 2018<br>2018 | RHA-FL-5100<br>RHA-FL-5100 & RHA-REC-WINKLER | 30600402 | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RHA-REC-LIMESTONE-8INCH | RHA, LIMESTONE 8-INCH INLET PIG RECEIVER | N/A[8] | N/A[8] | N/A[8] | N/A[11] | N/A[11] | 2018<br>2018 | RA2-FL-25100<br>RA2-FL-2510 & RHA-REC-LIMESTONE-8INCH | 30600402 | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-REC-PLANTVIEW | RH1, PLANTVIEW INLET LOOP PIG RECEIVER | N/A[8] | N/A[8] | N/A[8] | N/A[11] | N/A[11] | 2013<br>2013 | N/A<br>RH1-REC-PLANTVIEW | 30600402 | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-REC-GUTLINE | RH1, GUTLINE INLET PIG RECEIVER | N/A[8] | N/A[8] | N/A[8] | N/A[11] | N/A[11] | 2013<br>2013 | N/A<br>RH1-REC-GUTLINE | 30600402 | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-REC-ABU | RH1, ABU INLET PIG RECEIVER | N/A[8] | N/A[8] | N/A[8] | N/A[11] | N/A[11] | 2013<br>2013 | N/A<br>RH1-REC-ABU | 30600402 | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH4-REC-24INCH | RH4, 24-INCH INLET LOOP PIG RECEIVER | N/A[8] | N/A[8] | N/A[8] | N/A[11] | N/A[11] | 2019<br>2019 | RH4-FL-45100<br>RH4-FL-45100 & RH4-REC-24INCH | 30600402 | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RHA-REC-LIMESTONE-10INCH | RHA, LIMESTONE 10-INCH INLET PIG RECEIVER | N/A[8] | N/A[8] | N/A[8] | N/A[11] | N/A[11] | 2018<br>2018 | RHA-FL-5100<br>RHA-FL-5100 & RHA-REC-LIMESTONE-10INCH | 30600402 | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RA2-REC-GREYHOUND | RA2, GREYHOUND INLET PIG RECEIVER | N/A[8] | N/A[8] | N/A[8] | N/A[11] | N/A[11] | 2023<br>2023 | RA2-FL-25100<br>RA2-FL-25100 & RA2-REC-GREYHOUND | 30600402 | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RHA-LAU-LIMESTONE-10INCH | RHA, LIMESTONE 10-INCH INLET PIG LAUNCHER | N/A[8] | N/A[8] | N/A[8] | N/A[11] | N/A[11] | 2018<br>2018 | RA2-FL-25100<br>RA2-FL-25100 & RHA-LAU-LIMESTONE-10INCH | 30600402 | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-LAU-NGPL | RH1, NGPL RESIDUE PIG LAUNCHER | N/A[8] | N/A[8] | N/A[8] | N/A[11] | N/A[11] | 2013<br>2013 | N/A<br>RH1-LAU-NGPL | 30600402 | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-LAU-TW | RH1, TW RESIDUE PIG LAUNCHER | N/A[8] | N/A[8] | N/A[8] | N/A[11] | N/A[11] | 2013<br>2013 | N/A<br>RH1-LAU-TW | 30600402 | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |

# Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

| Unit Number[1] | Source Description | Make | Model # | Serial # | Manufact-urer's Rated Capacity[3] (Specify Units) | Requested Permitted Capacity[3] (Specify Units) | Date of Manufacture[2] / Date of Construction/ Reconstruction[2] | Controlled by Unit # / Emissions vented to Stack # | Source Classi-fication Code (SCC) | For Each Piece of Equipment, Check One | RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4] | Replacing Unit No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RH1-LAU-ETC | RH1, ETC LONE STAR NGL PIG LAUNCHER | N/A[8] | N/A[8] | N/A[8] | N/A[11] | N/A[11] | 2013<br>2013 | N/A<br>RH1-LAU-ETC | 30600402 | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH1-LAU-ONEOK | RH1, ONEOK NGL PIG LAUNCHER | N/A[8] | N/A[8] | N/A[8] | N/A[11] | N/A[11] | 2013<br>2013 | N/A<br>RH1-LAU-ONEOK | 30600402 | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH2-LAU-GPX | RH2, GPX NGL PIG LAUNCHER | N/A[8] | N/A[8] | N/A[8] | N/A[11] | N/A[11] | 2025<br>2025 | RHA-FL-5100<br>RHA-FL-5100 & RH2-LAU-GPX | 30600402 | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH-HAUL | RH, HAUL ROAD EMISSIONS | N/A[9] | N/A[9] | N/A[9] | N/A[11] | N/A[11] | 2012<br>2012 | N/A<br>N/A | 31088811 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH-FUG-1 | RH, FUGITIVE EMISSIONS | N/A[7] | N/A[7] | N/A[7] | N/A[11] | N/A[11] | 2013<br>2013 | N/A<br>N/A | 31088811 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RH-FUG-2 | RH, FUGITIVE EMISSIONS | N/A[7] | N/A[7] | N/A[7] | N/A[11] | N/A[11] | 2017<br>2017 | N/A<br>N/A | 31088811 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RHA-FUG | RHA, FUGITIVE EMISSIONS | N/A[7] | N/A[7] | N/A[7] | N/A[11] | N/A[11] | 2018<br>2018 | N/A<br>N/A | 31088811 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| RA2-FUG | RA2, FUGITIVE EMISSIONS | N/A[7] | N/A[7] | N/A[7] | N/A[11] | N/A[11] | 2023<br>2023 | N/A<br>N/A | 31088811 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |
| Flare-M | Malfunction flaring associated with RH1-FL-29-1003, RH2-FL-5100, RH3-FL-5100, RH4-FL-45100, RH5-FL-55100, RHA-FL-5100, and RA2-FL-25100 | Callidus/Zeeco/Tulsa Combustion | RTA-20 Air-Assisted Tip/x/x | F-201113/30144/33985/37803/42009/170084-07/61585 | N/A[11] | N/A[11] | RH1-FL-29-1003 (2012) RH2-FL-5100 (2017) RH3-FL-5100 (2018) RH4-FL-45100 (2019) RH5-FL-55100 (2020) RHA-FL-5100 (2018) RA2-FL-25100 (2023)<br>RH1-FL-29-1003 (2012) RH2-FL-5100 (2017) RH3-FL-5100 (2018) RH4-FL-45100 (2019) RH5-FL-55100 (2020) RHA-FL-5100 (2018) RA2-FL-25100 (2023) | N/A<br>RH1-FL-29-1003, RH2-FL-5100, RH3-FL-5100, RH4-FL-45100, RH5-FL-55100, RHA-FL-5100, and RA2-FL-25100 | 31088811 | ☐ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☑ To Be Modified ☐ To be Replaced | N/A | N/A |

[1] Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided. Cross reference tables have been included in Section 3 and 6 of this permit application.

[2] Specify dates required to determine regulatory applicability.

[3] To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

[4] "4SLB" means four stroke lean burn engine, "4SRB" means four stroke rich burn engine, "2SLB" means two stroke lean burn engine, "CI" means compression ignition, and "SI" means spark ignition.

[5] The manufacturer of this unit does not provide make or model numbers.

[6] The manufacturer of this unit does not provide model numbers.

[7] As this unit is an activity and is not a physical piece of equipment, no manufactuer, model, or serial number is avaliable.

[8] As this unit consists of piping and is not a physical piece of equipment, no manufactuer, model, or serial number is avaliable.

[9] As this unit consists of haul roads and is not a physical piece of equipment, no manufactuer, model, or serial number is avaliable.

[10] As this unit consists of loading activites and is not a physical piece of equipment, no serial number is avaliable.

[11] As this unit is a fugitive, flared malfunction, or SSM activity and is not a physical piece of equipment, there is no manufacturer rated capacity or requested capacity.

## Table 2-B: Insignificant Activities[1] (20.2.70 NMAC) OR Exempted Equipment (20.2.72 NMAC)

All 20.2.70 NMAC (Title V) applications must list all Insignificant Activities in this table. All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 202.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see http://www.env.nm.gov/aqb/permit/aqb_pol.html ), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at https://www.env.nm.gov/wp-content/uploads/sites/2/2017/10/InsignificantListTitleV.pdf. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

| Unit Number | Source Description | Manufacturer | Model No. / Serial No. | Max Capacity / Capacity Units | List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a) | Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2] | For Each Piece of Equipment, Check Onc |
|---|---|---|---|---|---|---|---|
| SmT-1 | Amine Storage Tank | N/A | N/A<br>N/A | 120<br>bbl | 20.2.72.202.B.2 NMAC | Unknown<br>Unknown | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| SmT-2 | Lube Oil Storage Tank | N/A | N/A<br>N/A | 120<br>bbl | 20.2.72.202.B.2 NMAC | Unknown<br>Unknown | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| SmT-3 | Glycol Storage Tank | N/A | N/A<br>N/A | 120<br>bbl | 20.2.72.202.B.2 NMAC | Unknown<br>Unknown | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| SmT-4 | Oily Wastewater Tank | N/A | N/A<br>N/A | 210<br>bbl | 20.2.72.202.B.2 NMAC | Unknown<br>Unknown | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| SmT-5 | Oil Storage | N/A | N/A<br>N/A | 120<br>bbl | 20.2.72.202.B.5 NMAC | Unknown<br>Unknown | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| SmT-6 | Wastewater Tank | N/A | N/A<br>N/A | 500<br>bbl | 20.2.72.202.B.2 NMAC | Unknown<br>Unknown | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| SmT-7 | Wastewater Tank | N/A | N/A<br>N/A | 500<br>bbl | 20.2.72.202.B.2 NMAC | Unknown<br>Unknown | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| SmT-8 | Wastewater Tank | N/A | N/A<br>N/A | 210<br>bbl | 20.2.72.202.B.2 NMAC | Unknown<br>Unknown | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| SmT-9 | Amine Storage Tank | N/A | N/A<br>N/A | 210<br>bbl | 20.2.72.202.B.2 NMAC | Unknown<br>Unknown | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| SmT-10 | Glycol Storage Tank | N/A | N/A<br>N/A | 210<br>bbl | 20.2.72.202.B.2 NMAC | Unknown<br>Unknown | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| TK-Gasoline | Gasoline Storage Tank | N/A | N/A<br>N/A | 300<br>gallons | 20.2.72.202.B.5 NMAC | Unknown<br>Unknown | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| TK-Diesel | Diesel Storage Tank | N/A | N/A<br>N/A | <500<br>bbl | 20.2.72.202.B.2 NMAC | Unknown<br>Unknown | ☑ Existing (unchanged) ☐ To be Removed<br>☐ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RHA-C-5530[3] | RHA, C-5530, Acid Gas Compressor #1 | Ariel | JG/4<br>F-49894 | N/A<br>N/A | Not a source of emissions (electric). | 2/1/2015<br>2/1/2015 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RHA-C-5540[3] | RHA, C-5540, Acid Gas Compressor #2 | Ariel | JGA/6<br>F-55662 | N/A<br>N/A | Not a source of emissions (electric). | 1/1/2018<br>1/1/2018 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RA2-C-25530[3] | RA2, C-25530, AGI Compressor 1 | Ariel | KBT/6<br>F-67632 | N/A<br>N/A | Not a source of emissions (electric). | 4/1/2023<br>4/1/2023 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |

## Table 2-B: Insignificant Activities[1] (20.2.70 NMAC) OR Exempted Equipment (20.2.72 NMAC)

All 20.2.70 NMAC (Title V) applications must list all Insignificant Activities in this table. All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 202.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see http://www.env.nm.gov/aqb/permit/aqb_pol.html ), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at https://www.env.nm.gov/wp-content/uploads/sites/2/2017/10/InsignificantListTitleV.pdf. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

| Unit Number | Source Description | Manufacturer | Model No. / Serial No. | Max Capacity / Capacity Units | List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a) | Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2] | For Each Piece of Equipment, Check Onc |
|---|---|---|---|---|---|---|---|
| RA2-C-25540[3] | RA2, C-25540, AGI Compressor 2 | Ariel | KBT/6<br>F-67703 | N/A<br>N/A | Not a source of emissions (electric). | 5/1/2023<br>5/1/2023 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RA2-C-29300[3] | RA2, C-29300, Flash Gas Compressor 1 | Ariel | KBK/4<br>F-67627 | N/A<br>N/A | Not a source of emissions (electric). | 4/1/2023<br>4/1/2023 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RA2-C-29400[3] | RA2, C-29400, Flash Gas Compressor 2 | Ariel | KBK/4<br>F-67623 | N/A<br>N/A | Not a source of emissions (electric). | 4/1/2023<br>4/1/2023 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH1-C-42-601A[3] | RH1, C-42-601A, Sales Gas Compressor A | Ariel | JGC/4<br>F-36741 | N/A<br>N/A | Not a source of emissions (electric). | 10/1/2011<br>10/1/2011 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH1-C-42-601B[3] | RH1, C-42-601B, Sales Gas Compressor B | Ariel | JGC/4<br>F-36785 | N/A<br>N/A | Not a source of emissions (electric). | 10/1/2011<br>10/1/2011 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH1-C-42-601C[3] | RH1, C-42-601C, Sales Gas Compressor C | Ariel | JGC/4<br>F-J6809 | N/A<br>N/A | Not a source of emissions (electric). | 11/1/2011<br>11/1/2011 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH1-C-42-15-U205[3] | RH1, C-42-15-U205, Flash Gas Compressor A | Ariel | JGK/4<br>F-49554 | N/A<br>N/A | Not a source of emissions (electric). | 1/1/2015<br>1/1/2015 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH1-C-42-15-U206[3] | RH1, C-42-15-U206, Flash Gas Compressor B | Ariel | JGK/4<br>F-50779 | N/A<br>N/A | Not a source of emissions (electric). | 5/1/2015<br>5/1/2015 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH1-C-42-108A[3] | RH1, C-42-108A, Stabilizer Overhead Compressor A | Ariel | JGR/2<br>F-366501 | N/A<br>N/A | Not a source of emissions (electric). | 10/1/2011<br>10/1/2011 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH1-C-42-108B[3] | RH1, C-42-108B, Stabilizer Overhead Compressor B | Ariel | JGR/2<br>F-36692 | N/A<br>N/A | Not a source of emissions (electric). | 10/1/2011<br>10/1/2011 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH2-C-1300[3] | RH2, C-1300, Residue Compressor | Ariel | KBZ/6<br>F-53336 | N/A<br>N/A | Not a source of emissions (electric). | 1/1/2017<br>1/1/2017 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH2-C-1350[3] | RH2, C-1350, Residue Compressor | Ariel | KBZ/6<br>F-53352 | N/A<br>N/A | Not a source of emissions (electric). | 1/1/2017<br>1/1/2017 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH2-C-1400[3] | RH2, C-1400, Residue Compressor | Ariel | KBZ/6<br>F-53366 | N/A<br>N/A | Not a source of emissions (electric). | 1/1/2017<br>1/1/2017 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH2-C-1450[3] | RH2, C-1450, Residue Compressor | Ariel | KBZ/6<br>F-53374 | N/A<br>N/A | Not a source of emissions (electric). | 1/1/2017<br>1/1/2017 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH2-C-0101[3] | RH2, C-0101, Flash Gas VRU | Ariel | KBT/2<br>F-60935 | N/A<br>N/A | Not a source of emissions (electric). | 7/1/2019<br>7/1/2019 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |

## Table 2-B: Insignificant Activities[1] (20.2.70 NMAC) OR Exempted Equipment (20.2.72 NMAC)

All 20.2.70 NMAC (Title V) applications must list all Insignificant Activities in this table. All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 202.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see http://www.env.nm.gov/aqb/permit/aqb_pol.html ), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at https://www.env.nm.gov/wp-content/uploads/sites/2/2017/10/InsignificantListTitleV.pdf. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

| Unit Number | Source Description | Manufacturer | Model No. / Serial No. | Max Capacity / Capacity Units | List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a) | Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2] | For Each Piece of Equipment, Check Onc |
|---|---|---|---|---|---|---|---|
| RH3-C-1475[3] | RH3, C-1475, Residue Compressor | Ariel | KBZ/6<br>F-60184 | N/A<br>N/A | Not a source of emissions (electric). | 5/1/2019<br>5/1/2019 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH3-C-1500[3] | RH3, C-1500, Residue Compressor | Ariel | KBZ/6<br>F-56300 | N/A<br>N/A | Not a source of emissions (electric). | 4/1/2018<br>4/1/2018 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH3-C-1550[3] | RH3, C-1550, Residue Compressor | Ariel | KBZ/6<br>F-56354 | N/A<br>N/A | Not a source of emissions (electric). | 4/1/2018<br>4/1/2018 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH4-C-41300[3] | RH4, C-41300, Residue Compressor | Ariel | KBZ/6<br>F-60340 | N/A<br>N/A | Not a source of emissions (electric). | 5/1/2019<br>5/1/2019 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH4-C-41350[3] | RH4, C-41350, Residue Compressor | Ariel | KBZ/6<br>F-60359 | N/A<br>N/A | Not a source of emissions (electric). | 6/1/2019<br>6/1/2019 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH4-C-41400[3] | RH4, C-41400, Residue Compressor | Ariel | KBZ/6<br>F-60433 | N/A<br>N/A | Not a source of emissions (electric). | 6/1/2019<br>6/1/2019 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH4-C-41450[3] | RH4, C-41450, Residue Compressor | Ariel | KBZ/6<br>F-60461 | N/A<br>N/A | Not a source of emissions (electric). | 6/1/2019<br>6/1/2019 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH4-C-3101[3] | RH4, C-3101, Flash Gas VRU | Ariel | KBT/2<br>F-60923 | N/A<br>N/A | Not a source of emissions (electric). | 7/1/2019<br>7/1/2019 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH5-C-51300[3] | RH5, C-51300, Residue Compressor | Ariel | KBZ/6<br>F-61760 | N/A<br>N/A | Not a source of emissions (electric). | 11/1/2019<br>11/1/2019 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH5-C-51350[3] | RH5, C-51350, Residue Compressor | Ariel | KBZ/6<br>F-61777 | N/A<br>N/A | Not a source of emissions (electric). | 11/1/2019<br>11/1/2019 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH5-C-51400[3] | RH5, C-51400, Residue Compressor | Ariel | KBZ/6<br>F-61850 | N/A<br>N/A | Not a source of emissions (electric). | 11/1/2019<br>11/1/2019 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH5-C-51450[3] | RH5, C-51450, Residue Compressor | Ariel | KBZ/6<br>F-61962 | N/A<br>N/A | Not a source of emissions (electric). | 11/1/2019<br>11/1/2019 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH6-C-61300[3] | RH6, C-61300, Residue Compressor | Ariel | KBZ/6<br>F-64872 | N/A<br>N/A | Not a source of emissions (electric). | 3/1/2022<br>3/1/2022 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH6-C-61350[3] | RH6, C-61350, Residue Compressor | Ariel | KBZ/6<br>F-64872 | N/A<br>N/A | Not a source of emissions (electric). | 4/1/2022<br>4/1/2022 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH6-C-61400[3] | RH6, C-61400, Residue Compressor | Ariel | KBZ/6<br>F-65026 | N/A<br>N/A | Not a source of emissions (electric). | 4/1/2022<br>4/1/2022 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |

## Table 2-B: Insignificant Activities[1] (20.2.70 NMAC) OR Exempted Equipment (20.2.72 NMAC)

All 20.2.70 NMAC (Title V) applications must list all Insignificant Activities in this table. All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 202.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see http://www.env.nm.gov/aqb/permit/aqb_pol.html ), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at https://www.env.nm.gov/wp-content/uploads/sites/2/2017/10/InsignificantListTitleV.pdf. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

| Unit Number | Source Description | Manufacturer | Model No. / Serial No. | Max Capacity / Capacity Units | List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a) | Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2] | For Each Piece of Equipment, Check Onc |
|---|---|---|---|---|---|---|---|
| RH6-C-61450[3] | RH6, C-61450, Residue Compressor | Ariel | KBZ/6<br>F-65073 | N/A<br>N/A | Not a source of emissions (electric). | 4/1/2022<br>4/1/2022 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH6-C-69300[3] | RH6, C-69300, Flash Gas Compressor | Ariel | KBZ/2<br>F-64895 | N/A<br>N/A | Not a source of emissions (electric). | 3/1/2022<br>3/1/2022 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH6-C-69400[3] | RH6, C-69400, Flash Gas Compressor | Ariel | KBZ/2<br>F-64949 | N/A<br>N/A | Not a source of emissions (electric). | 3/1/2022<br>3/1/2022 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH1-C-42-406[3] | RH1, C-42-406, Regen Gas Compressor | Sundyne | LMC-311P<br>C2007862-01 | N/A<br>N/A | Not a source of emissions (electric). | 11/30/2011<br>11/30/2011 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH2-C-141[3] | RH2, C-141, Regen Gas Compressor | Sundyne | LMC-311P<br>C2875932-01 | N/A<br>N/A | Not a source of emissions (electric). | 1/30/2018<br>1/30/2018 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH3-C-141[3] | RH3, C-141, Regen Gas Compressor | Sundyne | GB01AC13<br>C2575760-01 | N/A<br>N/A | Not a source of emissions (electric). | 10/21/2021<br>10/21/2021 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH4-C-141[3] | RH4, C-141, Regen Gas Compressor | Sundyne | GB01AC13<br>C2754518-01 | N/A<br>N/A | Not a source of emissions (electric). | 8/20/2021<br>8/20/2021 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH5-C-50141[3] | RH5, C-50141, Regen Gas Compressor | Sundyne | LMC-311P<br>C2939686-01 | N/A<br>N/A | Not a source of emissions (electric). | 1/15/2019<br>1/15/2019 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| RH6-C-60141[3] | RH6, C-60141, Regen Gas Compressor | Sundyne | LMC-311P<br>C2979131-01 | N/A<br>N/A | Not a source of emissions (electric). | 12/22/2021<br>12/22/2021 | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |
| C-2000[3] | C-2000, Regen Gas Compressor | TBD | TBD<br>TBD | N/A<br>N/A | Not a source of emissions (electric). | TBD<br>TBD | ☐ Existing (unchanged) ☐ To be Removed<br>☑ New/Additional ☐ Replacement Unit<br>☐ To Be Modified ☐ To be Replaced |

[1] Insignificant activities exempted due to size or production rate are defined in 20.2.70.300.D.6, 20.2.70.7.Q NMAC, and the NMED/AQB List of Insignificant Activities, dated September 15, 2008. Emissions from these insignificant activities do not need to be reported, unless specifically requested.

[2] Specify date(s) required to determine regulatory applicability.

[3] Unit does not have a stamped capacity. Capacity is a function of the associated engine or driver.

## Table 2-C: Emissions Control Equipment (Tank Scenario 1)

Unit and stack numbering must correspond throughout the application package. Only list control equipment for TAPs if the TAP's maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B. In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions.

| Control Equipment Unit No. | Control Equipment Description | Date Installed | Controlled Pollutant(s) | Controlling Emissions for Unit Number(s)[1] | Efficiency (% Control by Weight) | Method used to Estimate Efficiency |
|---|---|---|---|---|---|---|
| RH1-TEG-BTEX | Condenser | 2012 | VOC, HAP | RH1-TEG | Various | Condenser Curves |
| RH2-TEG-BTEX | Condenser | 2017 | VOC, HAP | RH2-TEG | Various | Condenser Curves |
| RH3-TEG-BTEX | Condenser | 2018 | VOC, HAP | RH3-TEG | Various | Condenser Curves |
| RH4-TEG-BTEX | Condenser | 2019 | VOC, HAP | RH4-TEG | Various | Condenser Curves |
| RH5-TEG-BTEX | Condenser | 2020 | VOC, HAP | RH5-TEG | Various | Condenser Curves |
| RH6-TEG-BTEX | Condenser | 2022 | VOC, HAP | RH6-TEG | Various | Condenser Curves |
| RH2-TO-5500 | Thermal Oxidizer | 2012 | VOC, HAP, $H_2S$ | RH2-TEG (Still Vent)<br>RH1-AMINE (Still Vent)<br>RH3-TEG (Still Vent)<br>RH2-AMINE (Still Vent) | 99% | Manufacturer |
| RH3-TO-45500 | Thermal Oxidizer | 2020 | VOC, HAP, $H_2S$ | RH4-TEG (Still Vent)<br>RH4-AMINE (Still Vent) | 99% | Manufacturer |
| RH5-TO-55500 | Thermal Oxidizer | 2020 | VOC, HAP, $H_2S$ | RH5-TEG (Still Vent)<br>RH6-TEG (Still Vent)<br>RH5-AMINE (Still Vent) | 99% | Manufacturer |
| RH1-FL-2850 | RH1, CONDENSATE STORAGE TANKS FLARE | 2025 | VOC, HAP | RH1-TK-COND-EAST<br>RH1-TK-COND-WEST<br>RH1-TK-COND-WEST-LOAD | 98% | Manufacturer |
| RH1-FL-29-1003 | RH1, FLARE | 2012 | VOC, HAP, $H_2S$ | RH1-TEG (Still Vent)<br>RH1-AMINE (AOS)<br>Facility Wide SSM | 98% | Manufacturer |
| RH2-FL-5100 | RH2, FLARE | 2017 | VOC, HAP, $H_2S$ | RH2-AMINE (AOS)<br>RH2-TEG (AOS)<br>Facility Wide SSM | 98% | Manufacturer |
| RHA-FL-5100 | RHA, FLARE | 2018 | VOC, HAP, $H_2S$ | RHA-AMINE<br>Facility Wide SSM | 98% | Manufacturer |
| RH3-FL-5100 | RH3, FLARE | 2018 | VOC, HAP, $H_2S$ | RH3-TEG (AOS)<br>Facility Wide SSM | 98% | Manufacturer |
| RH4-FL-45100 | RH4, FLARE | 2019 | VOC, HAP, $H_2S$ | RH4-AMINE (AOS)<br>RH5-AMINE (AOS)<br>RH4-TEG (AOS)<br>Facility Wide SSM | 98% | Manufacturer |
| RH5-FL-55100 | RH5, FLARE | 2020 | VOC, HAP, $H_2S$ | RH5-TEG (AOS)<br>RH6-TEG (AOS)<br>Facility Wide SSM | 98% | Manufacturer |
| RA2-FL-25100 | RA2, FLARE | 2023 | VOC, HAP, $H_2S$ | RA2-AMINE<br>Facility Wide SSM | 98% | Manufacturer |
| RHA-FL-5850 | RHA, SOUR SLOP WATER STORAGE TANKS FLARE | 2018 | VOC, HAP, $H_2S$ | RHA-TK-SLOP<br>RHA-TK-SLOP-LOAD | 98% | Manufacturer |
| RA2-FL-25850 | RA2, SOUR SLOP WATER STORAGE TANKS FLARE | 2023 | VOC, HAP, $H_2S$ | RA2-TK-SLOP<br>RA2-TK-SLOP-LOAD | 98% | Manufacturer |
| RH4-FL-46200 | RH4, SLOP WATER STORAGE TANKS FLARE | TBD | VOC, HAP, $H_2S$ | RH4-TK-SLOP<br>RH4-TK-SLOP-LOAD | 98% | Manufacturer |
| AGI Well System | Redudant Acid Gas Injeciton Wells | 10/2013 | VOC, HAP, $H_2S$ | RHA-AMINE & RA2-AMINE | 100% | Engineering Estimate |

[1] List each control device on a separate line. For each control device, list all emission units controlled by the control device.

## Table 2-C: Emissions Control Equipment (Tank Scenario 2)

Unit and stack numbering must correspond throughout the application package. Only list control equipment for TAPs if the TAP's maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B. In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions.

| Control Equipment Unit No. | Control Equipment Description | Date Installed | Controlled Pollutant(s) | Controlling Emissions for Unit Number(s)[1] | Efficiency (% Control by Weight) | Method used to Estimate Efficiency |
|---|---|---|---|---|---|---|
| RH1-TEG-BTEX | Condenser | 2012 | VOC, HAP | RH1-TEG | Various | Condenser Curves |
| RH2-TEG-BTEX | Condenser | 2017 | VOC, HAP | RH2-TEG | Various | Condenser Curves |
| RH3-TEG-BTEX | Condenser | 2018 | VOC, HAP | RH3-TEG | Various | Condenser Curves |
| RH4-TEG-BTEX | Condenser | 2019 | VOC, HAP | RH4-TEG | Various | Condenser Curves |
| RH5-TEG-BTEX | Condenser | 2020 | VOC, HAP | RH5-TEG | Various | Condenser Curves |
| RH6-TEG-BTEX | Condenser | 2022 | VOC, HAP | RH6-TEG | Various | Condenser Curves |
| RH2-TO-5500 | Thermal Oxidizer | 2012 | VOC, HAP, $H_2S$ | RH2-TEG (Still Vent)<br>RH1-AMINE (Still Vent)<br>RH3-TEG (Still Vent)<br>RH2-AMINE (Still Vent) | 99% | Manufacturer |
| RH3-TO-45500 | Thermal Oxidizer | 2020 | VOC, HAP, $H_2S$ | RH4-TEG (Still Vent)<br>RH4-AMINE (Still Vent) | 99% | Manufacturer |
| RH5-TO-55500 | Thermal Oxidizer | 2020 | VOC, HAP, $H_2S$ | RH5-TEG (Still Vent)<br>RH6-TEG (Still Vent)<br>RH5-AMINE (Still Vent) | 99% | Manufacturer |
| RH1-FL-2850 | RH1, CONDENSATE STORAGE TANKS FLARE | 2025 | VOC, HAP | RH1-TK-COND-EAST<br>RH1-TK-COND-WEST<br>RH1-TK-COND-WEST-LOAD | 98% | Manufacturer |
| RH1-FL-29-1003 | RH1, FLARE | 2012 | VOC, HAP, $H_2S$ | RH1-TEG (Still Vent)<br>RH1-AMINE (AOS)<br>Facility Wide SSM | 98% | Manufacturer |
| RH2-FL-5100 | RH2, FLARE | 2017 | VOC, HAP, $H_2S$ | RH2-AMINE (AOS)<br>RH2-TEG (AOS)<br>Facility Wide SSM | 98% | Manufacturer |
| RHA-FL-5100 | RHA, FLARE | 2018 | VOC, HAP, $H_2S$ | RHA-AMINE<br>Facility Wide SSM | 98% | Manufacturer |
| RH3-FL-5100 | RH3, FLARE | 2018 | VOC, HAP, $H_2S$ | RH3-TEG (AOS)<br>Facility Wide SSM | 98% | Manufacturer |
| RH4-FL-45100 | RH4, FLARE | 2019 | VOC, HAP, $H_2S$ | RH4-AMINE (AOS)<br>RH5-AMINE (AOS)<br>RH4-TEG (AOS)<br>Facility Wide SSM | 98% | Manufacturer |
| RH5-FL-55100 | RH5, FLARE | 2020 | VOC, HAP, $H_2S$ | RH5-TEG (AOS)<br>RH6-TEG (AOS)<br>Facility Wide SSM | 98% | Manufacturer |
| RA2-FL-25100 | RA2, FLARE | 2023 | VOC, HAP, $H_2S$ | RA2-AMINE<br>Facility Wide SSM | 98% | Manufacturer |
| RHA-FL-5850 | RHA, SOUR SLOP WATER STORAGE TANKS FLARE | 2018 | VOC, HAP, $H_2S$ | RHA-TK-SLOP<br>RHA-TK-SLOP-LOAD | 98% | Manufacturer |
| RA2-FL-25850 | RA2, SOUR SLOP WATER STORAGE TANKS FLARE | 2023 | VOC, HAP, $H_2S$ | RA2-TK-SLOP<br>RA2-TK-SLOP-LOAD | 98% | Manufacturer |
| AGI Well System | Redudant Acid Gas Injeciton Wells | 10/2013 | VOC, HAP, $H_2S$ | RHA-AMINE & RA2-AMINE | 100% | Engineering Estimate |
| | | | | | | |

[1] List each control device on a separate line. For each control device, list all emission units controlled by the control device.

# Table 2-D: Maximum Emissions (under normal operating conditions) (Tank Scenario 1)

☐ **This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

| Unit No. | NOx | | CO | | VOC | | SOx | | PM[1] | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| RH1-H-23-704 | 0.75 | 3.30 | 1.57 | 6.89 | 0.23 | 1.01 | 0.03 | 0.13 | 0.19 | 0.82 | 0.19 | 0.82 | 0.19 | 0.82 | <0.01 | <0.01 | - | - |
| RH1-H-1101 | 0.40 | 1.73 | 0.83 | 3.61 | 0.12 | 0.53 | 0.02 | 0.07 | 0.10 | 0.43 | 0.10 | 0.43 | 0.10 | 0.43 | <0.01 | <0.01 | - | - |
| RH4-H-41100 | 0.88 | 3.86 | 0.49 | 2.13 | 0.07 | 0.31 | <0.01 | 0.04 | 0.06 | 0.25 | 0.06 | 0.25 | 0.06 | 0.25 | <0.01 | <0.01 | - | - |
| RH2-H-741 | 0.94 | 4.12 | 0.36 | 1.56 | 0.05 | 0.23 | <0.01 | 0.03 | 0.07 | 0.29 | 0.07 | 0.29 | 0.07 | 0.29 | <0.01 | <0.01 | - | - |
| RH2-H-781 | 0.23 | 1.03 | 0.49 | 2.14 | 0.07 | 0.31 | <0.01 | 0.04 | 0.09 | 0.40 | 0.09 | 0.40 | 0.09 | 0.40 | <0.01 | <0.01 | - | - |
| RH2-H-2301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | <0.01 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | <0.01 | <0.01 | - | - |
| RH2-H-0901 | 1.33 | 5.83 | 2.70 | 11.82 | 0.41 | 1.77 | 0.05 | 0.22 | 0.33 | 1.45 | 0.33 | 1.45 | 0.33 | 1.45 | <0.01 | <0.01 | - | - |
| RH2-H-1001 | 1.33 | 5.83 | 2.70 | 11.82 | 0.41 | 1.77 | 0.05 | 0.22 | 0.33 | 1.45 | 0.33 | 1.45 | 0.33 | 1.45 | <0.01 | <0.01 | - | - |
| RHA-H-4901 | 0.64 | 2.79 | 1.25 | 5.49 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.65 | 0.15 | 0.65 | 0.15 | 0.65 | <0.01 | <0.01 | - | - |
| RH3-H-741 | 0.49 | 2.14 | 0.34 | 1.49 | 0.05 | 0.22 | <0.01 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | <0.01 | <0.01 | - | - |
| RH3-H-781 | 0.40 | 1.77 | 0.73 | 3.21 | 0.11 | 0.47 | 0.01 | 0.06 | 0.04 | 0.16 | 0.04 | 0.16 | 0.04 | 0.16 | <0.01 | <0.01 | - | - |
| RH3-H-6301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | <0.01 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | <0.01 | <0.01 | - | - |
| RH4-H-741 | 0.49 | 2.14 | 0.34 | 1.49 | 0.05 | 0.22 | <0.01 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | <0.01 | <0.01 | - | - |
| RH4-H-781 | 0.45 | 1.99 | 0.83 | 3.61 | 0.12 | 0.53 | 0.02 | 0.07 | 0.10 | 0.43 | 0.10 | 0.43 | 0.10 | 0.43 | <0.01 | <0.01 | - | - |
| RH4-H-3901 | 1.54 | 6.73 | 2.84 | 12.43 | 0.41 | 1.81 | 0.05 | 0.23 | 0.34 | 1.48 | 0.34 | 1.48 | 0.34 | 1.48 | <0.01 | <0.01 | - | - |
| RH4-H-5301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | <0.01 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | <0.01 | <0.01 | - | - |
| RH4-H-4001 | 1.54 | 6.73 | 2.84 | 12.43 | 0.41 | 1.81 | 0.05 | 0.23 | 0.34 | 1.48 | 0.34 | 1.48 | 0.34 | 1.48 | <0.01 | <0.01 | - | - |
| RH5-H-50902 | 1.80 | 7.88 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | <0.01 | <0.01 | - | - |
| RH5-H-50001 | 1.80 | 7.88 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | <0.01 | <0.01 | - | - |
| RH5-H-50741 | 0.48 | 2.11 | 0.34 | 1.47 | 0.05 | 0.21 | <0.01 | 0.03 | 0.04 | 0.17 | 0.04 | 0.17 | 0.04 | 0.17 | <0.01 | <0.01 | - | - |
| RH5-H-50781 | 0.69 | 3.04 | 1.26 | 5.51 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.66 | 0.15 | 0.66 | 0.15 | 0.66 | <0.01 | <0.01 | - | - |
| RH6-H-60001 | 1.88 | 8.23 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | <0.01 | <0.01 | - | - |
| RH6-H-60741 | 0.48 | 2.11 | 0.34 | 1.47 | 0.05 | 0.22 | <0.01 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | <0.01 | <0.01 | - | - |
| RH6-H-60781 | 0.69 | 3.02 | 1.25 | 5.49 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.65 | 0.15 | 0.65 | 0.15 | 0.65 | <0.01 | <0.01 | - | - |
| RA2-H-20001 | 1.88 | 8.23 | 3.30 | 14.46 | 0.48 | 2.11 | 0.06 | 0.27 | 0.39 | 1.72 | 0.39 | 1.72 | 0.39 | 1.72 | <0.01 | <0.01 | - | - |
| RH1-FL-29-1003 | 0.33 | 1.45 | 0.66 | 2.88 | 0.01 | 0.06 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - |
| RH2-FL-5100 | 0.37 | 1.62 | 0.74 | 3.23 | 0.01 | 3.23 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - |
| RH3-FL-5100 | 0.37 | 1.62 | 0.74 | 3.23 | 0.01 | 0.06 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - |
| RH4-FL-45100 | 0.37 | 1.62 | 0.74 | 3.23 | 0.01 | 0.06 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - |
| RH5-FL-55100 | 0.76 | 3.31 | 1.51 | 6.60 | 0.03 | 0.13 | <0.01 | 0.02 | - | - | - | - | - | - | - | - | - | - |
| RHA-FL-5100 | 0.07 | 0.31 | 0.61 | 2.68 | <0.01 | 0.03 | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RA2-FL-25100 | <0.01 | 0.03 | 0.06 | 0.25 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RHA-FL-5850 | <0.01 | 0.03 | 0.06 | 0.25 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - |
| RA2-FL-25850 | <0.01 | 0.03 | 0.06 | 0.25 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - |
| RH1-FL-2850 | 0.01 | 0.06 | 0.03 | 0.13 | 0.12 | 0.52 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - |
| RH4-FL-46200 | 0.01 | 0.06 | 0.03 | 0.13 | 0.12 | 0.52 | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-TEG | - | - | - | - | 94.22 | 412.68 | - | - | - | - | - | - | - | - | 0.09 | 0.39 | - | - |
| RH2-TEG | - | - | - | - | 234.23 | 1,025.93 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH3-TEG | - | - | - | - | 334.54 | 1,465.28 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH4-TEG | - | - | - | - | 215.39 | 943.40 | - | - | - | - | - | - | - | - | - | - | - | - |

# Table 2-D: Maximum Emissions (under normal operating conditions) (Tank Scenario 1)

☐ **This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

| Unit No. | NOx | | CO | | VOC | | SOx | | PM[1] | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| RH5-TEG | - | - | - | - | 435.26 | 1,906.46 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH6-TEG | - | - | - | - | 378.10 | 1,656.06 | - | - | - | - | - | - | - | - | 0.01 | 0.05 | - | - |
| RH1-AMINE | - | - | - | - | 50.45 | 220.96 | - | - | - | - | - | - | - | - | 1.12 | 220.96 | - | - |
| RH2-AMINE | - | - | - | - | 228.39 | 1,000.37 | - | - | - | - | - | - | - | - | 8.66 | 37.95 | - | - |
| RHA-AMINE | - | - | - | - | 57.01 | 249.70 | - | - | - | - | - | - | - | - | 752.40 | 3,295.53 | - | - |
| RH4-AMINE | - | - | - | - | 239.32 | 1,048.20 | - | - | - | - | - | - | - | - | 6.46 | 28.31 | - | - |
| RH5-AMINE | - | - | - | - | 280.19 | 1,227.24 | - | - | - | - | - | - | - | - | 6.49 | 28.45 | - | - |
| RA2-AMINE | - | - | - | - | 66.90 | 293.03 | - | - | - | - | - | - | - | - | 4,322.06 | 18,930.61 | - | - |
| RH2-TO-5500 | 0.10 | 0.44 | 0.06 | 0.27 | 0.40 | 1.76 | 0.05 | 0.21 | 0.56 | 2.43 | 0.56 | 2.43 | 0.56 | 2.43 | <0.01 | <0.01 | - | - |
| RH4-TO-45500 | 0.10 | 0.46 | 0.06 | 0.28 | 0.38 | 1.68 | 0.05 | 0.20 | 0.53 | 2.32 | 0.53 | 2.32 | 0.53 | 2.32 | <0.01 | <0.01 | - | - |
| RH5-TO-55500 | 0.08 | 0.36 | 0.05 | 0.22 | 0.31 | 1.34 | 0.04 | 0.16 | 0.42 | 1.85 | 0.42 | 1.85 | 0.14 | 1.85 | <0.01 | <0.01 | - | - |
| RH1-TK-COND-EAST | - | - | - | - | 3.45 | 15.09 | - | - | - | - | - | - | - | - | - | - | - | - |
| RHA-TK-SLOP | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | 0.73 | 3.22 | - | - |
| RH1-TK-COND-WEST | - | - | - | - | 3.45 | 15.09 | - | - | - | - | - | - | - | - | - | - | - | - |
| RA2-TK-SLOP | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | 0.83 | 3.63 | - | - |
| RH4-TK-SLOP | - | - | - | - | 268.25 | 1,174.93 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH2-TK-SLOP | - | - | - | - | 0.23 | 1.02 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-TK-SLOP | - | - | - | - | 0.43 | 1.89 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH-TK-METHANOL | - | - | - | - | 0.92 | 4.02 | - | - | - | - | - | - | - | - | - | - | - | - |
| RHA-TK-SLOP-LOAD | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | 0.26 | 0.03 | - | - |
| RH1-TK-COND-WEST-LOAD | - | - | - | - | 181.98 | 19.60 | - | - | - | - | - | - | - | - | - | - | - | - |
| RA2-TK-SLOP-LOAD | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | 0.31 | 0.08 | - | - |
| RH4-TK-SLOP-LOAD | - | - | - | - | 3.88 | 0.79 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH2-TK-SLOP-LOAD | - | - | - | - | 12.87 | 1.75 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-TK-SLOP-LOAD | - | - | - | - | 12.86 | 1.75 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH-GEN-1 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-2 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-3 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-4 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-5 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-6 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-7 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-8 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |

# Table 2-D: Maximum Emissions (under normal operating conditions) (Tank Scenario 1)

☐ **This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

| Unit No. | NOx | | CO | | VOC | | SOx | | PM[1] | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| RH-GEN-9 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-10 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-TRAILER | 0.30 | <0.01 | 0.18 | <0.01 | 0.01 | <0.01 | 0.59 | 0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-WELL | 0.63 | 0.04 | 0.08 | <0.01 | 0.01 | <0.01 | 0.08 | <0.01 | 0.09 | <0.01 | 0.09 | <0.01 | 0.09 | <0.01 | - | - | - | - |
| RH1-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH2-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH3-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH4-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH5-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH6-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RHA-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RA2-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH2-TO-5500-SSM | - | - | - | - | 92.25 | 5.05 | - | - | - | - | - | - | - | - | 9.75 | 0.53 | - | - |
| RH4-TO-45500-SSM | - | - | - | - | 72.89 | 3.99 | - | - | - | - | - | - | - | - | 6.44 | 0.35 | - | - |
| RH5-TO-55500-SSM | - | - | - | - | 88.47 | 7.75 | - | - | - | - | - | - | - | - | 6.47 | 0.57 | - | - |
| RHA-REC-WINKLER | - | - | - | - | 14.44 | <0.01 | - | - | - | - | - | - | - | - | 0.60 | 0.01 | - | - |
| RHA-REC-LIMESTONE-8INCH | - | - | - | - | 6.94 | <0.01 | - | - | - | - | - | - | - | - | 0.29 | <0.01 | - | - |
| RH1-REC-PLANTVIEW | - | - | - | - | 19.07 | 0.12 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-REC-GUTLINE | - | - | - | - | 42.46 | 0.83 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-REC-ABU | - | - | - | - | 49.47 | 0.32 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH4-REC-24INCH | - | - | - | - | 199.11 | 0.35 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RHA-REC-LIMESTONE-10INCH | - | - | - | - | 4.98 | <0.01 | - | - | - | - | - | - | - | - | 0.21 | <0.01 | - | - |
| RA2-REC-GREYHOUND | - | - | - | - | 13.02 | <0.01 | - | - | - | - | - | - | - | - | 0.54 | <0.01 | - | - |
| RHA-LAU-LIMESTONE-10INCH | - | - | - | - | 4.98 | <0.01 | - | - | - | - | - | - | - | - | 0.21 | <0.01 | - | - |
| RH1-LAU-NGPL | - | - | - | - | 268.02 | 0.03 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-TW | - | - | - | - | 44.51 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-ETC | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | - | - | - | - |

## Table 2-D: Maximum Emissions (under normal operating conditions) (Tank Scenario 1)

☐ **This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

| Unit No. | NOx | | CO | | VOC | | SOx | | PM[1] | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| RH1-LAU-ONEOK | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH2-LAU-GPX | - | - | - | - | 3,523.73 | 0.84 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH-HAUL | - | - | - | - | - | - | - | - | 6.37 | 22.54 | 1.62 | 5.75 | 0.16 | 0.57 | - | - | - | - |
| RH-FUG-1 | - | - | - | - | 70.84 | 310.26 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH-FUG-2 | - | - | - | - | 60.38 | 264.47 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RHA-FUG | - | - | - | - | 5.38 | 23.57 | - | - | - | - | - | - | - | - | 0.78 | 3.43 | - | - |
| RA2-FUG | - | - | - | - | 10.72 | 46.94 | - | - | - | - | - | - | - | - | 1.32 | 5.80 | - | - |
| **Totals** | **29.13** | **109.92** | **69.47** | **185.00** | **9,315.72** | **13,382.39** | **1.53** | **3.51** | **12.36** | **47.65** | **7.62** | **30.85** | **5.87** | **25.68** | **5,126.07** | **22,559.98** | **-** | **-** |

[1]**Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but PM is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

# Table 2-E: Requested Allowable Emissions (Tank Scenario 1)

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E$^{-4}$).

| Unit No. | NOx | | CO | | VOC | | SOx | | PM[1] | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| RH1-H-23-704 | 0.75 | 3.30 | 1.57 | 6.89 | 0.23 | 1.01 | 0.03 | 0.13 | 0.19 | 0.82 | 0.19 | 0.82 | 0.19 | 0.82 | <0.01 | <0.01 | - | - |
| RH1-H-1101 | 0.40 | 1.73 | 0.83 | 3.61 | 0.12 | 0.53 | 0.02 | 0.07 | 0.10 | 0.43 | 0.10 | 0.43 | 0.10 | 0.43 | <0.01 | <0.01 | - | - |
| RH4-H-41100 | 0.88 | 3.86 | 0.49 | 2.13 | 0.07 | 0.31 | <0.01 | 0.04 | 0.06 | 0.25 | 0.06 | 0.25 | 0.06 | 0.25 | <0.01 | <0.01 | - | - |
| RH2-H-741 | 0.94 | 4.12 | 0.36 | 1.56 | 0.05 | 0.23 | <0.01 | 0.03 | 0.07 | 0.29 | 0.07 | 0.29 | 0.07 | 0.29 | <0.01 | <0.01 | - | - |
| RH2-H-781 | 0.23 | 1.03 | 0.49 | 2.14 | 0.07 | 0.31 | <0.01 | 0.04 | 0.09 | 0.40 | 0.09 | 0.40 | 0.09 | 0.40 | <0.01 | <0.01 | - | - |
| RH2-H-2301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | <0.01 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | <0.01 | <0.01 | - | - |
| RH2-H-0901 | 1.33 | 5.83 | 2.70 | 11.82 | 0.41 | 1.77 | 0.05 | 0.22 | 0.33 | 1.45 | 0.33 | 1.45 | 0.33 | 1.45 | <0.01 | <0.01 | - | - |
| RH2-H-1001 | 1.33 | 5.83 | 2.70 | 11.82 | 0.41 | 1.77 | 0.05 | 0.22 | 0.33 | 1.45 | 0.33 | 1.45 | 0.33 | 1.45 | <0.01 | <0.01 | - | - |
| RHA-H-4901 | 0.64 | 2.79 | 1.25 | 5.49 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.65 | 0.15 | 0.65 | 0.15 | 0.65 | <0.01 | <0.01 | - | - |
| RH3-H-741 | 0.49 | 2.14 | 0.34 | 1.49 | 0.05 | 0.22 | <0.01 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | <0.01 | <0.01 | - | - |
| RH3-H-781 | 0.40 | 1.77 | 0.73 | 3.21 | 0.11 | 0.47 | 0.01 | 0.06 | 0.09 | 0.38 | 0.09 | 0.38 | 0.09 | 0.38 | <0.01 | <0.01 | - | - |
| RH3-H-6301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | <0.01 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | <0.01 | <0.01 | - | - |
| RH4-H-741 | 0.49 | 2.14 | 0.34 | 1.49 | 0.05 | 0.22 | <0.01 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | <0.01 | <0.01 | - | - |
| RH4-H-781 | 0.45 | 1.99 | 0.83 | 3.61 | 0.12 | 0.53 | 0.02 | 0.07 | 0.10 | 0.43 | 0.10 | 0.43 | 0.10 | 0.43 | <0.01 | <0.01 | - | - |
| RH4-H-3901 | 1.54 | 6.73 | 2.84 | 12.43 | 0.41 | 1.81 | 0.05 | 0.23 | 0.34 | 1.48 | 0.34 | 1.48 | 0.34 | 1.48 | <0.01 | <0.01 | - | - |
| RH4-H-5301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | <0.01 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | <0.01 | <0.01 | - | - |
| RH4-H-4001 | 1.54 | 6.73 | 2.84 | 12.43 | 0.41 | 1.81 | 0.05 | 0.23 | 0.34 | 1.48 | 0.34 | 1.48 | 0.34 | 1.48 | <0.01 | <0.01 | - | - |
| RH5-H-50902 | 1.80 | 7.88 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | <0.01 | <0.01 | - | - |
| RH5-H-50001 | 1.80 | 7.88 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | <0.01 | <0.01 | - | - |
| RH5-H-50741 | 0.48 | 2.11 | 0.34 | 1.47 | 0.05 | 0.21 | <0.01 | 0.03 | 0.04 | 0.17 | 0.04 | 0.17 | 0.04 | 0.17 | <0.01 | <0.01 | - | - |
| RH5-H-50781 | 0.69 | 3.04 | 1.26 | 5.51 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.66 | 0.15 | 0.66 | 0.15 | 0.66 | <0.01 | <0.01 | - | - |
| RH6-H-60001 | 1.88 | 8.23 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | <0.01 | <0.01 | - | - |
| RH6-H-60741 | 0.48 | 2.11 | 0.34 | 1.47 | 0.05 | 0.22 | <0.01 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | <0.01 | <0.01 | - | - |
| RH6-H-60781 | 0.69 | 3.02 | 1.25 | 5.49 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.65 | 0.15 | 0.65 | 0.15 | 0.65 | <0.01 | <0.01 | - | - |
| RA2-H-20001 | 1.88 | 8.23 | 3.30 | 14.46 | 0.48 | 2.11 | 0.06 | 0.27 | 0.39 | 1.72 | 0.39 | 1.72 | 0.39 | 1.72 | <0.01 | <0.01 | - | - |
| RH1-FL-29-1003 | 0.56 | 2.47 | 0.56 | 2.47 | 1.42 | 6.22 | 0.15 | 0.65 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH2-FL-5100 | 0.37 | 1.62 | 0.37 | 1.62 | 0.01 | 0.06 | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH3-FL-5100 | 0.37 | 1.62 | 0.37 | 1.62 | 0.01 | 0.06 | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH4-FL-45100 | 0.37 | 1.62 | 0.37 | 1.62 | 0.01 | 0.06 | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH5-FL-55100 | 0.76 | 3.31 | 0.76 | 3.31 | 0.03 | 0.13 | <0.01 | 0.02 | - | - | - | - | - | - | 0.07 | <0.01 | - | - |
| RHA-FL-5100 | 0.07 | 0.31 | 0.07 | 0.31 | <0.01 | 0.03 | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |

# Table 2-E: Requested Allowable Emissions (Tank Scenario 1)

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or $1.41E^{-4}$).

| Unit No. | NOx | | CO | | VOC | | SOx | | PM[1] | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| RA2-FL-25100 | 0.17 | 0.75 | 0.17 | 0.75 | 0.01 | 0.06 | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RHA-FL-5850 | <0.01 | 0.03 | <0.01 | 0.03 | <0.01 | <0.01 | 1.60 | 6.99 | - | - | - | - | - | - | 0.02 | 0.07 | - | - |
| RA2-FL-25850 | <0.01 | 0.03 | <0.01 | 0.03 | <0.01 | <0.01 | 1.81 | 7.94 | - | - | - | - | - | - | 0.02 | 0.03 | - | - |
| RH1-FL-2850 | 0.07 | 0.30 | 0.07 | 0.30 | 0.37 | 1.62 | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH4-FL-46200 | 0.99 | 4.34 | 1.98 | 8.66 | 6.03 | 26.41 | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH1-FL-29-1003. Controlled emissions represented at RH1-FL-29-1003. | | | | | | | | | | | | | | | | | |
| RH2-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH2-TO-5500. Controlled emissions represented at RH2-TO-5500. | | | | | | | | | | | | | | | | | |
| RH3-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH2-TO-5500. Controlled emissions represented at RH2-TO-5500. | | | | | | | | | | | | | | | | | |
| RH4-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH4-TO-45500. Controlled emissions represented at RH4-TO-45500. | | | | | | | | | | | | | | | | | |
| RH5-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH5-TO-55500. Controlled emissions represented at RH5-TO-55500. | | | | | | | | | | | | | | | | | |
| RH6-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH5-TO-55500. Controlled emissions represented at RH5-TO-55500. | | | | | | | | | | | | | | | | | |
| RH1-AMINE | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH2-TO-5500. Controlled emissions represented at RH2-TO-5500. | | | | | | | | | | | | | | | | | |
| RH2-AMINE | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH2-TO-5500. Controlled emissions represented at RH2-TO-5500. | | | | | | | | | | | | | | | | | |
| RHA-AMINE | Flash tank and still vent vapors are sent to an Acid Gas Injection Well (AGI 1). During AGI 1 downtime, still vent vapors are sent to RHA-FL-5100 and flash vapors are routed to inlet. | | | | | | | | | | | | | | | | | |
| RH4-AMINE | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH4-TO-45500. Controlled emissions represented at RH4-TO-45500. | | | | | | | | | | | | | | | | | |
| RH5-AMINE | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH5-TO-55500. Controlled emissions represented at RH5-TO-55500. | | | | | | | | | | | | | | | | | |
| RA2-AMINE | Flash tank and still vent vapors are sent to an Acid Gas Injection Well (AGI 2). During AGI 2 downtime, still vent vapors are sent to RA2-FL-25100 and flash vapors are routed to inlet. | | | | | | | | | | | | | | | | | |
| RH2-TO-5500 | 1.42 | 6.21 | 0.86 | 3.78 | 4.67 | 20.46 | 19.36 | 84.80 | 0.67 | 2.94 | 0.67 | 2.94 | 0.67 | 2.94 | 0.11 | 0.47 | - | - |
| RH4-TO-45500 | 1.25 | 5.47 | 0.76 | 3.33 | 2.57 | 11.26 | 14.07 | 61.65 | 0.60 | 2.61 | 0.60 | 2.61 | 0.60 | 2.61 | 0.07 | 0.31 | - | - |
| RH5-TO-55500 | 1.24 | 5.43 | 0.75 | 3.31 | 6.45 | 28.25 | 14.15 | 61.97 | 0.56 | 2.45 | 0.56 | 2.45 | 0.56 | 2.45 | 0.07 | 0.31 | - | - |
| RH1-TK-COND-EAST | Controlled emissions are represented at RH1-FL-2850. | | | | | | | | | | | | | | | | | |
| RHA-TK-SLOP | Controlled emissions are represented at RHA-FL-2850. | | | | | | | | | | | | | | | | | |
| RH1-TK-COND-WEST | Controlled emissions are represented at RH1-FL-2850. | | | | | | | | | | | | | | | | | |
| RA2-TK-SLOP | Controlled emissions are represented at RA2-FL-2850. | | | | | | | | | | | | | | | | | |
| RH4-TK-SLOP | | | | | | | | | | | | | | | | | | |
| RH2-TK-SLOP | - | - | - | - | 0.23 | 1.02 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-TK-SLOP | - | - | - | - | 0.43 | 1.89 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH-TK-METHANOL | - | - | - | - | 0.92 | 4.02 | - | - | - | - | - | - | - | - | - | - | - | - |
| RHA-TK-SLOP-LOAD | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | 0.08 | 0.01 | - | - |
| RH1-TK-COND-WEST-LOAD | - | - | - | - | 54.59 | 5.88 | - | - | - | - | - | - | - | - | - | - | - | - |
| RA2-TK-SLOP-LOAD | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | 0.09 | 0.02 | - | - |
| RH4-TK-SLOP-LOAD | - | - | - | - | 3.88 | 0.79 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH2-TK-SLOP-LOAD | - | - | - | - | 12.87 | 1.75 | - | - | - | - | - | - | - | - | - | - | - | - |

## Table 2-E: Requested Allowable Emissions (Tank Scenario 1)

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or $1.41E^{-4}$).

| Unit No. | NOx | | CO | | VOC | | SOx | | PM[1] | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| RH1-TK-SLOP-LOAD | - | - | - | - | 12.86 | 1.75 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH-GEN-1 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-2 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-3 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-4 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-5 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-6 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-7 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-8 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-9 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-10 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | <0.01 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-TRAILER | 0.30 | <0.01 | 0.18 | <0.01 | 0.01 | <0.01 | 0.59 | 0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - |
| RH-GEN-WELL | 0.63 | 0.04 | 0.08 | <0.01 | 0.01 | <0.01 | 0.08 | <0.01 | 0.09 | <0.01 | 0.09 | <0.01 | 0.09 | <0.01 | - | - | - | - |
| RH-HAUL | - | - | - | - | - | - | - | - | 1.43 | 5.05 | 0.36 | 1.29 | 0.04 | 0.13 | - | - | - | - |
| RH-FUG-1 | - | - | - | - | 70.84 | 310.26 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH-FUG-2 | - | - | - | - | 60.38 | 264.47 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RHA-FUG | - | - | - | - | 5.38 | 23.57 | - | - | - | - | - | - | - | - | 0.78 | 3.43 | - | - |
| RA2-FUG | - | - | - | - | 10.72 | 46.94 | - | - | - | - | - | - | - | - | 1.32 | 5.80 | - | - |
| **Totals** | **34.18** | **132.04** | **71.19** | **192.52** | **261.51** | **780.00** | **52.54** | **226.95** | **7.79** | **31.77** | **6.73** | **28.01** | **6.40** | **26.85** | **2.66** | **10.53** | **-** | **-** |

[1] **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

# Table 2-F: Additional Emissions during Startup, Shutdown, and Routine Maintenance (SSM) - AGI Flaring Scenario 1

☐ This table is intentionally left blank since all emissions at this facility due to routine or predictable startup, shutdown, or scehduled maintenance are no higher than those listed in Table 2-E and a malfunction emission limit is not already permitted or requested. If you are required to report GHG emissions as described in Section 6a, include any GHG emissions during Startup, Shutdown, and/or Scheduled Maintenance (SSM) in Table 2-P. Provide an explanations of SSM emissions in Section 6 and 6a.

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)[1], including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). In Section 6 and 6a, provide emissions calculations for all SSM emissions reported in this table. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (https://www.env.nm.gov/aqb/permit/aqb_pol.html) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

| Unit No. | NOx | | CO | | VOC | | SOx | | PM[2] | | PM10[2] | | PM2.5[2] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| RH2-TO-5500 | 1.71 | 0.45 | 6.27 | 0.28 | 16.75 | 0.02 | 1.54 | <0.01 | 0.09 | <0.01 | 0.09 | <0.01 | 0.09 | <0.01 | <0.01 | <0.01 | - | - |
| RH4-TO-45500 | 0.16 | 0.45 | 0.09 | 0.27 | 0.13 | <0.01 | 1.55 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - |
| RH5-TO-55500 | 0.16 | 0.46 | 0.10 | 0.28 | 0.13 | <0.01 | 1.59 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - |
| RH1-FL-29-1003 | 211.12 | 1.56 | 1,810.15 | 11.83 | 291.07 | 1.01 | 1.88 | 0.01 | - | - | - | - | - | - | 0.02 | <0.01 | - | - |
| RH2-FL-5100 | 567.73 | 4.39 | 4,836.53 | 31.41 | 247.11 | 1.58 | 5.05 | 0.04 | - | - | - | - | - | - | 0.06 | <0.01 | - | - |
| RH3-FL-5100 | 562.98 | 3.50 | 4,827.06 | 29.44 | 210.47 | 0.80 | 5.00 | 5.00 | - | - | - | - | - | - | 0.06 | 0.06 | - | - |
| RH4-FL-45100 | 651.36 | 4.91 | 5,558.97 | 36.07 | 295.39 | 2.59 | 5.84 | 0.05 | - | - | - | - | - | - | 0.07 | <0.01 | - | - |
| RH5-FL-55100 | 648.99 | 8.29 | 5,554.23 | 68.16 | 421.57 | 1.99 | 5.75 | 0.07 | - | - | - | - | - | - | 0.07 | <0.01 | - | - |
| RHA-FL-5100 | 16.83 | 6.33 | 144.32 | 54.24 | 33.66 | 12.62 | 128.29 | 97.34 | - | - | - | - | - | - | 1.39 | 1.07 | - | - |
| RA2-FL-25100 | 16.92 | 7.93 | 145.07 | 67.99 | 39.16 | 28.98 | 127.13 | 96.81 | - | - | - | - | - | - | 1.38 | 1.05 | - | - |
| RHA-FL-5850 | 0.04 | <0.01 | 0.17 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RA2-FL-25850 | 0.23 | <0.01 | 0.92 | <0.01 | 0.04 | <0.01 | 0.30 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-FL-2850 | 7.72 | 0.02 | 30.73 | 0.07 | 77.62 | 0.16 | - | - | - | - | - | - | - | - | - | - | - | - |
| Flare-M | 8.00 | 10.00 | 15.97 | 10.00 | 13.03 | 10.00 | <0.01 | 10.00 | - | - | - | - | - | - | <0.01 | 9.00 | - | - |
| | 5.00 | | 9.98 | | 8.15 | | <0.01 | | - | - | - | - | - | - | <0.01 | | - | - |
| | 5.00 | | 9.98 | | 8.15 | | <0.01 | | - | - | - | - | - | - | <0.01 | | - | - |
| | 5.00 | | 9.98 | | 8.15 | | <0.01 | | - | - | - | - | - | - | <0.01 | | - | - |
| | 5.00 | | 9.98 | | 8.15 | | <0.01 | | - | - | - | - | - | - | <0.01 | | - | - |
| | 16.83 | | 144.32 | | 33.66 | | 128.29 | | - | - | - | - | - | - | 1.39 | | - | - |
| | 16.92 | | 145.07 | | 39.16 | | 127.13 | | - | - | - | - | - | - | 1.38 | | - | - |
| RH1-SSM | - | - | - | - | 6,070.44 | 24.93 | - | - | 47.79 | 0.14 | 6.79 | 0.02 | 0.68 | <0.01 | 0.05 | <0.01 | - | - |
| RH2-SSM | - | - | - | - | 836.33 | 5.68 | - | - | | 0.14 | | 0.02 | | <0.01 | 0.04 | <0.01 | - | - |
| RH3-SSM | - | - | - | - | 835.66 | 3.99 | - | - | | 0.14 | | 0.02 | | <0.01 | 0.05 | <0.01 | - | - |
| RH4-SSM | - | - | - | - | 914.80 | 6.10 | - | - | | 0.14 | | 0.02 | | <0.01 | 0.04 | <0.01 | - | - |
| RH5-SSM | - | - | - | - | 802.28 | 6.78 | - | - | | 0.14 | | 0.02 | | <0.01 | 0.04 | <0.01 | - | - |
| RH6-SSM | - | - | - | - | 992.49 | 6.03 | - | - | | 0.14 | | 0.02 | | <0.01 | <0.01 | <0.01 | - | - |
| RHA-SSM | - | - | - | - | 175.31 | 1.48 | - | - | | 0.14 | | 0.02 | | <0.01 | 3.97 | 0.01 | - | - |
| RA2-SSM | - | - | - | - | 288.99 | 2.42 | - | - | | 0.14 | | 0.02 | | <0.01 | 13.79 | 0.04 | - | - |
| RH2-TO-5500-SSM | - | - | - | - | 92.25 | 5.05 | - | - | - | - | - | - | - | - | 9.75 | 0.53 | - | - |
| RH4-TO-45500-SSM | - | - | - | - | 72.89 | 3.99 | - | - | - | - | - | - | - | - | 6.44 | 0.35 | - | - |
| RH5-TO-55500-SSM | - | - | - | - | 88.47 | 7.75 | - | - | - | - | - | - | - | - | 6.47 | 0.57 | - | - |
| RHA-REC-WINKLER | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RHA-REC-LIMESTONE-8INCH | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-REC-PLANTVIEW | - | - | - | - | 19.07 | 0.12 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-REC-GUTLINE | - | - | - | - | 42.46 | 0.83 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |

## Table 2-F: Additional Emissions during Startup, Shutdown, and Routine Maintenance (SSM) - AGI Flaring Scenario 1

☐ This table is intentionally left blank since all emissions at this facility due to routine or predictable startup, shutdown, or scehduled maintenance are no higher than those listed in Table 2-E and a malfunction emission limit is not already permitted or requested. If you are required to report GHG emissions as described in Section 6a, include any GHG emissions during Startup, Shutdown, and/or Scheduled Maintenance (SSM) in Table 2-P. Provide an explanations of SSM emissions in Section 6 and 6a.

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)[1], including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). In Section 6 and 6a, provide emissions calculations for all SSM emissions reported in this table. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (https://www.env.nm.gov/aqb/permit/aqb_pol.html) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

| Unit No. | NOx | | CO | | VOC | | SOx | | PM[2] | | PM10[2] | | PM2.5[2] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| RH1-REC-ABU | - | - | - | - | 49.47 | 0.32 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH4-REC-24INCH | - | - | - | - | 17.70 | 0.35 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RHA-REC-LIMESTONE-10INCH | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RA2-REC-GREYHOUND | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RHA-LAU-LIMESTONE-10INCH | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-LAU-NGPL | - | - | - | - | 268.02 | 0.03 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-TW | - | - | - | - | 44.51 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-ETC | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-ONEOK | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH2-LAU-GPX | - | - | - | - | 3,342.31 | 0.84 | - | - | - | - | - | - | - | - | - | - | - | - |
| **Totals** | **2,747.68** | **48.28** | **23,259.88** | **310.04** | **18,318.54** | **136.65** | **539.39** | **209.34** | **47.90** | **1.14** | **6.90** | **0.16** | **0.79** | **0.02** | **46.50** | **12.69** | **-** | **-** |

[1] **For instance**, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in this table. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.

[2] **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

## Table 2-F: Additional Emissions during Startup, Shutdown, and Routine Maintenance (SSM) - AGI Flaring Scenario 2

☐ This table is intentionally left blank since all emissions at this facility due to routine or predictable startup, shutdown, or scehduled maintenance are no higher than those listed in Table 2-E and a malfunction emission limit is not already permitted or

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)[1], including NOI applications, must include in this table the Maximum Emissions during

| Unit No. | NOx | | CO | | VOC | | SOx | | PM[2] | | PM10[2] | | PM2.5[2] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| RH2-TO-5500 | 1.71 | 0.45 | 6.27 | 0.28 | 16.75 | 0.02 | 1.54 | <0.01 | 0.09 | <0.01 | 0.09 | <0.01 | 0.09 | <0.01 | <0.01 | <0.01 | - | - |
| RH4-TO-45500 | 0.16 | 0.45 | 0.09 | 0.27 | 0.13 | <0.01 | 1.55 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - |
| RH5-TO-55500 | 0.16 | 0.46 | 0.10 | 0.28 | 0.13 | <0.01 | 1.59 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - |
| RH1-FL-29-1003 | 211.12 | 1.56 | 1,810.15 | 11.83 | 291.07 | 1.01 | 1.88 | 0.01 | - | - | - | - | - | - | 0.02 | <0.01 | - | - |
| RH2-FL-5100 | 567.73 | 4.39 | 4,836.53 | 31.41 | 247.11 | 1.58 | 5.05 | 0.04 | - | - | - | - | - | - | 0.06 | <0.01 | - | - |
| RH3-FL-5100 | 562.98 | 3.50 | 4,827.06 | 29.44 | 210.47 | 0.80 | 5.00 | 5.00 | - | - | - | - | - | - | 0.06 | 0.06 | - | - |
| RH4-FL-45100 | 651.36 | 4.91 | 5,558.97 | 36.07 | 295.39 | 2.59 | 5.84 | 0.05 | - | - | - | - | - | - | 0.07 | <0.01 | - | - |
| RH5-FL-55100 | 648.99 | 8.29 | 5,554.23 | 68.16 | 421.57 | 1.99 | 5.75 | 0.07 | - | - | - | - | - | - | 0.07 | <0.01 | - | - |
| RHA-FL-5100 | 16.87 | 6.33 | 144.65 | 54.24 | 6.76 | 12.62 | 259.57 | 97.34 | - | - | - | - | - | - | 2.85 | 1.07 | - | - |
| RA2-FL-25100 | 0.17 | 7.93 | 1.47 | 67.99 | 0.01 | 28.98 | <0.01 | 96.81 | - | - | - | - | - | - | <0.01 | 1.05 | - | - |
| RHA-FL-5850 | 0.04 | <0.01 | 0.17 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RA2-FL-25850 | 0.23 | <0.01 | 0.92 | <0.01 | 0.04 | <0.01 | 0.30 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-FL-2850 | 7.72 | 0.02 | 30.73 | 0.07 | 77.62 | 0.16 | - | - | - | - | - | - | - | - | - | - | - | - |
| Flare-M | 8.00 | 10.00 | 15.97 | 10.00 | 13.03 | 10.00 | <0.01 | 10.00 | - | - | - | - | - | - | <0.01 | 9.00 | - | - |
| | 5.00 | | 9.98 | | 8.15 | | <0.01 | | - | - | - | - | - | - | <0.01 | | - | - |
| | 5.00 | | 9.98 | | 8.15 | | <0.01 | | - | - | - | - | - | - | <0.01 | | - | - |
| | 5.00 | | 9.98 | | 8.15 | | <0.01 | | - | - | - | - | - | - | <0.01 | | - | - |
| | 5.00 | | 9.98 | | 8.15 | | <0.01 | | - | - | - | - | - | - | <0.01 | | - | - |
| | 16.83 | | 144.32 | | 33.66 | | 128.29 | | - | - | - | - | - | - | 1.39 | | - | - |
| | 16.92 | | 145.07 | | 39.16 | | 127.13 | | - | - | - | - | - | - | 1.38 | | - | - |
| RH1-SSM | - | - | - | - | 6,070.44 | 24.93 | - | - | 47.79 | 0.14 | 6.79 | 0.02 | 0.68 | <0.01 | 0.05 | <0.01 | - | - |
| RH2-SSM | - | - | - | - | 836.33 | 5.68 | - | - | | 0.14 | | 0.02 | | <0.01 | 0.04 | <0.01 | - | - |
| RH3-SSM | - | - | - | - | 835.66 | 3.99 | - | - | | 0.14 | | 0.02 | | <0.01 | 0.05 | <0.01 | - | - |
| RH4-SSM | - | - | - | - | 914.80 | 6.10 | - | - | | 0.14 | | 0.02 | | <0.01 | 0.04 | <0.01 | - | - |
| RH5-SSM | - | - | - | - | 802.28 | 6.78 | - | - | | 0.14 | | 0.02 | | <0.01 | 0.04 | <0.01 | - | - |
| RH6-SSM | - | - | - | - | 992.49 | 6.03 | - | - | | 0.14 | | 0.02 | | <0.01 | <0.01 | <0.01 | - | - |
| RHA-SSM | - | - | - | - | 175.31 | 1.48 | - | - | | 0.14 | | 0.02 | | <0.01 | 3.97 | 0.01 | - | - |
| RA2-SSM | - | - | - | - | 288.99 | 2.42 | - | - | | 0.14 | | 0.02 | | <0.01 | 13.79 | 0.04 | - | - |
| RH2-TO-5500-SSM | - | - | - | - | 92.25 | 5.05 | - | - | - | - | - | - | - | - | 9.75 | 0.53 | - | - |
| RH4-TO-45500-SSM | - | - | - | - | 72.89 | 3.99 | - | - | - | - | - | - | - | - | 6.44 | 0.35 | - | - |
| RH5-TO-55500-SSM | - | - | - | - | 88.47 | 7.75 | - | - | - | - | - | - | - | - | 6.47 | 0.57 | - | - |
| RHA-REC-WINKLER | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RHA-REC-LIMESTONE-8INCH | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-REC-PLANTVIEW | - | - | - | - | 19.07 | 0.12 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-REC-GUTLINE | - | - | - | - | 42.46 | 0.83 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-REC-ABU | - | - | - | - | 49.47 | 0.32 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH4-REC-24INCH | - | - | - | - | 17.70 | 0.35 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RHA-REC-LIMESTONE-10INCH | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RA2-REC-GREYHOUND | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RHA-LAU-LIMESTONE-10INCH | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-LAU-NGPL | - | - | - | - | 268.02 | 0.03 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-TW | - | - | - | - | 44.51 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-ETC | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-ONEOK | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH2-LAU-GPX | - | - | - | - | 3,342.31 | 0.84 | - | - | - | - | - | - | - | - | - | - | - | - |
| **Totals** | **2,730.97** | **48.28** | **23,116.62** | **310.04** | **18,252.49** | **136.65** | **543.54** | **209.34** | **47.90** | **1.14** | **6.90** | **0.16** | **0.79** | **0.02** | **46.58** | **12.69** | **-** | **-** |

[1] **For instance**, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in this table. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.

[2] **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

## Table 2-F: Additional Emissions during Startup, Shutdown, and Routine Maintenance (SSM) - AGI Flaring Scenario 3

☐ This table is intentionally left blank since all emissions at this facility due to routine or predictable startup, shutdown, or scehduled maintenance are no higher than those listed in Table 2-E and a malfunction emission limit is not already permitted or

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)[1], including NOI applications, must include in this table the Maximum Emissions during

| Unit No. | NOx | | CO | | VOC | | SOx | | PM[2] | | PM10[2] | | PM2.5[2] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| RH2-TO-5500 | 1.71 | 0.45 | 6.27 | 0.28 | 16.75 | 0.02 | 1.54 | <0.01 | 0.09 | <0.01 | 0.09 | <0.01 | 0.09 | <0.01 | <0.01 | <0.01 | - | - |
| RH4-TO-45500 | 0.16 | 0.45 | 0.09 | 0.27 | 0.13 | <0.01 | 1.55 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - |
| RH5-TO-55500 | 0.16 | 0.46 | 0.10 | 0.28 | 0.13 | <0.01 | 1.59 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - |
| RH1-FL-29-1003 | 211.12 | 1.56 | 1,810.15 | 11.83 | 291.07 | 1.01 | 1.88 | 0.01 | - | - | - | - | - | - | 0.02 | <0.01 | - | - |
| RH2-FL-5100 | 567.73 | 4.39 | 4,836.53 | 31.41 | 247.11 | 1.58 | 5.05 | 0.04 | - | - | - | - | - | - | 0.06 | <0.01 | - | - |
| RH3-FL-5100 | 562.98 | 3.50 | 4,827.06 | 29.44 | 210.47 | 0.80 | 5.00 | 5.00 | - | - | - | - | - | - | 0.06 | 0.06 | - | - |
| RH4-FL-45100 | 651.36 | 4.91 | 5,558.97 | 36.07 | 295.39 | 2.59 | 5.84 | 0.05 | - | - | - | - | - | - | 0.07 | <0.01 | - | - |
| RH5-FL-55100 | 648.99 | 8.29 | 5,554.23 | 68.16 | 421.57 | 1.99 | 5.75 | 0.07 | - | - | - | - | - | - | 0.07 | <0.01 | - | - |
| RHA-FL-5100 | 0.07 | 6.33 | 0.61 | 54.24 | <0.01 | 12.62 | <0.01 | 97.34 | - | - | - | - | - | - | <0.01 | 1.07 | - | - |
| RA2-FL-25100 | 21.15 | 7.93 | 181.30 | 67.99 | 77.28 | 28.98 | 258.17 | 96.81 | - | - | - | - | - | - | 2.80 | 1.05 | - | - |
| RHA-FL-5850 | 0.04 | <0.01 | 0.17 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RA2-FL-25850 | 0.23 | <0.01 | 0.92 | <0.01 | 0.04 | <0.01 | 0.30 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-FL-2850 | 7.72 | 0.02 | 30.73 | 0.07 | 77.62 | 0.16 | - | - | - | - | - | - | - | - | - | - | - | - |
| Flare-M | 8.00 | 10.00 | 15.97 | 10.00 | 13.03 | 10.00 | <0.01 | 10.00 | - | - | - | - | - | - | <0.01 | 9.00 | - | - |
| | 5.00 | | 9.98 | | 8.15 | | <0.01 | | - | - | - | - | - | - | <0.01 | | - | - |
| | 5.00 | | 9.98 | | 8.15 | | <0.01 | | - | - | - | - | - | - | <0.01 | | - | - |
| | 5.00 | | 9.98 | | 8.15 | | <0.01 | | - | - | - | - | - | - | <0.01 | | - | - |
| | 5.00 | | 9.98 | | 8.15 | | <0.01 | | - | - | - | - | - | - | <0.01 | | - | - |
| | 16.83 | | 144.32 | | 33.66 | | 128.29 | | - | - | - | - | - | - | 1.39 | | - | - |
| | 16.92 | | 145.07 | | 39.16 | | 127.13 | | - | - | - | - | - | - | 1.38 | | - | - |
| RH1-SSM | - | - | - | - | 6,070.44 | 24.93 | - | - | 47.79 | 0.14 | 6.79 | 0.02 | 0.68 | <0.01 | 0.05 | <0.01 | - | - |
| RH2-SSM | - | - | - | - | 836.33 | 5.68 | - | - | | 0.14 | | 0.02 | | <0.01 | 0.04 | <0.01 | - | - |
| RH3-SSM | - | - | - | - | 835.66 | 3.99 | - | - | | 0.14 | | 0.02 | | <0.01 | 0.05 | <0.01 | - | - |
| RH4-SSM | - | - | - | - | 914.80 | 6.10 | - | - | | 0.14 | | 0.02 | | <0.01 | 0.04 | <0.01 | - | - |
| RH5-SSM | - | - | - | - | 802.28 | 6.78 | - | - | | 0.14 | | 0.02 | | <0.01 | 0.04 | <0.01 | - | - |
| RH6-SSM | - | - | - | - | 992.49 | 6.03 | - | - | | 0.14 | | 0.02 | | <0.01 | <0.01 | <0.01 | - | - |
| RHA-SSM | - | - | - | - | 175.31 | 1.48 | - | - | | 0.14 | | 0.02 | | <0.01 | 3.97 | 0.01 | - | - |
| RA2-SSM | - | - | - | - | 288.99 | 2.42 | - | - | | 0.14 | | 0.02 | | <0.01 | 13.79 | 0.04 | - | - |
| RH2-TO-5500-SSM | - | - | - | - | 92.25 | 5.05 | - | - | - | - | - | - | - | - | 9.75 | 0.53 | - | - |
| RH4-TO-45500-SSM | - | - | - | - | 72.89 | 3.99 | - | - | - | - | - | - | - | - | 6.44 | 0.35 | - | - |
| RH5-TO-55500-SSM | - | - | - | - | 88.47 | 7.75 | - | - | - | - | - | - | - | - | 6.47 | 0.57 | - | - |
| RHA-REC-WINKLER | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RHA-REC-LIMESTONE-8INCH | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-REC-PLANTVIEW | - | - | - | - | 19.07 | 0.12 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-REC-GUTLINE | - | - | - | - | 42.46 | 0.83 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-REC-ABU | - | - | - | - | 49.47 | 0.32 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH4-REC-24INCH | - | - | - | - | 17.70 | 0.35 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RHA-REC-LIMESTONE-10INCH | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RA2-REC-GREYHOUND | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RHA-LAU-LIMESTONE-10INCH | - | - | - | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | <0.01 | <0.01 | - | - |
| RH1-LAU-NGPL | - | - | - | - | 268.02 | 0.03 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-TW | - | - | - | - | 44.51 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-ETC | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-ONEOK | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | - | - | - | - |
| RH2-LAU-GPX | - | - | - | - | 3,342.31 | 0.84 | - | - | - | - | - | - | - | - | - | - | - | - |
| **Totals** | **2,735.15** | **48.28** | **23,152.41** | **310.04** | **18,323.00** | **136.65** | **542.14** | **209.34** | **47.90** | **1.14** | **6.90** | **0.16** | **0.79** | **0.02** | **46.53** | **12.69** | **-** | **-** |

[1] **For instance**, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in this table. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.

[2] **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

# Table 2-G: Stack Exit and Fugitive Emission Rates for Special Stacks

☑ I have elected to leave this table blank because this facility does not have any stacks/vents that split emissions from a single source or combine emissions from more than one source listed in table 2-A. Additionally, the emission rates of all stacks match the Requested allowable emission rates stated in Table 2-E.

Use this table to list stack emissions (requested allowable) from split and combined stacks. List Toxic Air Pollutants (TAPs) and Hazardous Air Pollutants (HAPs) in Table 2-I. List all fugitives that are associated with the normal, routine, and non-emergency operation of the facility. Unit and stack numbering must correspond throughout the application package. Refer to Table 2-E for instructions on use of the "-" symbol and on significant figures.

| Stack No. | Serving Unit Number(s) from Table 2-A | NOx | | CO | | VOC | | SOx | | PM | | PM10 | | PM2.5 | | □ $H_2S$ or □ Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

# Table 2-H: Stack Exit Conditions

Unit and stack numbering must correspond throughout the application package. Include the stack exit conditions for each unit that emits from a stack, including blowdown venting parameters and tank emissions. If the facility has multiple operating scenarios, complete a separate Table 2-H for each scenario and, for each, type scenario name here:

| Stack Number | Serving Unit Number(s) from Table 2-A | Orientation (H-Horizontal V=Vertical) | Rain Caps (Yes or No) | Height Above Ground (ft) | Temp. (F) | Flow Rate | | Moisture by Volume[1] (%) | Velocity (ft/sec) | Inside Diameter (ft) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | (acfs) | (dscfm) | | | |
| RH1-H-23-704 | RH1-H-23-704 | Vertical | Yes | 50.00 | 624 | 312 | 7204 | 10 | 22.87 | 4.17 |
| RH1-H-1101 | RH1-H-1101 | Vertical | Yes | 17.04 | 624 | 164 | 3780 | 10 | 23.19 | 3.00 |
| RH4-H-41100 | RH4-H-41100 | Vertical | Yes | 18.50 | 715 | 105 | 2231 | 10 | 33.37 | 2.00 |
| RH2-H-741 | RH2-H-741 | Vertical | Yes | 16.50 | 550 | 66 | 1627 | 10 | 24.90 | 1.83 |
| RH2-H-781 | RH2-H-781 | Vertical | Yes | 23.00 | 300 | 68 | 2237 | 10 | 5.89 | 3.83 |
| RH2-H-2301 | RH2-H-2301 | Vertical | Yes | 26.58 | 624 | 29 | 678 | 10 | 9.36 | 2.00 |
| RH2-H-0901 | RH2-H-0901 | Vertical | Yes | 27.50 | 400 | 437 | 12712 | 10 | 45.45 | 3.50 |
| RH2-H-1001 | RH2-H-1001 | Vertical | Yes | 27.50 | 400 | 437 | 12712 | 10 | 45.45 | 3.50 |
| RHA-H-4901 | RHA-H-4901 | Vertical | Yes | 23.58 | 563 | 235 | 5746 | 10 | 42.10 | 2.67 |
| RH3-H-741 | RH3-H-741 | Vertical | Yes | 22.50 | 483 | 59 | 1559 | 10 | 42.34 | 1.33 |
| RH3-H-781 | RH3-H-781 | Vertical | Yes | 26.50 | 483 | 127 | 3356 | 10 | 29.69 | 2.33 |
| RH3-H-6301 | RH3-H-6301 | Vertical | Yes | 32.50 | 624 | 29 | 678 | 10 | 76.39 | 0.70 |
| RH4-H-741 | RH4-H-741 | Vertical | Yes | 23.00 | 483 | 59 | 1559 | 10 | 42.34 | 1.33 |
| RH4-H-781 | RH4-H-781 | Vertical | Yes | 27.00 | 483 | 143 | 3780 | 10 | 33.44 | 2.33 |
| RH4-H-3901 | RH4-H-3901 | Vertical | Yes | 43 | 500 | 499 | 13005 | 10 | 117.11 | 2.33 |
| RH4-H-5301 | RH4-H-5301 | Vertical | Yes | 27 | 500 | 26 | 678 | 10 | 6.11 | 2.33 |
| RH4-H-4001 | RH4-H-4001 | Vertical | Yes | 43 | 500 | 499 | 13005 | 10 | 117.11 | 2.33 |
| RH5-H-50902 | RH5-H-50902 | Vertical | Yes | 45 | 501 | 586 | 15244 | 10 | 46.63 | 4.00 |
| RH5-H-50001 | RH5-H-50001 | Vertical | Yes | 45 | 501 | 586 | 15244 | 10 | 46.63 | 4.00 |
| RH5-H-50741 | RH5-H-50741 | Vertical | Yes | 23 | 483 | 58 | 1539 | 10 | 13.61 | 2.33 |
| RH5-H-50781 | RH5-H-50781 | Vertical | Yes | 30 | 483 | 217 | 5761 | 10 | 17.29 | 4.00 |
| RH6-H-60001 | RH6-H-60001 | Vertical | Yes | 46 | 460 | 561 | 15244 | 10 | 44.64 | 4.00 |
| RH6-H-60741 | RH6-H-60741 | Vertical | Yes | 28 | 550 | 62 | 1542 | 10 | 44.62 | 1.33 |
| RH6-H-60781 | RH6-H-60781 | Vertical | Yes | 37 | 483 | 216 | 5737 | 10 | 38.74 | 2.67 |
| RA2-H-20001 | RA2-H-20001 | Vertical | Yes | 45 | 460 | 561 | 15244 | 10 | 131.55 | 2.33 |
| RH1-FL-29-1003 | RH1-FL-29-1003 | Vertical | No | 168 | 1831.73 | 983.63 | 46389.73 | 10 | 65.62 | 30.00 |
| RH2-FL-5100 | RH2-FL-5100 | Vertical | No | 265 | 1831.73 | 2617.76 | 123457.71 | 10 | 65.62 | 48.94 |
| RH3-FL-5100 | RH3-FL-5100 | Vertical | No | 204 | 1831.73 | 259.77 | 12251.21 | 10 | 65.62 | 15.42 |
| RH4-FL-45100 | RH4-FL-45100 | Vertical | No | 265 | 1831.73 | 2617.76 | 123457.71 | 10 | 65.62 | 48.94 |
| RH5-FL-55100 | RH5-FL-55100 | Vertical | No | 276 | 1831.73 | 3012.53 | 142075.74 | 10 | 65.62 | 52.51 |
| RHA-FL-51001 | RHA-FL-51001 | Vertical | No | 375 | 1831.73 | 3011.96 | 142048.76 | 10 | 65.62 | 52.50 |

# Table 2-H: Stack Exit Conditions

Unit and stack numbering must correspond throughout the application package. Include the stack exit conditions for each unit that emits from a stack, including blowdown venting parameters and tank emissions. If the facility has multiple operating scenarios, complete a separate Table 2-H for each scenario and, for each, type scenario name here:

| Stack Number | Serving Unit Number(s) from Table 2-A | Orientation (H-Horizontal V=Vertical) | Rain Caps (Yes or No) | Height Above Ground (ft) | Temp. (F) | Flow Rate | | Moisture by Volume[1] (%) | Velocity (ft/sec) | Inside Diameter (ft) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | (acfs) | (dscfm) | | | |
| RA2-FL-251002 | RA2-FL-251002 | Vertical | No | 201 | 1831.73 | 275.58 | 12996.61 | 10 | 65.62 | 15.88 |
| RHA-FL-5850 | RHA-FL-5850 | Vertical | No | 22 | 1831.73 | 0.071 | 3.34 | 10 | 65.62 | 0.25 |
| RA2-FL-25850 | RA2-FL-25850 | Vertical | No | 26 | 1831.73 | 0.071 | 3.34 | 10 | 65.62 | 0.25 |
| RH1-FL-2850 | RH1-FL-2850 | Vertical | No | 32 | 1831.73 | 0.19 | 9.07 | 10 | 65.62 | 0.42 |
| RH4-FL-46200 | RH4-FL-46200 | Vertical | No | #REF! | #REF! | #REF! | #REF! | 10 | #REF! | #REF! |
| RH2-TO-5500 | RH2-TO-5500 | Vertical | No | 76 | 1800 | 1379.01 | 15254.66 | 10 | 17.56 | 10.00 |
| RH4-TO-45500 | RH4-TO-45500 | Vertical | No | 76 | 1600 | 1835.871 | 22267.77 | 10 | 23.38 | 10.00 |
| RH5-TO-55500 | RH5-TO-55500 | Vertical | No | 75 | 1600 | 1721.13 | 20876.03 | 10 | 21.91 | 10.00 |
| RH4-REC-24INCH | RH4-REC-24INCH | Vertical | No | 6 | Ambient | 1.148 | 54.13 | 10 | 0.98 | 1.08 |
| RH-GEN-1 | RH-GEN-1 | Vertical | No | 15 | 782 | 27.79 | 559.30 | 10 | 72.20 | 0.70 |
| RH-GEN-2 | RH-GEN-2 | Vertical | No | 15 | 782 | 27.786 | 559.30 | 10 | 72.20 | 0.70 |
| RH-GEN-3 | RH-GEN-3 | Vertical | No | 15 | 782 | 27.79 | 559.30 | 10 | 72.20 | 0.70 |
| RH-GEN-4 | RH-GEN-4 | Vertical | No | 15 | 782 | 27.786 | 559.30 | 10 | 72.20 | 0.70 |
| RH-GEN-5 | RH-GEN-5 | Vertical | No | 15 | 782 | 27.79 | 559.30 | 10 | 72.20 | 0.70 |
| RH-GEN-6 | RH-GEN-6 | Vertical | No | 15 | 782 | 27.786 | 559.30 | 10 | 72.20 | 0.70 |
| RH-GEN-7 | RH-GEN-7 | Vertical | No | 15 | 782 | 27.79 | 559.30 | 10 | 72.20 | 0.70 |
| RH-GEN-8 | RH-GEN-8 | Vertical | No | 15 | 782 | 27.786 | 559.30 | 10 | 72.20 | 0.70 |
| RH-GEN-9 | RH-GEN-9 | Vertical | No | 15 | 782 | 27.79 | 559.30 | 10 | 72.20 | 0.70 |
| RH-GEN-10 | RH-GEN-10 | Vertical | No | 15 | 782 | 27.786 | 559.30 | 10 | 72.20 | 0.70 |
| RH-TRAILER | RH-TRAILER | Vertical | No | 15 | 782 | 117.69 | 400.37 | 10 | 305.80 | 0.70 |
| RH-GEN-WELL | RH-GEN-WELL | Vertical | No | 15 | 440.33 | 0.805 | 22.35 | 10 | 16.40 | 0.25 |

## Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs (Tank Scenario 1)

In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per year For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above.

| Stack No. | Unit No.(s) | Total HAPs | | Formaldehyde ☑ HAP or ☐ TAP | | Acetaldehyde ☑ HAP or ☐ TAP | | Acrolein ☑ HAP or ☐ TAP | | Benzene ☑ HAP or ☐ TAP | | n-Hexane ☑ HAP or ☐ TAP | | Toluene ☑ HAP or ☐ TAP | | Ethylbenzene ☑ HAP or ☐ TAP | | Xylenes ☑ HAP or ☐ TAP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| RH1-H-23-704 | RH1-H-23-704 | 0.079 | 0.34 | <0.01 | 0.014 | - | - | - | - | <0.01 | <0.01 | 0.075 | 0.33 | <0.01 | <0.01 | - | - | - | - |
| RH1-H-1101 | RH1-H-1101 | 0.041 | 0.18 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.039 | 0.17 | <0.01 | <0.01 | - | - | - | - |
| RH4-H-41100 | RH4-H-41100 | 0.024 | 0.10 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.023 | 0.099 | <0.01 | <0.01 | - | - | - | - |
| RH2-H-741 | RH2-H-741 | 0.018 | 0.078 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.017 | 0.074 | <0.01 | <0.01 | - | - | - | - |
| RH2-H-781 | RH2-H-781 | 0.024 | 0.11 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.023 | 0.10 | <0.01 | <0.01 | - | - | - | - |
| RH2-H-2301 | RH2-H-2301 | <0.01 | 0.032 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | <0.01 | - | - | - | - |
| RH2-H-0901 | RH2-H-0901 | 0.14 | 0.61 | <0.01 | 0.024 | - | - | - | - | <0.01 | <0.01 | 0.13 | 0.57 | <0.01 | <0.01 | - | - | - | - |
| RH2-H-1001 | RH2-H-1001 | 0.14 | 0.61 | <0.01 | 0.024 | - | - | - | - | <0.01 | <0.01 | 0.13 | 0.57 | <0.01 | <0.01 | - | - | - | - |
| RHA-H-4901 | RHA-H-4901 | 0.063 | 0.27 | <0.01 | 0.011 | - | - | - | - | <0.01 | <0.01 | 0.060 | 0.26 | <0.01 | <0.01 | - | - | - | - |
| RH3-H-741 | RH3-H-741 | 0.017 | 0.075 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.016 | 0.071 | <0.01 | <0.01 | - | - | - | - |
| RH3-H-781 | RH3-H-781 | 0.037 | 0.16 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.035 | 0.15 | <0.01 | <0.01 | - | - | - | - |
| RH3-H-6301 | RH3-H-6301 | <0.01 | 0.032 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | <0.01 | - | - | - | - |
| RH4-H-741 | RH4-H-741 | 0.017 | 0.075 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.016 | 0.071 | <0.01 | <0.01 | - | - | - | - |
| RH4-H-781 | RH4-H-781 | 0.041 | 0.18 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.039 | 0.17 | <0.01 | <0.01 | - | - | - | - |
| RH4-H-3901 | RH4-H-3901 | 0.14 | 0.62 | 0.14 | 0.59 | - | - | - | - | <0.01 | <0.01 | 0.14 | 0.59 | <0.01 | <0.01 | - | - | - | - |
| RH4-H-5301 | RH4-H-5301 | <0.01 | 0.032 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | <0.01 | - | - | - | - |
| RH4-H-4001 | RH4-H-4001 | 0.14 | 0.62 | <0.01 | 0.025 | - | - | - | - | <0.01 | <0.01 | 0.14 | 0.59 | <0.01 | <0.01 | - | - | - | - |
| RH5-H-50902 | RH5-H-50902 | 0.17 | 0.73 | <0.01 | 0.029 | - | - | - | - | <0.01 | <0.01 | 0.16 | 0.70 | <0.01 | <0.01 | - | - | - | - |
| RH5-H-50001 | RH5-H-50001 | 0.17 | 0.73 | <0.01 | 0.029 | - | - | - | - | <0.01 | <0.01 | 0.16 | 0.70 | <0.01 | <0.01 | - | - | - | - |
| RH5-H-50741 | RH5-H-50741 | 0.017 | 0.074 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.016 | 0.070 | <0.01 | <0.01 | - | - | - | - |
| RH5-H-50781 | RH5-H-50781 | 0.063 | 0.28 | <0.01 | 0.011 | - | - | - | - | <0.01 | <0.01 | 0.060 | 0.26 | <0.01 | <0.01 | - | - | - | - |
| RH6-H-60001 | RH6-H-60001 | 0.17 | 0.73 | <0.01 | 0.029 | - | - | - | - | <0.01 | <0.01 | 0.16 | 0.70 | <0.01 | <0.01 | - | - | - | - |
| RH6-H-60741 | RH6-H-60741 | 0.017 | 0.074 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.016 | 0.070 | <0.01 | <0.01 | - | - | - | - |
| RH6-H-60781 | RH6-H-60781 | 0.063 | 0.27 | <0.01 | 0.011 | - | - | - | - | <0.01 | <0.01 | 0.060 | 0.26 | <0.01 | <0.01 | - | - | - | - |
| RA2-H-20001 | RA2-H-20001 | 0.17 | 0.72 | <0.01 | 0.029 | - | - | - | - | <0.01 | <0.01 | 0.16 | 0.690 | <0.01 | <0.01 | - | - | - | - |
| RH1-FL-29-1003 | RH1-FL-29-1003 | 0.31 | 1.35 | - | - | - | - | - | - | 0.15 | 0.66 | 0.038 | 0.17 | 0.097 | 0.42 | <0.01 | 0.024 | 0.017 | 0.073 |
| RH2-FL-5100 | RH2-FL-5100 | 0.90 | 0.052 | - | - | - | - | - | - | 0.053 | <0.01 | 0.057 | <0.01 | 0.029 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| RH3-FL-5100 | RH3-FL-5100 | 0.42 | 0.42 | - | - | - | - | - | - | 0.42 | 0.42 | - | - | - | - | - | - | - | - |
| RH4-FL-45100 | RH4-FL-45100 | 1.90 | 0.051 | - | - | - | - | - | - | 0.16 | 0.023 | 0.12 | <0.01 | 0.047 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| RH5-FL-55100 | RH5-FL-55100 | 0.66 | 0.030 | - | - | - | - | - | - | 0.66 | 0.030 | - | - | - | - | - | - | - | - |
| RHA-FL-5100 | RHA-FL-5100 | 0.62 | 0.231 | - | - | - | - | - | - | 0.612 | 0.23 | 0.63 | 0.24 | 0.070 | 0.03 | <0.01 | <0.01 | 0.01 | <0.01 |
| RA2-FL-25100 | RA2-FL-25100 | 0.92 | 0.346 | - | - | - | - | - | - | 0.10 | 0.04 | 0.71 | 0.27 | 0.080 | 0.03 | <0.01 | <0.01 | 0.01 | <0.01 |
| RHA-FL-5850 | RHA-FL-5850 | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RA2-FL-25850 | RA2-FL-25850 | 0.031 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH1-FL-2850 | RH1-FL-2850 | 7.95 | 0.12 | - | - | - | - | - | - | <0.01 | 0.011 | 0.022 | 0.098 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| RH4-FL-46200 | RH4-FL-46200 | 0.28 | 1.25 | - | - | - | - | - | - | 0.05 | 0.201 | 0.212 | 0.927 | 0.02 | 0.10 | <0.01 | <0.01 | <0.01 | 0.02 |

# Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs (Tank Scenario 1)

In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per year For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above.

| Stack No. | Unit No.(s) | Total HAPs | | Formaldehyde ☑ HAP or ☐ TAP | | Acetaldehyde ☑ HAP or ☐ TAP | | Acrolein ☑ HAP or ☐ TAP | | Benzene ☑ HAP or ☐ TAP | | n-Hexane ☑ HAP or ☐ TAP | | Toluene ☑ HAP or ☐ TAP | | Ethylbenzene ☑ HAP or ☐ TAP | | Xylenes ☑ HAP or ☐ TAP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| RH1-FL-29-1003 | RH1-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH1-FL-29-1003. Controlled emissions represented at RH1-FL-29-1003. | | | | | | | | | | | | | | | | | |
| RH2-TO-5500 | RH2-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH2-TO-5500. Controlled emissions represented at RH2-TO-5500. | | | | | | | | | | | | | | | | | |
| RH4-TO-45500 | RH3-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH2-TO-5500. Controlled emissions represented at RH2-TO-5500. | | | | | | | | | | | | | | | | | |
| RH4-TO-45500 | RH4-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH4-TO-45500. Controlled emissions represented at RH4-TO-45500. | | | | | | | | | | | | | | | | | |
| RH5-TO-55500 | RH5-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH5-TO-55500. Controlled emissions represented at RH5-TO-55500. | | | | | | | | | | | | | | | | | |
| RH5-TO-55500 | RH6-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH5-TO-55500. Controlled emissions represented at RH5-TO-55500. | | | | | | | | | | | | | | | | | |
| RH2-TO-5500 | RH1-AMINE | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH2-TO-5500. Controlled emissions represented at RH2-TO-5500. | | | | | | | | | | | | | | | | | |
| RH2-TO-5500 | RH2-AMINE | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH2-TO-5500. Controlled emissions represented at RH2-TO-5500. | | | | | | | | | | | | | | | | | |
| AGI Well System & RHA-FL-5100 | RHA-AMINE | Flash tank and still vent vapors are sent to an Acid Gas Injection Well (AGI 1). During AGI 1 downtime, still vent vapors are sent to RHA-FL-5100 and flash vapors are routed to inlet. | | | | | | | | | | | | | | | | | |
| RH4-TO-45500 | RH4-AMINE | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH4-TO-45500. Controlled emissions represented at RH4-TO-45500. | | | | | | | | | | | | | | | | | |
| RH5-TO-55500 | RH5-AMINE | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH5-TO-55500. Controlled emissions represented at RH5-TO-55500. | | | | | | | | | | | | | | | | | |
| AGI Well System & RA2-FL-25100 | RA2-AMINE | Flash tank and still vent vapors are sent to an Acid Gas Injection Well (AGI 2). During AGI 2 downtime, still vent vapors are sent to RA2-FL-25100 and flash vapors are routed to inlet. | | | | | | | | | | | | | | | | | |
| RH2-TO-5500 | RH2-TO-5500 | 1.66 | 7.27 | - | - | - | - | - | - | 0.89 | 3.90 | 0.14 | 0.60 | 0.56 | 2.43 | 0.017 | 0.076 | 0.059 | 0.26 |
| RH4-TO-45500 | RH4-TO-45500 | 0.89 | 3.89 | - | - | - | - | - | - | 0.58 | 2.55 | 0.050 | 0.22 | 0.23 | 1.00 | <0.01 | 0.028 | 0.020 | 0.086 |
| RH5-TO-55500 | RH5-TO-55500 | 2.22 | 9.72 | - | - | - | - | - | - | 1.29 | 5.64 | 0.17 | 0.72 | 0.68 | 2.96 | 0.023 | 0.099 | 0.068 | 0.30 |
| RH1-FL-2850 | RH1-TK-COND-EAST | Controlled emissions are represented at RH1-FL-2850. | | | | | | | | | | | | | | | | | |
| RHA-FL-5850 | RHA-TK-SLOP | Controlled emissions are represented at RHA-FL-2850. | | | | | | | | | | | | | | | | | |
| RH1-FL-2850 | RH1-TK-COND-WEST | Controlled emissions are represented at RH1-FL-2850. | | | | | | | | | | | | | | | | | |
| RA2-FL-25850 | RA2-TK-SLOP | Controlled emissions are represented at RA2-FL-2850. | | | | | | | | | | | | | | | | | |
| RH4-FL-46200 | RH4-TK-SLOP | | | | | | | | | | | | | | | | | | |
| RH2-TK-SLOP | RH2-TK-SLOP | 0.23 | 1.02 | - | - | - | - | - | - | 0.16 | 0.69 | - | - | 0.069 | 0.30 | <0.01 | <0.01 | <0.01 | 0.024 |
| RH1-TK-SLOP | RH1-TK-SLOP | 0.43 | 1.89 | - | - | - | - | - | - | 0.29 | 1.28 | - | - | 0.13 | 0.56 | <0.01 | <0.01 | 0.010 | 0.045 |
| RH-TK-METHANOL | RH-TK-METHANOL | 0.92 | 4.02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RHA-FL-5850 | RHA-TK-SLOP-LOAD | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH1-FL-2850 | RH1-TK-COND-WEST-LOAD | 5.59 | 0.60 | - | - | - | - | - | - | 0.52 | 0.088 | 4.73 | 0.80 | 0.28 | 0.047 | 0.012 | <0.01 | 0.040 | <0.01 |
| RA2-FL-25850 | RA2-TK-SLOP-LOAD | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH4-TK-SLOP | RH4-TK-SLOP-LOAD | 0.13 | 0.03 | - | - | - | - | - | - | 0.02 | <0.01 | 0.10 | 0.02 | <0.01 | <0.01 | <0.001 | <0.001 | <0.01 | <0.001 |
| RH2-TK-SLOP-LOAD | RH2-TK-SLOP-LOAD | 12.85 | 1.75 | - | - | - | - | - | - | 8.68 | 1.15 | - | - | 3.81 | 0.50 | 0.058 | <0.01 | 0.31 | 0.040 |
| RH1-TK-SLOP-LOAD | RH1-TK-SLOP-LOAD | 12.84 | 1.75 | - | - | - | - | - | - | 8.67 | 1.15 | - | - | 3.81 | 0.50 | 0.058 | <0.01 | 0.31 | 0.041 |
| RH-GEN-1 | RH-GEN-1 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-2 | RH-GEN-2 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-3 | RH-GEN-3 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-4 | RH-GEN-4 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-5 | RH-GEN-5 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-6 | RH-GEN-6 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-7 | RH-GEN-7 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-8 | RH-GEN-8 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-9 | RH-GEN-9 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-10 | RH-GEN-10 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-TRAILER | RH-TRAILER | 0.043 | <0.01 | 0.034 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| RH-GEN-WELL | RH-GEN-WELL | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |

## Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs (Tank Scenario 1)

In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per year For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above.

| Stack No. | Unit No.(s) | Total HAPs | | Formaldehyde ☑ HAP or ☐ TAP | | Acetaldehyde ☑ HAP or ☐ TAP | | Acrolein ☑ HAP or ☐ TAP | | Benzene ☑ HAP or ☐ TAP | | n-Hexane ☑ HAP or ☐ TAP | | Toluene ☑ HAP or ☐ TAP | | Ethylbenzene ☑ HAP or ☐ TAP | | Xylenes ☑ HAP or ☐ TAP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| Various | RH1-SSM | 590.13 | 0.39 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Various | RH2-SSM | 23.92 | 0.041 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Various | RH3-SSM | 27.17 | 0.045 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Various | RH4-SSM | 23.92 | 0.044 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Various | RH5-SSM | 22.35 | 0.041 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Various | RH6-SSM | 23.77 | 0.043 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Various | RHA-SSM | 22.69 | 0.037 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Various | RA2-SSM | 22.71 | 0.037 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH2-TO-5500 | RH2-TO-5500-SSM | 60.84 | 3.33 | - | - | - | - | - | - | 37.12 | 2.03 | 0.34 | 0.019 | 20.35 | 1.11 | 0.60 | 0.033 | 2.43 | 0.13 |
| RH4-TO-45500 | RH4-TO-45500-SSM | 46.16 | 2.53 | - | - | - | - | - | - | 0.10 | <0.01 | 35.165 | 1.93 | 10.00 | 0.55 | 0.21 | 0.011 | 0.69 | 0.038 |
| RH5-TO-55500 | RH5-TO-55500-SSM | 56.71 | 4.97 | - | - | - | - | - | - | 0.10 | <0.01 | 40.68 | 3.56 | 14.43 | 1.26 | 0.40 | 0.035 | 1.09 | 0.096 |
| RHA-FL-5100 & RHA-REC-WINKLER | RHA-REC-WINKLER | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RA2-FL-2510 & RHA-REC-LIMESTONE-8INCH | RHA-REC-LIMESTONE-8INCH | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-REC-PLANTVIEW | RH1-REC-PLANTVIEW | 0.47 | <0.01 | - | - | - | - | - | - | 0.063 | <0.01 | - | - | - | - | - | - | - | - |
| RH1-REC-GUTLINE | RH1-REC-GUTLINE | 1.05 | 0.020 | - | - | - | - | - | - | 0.14 | <0.01 | - | - | - | - | - | - | - | - |
| RH1-REC-ABU | RH1-REC-ABU | 1.22 | <0.01 | - | - | - | - | - | - | 0.16 | <0.01 | - | - | - | - | - | - | - | - |
| RH4-FL-45100 & RH4-REC-24INCH | RH4-REC-24INCH | 0.44 | <0.01 | - | - | - | - | - | - | 0.059 | <0.01 | - | - | - | - | - | - | - | - |
| RHA-FL-5100 & RHA-REC-LIMESTONE-10INCH | RHA-REC-LIMESTONE-10INCH | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RA2-FL-25100 & RA2-REC-GREYHOUND | RA2-REC-GREYHOUND | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RA2-FL-25100 & RHA-LAU-LIMESTONE-10INCH | RHA-LAU-LIMESTONE-10INCH | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-NGPL | RH1-LAU-NGPL | 26.80 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-TW | RH1-LAU-TW | 4.45 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-ETC | RH1-LAU-ETC | 112.09 | 0.014 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-ONEOK | RH1-LAU-ONEOK | 112.09 | 0.014 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RHA-FL-5100 & RH2-LAU-GPX | RH2-LAU-GPX | 464.36 | 0.12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| N/A | RH-HAUL | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| N/A | RH-FUG-1 | 10.55 | 46.22 | - | - | - | - | - | - | 0.69 | 3.01 | 8.01 | 35.08 | 1.14 | 4.99 | 0.15 | 0.66 | 0.57 | 2.48 |
| N/A | RH-FUG-2 | 12.30 | 53.86 | - | - | - | - | - | - | 0.78 | 3.42 | 9.04 | 39.59 | 1.35 | 5.89 | 0.18 | 0.79 | 0.68 | 2.97 |
| N/A | RHA-FUG | 0.77 | 3.39 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| N/A | RA2-FUG | 1.52 | 6.67 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Totals:** | | **1,722.23** | **171.67** | **4.35** | **17.87** | **21.541** | **19.37** | **84.80** | **0.67** | **65.51** | **27.24** | **104.82** | **92.27** | **60.15** | **22.86** | **2.21** | **1.80** | **6.34** | **6.61** |

## Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs (Tank Scenario 2)

In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per year For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above.

| Stack No. | Unit No.(s) | Total HAPs | | Formaldehyde ☑ HAP or ☐ TAP | | Acetaldehyde ☑ HAP or ☐ TAP | | Acrolein ☑ HAP or ☐ TAP | | Benzene ☑ HAP or ☐ TAP | | n-Hexane ☑ HAP or ☐ TAP | | Toluene ☑ HAP or ☐ TAP | | Ethylbenzene ☑ HAP or ☐ TAP | | Xylenes ☑ HAP or ☐ TAP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| RH1-H-23-704 | RH1-H-23-704 | 0.079 | 0.34 | <0.01 | 0.014 | - | - | - | - | <0.01 | <0.01 | 0.075 | 0.33 | <0.01 | <0.01 | - | - | - | - |
| RH1-H-1101 | RH1-H-1101 | 0.041 | 0.18 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.039 | 0.17 | <0.01 | <0.01 | - | - | - | - |
| RH4-H-41100 | RH4-H-41100 | 0.024 | 0.10 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.023 | 0.099 | <0.01 | <0.01 | - | - | - | - |
| RH2-H-741 | RH2-H-741 | 0.018 | 0.078 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.017 | 0.074 | <0.01 | <0.01 | - | - | - | - |
| RH2-H-781 | RH2-H-781 | 0.024 | 0.11 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.023 | 0.10 | <0.01 | <0.01 | - | - | - | - |
| RH2-H-2301 | RH2-H-2301 | <0.01 | 0.032 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | <0.01 | - | - | - | - |
| RH2-H-0901 | RH2-H-0901 | 0.14 | 0.61 | <0.01 | 0.024 | - | - | - | - | <0.01 | <0.01 | 0.13 | 0.57 | <0.01 | <0.01 | - | - | - | - |
| RH2-H-1001 | RH2-H-1001 | 0.14 | 0.61 | <0.01 | 0.024 | - | - | - | - | <0.01 | <0.01 | 0.13 | 0.57 | <0.01 | <0.01 | - | - | - | - |
| RHA-H-4901 | RHA-H-4901 | 0.063 | 0.27 | <0.01 | 0.011 | - | - | - | - | <0.01 | <0.01 | 0.060 | 0.26 | <0.01 | <0.01 | - | - | - | - |
| RH3-H-741 | RH3-H-741 | 0.017 | 0.075 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.016 | 0.071 | <0.01 | <0.01 | - | - | - | - |
| RH3-H-781 | RH3-H-781 | 0.037 | 0.16 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.035 | 0.15 | <0.01 | <0.01 | - | - | - | - |
| RH3-H-6301 | RH3-H-6301 | <0.01 | 0.032 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | <0.01 | - | - | - | - |
| RH4-H-741 | RH4-H-741 | 0.017 | 0.075 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.016 | 0.071 | <0.01 | <0.01 | - | - | - | - |
| RH4-H-781 | RH4-H-781 | 0.041 | 0.18 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.039 | 0.17 | <0.01 | <0.01 | - | - | - | - |
| RH4-H-3901 | RH4-H-3901 | 0.14 | 0.62 | 0.14 | 0.59 | - | - | - | - | <0.01 | <0.01 | 0.14 | 0.59 | <0.01 | <0.01 | - | - | - | - |
| RH4-H-5301 | RH4-H-5301 | <0.01 | 0.032 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | <0.01 | - | - | - | - |
| RH4-H-4001 | RH4-H-4001 | 0.14 | 0.62 | <0.01 | 0.025 | - | - | - | - | <0.01 | <0.01 | 0.14 | 0.59 | <0.01 | <0.01 | - | - | - | - |
| RH5-H-50902 | RH5-H-50902 | 0.17 | 0.73 | <0.01 | 0.029 | - | - | - | - | <0.01 | <0.01 | 0.16 | 0.70 | <0.01 | <0.01 | - | - | - | - |
| RH5-H-50001 | RH5-H-50001 | 0.17 | 0.73 | <0.01 | 0.029 | - | - | - | - | <0.01 | <0.01 | 0.16 | 0.70 | <0.01 | <0.01 | - | - | - | - |
| RH5-H-50741 | RH5-H-50741 | 0.017 | 0.074 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.016 | 0.070 | <0.01 | <0.01 | - | - | - | - |
| RH5-H-50781 | RH5-H-50781 | 0.063 | 0.28 | <0.01 | 0.011 | - | - | - | - | <0.01 | <0.01 | 0.060 | 0.26 | <0.01 | <0.01 | - | - | - | - |
| RH6-H-60001 | RH6-H-60001 | 0.17 | 0.73 | <0.01 | 0.029 | - | - | - | - | <0.01 | <0.01 | 0.16 | 0.70 | <0.01 | <0.01 | - | - | - | - |
| RH6-H-60741 | RH6-H-60741 | 0.017 | 0.074 | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 | 0.016 | 0.070 | <0.01 | <0.01 | - | - | - | - |
| RH6-H-60781 | RH6-H-60781 | 0.063 | 0.27 | <0.01 | 0.011 | - | - | - | - | <0.01 | <0.01 | 0.060 | 0.26 | <0.01 | <0.01 | - | - | - | - |
| RA2-H-20001 | RA2-H-20001 | 0.17 | 0.72 | <0.01 | 0.029 | - | - | - | - | <0.01 | <0.01 | 0.16 | 0.690 | <0.01 | <0.01 | - | - | - | - |
| RH1-FL-29-1003 | RH1-FL-29-1003 | 0.31 | 1.35 | - | - | - | - | - | - | 0.15 | 0.66 | 0.038 | 0.17 | 0.097 | 0.42 | <0.01 | 0.024 | 0.017 | 0.073 |
| RH2-FL-5100 | RH2-FL-5100 | 0.90 | 0.052 | - | - | - | - | - | - | 0.053 | <0.01 | 0.057 | <0.01 | 0.029 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| RH3-FL-5100 | RH3-FL-5100 | 0.42 | 0.42 | - | - | - | - | - | - | 0.42 | 0.42 | - | - | - | - | - | - | - | - |
| RH4-FL-45100 | RH4-FL-45100 | 1.90 | 0.051 | - | - | - | - | - | - | 0.16 | 0.023 | 0.12 | <0.01 | 0.047 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| RH5-FL-55100 | RH5-FL-55100 | 0.66 | 0.030 | - | - | - | - | - | - | 0.66 | 0.030 | - | - | - | - | - | - | - | - |
| RHA-FL-5100 | RHA-FL-5100 | 0.62 | 0.231 | - | - | - | - | - | - | 0.612 | 0.23 | 0.63 | 0.24 | 0.070 | 0.03 | <0.01 | <0.01 | 0.01 | <0.01 |
| RA2-FL-25100 | RA2-FL-25100 | 0.40 | - | - | - | - | - | - | - | 0.05 | - | 0.31 | - | 0.035 | - | <0.01 | - | <0.01 | - |
| RHA-FL-5850 | RHA-FL-5850 | 0.92 | 0.35 | - | - | - | - | - | - | 0.10 | 0.04 | 0.71 | 0.27 | 0.08 | 0.03 | <0.01 | <0.01 | 0.01 | <0.01 |
| RA2-FL-25850 | RA2-FL-25850 | 0.467 | - | - | - | - | - | - | - | 0.05 | - | 0.36 | - | 0.04 | - | <0.01 | - | <0.01 | - |
| RH1-FL-2850 | RH1-FL-2850 | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.001 | <0.001 | <0.001 | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH1-FL-29-1003 | RH1-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH1-FL-29-1003. Controlled emissions represented at RH1-FL-29-1003. | | | | | | | | | | | | | | | | | |

# Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs (Tank Scenario 2)

In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per year For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above.

| Stack No. | Unit No.(s) | Total HAPs | | Formaldehyde ☑ HAP or ☐ TAP | | Acetaldehyde ☑ HAP or ☐ TAP | | Acrolein ☑ HAP or ☐ TAP | | Benzene ☑ HAP or ☐ TAP | | n-Hexane ☑ HAP or ☐ TAP | | Toluene ☑ HAP or ☐ TAP | | Ethylbenzene ☑ HAP or ☐ TAP | | Xylenes ☑ HAP or ☐ TAP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| RH2-TO-5500 | RH2-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH2-TO-5500. Controlled emissions represented at RH2-TO-5500. | | | | | | | | | | | | | | | | | |
| RH4-TO-45500 | RH3-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH2-TO-5500. Controlled emissions represented at RH2-TO-5500. | | | | | | | | | | | | | | | | | |
| RH4-TO-45500 | RH4-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH4-TO-45500. Controlled emissions represented at RH4-TO-45500. | | | | | | | | | | | | | | | | | |
| RH5-TO-55500 | RH5-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH5-TO-55500. Controlled emissions represented at RH5-TO-55500. | | | | | | | | | | | | | | | | | |
| RH5-TO-55500 | RH6-TEG | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH5-TO-55500. Controlled emissions represented at RH5-TO-55500. | | | | | | | | | | | | | | | | | |
| RH2-TO-5500 | RH1-AMINE | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH2-TO-5500. Controlled emissions represented at RH2-TO-5500. | | | | | | | | | | | | | | | | | |
| RH2-TO-5500 | RH2-AMINE | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH2-TO-5500. Controlled emissions represented at RH2-TO-5500. | | | | | | | | | | | | | | | | | |
| AGI Well System & RHA-FL-5100 | RHA-AMINE | Flash tank and still vent vapors are sent to an Acid Gas Injection Well (AGI 1). During AGI 1 downtime, still vent vapors are sent to RHA-FL-5100 and flash vapors are routed to inlet. | | | | | | | | | | | | | | | | | |
| RH4-TO-45500 | RH4-AMINE | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH4-TO-45500. Controlled emissions represented at RH4-TO-45500. | | | | | | | | | | | | | | | | | |
| RH5-TO-55500 | RH5-AMINE | Flash tank overheads are routed to the inlet. Non-condensable overheads are routed to RH5-TO-55500. Controlled emissions represented at RH5-TO-55500. | | | | | | | | | | | | | | | | | |
| AGI Well System & RA2-FL-25100 | RA2-AMINE | Flash tank and still vent vapors are sent to an Acid Gas Injection Well (AGI 2). During AGI 2 downtime, still vent vapors are sent to RA2-FL-25100 and flash vapors are routed to inlet. | | | | | | | | | | | | | | | | | |
| RH2-TO-5500 | RH2-TO-5500 | 1.66 | 7.27 | - | - | - | - | - | - | 0.89 | 3.90 | 0.14 | 0.60 | 0.56 | 2.43 | 0.017 | 0.076 | 0.059 | 0.26 |
| RH4-TO-45500 | RH4-TO-45500 | 0.89 | 3.89 | - | - | - | - | - | - | 0.58 | 2.55 | 0.05 | 0.22 | 0.23 | 1.00 | <0.011 | 0.028 | 0.020 | 0.09 |
| RH5-TO-55500 | RH5-TO-55500 | 2.22 | 9.72 | - | - | - | - | - | - | 1.29 | 5.64 | 0.165 | 0.72 | 0.68 | 2.96 | 0.02 | 0.099 | 0.068 | 0.297 |
| RH1-FL-2850 | RH1-TK-COND-EAST | Controlled emissions are represented at RH1-FL-2850. | | | | | | | | | | | | | | | | | |
| RHA-FL-5850 | RHA-TK-SLOP | Controlled emissions are represented at RHA-FL-2850. | | | | | | | | | | | | | | | | | |
| RH1-FL-2850 | RH1-TK-COND-WEST | Controlled emissions are represented at RH1-FL-2850. | | | | | | | | | | | | | | | | | |
| RA2-FL-25850 | RA2-TK-SLOP | Controlled emissions are represented at RA2-FL-2850. | | | | | | | | | | | | | | | | | |
| RH4-FL-46200 | RH4-TK-SLOP | 0.19 | 0.84 | - | - | - | - | - | - | 0.16 | 0.70 | <0.01 | 0.02 | <0.001 | <0.01 | <0.01 | <0.01 | <0.01 | 0.023 |
| RH2-TK-SLOP | RH2-TK-SLOP | 0.23 | 1.02 | - | - | - | - | - | - | 0.16 | 0.69 | - | - | 0.07 | 0.30 | <0.01 | <0.001 | <0.011 | 0.024 |
| RH1-TK-SLOP | RH1-TK-SLOP | 0.43 | 1.89 | - | - | - | - | - | - | 0.29 | 1.28 | - | - | 0.128 | 0.56 | <0.01 | <0.01 | 0.01 | 0.045 |
| RH-TK-METHANOL | RH-TK-METHANOL | 0.92 | 4.02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RHA-FL-5850 | RHA-TK-SLOP-LOAD | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH1-FL-2850 | RH1-TK-COND-WEST-LOAD | 5.59 | 0.60 | - | - | - | - | - | - | 0.52 | 0.09 | 4.73 | 0.80 | 0.28 | 0.05 | 0.01 | <0.01 | 0.04 | <0.01 |
| RA2-FL-25850 | RA2-TK-SLOP-LOAD | <0.01 | <0.01 | - | - | - | - | - | - | <0.01 | <0.001 | <0.01 | <0.01 | <0.01 | <0.001 | - | - | <0.001 | <0.01 |
| RH4-TK-SLOP | RH4-TK-SLOP-LOAD | 0.13 | 0.03 | - | - | - | - | - | - | 0.02 | <0.01 | 0.10 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| RH2-TK-SLOP-LOAD | RH2-TK-SLOP-LOAD | 12.85 | 1.75 | - | - | - | - | - | - | 8.68 | 1.15 | - | - | 3.81 | 0.50 | 0.058 | <0.011 | 0.31 | 0.040 |
| RH1-TK-SLOP-LOAD | RH1-TK-SLOP-LOAD | 12.84 | 1.75 | - | - | - | - | - | - | 8.67 | 1.15 | - | - | 3.81 | 0.50 | 0.058 | <0.01 | 0.31 | 0.041 |
| RH-GEN-1 | RH-GEN-1 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.001 |
| RH-GEN-2 | RH-GEN-2 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-3 | RH-GEN-3 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-4 | RH-GEN-4 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-5 | RH-GEN-5 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-6 | RH-GEN-6 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-7 | RH-GEN-7 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-8 | RH-GEN-8 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-9 | RH-GEN-9 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-GEN-10 | RH-GEN-10 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| RH-TRAILER | RH-TRAILER | 0.043 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| RH-GEN-WELL | RH-GEN-WELL | <0.001 | <0.01 | <0.001 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 |
| Various | RH1-SSM | 590.13 | 0.39 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

## Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs (Tank Scenario 2)

In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per year For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above.

| Stack No. | Unit No.(s) | Total HAPs | | Formaldehyde ☑ HAP or ☐ TAP | | Acetaldehyde ☑ HAP or ☐ TAP | | Acrolein ☑ HAP or ☐ TAP | | Benzene ☑ HAP or ☐ TAP | | n-Hexane ☑ HAP or ☐ TAP | | Toluene ☑ HAP or ☐ TAP | | Ethylbenzene ☑ HAP or ☐ TAP | | Xylenes ☑ HAP or ☐ TAP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| Various | RH2-SSM | 23.92 | 0.04 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Various | RH3-SSM | 27.17 | 0.045 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Various | RH4-SSM | 23.92 | 0.044 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Various | RH5-SSM | 22.35 | 0.041 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Various | RH6-SSM | 23.77 | 0.043 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Various | RHA-SSM | 22.69 | 0.037 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Various | RA2-SSM | 22.71 | 0.037 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH2-TO-5500 | RH2-TO-5500-SSM | 60.84 | 3.331 | - | - | - | - | - | - | 37.12 | 2.03 | 0.34 | 0.02 | 20.35 | 1.11 | 0.60 | 0.03 | 2.43 | 0.13 |
| RH4-TO-45500 | RH4-TO-45500-SSM | 46.16 | 2.53 | - | - | - | - | - | - | 0.10 | <0.01 | 35.17 | 1.925 | 10.00 | 0.55 | 0.21 | 0.011 | 0.69 | 0.04 |
| RH5-TO-55500 | RH5-TO-55500-SSM | 56.71 | 4.97 | - | - | - | - | - | - | 0.10 | <0.01 | 40.679 | 3.56 | 14.43 | 1.26 | 0.40 | 0.035 | 1.09 | 0.096 |
| RHA-FL-5100 & RHA-REC-WINKLER | RHA-REC-WINKLER | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RA2-FL-2510 & RHA-REC-LIMESTONE-8INCH | RHA-REC-LIMESTONE-8INCH | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-REC-PLANTVIEW | RH1-REC-PLANTVIEW | 0.47 | <0.01 | - | - | - | - | - | - | 0.06 | <0.01 | - | - | - | - | - | - | - | - |
| RH1-REC-GUTLINE | RH1-REC-GUTLINE | 1.05 | 0.02 | - | - | - | - | - | - | 0.141 | <0.01 | - | - | - | - | - | - | - | - |
| RH1-REC-ABU | RH1-REC-ABU | 1.22 | <0.011 | - | - | - | - | - | - | 0.16 | <0.01 | - | - | - | - | - | - | - | - |
| RH4-FL-45100 & RH4-REC-24INCH | RH4-REC-24INCH | 0.44 | <0.01 | - | - | - | - | - | - | 0.06 | <0.01 | - | - | - | - | - | - | - | - |
| RHA-FL-5100 & RHA-REC-LIMESTONE-10INCH | RHA-REC-LIMESTONE-10INCH | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RA2-FL-25100 & RA2-REC-GREYHOUND | RA2-REC-GREYHOUND | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RA2-FL-25100 & RHA-LAU-LIMESTONE-10INCH | RHA-LAU-LIMESTONE-10INCH | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-NGPL | RH1-LAU-NGPL | 26.80 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-TW | RH1-LAU-TW | 4.45 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-ETC | RH1-LAU-ETC | 112.09 | 0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RH1-LAU-ONEOK | RH1-LAU-ONEOK | 112.09 | 0.014 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RHA-FL-5100 & RH2-LAU-GPX | RH2-LAU-GPX | 464.36 | 0.116 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| N/A | RH-HAUL | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| N/A | RH-FUG-1 | 10.55 | 46.22 | - | - | - | - | - | - | 0.69 | 3.01 | 8.01 | 35.08 | 1.14 | 4.99 | 0.15 | 0.66 | 0.57 | 2.48 |
| N/A | RH-FUG-2 | 12.30 | 53.86 | - | - | - | - | - | - | 0.78 | 3.42 | 9.04 | 39.59 | 1.35 | 5.89 | 0.18 | 0.79 | 0.68 | 2.97 |
| N/A | RHA-FUG | 0.77 | 3.39 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| N/A | RA2-FUG | 1.52 | 6.67 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | | |
| **Totals:** | | **1,715.02** | **164.86** | **0.28** | **0.89** | **0.032** | **<0.01** | **<0.01** | **<0.01** | **62.78** | **27.06** | **102.33** | **90.59** | **57.26** | **22.64** | **1.75** | **1.80** | **6.36** | **6.62** |

# Table 2-J: Fuel

Specify fuel characteristics and usage. Unit and stack numbering must correspond throughout the application package.

| Unit No. | Fuel Type (low sulfur Diesel, ultra low sulfur diesel, Natural Gas, Coal, …) | Fuel Source: purchased commercial, pipeline quality natural gas, residue gas, raw/field natural gas, process gas (e.g. SRU tail gas) or other | Specify Units | | | | |
|---|---|---|---|---|---|---|---|
| | | | Lower Heating Value | Hourly Usage | Annual Usage | % Sulfur | % Ash |
| RH1-H-23-704 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 40,728.32 scf/hr | 356.78 MMscf/hr | 0.25 gr H2S/100 scf | N/A |
| RH1-H-1101 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 21,370.39 scf/hr | 187.20 MMscf/hr | 0.25 gr H2S/100 scf | N/A |
| RH4-H-41100 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 12,611.40 scf/hr | 110.48 MMscf/hr | 0.25 gr H2S/100 scf | N/A |
| RH2-H-741 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 9,199.81 scf/hr | 80.59 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH2-H-781 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 12,649.74 scf/hr | 110.81 MMscf/hr | 0.25 gr H2S/100 scf | N/A |
| RH2-H-2301 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 3,833.25 scf/hr | 33.58 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH2-H-0901 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 71,873.50 scf/hr | 629.61 MMscf/hr | 0.25 gr H2S/100 scf | N/A |
| RH2-H-1001 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 71,873.50 scf/hr | 629.61 MMscf/hr | 0.25 gr H2S/100 scf | N/A |
| RHA-H-4901 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 32,486.82 scf/hr | 284.58 MMscf/hr | 0.25 gr H2S/100 scf | N/A |
| RH3-H-741 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 8,816.48 scf/hr | 77.23 MMscf/hr | 0.25 gr H2S/100 scf | N/A |
| RH3-H-781 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 18,974.60 scf/hr | 166.22 MMscf/hr | 0.25 gr H2S/100 scf | N/A |
| RH3-H-6301 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 3,833.25 scf/hr | 33.58 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH4-H-741 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 8,816.48 scf/hr | 77.23 MMscf/hr | 0.25 gr H2S/100 scf | N/A |
| RH4-H-781 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 21,370.39 scf/hr | 187.20 MMscf/hr | 0.25 gr H2S/100 scf | N/A |
| RH4-H-3901 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 73,531.38 scf/hr | 644.13 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH4-H-5301 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 3,833.25 scf/hr | 33.58 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH4-H-4001 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 73,531.38 scf/hr | 644.13 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH5-H-50902 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 86,190.70 scf/hr | 755.03 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH5-H-50001 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 86,190.70 scf/hr | 755.03 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH5-H-50741 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 8,701.49 scf/hr | 76.23 MMscf/hr | 0.25 gr H2S/100 scf | N/A |
| RH5-H-50781 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 32,573.07 scf/hr | 285.34 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH6-H-60001 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 86,190.70 scf/hr | 755.03 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH6-H-60741 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 8,720.65 scf/hr | 76.39 MMscf/hr | 0.25 gr H2S/100 scf | N/A |
| RH6-H-60781 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 32,438.91 scf/hr | 284.16 MMscf/hr | 0.25 gr H2S/100 scf | N/A |
| RA2-H-20001 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 85,519.89 scf/hr | 749.15 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH1-FL-29-1003 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 291.00 scf/hr | 2.55 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH2-FL-5100 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 65.00 scf/hr | 0.57 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH3-FL-5100 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 65.00 scf/hr | 0.57 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH4-FL-45100 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 65.00 scf/hr | 0.57 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH5-FL-55100 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 244.00 scf/hr | 2.14 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RHA-FL-51001 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 1,065.00 scf/hr | 9.33 MMscf/yr | 0.25 gr S/100 scf 1.50 ppm H2S | N/A |
| RA2-FL-251002 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 2,565.00 scf/hr | 22.47 MMscf/yr | 0.25 gr S/100 scf 1.50 ppm H2S | N/A |
| RHA-FL-5850 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 100.00 scf/hr | 0.88 MMscf/yr | 0.25 gr H2S/100 scf | N/A |

# Table 2-J: Fuel

Specify fuel characteristics and usage. Unit and stack numbering must correspond throughout the application package.

| Unit No. | Fuel Type (low sulfur Diesel, ultra low sulfur diesel, Natural Gas, Coal, …) | Fuel Source: purchased commercial, pipeline quality natural gas, residue gas, raw/field natural gas, process gas (e.g. SRU tail gas) or other | Specify Units | | | | |
|---|---|---|---|---|---|---|---|
| | | | Lower Heating Value | Hourly Usage | Annual Usage | % Sulfur | % Ash |
| RA2-FL-25850 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 100.00 scf/hr | 0.88 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH1-FL-2850 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 100.00 scf/hr | 0.88 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH4-FL-46200 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 100.00 scf/hr | 0.88 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH2-TO-5500 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 71,423.59 scf/hr | 625.67 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH4-TO-45500 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 68,041.38 scf/hr | 596.04 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH5-TO-55500 | Natural Gas | Pipeline Quality Natural Gas | 1,043.50 Btu/scf | 54,376.81 scf/hr | 476.34 MMscf/yr | 0.25 gr H2S/100 scf | N/A |
| RH-GEN-1 | Diesel | Purchased Commercial | 137,000.00 Btu/gal | 29.14 gal/hr | 14,569.34 gal/yr | 15 ppm S | N/A |
| RH-GEN-2 | Diesel | Purchased Commercial | 137,000.00 Btu/gal | 29.14 gal/hr | 14,569.34 gal/yr | 15 ppm S | N/A |
| RH-GEN-3 | Diesel | Purchased Commercial | 137,000.00 Btu/gal | 29.14 gal/hr | 14,569.34 gal/yr | 15 ppm S | N/A |
| RH-GEN-4 | Diesel | Purchased Commercial | 137,000.00 Btu/gal | 29.14 gal/hr | 14,569.34 gal/yr | 15 ppm S | N/A |
| RH-GEN-5 | Diesel | Purchased Commercial | 137,000.00 Btu/gal | 29.14 gal/hr | 14,569.34 gal/yr | 15 ppm S | N/A |
| RH-GEN-6 | Diesel | Purchased Commercial | 137,000.00 Btu/gal | 29.14 gal/hr | 14,569.34 gal/yr | 15 ppm S | N/A |
| RH-GEN-7 | Diesel | Purchased Commercial | 137,000.00 Btu/gal | 29.14 gal/hr | 14,569.34 gal/yr | 15 ppm S | N/A |
| RH-GEN-8 | Diesel | Purchased Commercial | 137,000.00 Btu/gal | 29.14 gal/hr | 14,569.34 gal/yr | 15 ppm S | N/A |
| RH-GEN-9 | Diesel | Purchased Commercial | 137,000.00 Btu/gal | 29.14 gal/hr | 14,569.34 gal/yr | 15 ppm S | N/A |
| RH-GEN-10 | Diesel | Purchased Commercial | 137,000.00 Btu/gal | 29.14 gal/hr | 14,569.34 gal/yr | 15 ppm S | N/A |
| RH-TRAILER | Diesel | Purchased Commercial | 137,000.00 Btu/gal | 3.20 gal/hr | 128.00 gal/yr | 15 ppm S | N/A |
| RH-GEN-WELL | Diesel | Purchased Commercial | 137,000.00 Btu/gal | 2.04 gal/hr | 245.26 gal/yr | 15 ppm S | N/A |

# Table 2-K: Liquid Data for Tanks Listed in Table 2-L

For each tank, list the liquid(s) to be stored in each tank. If it is expected that a tank may store a variety of hydrocarbon liquids, enter "mixed hydrocarbons" in the Composition column for that tank and enter the corresponding data of the most volatile liquid to be stored in the tank. If tank is to be used for storage of different materials, list all the materials in the "All Calculations" attachment, run the newest version of TANKS on each, and use the material with the highest emission rate to determine maximum uncontrolled and requested allowable emissions rate. The permit will specify the most volatile category of liquids that may be stored in each tank. Include appropriate tank-flashing modeling input data. Use additional sheets if necessary. Unit and stack numbering must correspond throughout the application package.

| Tank No. | SCC Code | Material Name | Composition | Liquid Density (lb/gal) | Vapor Molecular Weight (lb/lb*mol) | Average Storage Conditions | | Max Storage Conditions | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Temperature (°F) | True Vapor Pressure (psia) | Temperature (°F) | True Vapor Pressure (psia) |
| TK-20101 | 40400311 | Condensate | Mixed Hydrocarbons | 4.93 | 69.08 | 109.40 | 13.13 | 109.40 | 13.13 |
| TK-20102 | | | | | | | | | |
| TK-20103 | | | | | | | | | |
| TK-20104 | | | | | | | | | |
| TK-20105 | | | | | | | | | |
| TK-20106 | | | | | | | | | |
| TK-6100 | 40400311 | Sour Slop Water | Sour Hydrocarbon Mixture | 5.68 | 40.28 | 120.00 | 28.70 | 120.00 | 28.70 |
| TK-6200 | | | | | | | | | |
| TK-20107 | 40400311 | Condensate | Mixed Hydrocarbons | 4.93 | 69.08 | 109.40 | 13.13 | 109.40 | 13.13 |
| TK-20108 | | | | | | | | | |
| TK-20109 | | | | | | | | | |
| TK-20110 | | | | | | | | | |
| TK-20111 | | | | | | | | | |
| TK-20112 | | | | | | | | | |
| TK-26100 | 40400311 | Sour Slop Water | Sour Hydrocarbon Mixture | 6.86 | 39.84 | 120.01 | 26.70 | 120.01 | 26.70 |
| TK-26200 | | | | | | | | | |
| TK-46200 | 40400311 | Slop Water | Hydrocarbon Contacted Slop Water | 8.30 | 62.59 | 75.00 | 14.70 | 75.00 | 14.70 |
| TK-46210 | | | | | | | | | |
| TK-46220 | | | | | | | | | |
| TK-46230 | | | | | | | | | |
| TK-6200 (2) | 40400311 | Slop Water | Hydrocarbon Contacted Slop Water | 8.30 | 62.59 | 75.00 | 14.70 | 75.00 | 14.70 |
| TK-33-001 | 40400311 | Slop Water | Hydrocarbon Contacted Slop Water | 8.30 | 62.56 | 75.00 | 14.70 | 75.00 | 14.70 |
| TK-33-002 | | | | | | | | | |
| RH-TK-METHANOL-350 | 40400311 | Methanol | Methanol | 6.72 | 32.04 | 75.00 | 14.70 | 75.00 | 14.70 |
| RH-TK-METHANOL-500 | 40400311 | Methanol | Methanol | 6.72 | 32.04 | 75.00 | 14.70 | 75.00 | 14.70 |
| RH-TK-METHANOL-1000 | 40400311 | Methanol | Methanol | 6.72 | 32.04 | 75.00 | 14.70 | 75.00 | 14.70 |
| RH-TK-METHANOL-1500 | 40400311 | Methanol | Methanol | 6.72 | 32.04 | 75.00 | 14.70 | 75.00 | 14.70 |
| RH-TK-METHANOL-2000 | 40400311 | Methanol | Methanol | 6.72 | 32.04 | 75.00 | 14.70 | 75.00 | 14.70 |

* Methanol tanks have various sizes specified. Tank count is variable and numerous tanks are accounted for under each size categorization.

# Table 2-L: Tank Data

Include appropriate tank-flashing modeling input data. Use an addendum to this table for unlisted data categories. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary. See reference Table 2-L2. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

| Tank No. | Date Installed | Materials Stored | Seal Type[1] (refer to Table 2-LR below) | Roof Type (refer to Table 2-LR below) | Capacity | | Diameter (M) | Vapor Space (M) | Color (from Table VI-C) | | Paint Condition (from Table VI-C) | Annual Throughput (gal/yr) | Turn- overs (per year) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | (bbl) | ($M^3$) | | | Roof | Shell | | | |
| TK-20101 | 2012 | Condensate | N/A | FX | 500 | 79.49 | 4.72 | 2.54 | OT - Tan | OT - Tan | Average | 79,963,800.00 | 634.63 |
| TK-20102 | | | | | | | | | | | | | |
| TK-20103 | | | | | | | | | | | | | |
| TK-20104 | | | | | | | | | | | | | |
| TK-20105 | | | | | | | | | | | | | |
| TK-20106 | | | | | | | | | | | | | |
| TK-6100 | 2018 | Sour Slop Water | N/A | FX | 500 | 79.49 | 4.72 | 2.54 | OT - Tan | OT - Tan | Average | 2,005,048.21 | 47.74 |
| TK-6200 | | | | | | | | | | | | | |
| TK-20107 | 2013 | Condensate | N/A | FX | 500 | 79.49 | 4.72 | 2.54 | OT - Tan | OT - Tan | Average | 79,963,800.00 | 634.63 |
| TK-20108 | | | | | | | | | | | | | |
| TK-20109 | | | | | | | | | | | | | |
| TK-20110 | | | | | | | | | | | | | |
| TK-20111 | | | | | | | | | | | | | |
| TK-20112 | | | | | | | | | | | | | |
| TK-26100 | 2023 | Sour Slop Water | N/A | FX | 500 | 79.49 | 4.72 | 2.54 | OT - Tan | OT - Tan | Average | 3,504,859.86 | 83.45 |
| TK-26200 | | | | | | | | | | | | | |
| TK-46200 | 2019 | Slop Water | N/A | FX | 400 | 63.59 | 3.66 | 3.12 | OT - Tan | OT - Tan | Average | 5,999,183.69 | 89.27 |
| TK-46210 | | | | | | | | | | | | | |
| TK-46220 | | | | | | | | | | | | | |
| TK-46230 | | | | | | | | | | | | | |
| TK-6200 (2) | 2017 | Slop Water | N/A | FX | 400 | 63.59 | 3.66 | 3.12 | OT - Tan | OT - Tan | Average | 3,999,698.11 | 238.08 |
| TK-33-001 | 07/2013 | Slop Water | N/A | FX | 500 | 79.49 | 4.72 | 2.54 | OT - Tan | OT - Tan | Average | 3,999,439.46 | 95.22 |
| TK-33-002 | | | | | | | | | | | | | |
| RH-TK-METHANOL-350 | Various | Methanol | N/A | FX | 8.33 | 1.32 | 1.19 | 0.62 | BL | BL | Average | 17,518,248.00 | 399.32 |
| RH-TK-METHANOL-500 | Various | Methanol | N/A | FX | 11.90 | 1.89 | 1.45 | 0.60 | BL | BL | Average | | |
| RH-TK-METHANOL-1000 | Various | Methanol | N/A | FX | 23.81 | 3.79 | 2.05 | 0.61 | BL | BL | Average | | |
| RH-TK-METHANOL-1500 | Various | Methanol | N/A | FX | 35.71 | 5.68 | 2.18 | 0.81 | BL | BL | Average | | |
| RH-TK-METHANOL-2000 | Various | Methanol | N/A | FX | 47.62 | 7.57 | 2.52 | 0.81 | BL | BL | Average | | |

* Methanol tanks have various sizes specified. Tank count is variable and numerous tanks are accounted for under each size categorization.

There are no seals on the tanks as tanks are fixed roof.

## Table 2-L2: Liquid Storage Tank Data Codes Reference Table

| Roof Type | Seal Type, Welded Tank Seal Type | | Seal Type, Riveted Tank Seal Type | | Roof, Shell Color | Paint Condition |
|---|---|---|---|---|---|---|
| **FX**: Fixed Roof | **Mechanical Shoe Seal** | **Liquid-mounted resilient seal** | **Vapor-mounted resilient seal** | **Seal Type** | **WH**: White | Good |
| **IF**: Internal Floating Roof | **A**: Primary only | **A**: Primary only | **A**: Primary only | **A**: Mechanical shoe, primary only | **AS**: Aluminum (specular) | Poor |
| **EF**: External Floating Roof | **B**: Shoe-mounted secondary | **B**: Weather shield | **B**: Weather shield | **B**: Shoe-mounted secondary | **AD**: Aluminum (diffuse) | |
| **P**: Pressure | **C**: Rim-mounted secondary | **C**: Rim-mounted secondary | **C**: Rim-mounted secondary | **C**: Rim-mounted secondary | **LG**: Light Gray | |
| | | | | | **MG**: Medium Gray | |
| Note: 1.00 bbl = 0.159 $M^3$ = 42.0 gal | | | | | **BL**: Black | |
| | | | | | **OT**: Other (specify) | |

## Table 2-M: Materials Processed and Produced (Use additional sheets as necessary.)

| Material Processed | | | | Material Produced | | | |
|---|---|---|---|---|---|---|---|
| **Description** | **Chemical Composition** | **Phase (Gas, Liquid, or Solid)** | **Quantity (specify units)** | **Description** | **Chemical Composition** | **Phase** | **Quantity (specify units)** |
| Natural Gas | Mixed Hydrocarbons | Gas | 1,575.00 MMscfd | Natural Gas | Mixed Hydrocarbons | Gas | 1,575.00 MMscfd |
| | | | | Condensate | Mixed Hydrocarbons | Liquid | 3,807,800.00 bbl/yr |
| | | | | Sour Slop Water | Sour Hydrocarbon Mixture | Liquid | 131,188.29 bbl/yr |
| | | | | Slop Water | Hydrocarbon Contacted Slop Water | Liquid | 333,293.36 bbl/yr |
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# Table 2-N: CEM Equipment

Enter Continuous Emissions Measurement (CEM) Data in this table. If CEM data will be used as part of a federally enforceable permit condition, or used to satisfy the requirements of a state or federal regulation, include a copy of the CEM's manufacturer specification sheet in the Information Used to Determine Emissions attachment. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary.

| Stack No. | Pollutant(s) | Manufacturer | Model No. | Serial No. | Sample Frequency | Averaging Time | Range | Sensitivity | Accuracy |
|---|---|---|---|---|---|---|---|---|---|
| There is no CEM Equipment at this facility. | | | | | | | | | |
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# Table 2-O: Parametric Emissions Measurement Equipment

Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary.

| Unit No. | Parameter/Pollutant Measured | Location of Measurement | Unit of Measure | Acceptable Range | Frequency of Maintenance | Nature of Maintenance | Method of Recording | Averaging Time |
|---|---|---|---|---|---|---|---|---|
| There is no parametric emissions measurement equipment at this facility. | | | | | | | | |
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# Table 2-P: Greenhouse Gas Emissions (Tank Scenario 1)

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box ☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

| | | $CO_2$ ton/yr | $N_2O$ ton/yr | $CH_4$ ton/yr | $SF_6$ ton/yr | PFC/HFC ton/yr[2] | | | | | | | | | Total GHG Mass Basis ton/yr[4] | Total $CO_2e$ ton/yr[5] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit No.** | **GWPs [1]** | **1** | **265** | **28** | **23,500** | **footnote 3** | | | | | | | | | | |
| **RH1-H-23-704** | **mass GHG** | 21,775.32 | 0.041 | 0.41 | | | | | | | | | | | 21,775.77 | |
| | **$CO_2e$** | 21,775.32 | 10.88 | 11.49 | | | | | | | | | | | | 21,797.69 |
| **RH1-H-1101** | **mass GHG** | 11,425.64 | 0.022 | 0.22 | | | | | | | | | | | 11,425.88 | |
| | **$CO_2e$** | 11,425.64 | 5.71 | 6.03 | | | | | | | | | | | | 11,437.37 |
| **RH4-H-41100** | **mass GHG** | 6,742.66 | 0.013 | 0.13 | | | | | | | | | | | 6,742.80 | |
| | **$CO_2e$** | 6,742.66 | 3.37 | 3.56 | | | | | | | | | | | | 6,749.59 |
| **RH2-H-741** | **mass GHG** | 4,918.66 | 9.27E-03 | 0.093 | | | | | | | | | | | 4,918.76 | |
| | **$CO_2e$** | 4,918.66 | 2.46 | 2.60 | | | | | | | | | | | | 4,923.71 |
| **RH2-H-781** | **mass GHG** | 6,763.16 | 0.013 | 0.13 | | | | | | | | | | | 6,763.30 | |
| | **$CO_2e$** | 6,763.16 | 3.38 | 3.57 | | | | | | | | | | | | 6,770.10 |
| **RH2-H-2301** | **mass GHG** | 2,049.44 | 3.86E-03 | 0.039 | | | | | | | | | | | 2,049.48 | |
| | **$CO_2e$** | 2,049.44 | 1.02 | 1.08 | | | | | | | | | | | | 2,051.55 |
| **RH2-H-0901** | **mass GHG** | 38,427.04 | 0.072 | 0.72 | | | | | | | | | | | 38,427.83 | |
| | **$CO_2e$** | 38,427.04 | 19.19 | 20.28 | | | | | | | | | | | | 38,466.51 |
| **RH2-H-1001** | **mass GHG** | 38,427.04 | 0.072 | 0.72 | | | | | | | | | | | 38,427.83 | |
| | **$CO_2e$** | 38,427.04 | 19.19 | 20.28 | | | | | | | | | | | | 38,466.51 |
| **RHA-H-4901** | **mass GHG** | 17,369.02 | 0.033 | 0.33 | | | | | | | | | | | 17,369.38 | |
| | **$CO_2e$** | 17,369.02 | 8.67 | 9.17 | | | | | | | | | | | | 17,386.86 |
| **RH3-H-741** | **mass GHG** | 4,713.72 | 8.88E-03 | 0.089 | | | | | | | | | | | 4,713.81 | |
| | **$CO_2e$** | 4,713.72 | 2.35 | 2.49 | | | | | | | | | | | | 4,718.56 |
| **RH3-H-781** | **mass GHG** | 10,144.74 | 0.019 | 0.19 | | | | | | | | | | | 10,144.95 | |
| | **$CO_2e$** | 10,144.74 | 5.07 | 5.35 | | | | | | | | | | | | 10,155.16 |
| **RH3-H-6301** | **mass GHG** | 2,049.44 | 3.86E-03 | 0.039 | | | | | | | | | | | 2,049.48 | |
| | **$CO_2e$** | 2,049.44 | 1.02 | 1.08 | | | | | | | | | | | | 2,051.55 |
| **RH4-H-741** | **mass GHG** | 4,713.72 | 8.88E-03 | 0.089 | | | | | | | | | | | 4,713.81 | |
| | **$CO_2e$** | 4,713.72 | 2.35 | 2.49 | | | | | | | | | | | | 4,718.56 |
| **RH4-H-781** | **mass GHG** | 11,425.64 | 0.022 | 0.22 | | | | | | | | | | | 11,425.88 | |
| | **$CO_2e$** | 11,425.64 | 5.71 | 6.03 | | | | | | | | | | | | 11,437.37 |
| **RH4-H-3901** | **mass GHG** | 39,313.42 | 0.074 | 0.74 | | | | | | | | | | | 39,314.23 | |
| | **$CO_2e$** | 39,313.42 | 19.63 | 20.75 | | | | | | | | | | | | 39,353.80 |
| **RH4-H-5301** | **mass GHG** | 2,049.44 | 3.86E-03 | 0.039 | | | | | | | | | | | 2,049.48 | |
| | **$CO_2e$** | 2,049.44 | 1.02 | 1.08 | | | | | | | | | | | | 2,051.55 |
| **RH4-H-4001** | **mass GHG** | 39,313.42 | 0.074 | 0.74 | | | | | | | | | | | 39,314.23 | |
| | **$CO_2e$** | 39,313.42 | 19.63 | 20.75 | | | | | | | | | | | | 39,353.80 |
| **RH5-H-50902** | **mass GHG** | 46,081.70 | 0.087 | 0.87 | | | | | | | | | | | 46,082.66 | |
| | **$CO_2e$** | 46,081.70 | 23.01 | 24.32 | | | | | | | | | | | | 46,129.03 |
| **RH5-H-50001** | **mass GHG** | 46,081.70 | 0.087 | 0.87 | | | | | | | | | | | 46,082.66 | |
| | **$CO_2e$** | 46,081.70 | 23.01 | 24.32 | | | | | | | | | | | | 46,129.03 |
| **RH5-H-50741** | **mass GHG** | 4,652.23 | 8.77E-03 | 0.088 | | | | | | | | | | | 4,652.33 | |
| | **$CO_2e$** | 4,652.23 | 2.32 | 2.46 | | | | | | | | | | | | 4,657.01 |

# Table 2-P: Greenhouse Gas Emissions (Tank Scenario 1)

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box ☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

| | | $CO_2$ ton/yr | $N_2O$ ton/yr | $CH_4$ ton/yr | $SF_6$ ton/yr | PFC/HFC ton/yr[2] | | | | | | | | | Total GHG Mass Basis ton/yr[4] | Total $CO_2e$ ton/yr[5] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RH5-H-50781** | **mass GHG** | 17,415.13 | 0.033 | 0.33 | | | | | | | | | | | 17,415.49 | |
| | **$CO_2e$** | 17,415.13 | 8.70 | 9.19 | | | | | | | | | | | | 17,433.02 |
| **RH6-H-60001** | **mass GHG** | 46,081.70 | 0.087 | 0.87 | | | | | | | | | | | 46,082.66 | |
| | **$CO_2e$** | 46,081.70 | 23.01 | 24.32 | | | | | | | | | | | | 46,129.03 |
| **RH6-H-60741** | **mass GHG** | 4,662.48 | 8.79E-03 | 0.088 | | | | | | | | | | | 4,662.58 | |
| | **$CO_2e$** | 4,662.48 | 2.33 | 2.46 | | | | | | | | | | | | 4,667.27 |
| **RH6-H-60781** | **mass GHG** | 17,343.40 | 0.033 | 0.33 | | | | | | | | | | | 17,343.76 | |
| | **$CO_2e$** | 17,343.40 | 8.66 | 9.15 | | | | | | | | | | | | 17,361.22 |
| **RA2-H-20001** | **mass GHG** | 45,723.05 | 0.086 | 0.86 | | | | | | | | | | | 45,724.00 | |
| | **$CO_2e$** | 45,723.05 | 22.84 | 24.13 | | | | | | | | | | | | 45,770.01 |
| **RH1-FL-29-1003** | **mass GHG** | 4,520.10 | 8.07E-03 | 8.09 | | | | | | | | | | | 4,528.20 | |
| | **$CO_2e$** | 4,520.10 | 2.14 | 226.64 | | | | | | | | | | | | 4,748.87 |
| **RH2-FL-5100** | **mass GHG** | 15,868.91 | 0.014 | 1,095.67 | | | | | | | | | | | 16,964.60 | |
| | **$CO_2e$** | 15,868.91 | 3.77 | 30,678.79 | | | | | | | | | | | | 46,551.47 |
| **RH3-FL-5100** | **mass GHG** | 7,486.91 | 0.013 | 196.93 | | | | | | | | | | | 7,683.85 | |
| | **$CO_2e$** | 7,486.91 | 3.48 | 5,513.93 | | | | | | | | | | | | 13,004.33 |
| **RH4-FL-45100** | **mass GHG** | 9,193.53 | 0.016 | 709.67 | | | | | | | | | | | 9,903.22 | |
| | **$CO_2e$** | 9,193.53 | 4.16 | 19,870.78 | | | | | | | | | | | | 29,068.47 |
| **RH5-FL-55100** | **mass GHG** | 16,718.57 | 0.030 | 394.24 | | | | | | | | | | | 17,112.84 | |
| | **$CO_2e$** | 16,718.57 | 7.82 | 11,038.85 | | | | | | | | | | | | 27,765.24 |
| **RHA-FL-51001** | **mass GHG** | 16,990.24 | 0.02 | 519.00 | | | | | | | | | | | 17,509.26 | |
| | **$CO_2e$** | 16,990.24 | 5.11 | 14,532.05 | | | | | | | | | | | | 31,527.40 |
| **RA2-FL-251002** | **mass GHG** | 27,081.77 | 0.02 | 253.93 | | | | | | | | | | | 27,335.73 | |
| | **$CO_2e$** | 27,081.77 | 5.38 | 7,110.16 | | | | | | | | | | | | 34,197.31 |
| **RHA-FL-5850** | **mass GHG** | 38.14 | 4.76E-05 | 0.13 | | | | | | | | | | | 38.27 | |
| | **$CO_2e$** | 38.14 | 0.013 | 3.65 | | | | | | | | | | | | 41.81 |
| **RA2-FL-25850** | **mass GHG** | 76.53 | 1.07E-04 | 0.31 | | | | | | | | | | | 76.84 | |
| | **$CO_2e$** | 76.53 | 0.028 | 8.80 | | | | | | | | | | | | 85.35 |
| **RH1-FL-2850** | **mass GHG** | 777.64 | 4.79E-04 | 0.31 | | | | | | | | | | | 777.95 | |
| | **$CO_2e$** | 777.64 | 0.13 | 8.79 | | | | | | | | | | | | 786.55 |
| **RH4-FL-46200** | **mass GHG** | 3,640.97 | 6.93E-03 | 0.58 | | | | | | | | | | | 3,641.56 | |
| | **$CO_2e$** | 3,640.97 | 1.837 | 16.32 | | | | | | | | | | | | 3,659.12 |
| **Flare-M3** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH1-TEG** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH2-TEG** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH3-TEG** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH4-TEG** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH5-TEG** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH6-TEG** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH1-AMINE** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |

# Table 2-P: Greenhouse Gas Emissions (Tank Scenario 1)

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box ☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

| | | $CO_2$ ton/yr | $N_2O$ ton/yr | $CH_4$ ton/yr | $SF_6$ ton/yr | PFC/HFC ton/yr[2] | | | | | | | | | Total GHG Mass Basis ton/yr[4] | Total $CO_2e$ ton/yr[5] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RH2-AMINE | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RHA-AMINE | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RH4-AMINE | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RH5-AMINE | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RA2-AMINE | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RH2-TO-5500 | mass GHG | 46,129.80 | 0.09 | 0.87 | | | | | | | | | | | 46,130.75 | |
| | $CO_2e$ | 46,129.80 | 23.030 | 24.34 | | | | | | | | | | | | 46,177.17 |
| RH4-TO-45500 | mass GHG | 41,006.29 | 0.08 | 0.77 | | | | | | | | | | | 41,007.14 | |
| | $CO_2e$ | 41,006.29 | 20.47 | 21.63 | | | | | | | | | | | | 41,048.40 |
| RH5-TO-55500 | mass GHG | 38,444.91 | 0.07 | 0.72 | | | | | | | | | | | 38,445.71 | |
| | $CO_2e$ | 38,444.91 | 19.192 | 20.28 | | | | | | | | | | | | 38,484.39 |
| RH1-TK-COND-EAST16 | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RHA-TK-SLOP17 | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RH1-TK-COND-WEST18 | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RA2-TK-SLOP19 | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RH4-TK-SLOP | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RH2-TK-SLOP | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RH1-TK-SLOP | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RH-TK-METHANOL | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RHA-TK-SLOP-LOAD20 | mass GHG | 0.05 | - | 1.04E-07 | | | | | | | | | | | 0.05 | |
| | $CO_2e$ | 0.05 | - | 2.90E-06 | | | | | | | | | | | | 0.05 |
| RH1-TK-COND-WEST-LOAD21 | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RA2-TK-SLOP-LOAD22 | mass GHG | 0.08 | - | 2.63E-07 | | | | | | | | | | | 0.08 | |
| | $CO_2e$ | 0.08 | - | 7.35E-06 | | | | | | | | | | | | 0.08 |
| RH4-TK-SLOP-LOAD | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RH2-TK-SLOP-LOAD | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RH1-TK-SLOP-LOAD | mass GHG | - | - | - | | | | | | | | | | | - | |
| | $CO_2e$ | - | - | - | | | | | | | | | | | | - |
| RH-GEN-1 | mass GHG | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | $CO_2e$ | 162.73 | 0.35 | 0.18 | | | | | | | | | | | | 163.26 |

# Table 2-P: Greenhouse Gas Emissions (Tank Scenario 1)

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box ☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

| | | $CO_2$ ton/yr | $N_2O$ ton/yr | $CH_4$ ton/yr | $SF_6$ ton/yr | PFC/HFC ton/yr[2] | | | | | | | | | Total GHG Mass Basis ton/yr[4] | Total $CO_2e$ ton/yr[5] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RH-GEN-2** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.350 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-3** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.35 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-4** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.350 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-5** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.35 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-6** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.350 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-7** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.35 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-8** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.350 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-9** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.35 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-10** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.350 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-TRAILER** | **mass GHG** | 3.26 | 2.65E-05 | 1.32E-04 | | | | | | | | | | | 3.26 | |
| | **$CO_2e$** | 3.26 | 7.01E-03 | 3.70E-03 | | | | | | | | | | | | 3.27 |
| **RH-GEN-WELL** | **mass GHG** | 2.74 | 2.22E-05 | 1.11E-04 | | | | | | | | | | | 2.74 | |
| | **$CO_2e$** | 2.74 | 5.889E-03 | 3.11E-03 | | | | | | | | | | | | 2.75 |
| **RH1-SSM** | **mass GHG** | 7.37 | - | 0.66 | | | | | | | | | | | 8.02 | |
| | **$CO_2e$** | 7.37 | - | 18.37 | | | | | | | | | | | | 25.73 |
| **RH2-SSM** | **mass GHG** | 7.55 | - | 255.73 | | | | | | | | | | | 263.28 | |
| | **$CO_2e$** | 7.55 | - | 7,160.51 | | | | | | | | | | | | 7,168.06 |
| **RH3-SSM** | **mass GHG** | 7.23 | - | 254.74 | | | | | | | | | | | 261.97 | |
| | **$CO_2e$** | 7.23 | - | 7,132.65 | | | | | | | | | | | | 7,139.88 |
| **RH4-SSM** | **mass GHG** | 4.05 | - | 153.54 | | | | | | | | | | | 157.59 | |
| | **$CO_2e$** | 4.05 | - | 4,299.15 | | | | | | | | | | | | 4,303.20 |
| **RH5-SSM** | **mass GHG** | 4.05 | - | 153.54 | | | | | | | | | | | 157.59 | |
| | **$CO_2e$** | 4.05 | - | 4,299.15 | | | | | | | | | | | | 4,303.20 |
| **RH6-SSM** | **mass GHG** | 4.07 | - | 152.58 | | | | | | | | | | | 156.66 | |
| | **$CO_2e$** | 4.07 | - | 4,272.32 | | | | | | | | | | | | 4,276.39 |
| **RHA-SSM** | **mass GHG** | 0.17 | - | 0.06 | | | | | | | | | | | 0.23 | |
| | **$CO_2e$** | 0.17 | - | 1.63 | | | | | | | | | | | | 1.80 |
| **RA2-SSM** | **mass GHG** | 0.71 | - | 0.23 | | | | | | | | | | | 0.94 | |
| | **$CO_2e$** | 0.71 | - | 6.50 | | | | | | | | | | | | 7.21 |
| **RH2-TO-5500-SSM** | **mass GHG** | 5,086.27 | - | 4.47 | | | | | | | | | | | 5,090.74 | |
| | **$CO_2e$** | 5,086.27 | - | 125.21 | | | | | | | | | | | | 5,211.48 |
| **RH4-TO-45500-SSM** | **mass GHG** | 4,033.44 | - | 3.50 | | | | | | | | | | | 4,036.94 | |
| | **$CO_2e$** | 4,033.44 | - | 97.89 | | | | | | | | | | | | 4,131.33 |
| **RH5-TO-55500-SSM** | **mass GHG** | 6,515.14 | - | 6.56 | | | | | | | | | | | 6,521.70 | |
| | **$CO_2e$** | 6,515.14 | - | 183.77 | | | | | | | | | | | | 6,698.91 |
| **RHA-REC-WINKLER** | **mass GHG** | 0.14 | - | 0.03 | | | | | | | | | | | 0.17 | |
| | **$CO_2e$** | 0.14 | - | 0.88 | | | | | | | | | | | | 1.02 |

# Table 2-P: Greenhouse Gas Emissions (Tank Scenario 1)

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box ☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

| | | $CO_2$ ton/yr | $N_2O$ ton/yr | $CH_4$ ton/yr | $SF_6$ ton/yr | PFC/HFC ton/yr[2] | | | | | | | | | Total GHG Mass Basis ton/yr[4] | Total $CO_2e$ ton/yr[5] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RHA-REC-LIMESTONE-8INCH** | **mass GHG** | 0.05 | - | 0.01 | | | | | | | | | | | 0.06 | |
| | **$CO_2e$** | 0.05 | - | 0.28 | | | | | | | | | | | | 0.33 |
| **RH1-REC-PLANTVIEW** | **mass GHG** | 0.03 | - | 0.27 | | | | | | | | | | | 0.31 | |
| | **$CO_2e$** | 0.03 | - | 7.64 | | | | | | | | | | | | 7.67 |
| **RH1-REC-GUTLINE** | **mass GHG** | 0.22 | - | 1.82 | | | | | | | | | | | 2.04 | |
| | **$CO_2e$** | 0.22 | - | 51.02 | | | | | | | | | | | | 51.24 |
| **RH1-REC-ABU** | **mass GHG** | 0.08 | - | 0.71 | | | | | | | | | | | 0.79 | |
| | **$CO_2e$** | 0.08 | - | 19.81 | | | | | | | | | | | | 19.90 |
| **RH4-REC-24INCH** | **mass GHG** | 0.09 | - | 0.76 | | | | | | | | | | | 0.85 | |
| | **$CO_2e$** | 0.09 | - | 21.27 | | | | | | | | | | | | 21.36 |
| **RHA-REC-LIMESTONE-10INCH** | **mass GHG** | 3.73E-03 | - | 8.36E-04 | | | | | | | | | | | 4.57E-03 | |
| | **$CO_2e$** | 3.73E-03 | - | 0.02 | | | | | | | | | | | | 0.03 |
| **RA2-REC-GREYHOUND** | **mass GHG** | 0.08 | - | 0.02 | | | | | | | | | | | 0.10 | |
| | **$CO_2e$** | 0.08 | - | 0.53 | | | | | | | | | | | | 0.61 |
| **RHA-LAU-LIMESTONE-10INCH** | **mass GHG** | 3.73E-03 | - | 8.36E-04 | | | | | | | | | | | 4.57E-03 | |
| | **$CO_2e$** | 3.73E-03 | - | 0.02 | | | | | | | | | | | | 0.03 |
| **RH1-LAU-NGPL** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH1-LAU-TW** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH1-LAU-ETC** | **mass GHG** | 1.23E-04 | - | 0.04 | | | | | | | | | | | 0.04 | |
| | **$CO_2e$** | 1.23E-04 | - | 1.09 | | | | | | | | | | | | 1.09 |
| **RH1-LAU-ONEOK** | **mass GHG** | 1.23E-04 | - | 0.04 | | | | | | | | | | | 0.04 | |
| | **$CO_2e$** | 1.23E-04 | - | 1.09 | | | | | | | | | | | | 1.09 |
| **RH2-LAU-GPX** | **mass GHG** | 1.02E-03 | - | 0.32 | | | | | | | | | | | 0.32 | |
| | **$CO_2e$** | 1.02E-03 | - | 9.05 | | | | | | | | | | | | 9.05 |
| **RH-HAUL** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH-FUG-1** | **mass GHG** | 14.42 | - | 167.37 | | | | | | | | | | | 181.79 | |
| | **$CO_2e$** | 14.42 | - | 4,686.32 | | | | | | | | | | | | 4,700.75 |
| **RH-FUG-2** | **mass GHG** | 29.72 | - | 223.00 | | | | | | | | | | | 252.73 | |
| | **$CO_2e$** | 29.72 | - | 6,244.08 | | | | | | | | | | | | 6,273.80 |
| **RHA-FUG** | **mass GHG** | 5.78 | - | 57.77 | | | | | | | | | | | 63.54 | |
| | **$CO_2e$** | 5.78 | - | 1,617.49 | | | | | | | | | | | | 1,623.27 |
| **RA2-FUG** | **mass GHG** | 10.07 | - | 100.85 | | | | | | | | | | | 110.91 | |
| | **$CO_2e$** | 10.07 | - | 2,823.67 | | | | | | | | | | | | 2,833.74 |
| **Total** | **mass GHG** | **735,001.36** | **1.30** | **4,729.17** | | | | | | | | | | | **739,731.83** | |
| | **$CO_2e$** | **735,001.36** | **344.63** | **132,416.68** | | | | | | | | | | | | **867,762.67** |

[1] **GWP** (Global Warming Potential): Applicants must use the most current GWPs codified in Table A-1 of 40 CFR part 98. GWPs are subject to change, therefore, applicants need to check 40 CFR 98 to confirm GWP values.

[2] For **HFCs** or **PFCs** describe the specific HFC or PFC compound and use a separate column for each individual compound.

[3] For each new compound, enter the appropriate GWP for each HFC or PFC compound from Table A-1 in 40 CFR 98.

[4] Green house gas emissions on a **mass basis** is the ton per year green house gas emission before adjustment with its GWP.

[5] **$CO_2e$** means Carbon Dioxide Equivalent and is calculated by multiplying the TPY mass emissions of the green house gas by its GWP.

# Table 2-P: Greenhouse Gas Emissions (Tank Scenario 2)

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box ☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

| | | $CO_2$ ton/yr | $N_2O$ ton/yr | $CH_4$ ton/yr | $SF_6$ ton/yr | PFC/HFC ton/yr[2] | | | | | | | | | Total GHG Mass Basis ton/yr[4] | Total $CO_2e$ ton/yr[5] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit No.** | **GWPs [1]** | **1** | **265** | **28** | **23,500** | **footnote 3** | | | | | | | | | | |
| **RH1-H-23-704** | **mass GHG** | 21,775.32 | 0.041 | 0.41 | | | | | | | | | | | 21,775.77 | |
| | **$CO_2e$** | 21,775.32 | 10.88 | 11.49 | | | | | | | | | | | | 21,797.69 |
| **RH1-H-1101** | **mass GHG** | 11,425.64 | 0.022 | 0.22 | | | | | | | | | | | 11,425.88 | |
| | **$CO_2e$** | 11,425.64 | 5.71 | 6.03 | | | | | | | | | | | | 11,437.37 |
| **RH4-H-41100** | **mass GHG** | 6,742.66 | 0.013 | 0.13 | | | | | | | | | | | 6,742.80 | |
| | **$CO_2e$** | 6,742.66 | 3.37 | 3.56 | | | | | | | | | | | | 6,749.59 |
| **RH2-H-741** | **mass GHG** | 4,918.66 | 9.27E-03 | 0.093 | | | | | | | | | | | 4,918.76 | |
| | **$CO_2e$** | 4,918.66 | 2.46 | 2.60 | | | | | | | | | | | | 4,923.71 |
| **RH2-H-781** | **mass GHG** | 6,763.16 | 0.013 | 0.13 | | | | | | | | | | | 6,763.30 | |
| | **$CO_2e$** | 6,763.16 | 3.38 | 3.57 | | | | | | | | | | | | 6,770.10 |
| **RH2-H-2301** | **mass GHG** | 2,049.44 | 3.86E-03 | 0.039 | | | | | | | | | | | 2,049.48 | |
| | **$CO_2e$** | 2,049.44 | 1.02 | 1.08 | | | | | | | | | | | | 2,051.55 |
| **RH2-H-0901** | **mass GHG** | 38,427.04 | 0.072 | 0.72 | | | | | | | | | | | 38,427.83 | |
| | **$CO_2e$** | 38,427.04 | 19.19 | 20.28 | | | | | | | | | | | | 38,466.51 |
| **RH2-H-1001** | **mass GHG** | 38,427.04 | 0.072 | 0.72 | | | | | | | | | | | 38,427.83 | |
| | **$CO_2e$** | 38,427.04 | 19.19 | 20.28 | | | | | | | | | | | | 38,466.51 |
| **RHA-H-4901** | **mass GHG** | 17,369.02 | 0.033 | 0.33 | | | | | | | | | | | 17,369.38 | |
| | **$CO_2e$** | 17,369.02 | 8.67 | 9.17 | | | | | | | | | | | | 17,386.86 |
| **RH3-H-741** | **mass GHG** | 4,713.72 | 8.88E-03 | 0.089 | | | | | | | | | | | 4,713.81 | |
| | **$CO_2e$** | 4,713.72 | 2.35 | 2.49 | | | | | | | | | | | | 4,718.56 |
| **RH3-H-781** | **mass GHG** | 10,144.74 | 0.019 | 0.19 | | | | | | | | | | | 10,144.95 | |
| | **$CO_2e$** | 10,144.74 | 5.07 | 5.35 | | | | | | | | | | | | 10,155.16 |
| **RH3-H-6301** | **mass GHG** | 2,049.44 | 3.86E-03 | 0.039 | | | | | | | | | | | 2,049.48 | |
| | **$CO_2e$** | 2,049.44 | 1.02 | 1.08 | | | | | | | | | | | | 2,051.55 |
| **RH4-H-741** | **mass GHG** | 4,713.72 | 8.88E-03 | 0.089 | | | | | | | | | | | 4,713.81 | |
| | **$CO_2e$** | 4,713.72 | 2.35 | 2.49 | | | | | | | | | | | | 4,718.56 |
| **RH4-H-781** | **mass GHG** | 11,425.64 | 0.022 | 0.22 | | | | | | | | | | | 11,425.88 | |
| | **$CO_2e$** | 11,425.64 | 5.71 | 6.03 | | | | | | | | | | | | 11,437.37 |
| **RH4-H-3901** | **mass GHG** | 39,313.42 | 0.074 | 0.74 | | | | | | | | | | | 39,314.23 | |
| | **$CO_2e$** | 39,313.42 | 19.63 | 20.75 | | | | | | | | | | | | 39,353.80 |
| **RH4-H-5301** | **mass GHG** | 2,049.44 | 3.86E-03 | 0.039 | | | | | | | | | | | 2,049.48 | |
| | **$CO_2e$** | 2,049.44 | 1.02 | 1.08 | | | | | | | | | | | | 2,051.55 |
| **RH4-H-4001** | **mass GHG** | 39,313.42 | 0.074 | 0.74 | | | | | | | | | | | 39,314.23 | |
| | **$CO_2e$** | 39,313.42 | 19.63 | 20.75 | | | | | | | | | | | | 39,353.80 |
| **RH5-H-50902** | **mass GHG** | 46,081.70 | 0.087 | 0.87 | | | | | | | | | | | 46,082.66 | |
| | **$CO_2e$** | 46,081.70 | 23.01 | 24.32 | | | | | | | | | | | | 46,129.03 |
| **RH5-H-50001** | **mass GHG** | 46,081.70 | 0.087 | 0.87 | | | | | | | | | | | 46,082.66 | |
| | **$CO_2e$** | 46,081.70 | 23.01 | 24.32 | | | | | | | | | | | | 46,129.03 |
| **RH5-H-50741** | **mass GHG** | 4,652.23 | 8.77E-03 | 0.088 | | | | | | | | | | | 4,652.33 | |
| | **$CO_2e$** | 4,652.23 | 2.32 | 2.46 | | | | | | | | | | | | 4,657.01 |

# Table 2-P: Greenhouse Gas Emissions (Tank Scenario 2)

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box ☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

| | | $CO_2$ ton/yr | $N_2O$ ton/yr | $CH_4$ ton/yr | $SF_6$ ton/yr | PFC/HFC ton/yr[2] | | | | | | | | | Total GHG Mass Basis ton/yr[4] | Total $CO_2e$ ton/yr[5] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RH5-H-50781** | **mass GHG** | 17,415.13 | 0.033 | 0.33 | | | | | | | | | | | 17,415.49 | |
| | **$CO_2e$** | 17,415.13 | 8.70 | 9.19 | | | | | | | | | | | | 17,433.02 |
| **RH6-H-60001** | **mass GHG** | 46,081.70 | 0.087 | 0.87 | | | | | | | | | | | 46,082.66 | |
| | **$CO_2e$** | 46,081.70 | 23.01 | 24.32 | | | | | | | | | | | | 46,129.03 |
| **RH6-H-60741** | **mass GHG** | 4,662.48 | 8.79E-03 | 0.088 | | | | | | | | | | | 4,662.58 | |
| | **$CO_2e$** | 4,662.48 | 2.33 | 2.46 | | | | | | | | | | | | 4,667.27 |
| **RH6-H-60781** | **mass GHG** | 17,343.40 | 0.033 | 0.33 | | | | | | | | | | | 17,343.76 | |
| | **$CO_2e$** | 17,343.40 | 8.66 | 9.15 | | | | | | | | | | | | 17,361.22 |
| **RA2-H-20001** | **mass GHG** | 45,723.05 | 0.086 | 0.86 | | | | | | | | | | | 45,724.00 | |
| | **$CO_2e$** | 45,723.05 | 22.84 | 24.13 | | | | | | | | | | | | 45,770.01 |
| **RH1-FL-29-1003** | **mass GHG** | 4,520.10 | 8.07E-03 | 8.09 | | | | | | | | | | | 4,528.20 | |
| | **$CO_2e$** | 4,520.10 | 2.14 | 226.64 | | | | | | | | | | | | 4,748.87 |
| **RH2-FL-5100** | **mass GHG** | 15,868.91 | 0.014 | 1,095.67 | | | | | | | | | | | 16,964.60 | |
| | **$CO_2e$** | 15,868.91 | 3.77 | 30,678.79 | | | | | | | | | | | | 46,551.47 |
| **RH3-FL-5100** | **mass GHG** | 7,486.91 | 0.013 | 196.93 | | | | | | | | | | | 7,683.85 | |
| | **$CO_2e$** | 7,486.91 | 3.48 | 5,513.93 | | | | | | | | | | | | 13,004.33 |
| **RH4-FL-45100** | **mass GHG** | 9,193.53 | 0.016 | 709.67 | | | | | | | | | | | 9,903.22 | |
| | **$CO_2e$** | 9,193.53 | 4.16 | 19,870.78 | | | | | | | | | | | | 29,068.47 |
| **RH5-FL-55100** | **mass GHG** | 16,718.57 | 0.030 | 394.24 | | | | | | | | | | | 17,112.84 | |
| | **$CO_2e$** | 16,718.57 | 7.82 | 11,038.85 | | | | | | | | | | | | 27,765.24 |
| **RHA-FL-5100** | **mass GHG** | 16,990.24 | 0.02 | 519.00 | | | | | | | | | | | 17,509.26 | |
| | **$CO_2e$** | 16,990.24 | 5.11 | 14,532.05 | | | | | | | | | | | | 31,527.40 |
| **RA2-FL-25100** | **mass GHG** | 27,081.77 | 0.02 | 253.93 | | | | | | | | | | | 27,335.73 | |
| | **$CO_2e$** | 27,081.77 | 5.38 | 7,110.16 | | | | | | | | | | | | 34,197.31 |
| **RHA-FL-5850** | **mass GHG** | 38.14 | 4.76E-05 | 0.13 | | | | | | | | | | | 38.27 | |
| | **$CO_2e$** | 38.14 | 0.013 | 3.65 | | | | | | | | | | | | 41.81 |
| **RA2-FL-25850** | **mass GHG** | 76.53 | 1.07E-04 | 0.31 | | | | | | | | | | | 76.84 | |
| | **$CO_2e$** | 76.53 | 0.028 | 8.80 | | | | | | | | | | | | 85.35 |
| **RH1-FL-2850** | **mass GHG** | 777.64 | 4.79E-04 | 0.31 | | | | | | | | | | | 777.95 | |
| | **$CO_2e$** | 777.64 | 0.13 | 8.79 | | | | | | | | | | | | 786.55 |
| **Flare-M3** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH1-TEG** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH2-TEG** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH3-TEG** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH4-TEG** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH5-TEG** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH6-TEG** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH1-AMINE** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH2-AMINE** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |

# Table 2-P: Greenhouse Gas Emissions (Tank Scenario 2)

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box ☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

| | | **$CO_2$** ton/yr | **$N_2O$** ton/yr | **$CH_4$** ton/yr | **$SF_6$** ton/yr | **PFC/HFC** ton/yr[2] | | | | | | | | | **Total GHG** Mass Basis ton/yr[4] | **Total $CO_2e$** ton/yr[5] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RHA-AMINE** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH4-AMINE** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH5-AMINE** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RA2-AMINE** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH2-TO-5500** | **mass GHG** | 46,129.80 | 0.09 | 0.87 | | | | | | | | | | | 46,130.75 | |
| | **$CO_2e$** | 46,129.80 | 23.03 | 24.34 | | | | | | | | | | | | 46,177.17 |
| **RH4-TO-45500** | **mass GHG** | 41,006.29 | 0.08 | 0.77 | | | | | | | | | | | 41,007.14 | |
| | **$CO_2e$** | 41,006.29 | 20.471 | 21.63 | | | | | | | | | | | | 41,048.40 |
| **RH5-TO-55500** | **mass GHG** | 38,444.91 | 0.07 | 0.72 | | | | | | | | | | | 38,445.71 | |
| | **$CO_2e$** | 38,444.91 | 19.19 | 20.28 | | | | | | | | | | | | 38,484.39 |
| **RH1-TK-COND-EAST** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RHA-TK-SLOP** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH1-TK-COND-WEST** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RA2-TK-SLOP** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH4-TK-SLOP** | **mass GHG** | 9.32E-03 | - | 0.02 | | | | | | | | | | | 0.03 | |
| | **$CO_2e$** | 9.32E-03 | - | 0.48 | | | | | | | | | | | | 0.49 |
| **RH2-TK-SLOP** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH1-TK-SLOP** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH-TK-METHANOL** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RHA-TK-SLOP-LOAD** | **mass GHG** | 0.05 | - | 1.04E-07 | | | | | | | | | | | 0.05 | |
| | **$CO_2e$** | 0.05 | - | 2.90E-06 | | | | | | | | | | | | 0.05 |
| **RH1-TK-COND-WEST-LOAD** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RA2-TK-SLOP-LOAD** | **mass GHG** | 0.08 | - | 2.63E-07 | | | | | | | | | | | 0.08 | |
| | **$CO_2e$** | 0.08 | - | 7.35E-06 | | | | | | | | | | | | 0.08 |
| **RH4-TK-SLOP-LOAD** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH2-TK-SLOP-LOAD** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH1-TK-SLOP-LOAD** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH-GEN-1** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.350 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-2** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.35 | 0.18 | | | | | | | | | | | | 163.26 |

# Table 2-P: Greenhouse Gas Emissions (Tank Scenario 2)

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| | | **$CO_2$** ton/yr | **$N_2O$** ton/yr | **$CH_4$** ton/yr | **$SF_6$** ton/yr | **PFC/HFC** ton/yr[2] | | | | | | | | | **Total GHG** Mass Basis ton/yr[4] | **Total $CO_2e$** ton/yr[5] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RH-GEN-3** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.350 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-4** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.35 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-5** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.350 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-6** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.35 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-7** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.350 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-8** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.35 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-9** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.350 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-GEN-10** | **mass GHG** | 162.73 | 1.32E-03 | 6.60E-03 | | | | | | | | | | | 162.74 | |
| | **$CO_2e$** | 162.73 | 0.35 | 0.18 | | | | | | | | | | | | 163.26 |
| **RH-TRAILER** | **mass GHG** | 3.26 | 2.65E-05 | 1.32E-04 | | | | | | | | | | | 3.26 | |
| | **$CO_2e$** | 3.26 | 7.011E-03 | 3.70E-03 | | | | | | | | | | | | 3.27 |
| **RH-GEN-WELL** | **mass GHG** | 2.74 | 2.22E-05 | 1.11E-04 | | | | | | | | | | | 2.74 | |
| | **$CO_2e$** | 2.74 | 5.89E-03 | 3.11E-03 | | | | | | | | | | | | 2.75 |
| **RH1-SSM** | **mass GHG** | 7.37 | - | 0.66 | | | | | | | | | | | 8.02 | |
| | **$CO_2e$** | 7.37 | - | 18.37 | | | | | | | | | | | | 25.73 |
| **RH2-SSM** | **mass GHG** | 7.55 | - | 255.73 | | | | | | | | | | | 263.28 | |
| | **$CO_2e$** | 7.55 | - | 7,160.51 | | | | | | | | | | | | 7,168.06 |
| **RH3-SSM** | **mass GHG** | 7.23 | - | 254.74 | | | | | | | | | | | 261.97 | |
| | **$CO_2e$** | 7.23 | - | 7,132.65 | | | | | | | | | | | | 7,139.88 |
| **RH4-SSM** | **mass GHG** | 4.05 | - | 153.54 | | | | | | | | | | | 157.59 | |
| | **$CO_2e$** | 4.05 | - | 4,299.15 | | | | | | | | | | | | 4,303.20 |
| **RH5-SSM** | **mass GHG** | 4.05 | - | 153.54 | | | | | | | | | | | 157.59 | |
| | **$CO_2e$** | 4.05 | - | 4,299.15 | | | | | | | | | | | | 4,303.20 |
| **RH6-SSM** | **mass GHG** | 4.07 | - | 152.58 | | | | | | | | | | | 156.66 | |
| | **$CO_2e$** | 4.07 | - | 4,272.32 | | | | | | | | | | | | 4,276.39 |
| **RHA-SSM** | **mass GHG** | 0.17 | - | 0.06 | | | | | | | | | | | 0.23 | |
| | **$CO_2e$** | 0.17 | - | 1.63 | | | | | | | | | | | | 1.80 |
| **RA2-SSM** | **mass GHG** | 0.71 | - | 0.23 | | | | | | | | | | | 0.94 | |
| | **$CO_2e$** | 0.71 | - | 6.50 | | | | | | | | | | | | 7.21 |
| **RH2-TO-5500-SSM** | **mass GHG** | 5,086.27 | - | 4.47 | | | | | | | | | | | 5,090.74 | |
| | **$CO_2e$** | 5,086.27 | - | 125.21 | | | | | | | | | | | | 5,211.48 |
| **RH4-TO-45500-SSM** | **mass GHG** | 4,033.44 | - | 3.50 | | | | | | | | | | | 4,036.94 | |
| | **$CO_2e$** | 4,033.44 | - | 97.89 | | | | | | | | | | | | 4,131.33 |
| **RH5-TO-55500-SSM** | **mass GHG** | 6,515.14 | - | 6.56 | | | | | | | | | | | 6,521.70 | |
| | **$CO_2e$** | 6,515.14 | - | 183.77 | | | | | | | | | | | | 6,698.91 |
| **RHA-REC-WINKLER** | **mass GHG** | 0.14 | - | 0.03 | | | | | | | | | | | 0.17 | |
| | **$CO_2e$** | 0.14 | - | 0.88 | | | | | | | | | | | | 1.02 |
| **RHA-REC-LIMESTONE-** | **mass GHG** | 0.05 | - | 0.01 | | | | | | | | | | | 0.06 | |
| | **$CO_2e$** | 0.05 | - | 0.28 | | | | | | | | | | | | 0.33 |

# Table 2-P: Greenhouse Gas Emissions (Tank Scenario 2)

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box ☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

| | | **$CO_2$** ton/yr | **$N_2O$** ton/yr | **$CH_4$** ton/yr | **$SF_6$** ton/yr | **PFC/HFC** ton/yr[2] | | | | | | | | | **Total GHG** Mass Basis ton/yr[4] | **Total $CO_2e$** ton/yr[5] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RH1-REC-PLANTVIEW** | **mass GHG** | 0.03 | - | 0.27 | | | | | | | | | | | 0.31 | |
| | **$CO_2e$** | 0.03 | - | 7.64 | | | | | | | | | | | | 7.67 |
| **RH1-REC-GUTLINE** | **mass GHG** | 0.22 | - | 1.82 | | | | | | | | | | | 2.04 | |
| | **$CO_2e$** | 0.22 | - | 51.02 | | | | | | | | | | | | 51.24 |
| **RH1-REC-ABU** | **mass GHG** | 0.08 | - | 0.71 | | | | | | | | | | | 0.79 | |
| | **$CO_2e$** | 0.08 | - | 19.81 | | | | | | | | | | | | 19.90 |
| **RH4-REC-24INCH** | **mass GHG** | 0.09 | - | 0.76 | | | | | | | | | | | 0.85 | |
| | **$CO_2e$** | 0.09 | - | 21.27 | | | | | | | | | | | | 21.36 |
| **RHA-REC-LIMESTONE-** | **mass GHG** | 3.73E-03 | - | 8.36E-04 | | | | | | | | | | | 4.57E-03 | |
| | **$CO_2e$** | 3.73E-03 | - | 0.02 | | | | | | | | | | | | 0.03 |
| **RA2-REC-GREYHOUND** | **mass GHG** | 0.08 | - | 0.02 | | | | | | | | | | | 0.10 | |
| | **$CO_2e$** | 0.08 | - | 0.53 | | | | | | | | | | | | 0.61 |
| **RHA-LAU-LIMESTONE-** | **mass GHG** | 3.73E-03 | - | 8.36E-04 | | | | | | | | | | | 4.57E-03 | |
| | **$CO_2e$** | 3.73E-03 | - | 0.02 | | | | | | | | | | | | 0.03 |
| **RH1-LAU-NGPL** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH1-LAU-TW** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH1-LAU-ETC** | **mass GHG** | 1.23E-04 | - | 0.04 | | | | | | | | | | | 0.04 | |
| | **$CO_2e$** | 1.23E-04 | - | 1.09 | | | | | | | | | | | | 1.09 |
| **RH1-LAU-ONEOK** | **mass GHG** | 1.23E-04 | - | 0.04 | | | | | | | | | | | 0.04 | |
| | **$CO_2e$** | 1.23E-04 | - | 1.09 | | | | | | | | | | | | 1.09 |
| **RH2-LAU-GPX** | **mass GHG** | 1.02E-03 | - | 0.32 | | | | | | | | | | | 0.32 | |
| | **$CO_2e$** | 1.02E-03 | - | 9.05 | | | | | | | | | | | | 9.05 |
| **RH-HAUL** | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **RH-FUG-1** | **mass GHG** | 14.42 | - | 167.37 | | | | | | | | | | | 181.79 | |
| | **$CO_2e$** | 14.42 | - | 4,686.32 | | | | | | | | | | | | 4,700.75 |
| **RH-FUG-2** | **mass GHG** | 29.72 | - | 223.00 | | | | | | | | | | | 252.73 | |
| | **$CO_2e$** | 29.72 | - | 6,244.08 | | | | | | | | | | | | 6,273.80 |
| **RHA-FUG** | **mass GHG** | 5.78 | - | 57.77 | | | | | | | | | | | 63.54 | |
| | **$CO_2e$** | 5.78 | - | 1,617.49 | | | | | | | | | | | | 1,623.27 |
| **RA2-FUG** | **mass GHG** | 10.07 | - | 100.85 | | | | | | | | | | | 110.91 | |
| | **$CO_2e$** | 10.07 | - | 2,823.67 | | | | | | | | | | | | 2,833.74 |
| | **mass GHG** | - | - | - | | | | | | | | | | | - | |
| | **$CO_2e$** | - | - | - | | | | | | | | | | | | - |
| **Total** | **mass GHG** | **731,360.41** | **1.29** | **4,728.60** | | | | | | | | | | | **736,090.30** | |
| | **$CO_2e$** | **731,360.41** | **342.79** | **132,400.84** | | | | | | | | | | | | **864,104.03** |

[1] **GWP** (Global Warming Potential): Applicants must use the most current GWPs codified in Table A-1 of 40 CFR part 98. GWPs are subject to change, therefore, applicants need to check 40 CFR 98 to confirm GWP values.

[2] For **HFCs** or **PFCs** describe the specific HFC or PFC compound and use a separate column for each individual compound.

[3] For each new compound, enter the appropriate GWP for each HFC or PFC compound from Table A-1 in 40 CFR 98.

[4] Green house gas emissions on a **mass basis** is the ton per year green house gas emission before adjustment with its GWP.

[5] **$CO_2e$** means Carbon Dioxide Equivalent and is calculated by multiplying the TPY mass emissions of the green house gas by its GWP.

# Section 3

# Application Summary

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The **Application Summary** shall include a brief description of the facility and its process, the type of permit application, the applicable regulation (i.e. 20.2.72.200.A.X, or 20.2.73 NMAC) under which the application is being submitted, and any air quality permit numbers associated with this site. If this facility is to be collocated with another facility, provide details of the other facility including permit number(s). In case of a revision or modification to a facility, provide the lowest level regulatory citation (i.e. 20.2.72.219.B.1.d NMAC) under which the revision or modification is being requested. Also describe the proposed changes from the original permit, how the proposed modification will affect the facility's operations and emissions, de-bottlenecking impacts, and changes to the facility's major/minor status (both PSD & Title V).

The **Process Summary** shall include a brief description of the facility and its processes.

**Startup, Shutdown, and Maintenance (SSM) routine or predictable emissions:** Provide an overview of how SSM emissions are accounted for in this application. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on SSM emissions.

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Targa Northern Delaware, LLC (Targa) owns and operates the Red Hills Gas Processing Plant (Red Hills) in Lea County, NM. Red Hills separates natural gas liquids and removes water, $H_2S$, $CO_2$, and other impurities from natural gas. Natural gas liquids and natural gas are transported offsite via sales pipelines. The facility currently operates under NSR Permit No. 4310-M6R3 and Title V Operating Permit No. P278-M2. This application is being submitted as a PSD Major Modification pursuant to 20.2.74.300.D NMAC. All sources at the site are being included as "new sources" in the PSD analysis. The heaters may require a physical modification with this permitting action in order to achieve the represented emission rates. With regard to changes from the current permit, Targa is seeking to (1) update calculation methodologies to the most recent New Mexico Environment Department (NMED) and AP-42 guidance; (2) update representations to more accurately reflect current operating scenarios; and (3) update emission limits based on changes to calculation methodologies, representations, and facility throughput. Changes to gas and liquid throughput changes are presented in the table below:

| Facility Throughputs | Gas Throughput (MMSCFD) | Condensate Throughput (bbl/y) | Sour Slop Water Throughput (bbl/y) | Slop Water Throughput (bbl/y) |
|---|---|---|---|---|
| **Current** | 1,210 | 2,341,900 | 31,950 | 88,944 |
| **Proposed** | 1,575 | 3,807,800 | 131,188 | 333,293 |

Methanol tanks (RH-TK-METHANOL) are being added to the permit as non-exempt units and will have a proposed throughput of 417,101 barrels per year.

With the proposed updates listed above, the following units will be modified. A high-level description of the changes made in this application are detailed below by train. Train 1 through Train 6 are sweet gas trains. FET-1 and FET-2 (front end treaters) are the sour gas trains.

**Train 1:**

| Unit ID | Application Changes |
|---|---|
| One (1) Hot Oil Heater (RH1-H-23-704) | Update heat duty to 42.50 MMBTU/hr and update emission factors. |
| One (1) Flare (RH1-FL-29-1003) | Update emissions based on equipment and activities routed to the flare. |
| One (1) TEG Regeneration System (RH1-TEG) | Increase gas throughput, update operating parameters, increase glycol recirculation rate. |
| One (1) Amine Regeneration System (RH1-AMINE) | Increase gas throughput, update operating parameters, increase amine recirculation rate. |

**Train 2:**

| Unit ID | Application Changes |
|---|---|
| One (1) Regeneration Gas Heater (RH2-H-741) | Update heat duty to 9.60 MMBTU/hr and update emission factors. |
| One (1) Cryo Hot Oil Heater (RH2-H-781) | Update heat duty to 13.20 MMBTU/hr and update emission factors. |
| One (1) TEG Reboiler (RH2-H-2301) | Update heat duty to 4 MMBTU/hr and update emission factors. |
| Two (2) Amine Hot Oil Heaters (RH2-H-0901 and RH2-H-1001) | Update heat duty to 75 MMBTU/hr and update emission factors. |
| One (1) Flare (RH2-FL-5100) | Update emissions based on equipment and activities routed to the flare. |
| One (1) TEG Regeneration System (RH2-TEG) | Update gas throughput, update operating parameters, update glycol recirculation rate. |
| One (1) Amine Regeneration System (RH2-AMINE) | Update gas throughput, update operating parameters, update amine recirculation rate. |
| One (1) Thermal Oxidizer (RH2-TO-5500) | Update emissions based on equipment and activities routed to the thermal oxidizer. |

**Train 3:**

| Unit ID | Application Changes |
|---|---|
| One (1) Regeneration Gas Heater (RH3-H-741) | Update heat duty to 9.20 MMBTU/hr and update emission factors. |
| One (1) Cryo Hot Oil Heater (RH3-H-781) | Update heat duty to 19.80 MMBTU/hr and update emission factors. |
| One (1) TEG Reboiler (RH3-H-6301) | Update heat duty to 4 MMBTU/hr and update emission factors. |
| One (1) Flare (RH3-FL-5100) | Update emissions based on equipment and activities routed to the flare. |
| One (1) TEG Regeneration System (RH3-TEG) | Increase gas throughput, update operating parameters, increase glycol recirculation rate. |

**Train 4:**

| Unit ID | Application Changes |
|---|---|
| One (1) Liquids In-Line Heater (RH4-H-41100) | Update heat duty to 13.16 MMBTU/hr and update emission factors. |
| One (1) Regeneration Gas Heater (RH4-H-741) | Update heat duty to 9.20 MMBTU/hr and update emission factors. |
| One (1) Cryo Hot Oil Heater (RH4-H-781) | Update heat duty to 22.30 MMBTU/hr and update emission factors. |
| Two (2) Amine Hot Oil Heaters (RH4-H-3901 and RH4-H-4001) | Update heat duty to 76.73 MMBTU/hr and update emission factors. |
| One (1) TEG Reboiler (RH4-H-5301) | Update heat duty to 4 MMBTU/hr and update emission factors. |
| One (1) Flare (RH4-FL-45100) | Update emissions based on equipment and activities routed to the flare. |
| One (1) TEG Regeneration System (RH4-TEG) | Update gas throughput, update operating parameters, update glycol recirculation rate. |
| One (1) Amine Regeneration System (RH4-AMINE) | Update gas throughput, update operating parameters, update amine recirculation rate. |
| One (1) Thermal Oxidizer (RH4-TO-45500) | Update emissions based on equipment and activities routed to the thermal oxidizer. |

**Train 5:**

| Unit ID | Application Changes |
|---|---|
| Two (2) Amine/TEG Hot Oil Heaters (RH5-H-50902 and RH5-H-50001 | Update heat duty to 89.94 MMBTU/hr and update emission factors. |
| One (1) Regeneration Gas Heater (RH5-H-50741) | Update heat duty to 9.08 MMBTU/hr and update emission factors. |
| One (1) Cryo Hot Oil Heater (RH5-H-50781) | Update heat duty to 33.99 MMBTU/hr and update emission factors. |
| One (1) Flare (RH5-FL-55100) | Update emissions based on equipment and activities routed to the flare. |
| One (1) TEG Regeneration System (RH5-TEG) | Update gas throughput, update operating parameters, update glycol recirculation rate. |
| One (1) Amine Regeneration System (RH5-AMINE) | Update gas throughput, update operating parameters, update amine recirculation rate. |
| One (1) Thermal Oxidizer (RH5-TO-55500) | Update emissions based on equipment and activities routed to the thermal oxidizer. |

**Train 6:**

| Unit ID | Application Changes |
|---|---|
| One (1) Stabilizer Hot Oil Heater (RH6-H-60001) | Update heat duty to 89.94 MMBTU/hr and update emission factors. |
| One (1) Regeneration Gas Heater (RH6-H-60741) | Update heat duty to 9.10 MMBTU/hr and update emission factors. |
| One (1) Cryo Hot Oil Heater (RH6-H-60781) | Update heat duty to 33.85 MMBTU/hr and update emission factors. |
| One (1) TEG Regeneration System (RH6-TEG) | Update gas throughput, update operating parameters, update glycol recirculation rate. |

**Inlet Liquids:**

| Unit ID | Application Changes |
|---|---|
| One (1) Stabilizer Hot Oil Heater (RH1-H-1101) | Update heat duty to 22.30 MMBTU/hr and update emission factors. |
| One (1) Condensate Storage Tanks Flare (RH1-FL-2850) | Update emissions based on equipment and activities routed to the flare. |

**FET-1:**

| Unit ID | Application Changes |
|---|---|
| One (1) Amine Regeneration System (RHA-AMINE) | Update gas throughput, update operating parameters, update amine recirculation rate. |
| One (1) Amine Hot Oil Heater (RHA-H-4901) | Update heat duty to 33.90 MMBTU/hr and update emission factors. |
| Two (2) Flares (RHA-FL-5100 and RHA-FL-5850) | Update emissions based on equipment and activities routed to the flare. |

**FET-2:**

| Unit ID | Application Changes |
|---|---|
| One (1) Amine Regeneration System (RA2-AMINE) | Update gas throughput, update operating parameters, update amine recirculation rate |
| One (1) Hot Oil Heater (RA2-H-20001) | Update heat duty to 89.24 MMBTU/hr and update emission factors. |
| Two (2) Flares (RA2-FL-25100 and RA2-FL-25850) | Update emissions based on equipment and activities routed to the flare. |

Emissions will also result from the following new or updated units: Startup, shutdown, and maintenance emissions (RH1-SSM, RH2-SSM, RH3-SSM, RH4-SSM, RH5-SSM, RH6-SSM, RHA-SSM, RA2-SSM, RH2-TO-5500-SSM, RH4-TO-45500-SSM, and RH5-TO-55500-SSM), RH4 slop water storage tanks flare (RH4-FL-46200), haul road emissions (RH-HAUL), methanol storage tanks (RH-TK-METHANOL), generators (RH-GEN-1 through RH-GEN-10), a heater trailer (RH-TRAILER)4 , a water well generator (RH-GEN-WELL), and fugitive emissions (RH-FUG-1, RH-FUG-2, RHA-FUG, and RA2-FUG).

Liquid throughput changes are also requested for the following tank batteries: RH1-TK-COND-EAST, RHA-TK-SLOP, RH1-TK-COND-WEST, RA2-TK-SLOP, RH4-TK-SLOP, RH2-TK-SLOP, and RH1-TK-SLOP and associated loading activities (RHA-TK-SLOP-LOAD, RH1-TK-COND-WEST-LOAD, RA2-TK-SLOP-LOAD, RH4-TK-SLOP-LOAD, RH2-TK-SLOP-LOAD, and RH1-TK-SLOP-LOAD).

There are two scenarios for the slop tank battery at Train 4, RH4-TK-SLOP, and the associated loading, RH4-TK-SLOP-LOAD. RH4-TK-SLOP may receive a combination of condensate, produced water, and slop water from various process streams at the facility. In Tank Scenario 1, up to 19,860 bbls/yr of condensate are routed to the tanks and the emissions from the tanks and associated loading are controlled by a new flare, RH4-FL-46200, with a 98% DRE. Note that the condensate contribution does not constitute the entire flowrate to this set of tanks, but rather a subset. In Tank Scenario 2, up to 120.7 bbls/yr of condensate are routed to the tanks as the condensate streams that were previously routed to this tank battery will be rerouted to another part of facility's process. The rerouting of these streams will require the installation of additional piping at the facility and associated fugitives. Note that the condensate contribution does not constitute the entire flowrate to this set of tanks, but rather a subset. In this scenario, RH4-TK-SLOP and associated loading RH4-TK-SLOP-LOAD remain uncontrolled. Additional details regarding these operating scenarios are detailed in Section 15. The UA2 tables have been represented with both Tank Scenario 1 and Tank Scenario 2 as appropriate.

In addition to the above, Targa will be completing two projects that will add fugitive only emissions. The first is to install a 16" jumper line between the 24" Red Hills South residue line and the 24" WWM/CGP interconnect and also involves the addition of 600 feet of buried pipeline. The second is to install 2 16" headers to separate the common treated gas header into separate cryogenic inlets and involves the construction of 1,200 feet of above ground pipeline.

In addition to the changes detailed above, Targa is seeking to update the emission unit IDs and equipment description for all units at this facility. A cross-reference table organized by unit type is included below:

| Heaters and Reboilers | | | |
|---|---|---|---|
| **Previous Unit Number** | **Previous Unit Description** | **New Unit Number** | **New Unit Description** |
| 1-EP-1 | RH1 HMO Heater | RH1-H-23-704 | HOT OIL HEATER |
| 1.5-EP-1g | RH1 Condensate Stabilization HMO Heater | RH1-H-1101 | STABILIZER HOT OIL HEATER |
| 2-EP-1a | RH2 Mol Sieve Regen Gas Heater | RH2-H-741 | REGEN GAS HEATER |
| 2-EP-1b | RH2 Cryo HMO Heater | RH2-H-781 | CRYO HOT OIL HEATER |
| 2-EP-1e | RH2 Direct-Fired TEG Reboiler | RH2-H-2301 | TEG REBOILER |
| 2-EP-1h | RH2 Amine HMO Heater | RH2-H-0901 | AMINE HOT OIL HEATER |
| 2a-EP-1d | RH2 Amine HMO Heater | RH2-H-1001 | AMINE HOT OIL HEATER |
| 2.5-EP-1d | AGI-1 HMO Heater | RHA-H-4901 | AMINE HOT OIL HEATER |
| 3-EP-1a | RH3 Mol Sieve Regen Gas Heater | RH3-H-741 | REGEN GAS HEATER |
| 3-EP-1b | RH3 Cryo HMO Heater | RH3-H-781 | CRYO HOT OIL HEATER |
| 3-EP-1e | RH# Direct-Fired TEG Reboiler | RH3-H-6301 | TEG REBOILER |
| 4-EP-1a | RH4 Mol Sieve Regen Gas Heater | RH4-H-741 | REGEN GAS HEATER |
| 4-EP-1b | RH4 Cry HMO Heater | RH4-H-781 | CRYO HOT OIL HEATER |
| 4-EP-1d | RH4 Amine HMO Heater | RH4-H-3901 | AMINE HOT OIL HEATER |
| 4-EP-1e | RH4 Direct-Fired TEG Reboiler | RH4-H-5301 | TEG REBOILER |
| 4-EP-1g | RH4 Condensate Heater | RH4-H-41100 | LIQUIDS IN-LINE HEATER |
| 4-EP-1h | RH4 Amine HMO Heater | RH4-H-4001 | AMINE HOT OIL HEATER |
| 5-EP-1a | RH5 Amine and TEG HMO Heater | RH5-H-50902 | AMINE/TEG HOT OIL HEATER |
| 5-EP-1b | RH5 Amine and TEG HMO Heater | RH5-H-50001 | AMINE/TEG HOT OIL HEATER |
| 5-EP-1c | RH5 Mol Sieve Regen Gas Heater | RH5-H-50741 | REGEN GAS HEATER |
| 5-EP-1d | RH5 Cryo HMO Heater | RH5-H-50781 | CRYO HOT OIL HEATER |

| Heaters and Reboilers | | | |
|---|---|---|---|
| **Previous Unit Number** | **Previous Unit Description** | **New Unit Number** | **New Unit Description** |
| 6-EP-1a | RH6/7 HMO Heater | RH6-H-60001 | STABILIZER HOT OIL HEATER |
| 6-EP-1c | RH6 Mol Sieve Regen Gas Heater | RH6-H-60741 | REGEN GAS HEATER |
| 6-EP-1d | RH6 Cryo HMO Heater | RH6-H-60781 | CRYO HOT OIL HEATER |
| 5.5-EP-1a | AGI-2 HMO Heater | RA2-H-20001 | HOT OIL HEATER |

| Flares | | | |
|---|---|---|---|
| **Previous Unit Number** | **Previous Unit Description** | **New Unit Number** | **New Unit Description** |
| 1-EP-2 | RH1 Flare | RH1-FL-29-1003 | FLARE |
| 2-EP-2a | RH2 Flare | RH2-FL-5100 | FLARE |
| 3-EP-2a | RH3 Flare | RH3-FL-5100 | FLARE |
| 4-EP-2a | RH4 Flare | RH4-FL-45100 | FLARE |
| 5-EP-2 | RH5 Flare | RH5-FL-55100 | FLARE |
| 2.5-EP-5 | AGI-1 Flare | RHA-FL-5100 | FLARE |
| 5.5-EP-1b | AGI-2 Flare | RA2-FL-25100 | FLARE |
| EP-9 | AGI-1 Sour Slop Tank Flare | RHA-FL-5850 | SOUR SLOP WATER STORAGE TANKS FLARE |
| EP-13 | AGI-2 Sour Slop Tanks Flare | RA2-FL-25850 | SOUR SLOP WATER STORAGE TANKS FLARE |
| RH1-FL-2850 | Condensate Tank Flare | RH1-FL-2850 | CONDENSATE STORAGE TANKS FLARE |
| N/A | N/A | RH4-FL-46200 | RH4 SLOP WATER STORAGE TANKS FLARE |

| Dehydrators | | | |
|---|---|---|---|
| **Previous Unit Number** | **Previous Unit Description** | **New Unit Number** | **New Unit Description** |
| 1-EP-3 | RH1 TEG Regeneration | RH1-TEG | RH1, TEG REGENERATION SYSTEM |
| 2a-EP-3 | RH2 TEG Regeneration | RH2-TEG | RH2, TEG REGENERATION SYSTEM |
| 3-EP-3 | RH3 TEG Regeneration | RH3-TEG | RH3, TEG REGENERATION SYSTEM |

| Dehydrators | | | |
|---|---|---|---|
| **Previous Unit Number** | **Previous Unit Description** | **New Unit Number** | **New Unit Description** |
| 4-EP-3 | RH4 TEG Regeneration | RH4-TEG | RH4, TEG REGENERATION SYSTEM |
| 5-EP-1e | RH5 TEG Regeneration | RH5-TEG | RH5, TEG REGENERATION SYSTEM |
| 6-EP-1e | RH6 TEG Regeneration | RH6-TEG | RH6, TEG REGENERATION SYSTEM |

| Amine Units | | | |
|---|---|---|---|
| **Previous Unit Number** | **Previous Unit Description** | **New Unit Number** | **New Unit Description** |
| 1-EP-4 | RH1 Amine Regeneration | RH1-AMINE | RH1, AMINE REGENERATION SYSTEM |
| 2-EP-4 | RH2 Amine Regeneration | RH2-AMINE | RH2, AMINE REGENERATION SYSTEM |
| 2.5-EP-4 | AGI-1 Amine Regeneration | RHA-AMINE | RHA, AMINE REGENERATION SYSTEM |
| 4-EP-4 | RH4 Amine Regeneration | RH4-AMINE | RH4, AMINE REGENERATION SYSTEM |
| 5-EP-1f | RH5 Amine Regeneration | RH5-AMINE | RH5, AMINE REGENERATION SYSTEM |
| 5.5-EP-1c | AGI-2 Amine Regeneration | RA2-AMINE | RA2, AMINE REGENERATION SYSTEM |

| Thermal Oxidizers | | | |
|---|---|---|---|
| **Previous Unit Number** | **Previous Unit Description** | **New Unit Number** | **New Unit Description** |
| EP-5 | RH-2 Thermal Oxidizer | RH2-TO-5500 | RH2 THERMAL OXIDIZER |
| EP-8 | RH4 Thermal Oxidizer | RH4-TO-45500 | RH4 THERMAL OXIDIZER |
| EP-10 | RH5 Thermal Oxidizer | RH5-TO-55500 | RH5 THERMAL OXIDIZER |

| Tanks | | | |
|---|---|---|---|
| **Previous Unit Number** | **Previous Unit Description** | **New Unit Number** | **New Unit Description** |
| 1-T | RH1 East Condensate Storage Tanks | RH1-TK-COND-EAST | RH1, TK-20101-20106, EAST CONDENSATE STORAGE TANKS |
| 2-T | AGI-1 Sour Slop Tanks | RHA-TK-SLOP | RHA, TK-6100-6200, SOUR SLOP WATER STORAGE TANKS |
| 3-T | RH1 West Condensate Storage Tanks | RH1-TK-COND-WEST | RH1, TK-20107-20112, WEST CONDENSATE STORAGE TANKS |
| 4-T | AGI-2 Sour Slop Tanks | RA2-TK-SLOP | RA2, TK-26100-26200, SOUR SLOP WATER STORAGE TANKS |
| 5-T | RH4 Slop Tanks | RH4-TK-SLOP | RH4, TK-46200-46230, SLOP WATER STORAGE TANKS |
| 6-T | RH2 Slop Tank | RH2-TK-SLOP | RH2, TK-6200, SLOP WATER STORAGE TANK |
| 7-T | RH1 Slop Tanks | RH1-TK-SLOP | RH1, TK-33-001-33-002, SLOP WATER STORAGE TANKS |
| MT-1 | Methanol Tanks | RH-TK-METHANOL | METHANOL STORAGE TANKS |

| Loading | | | |
|---|---|---|---|
| **Previous Unit Number** | **Previous Unit Description** | **New Unit Number** | **New Unit Description** |
| 2-LOAD | AGI-1 Sour Slop Tanks Truck Loading | RHA-TK-SLOP-LOAD | RHA, TK-6100-6200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING |
| 3-LOAD | RH1 West Condensate Tanks Truck Loading | RH1-TK-COND-WEST-LOAD | RH1, TK-20107-20112, WEST CONDENSATE STORAGE TANKS, TRUCK LOADING |
| 4-LOAD | AGI-2 Sour Slop Tanks Truck Loading | RA2-TK-SLOP-LOAD | RA2, TK-26100-26200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING |
| 5-LOAD | RH4 Slop Truck Loading | RH4-TK-SLOP-LOAD | RH4, TK-46200-46230, SLOP WATER STORAGE TANKS, TRUCK LOADING |
| 6-LOAD | RH2 Slop Truck Loading | RH2-TK-SLOP-LOAD | RH2, TK-6200, SLOP WATER STORAGE TANK, TRUCK LOADING |
| 7-LOAD | RH1 Slop Truck Loading | RH1-TK-SLOP-LOAD | RH1, TK-33-001-33-002, SLOP WATER STORAGE TANKS, TRUCK LOADING |

| Generators | | | |
|---|---|---|---|
| **Previous Unit Number** | **Previous Unit Description** | **New Unit Number** | **New Unit Description** |
| GEN-1 | Diesel Fired Generator | RH-GEN-1 | DIESEL FIRED GENERATOR |
| GEN-2 | Diesel Fired Generator | RH-GEN-2 | DIESEL FIRED GENERATOR |
| GEN-3 | Diesel Fired Generator | RH-GEN-3 | DIESEL FIRED GENERATOR |
| GEN-4 | Diesel Fired Generator | RH-GEN-4 | DIESEL FIRED GENERATOR |

| | | | |
|---|---|---|---|
| GEN-5 | Diesel Fired Generator | RH-GEN-5 | DIESEL FIRED GENERATOR |
| GEN-6 | Diesel Fired Generator | RH-GEN-6 | DIESEL FIRED GENERATOR |
| GEN-7 | Diesel Fired Generator | RH-GEN-7 | DIESEL FIRED GENERATOR |
| GEN-8 | Diesel Fired Generator | RH-GEN-8 | DIESEL FIRED GENERATOR |
| GEN-9 | Diesel Fired Generator | RH-GEN-9 | DIESEL FIRED GENERATOR |
| GEN-10 | Diesel Fired Generator | RH-GEN-10 | DIESEL FIRED GENERATOR |
| Trailer-1 | Diesel-fired Heater Trailer | RH-TRAILER | DIESEL FIRED HEATER TRAILER |
| GEN-WW | Diesel-fired Water Well Generator | RH-GEN-WELL | DIESEL FIRED GENERATOR, WATER WELL |

| **Startup, Shutdown, Maintenance (SSM)** | | | |
|---|---|---|---|
| **Previous Unit Number** | **Previous Unit Description** | **New Unit Number** | **New Unit Description** |
| 1-EP-1t | Train 1 Venting SSM | RH1-SSM | RH1, SSM |
| 2-EP-1t | Train 2 Venting SSM | RH2-SSM | RH2, SSM |
| 3-EP-1t | Train 3 Venting SSM | RH3-SSM | RH3, SSM |
| 4-EP-1t | Train 4 Venting SSM | RH4-SSM | RH4, SSM |
| 5-EP-1t | Train 5 Venting SSM | RH5-SSM | RH5, SSM |
| 6-EP-1t | Train 6 Venting SSM | RH6-SSM | RH6, SSM |
| 2.5-EP-1t | Train 2.5 Venting SSM | RHA-SSM | RHA, SSM |
| 5.5-EP-1t | Train 5.5 Venting SSM | RA2-SSM | RA2, SSM |
| EP-5 SSM | EP-5 Downtime | RH2-TO-5500-SSM | RH2 THERMAL OXIDIZER, SSM |
| EP-8 SSM | EP-8 Downtime | RH4-TO-45500-SSM | RH4 THERMAL OXIDIZER, SSM |
| EP-11 | RH5 Thermal Oxidizer - SSM Atmospheric Venting | RH5-TO-55500-SSM | RH5 THERMAL OXIDIZER, SSM |

| **Pigging** | | | |
|---|---|---|---|
| **Previous Unit Number** | **Previous Unit Description** | **New Unit Number** | **New Unit Description** |
| REC-1 | Winkler Inlet Receiver | RHA-REC-WINKLER | RHA, WINKLER INLET PIG RECEIVER |

| Pigging | | | |
|---|---|---|---|
| **Previous Unit Number** | **Previous Unit Description** | **New Unit Number** | **New Unit Description** |
| REC-2 | Limestone 8-inch Inlet Receiver | RHA-REC-LIMESTONE-8INCH | RHA, LIMESTONE 8-INCH INLET PIG RECEIVER |
| REC-3 | Plantview Inlet Loop Receiver | RH1-REC-PLANTVIEW | RH1, PLANTVIEW INLET LOOP PIG RECEIVER |
| REC-4 | Gutline Inlet Receiver | RH1-REC-GUTLINE | RH1, GUTLINE INLET PIG RECEIVER |
| REC-5 | Abu Inlet Receiver | RH1-REC-ABU | RH1, ABU INLET PIG RECEIVER |
| REC-6 | 24-inch Inlet Loop Receiver | RH4-REC-24INCH | RH4, 24-INCH INLET LOOP PIG RECEIVER |
| REC-8 | Limestone 10-inch Inlet Receiver | RHA-REC-LIMESTONE-10INCH | RHA, LIMESTONE 10-INCH INLET PIG RECEIVER |
| REC-9 | Bluehound Inlet Receiver | RA2-REC-GREYHOUND | RA2, GREYHOUND INLET PIG RECEIVER |
| LAU-1 | Limestone 10-inch Inlet Launcher | RHA-LAU-LIMESTONE-10INCH | RHA, LIMESTONE 10-INCH INLET PIG LAUNCHER |
| LAU-2 | NGPL Residue Launcher | RH1-LAU-NGPL | RH1, NGPL RESIDUE PIG LAUNCHER |
| LAU-3 | TW Residue Launcher | RH1-LAU-TW | RH1, TW RESIDUE PIG LAUNCHER |
| LAU-4 | ETC Lonestar NGL Launcher | RH1-LAU-ETC | RH1, ETC LONE STAR NGL PIG LAUNCHER |
| LAU-5 | ONEOK NGL Launcher | RH1-LAU-ONEOK | RH1, ONEOK NGL PIG LAUNCHER |
| LAU-6 | GPX NGL Launcher | RH2-LAU-GPX | RH2, GPX NGL PIG LAUNCHER |

| Haul Roads | | | |
|---|---|---|---|
| **Previous Unit Number** | **Previous Unit Description** | **New Unit Number** | **New Unit Description** |
| HAUL-1 | Haul emissions | RH-HAUL | HAUL ROAD EMISSIONS |

| Fugitives | | | |
|---|---|---|---|
| **Previous Unit Number** | **Previous Unit Description** | **New Unit Number** | **New Unit Description** |
| FUG | Fugitive Emissions | RH-FUG-1 | RH, FUGITIVE EMISSIONS |
| FUG-1 | Fugitive Emissions | RH-FUG-2 | RH, FUGITIVE EMISSIONS |
| FUG-AGI1 | Fugitive Emissions associated with AGI 1 | RHA-FUG | RHA, FUGITIVE EMISSIONS |
| FUG-AGI2 | Fugitive Emissions associated with AGI 2 | RA2-FUG | RA2, FUGITIVE EMISSIONS |

# Section 4

## Process Flow Sheet

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A **process flow sheet** and/or block diagram indicating the individual equipment, all emission points and types of control applied to those points. The unit numbering system should be consistent throughout this application.

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A process flow diagram is attached.

# Red Hills Gas Processing Plant

## Process Flow Diagram

## March 25, 2025

Train 1
Train 2
Train 3
Train 4
Train 5
Train 6
Train 7
AGI Train 1
AGI Train 2
Inlet Liquids

Legend
Energy Stream
Emissions Stream
Gas Stream
Liquids Stream

Limestone Gathering
11,000 ppm H2S
Amine Reboiler (2.5-EP-1d) 33.9 MMBTU/hr
Amine (2.5-EP-4) 67.3 MMSCFD
AGI 1 Flare (2.5-EP-5)
Vented SSM
Flared SSM
Startup, Shutdown, and Maintenance Emissions (SSM)
Compressor Downtime
AGI Compression
High Pressure Acid Gas to Well
AGI Well
Acid Gas
Sour Liquids to Tanks
Flare (EP-9)
Sour Water Tanks (2-T) 50 bbl/hr 438,000 bbl/yr
Sour Water Loading (2-LOAD)
Treated Gas

Limestone Gathering
2,897 – 12,573 ppm H2S
Amine Reboiler (5.5-EP-1a) 89.24 MMBTU/hr
Amine (5.5-EP-1c) 60 – 260 MMSCFD
AGI 2 Flare (5.5-EP-1b)
Compressor Downtime
AGI Compression
AGI Well
Acid Gas
Treated Gas
Flare (EP-13)
Sour Water Tanks (4-T) 3.65 bbl/hr 31,950 bbl/yr
Sour Water Loading (4-LOAD)

Inlet Gas Split Between All Trains

1000 BBL Finger Slug Catcher
1000 BBL Finger Slug Catcher
ECD (EP-12)
ECD (EP-7)
Condensate Storage Tanks (3-T)
Condensate Storage Tanks (1-T)
90,000 GAL Condensate Surge Tank
10,000 BPD Stabilizer
HMO Heater (1.5-EP-1g) 22.3 MMBTU/hr
Sweet Gas Inlet Pipeline

Amine Unit (1-EP-4) 70 MMSCFD
HMO Heater (1-EP-1) 42.5 MMBTU/hr
Glycol Dehydrator (1-EP-3) 67 MMSCFD
75 MMSCFD Cryo
Flare (1-EP-2)
Residue Compression
Residue Pipeline

Amine Unit (2-EP-4) 220 MMSCFD
Amine HMO Heater (2-EP-1h) 75 MMBTU/hr
Amine HMO Heater (2a-EP-1d) 75 MMBTU/hr
TO EP-5
Glycol Dehydrator (2a-EP-3) 215 MMSCFD
Mole Sieve Dehydration
200 MMSCFD Cryo
TEG Regenerator (2-EP-1e) 3.9 MMBTU/hr
Mole Sieve Heater (2-EP-1a) 9.6 MMBTU/hr
Cryo HMO Heater (2-EP-1b) 23.2 MMBTU/hr
Flare (2-EP-2a)
Residue Compression
Residue Pipeline

Amine Unit (3-EP-4) 260 MMSCFD
Amine HMO Heater (3-EP-1h) 75 MMBTU/hr
Amine HMO Heater (3-EP-1d) 75 MMBTU/hr
TEG Regenerator (3-EP-1e) 3.9 MMBTU/hr
Glycol Dehydrator (3-EP-3) 215 MMSCFD
Mole Sieve Heater (3-EP-1a) 9.2 MMBTU/hr
Mole Sieve Dehydration
Cryo HMO Heater (3-EP-1b) 22.3 MMBTU/hr
200 MMSCFD Cryo
Flare (3-EP-2a)
Residue Compression
Residue Pipeline

TO (EP-8)
Amine Unit (4-EP-4) 255 MMSCFD
Amine HMO Heater (4-EP-1h) 76.73 MMBTU/hr
Amine HMO Heater (4-EP-1d) 76.73 MMBTU/hr
Glycol Dehydrator (4-EP-3) 255 MMSCFD
TEG Regenerator (4-EP-1e) 3.9 MMBTU/hr
Mole Sieve Dehydration
Mole Sieve Heater (4-EP-1a) 9.2 MMBTU/hr
200 MMSCFD Cryo
Cryo HMO Heater (4-EP-1b) 22.3 MMBTU/hr
Flare (4-EP-2a)
Residue Compression
Residue Pipeline

Amine/Glycol Heater (5-EP-1a) 89.94 MMBTU/hr
Amine/Glycol Heater (5-EP-1b) 89.94 MMBTU/hr
Amine Unit (5-EP-1f) 260 MMSCFD
Glycol Dehydrator (5-EP-1e) 245 MMSCFD
Mole Sieve Dehydration
200 MMSCFD Cryo
Mole Sieve Heater (5-EP-1c) 9.08 MMBTU/hr
Cryo HMO Heater (5-EP-1d) 89.94 MMBTU/hr
TO (EP-10)
Flare 5-EP-2
Startup, Shutdown, and Maintenance Emissions (SSM)
Residue Compression
Residue Pipeline

Glycol Dehydrator (6-EP-1e) 245 MMSCFD
Mole Sieve Dehydration
200 MMSCFD Cryo
Amine/Glycol Heater (6-EP-1b) 89.94 MMBTU/hr
Mole Sieve Heater (6-EP-1c) 9.1 MMBTU/hr
Cryo HMO Heater (6-EP-1d) 33.85 MMBTU/hr
Residue Compression
Residue Pipeline

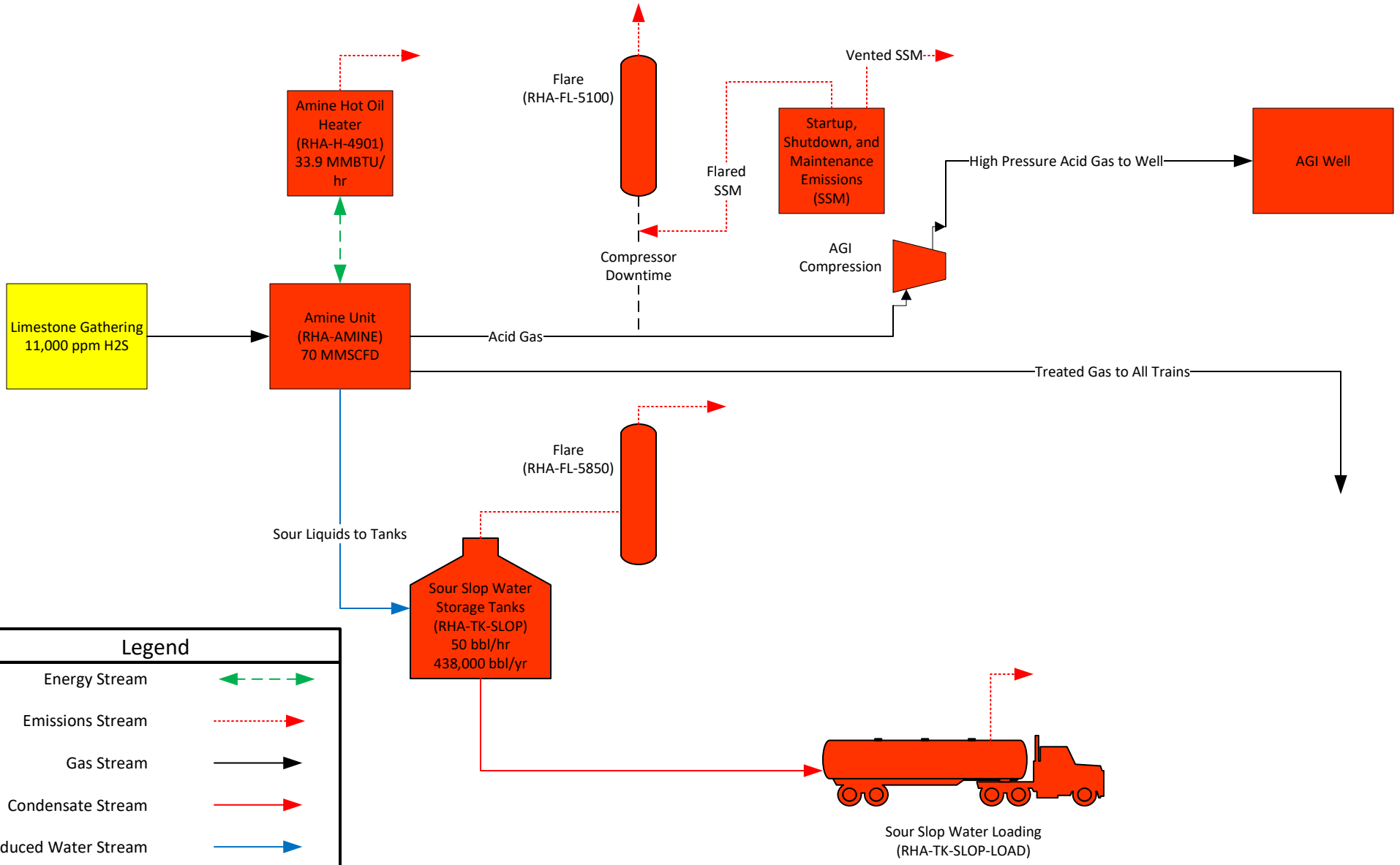
AGI Train 1

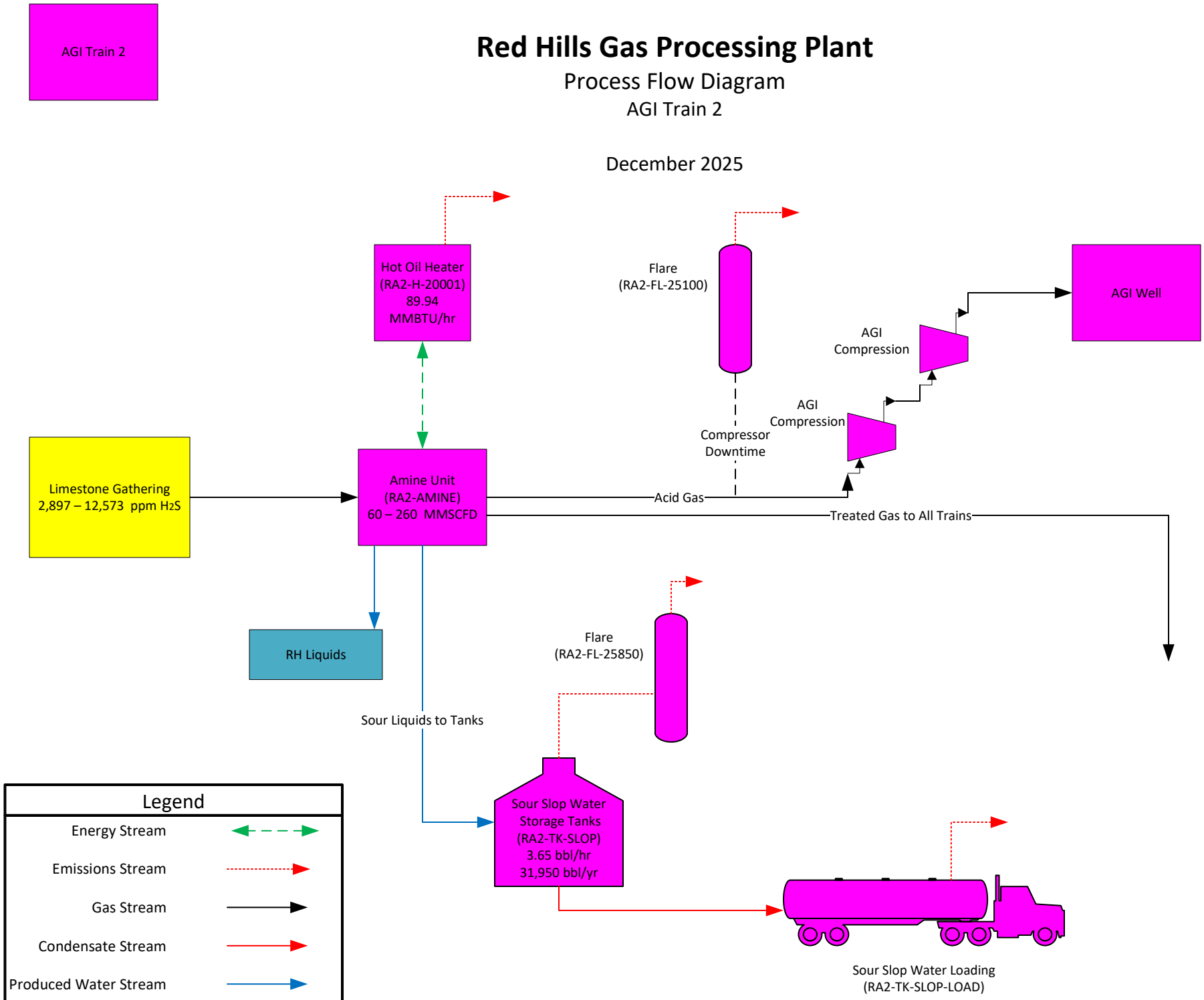
# Red Hills Gas Processing Plant

## Process Flow Diagram

### AGI Train 1

December 2025



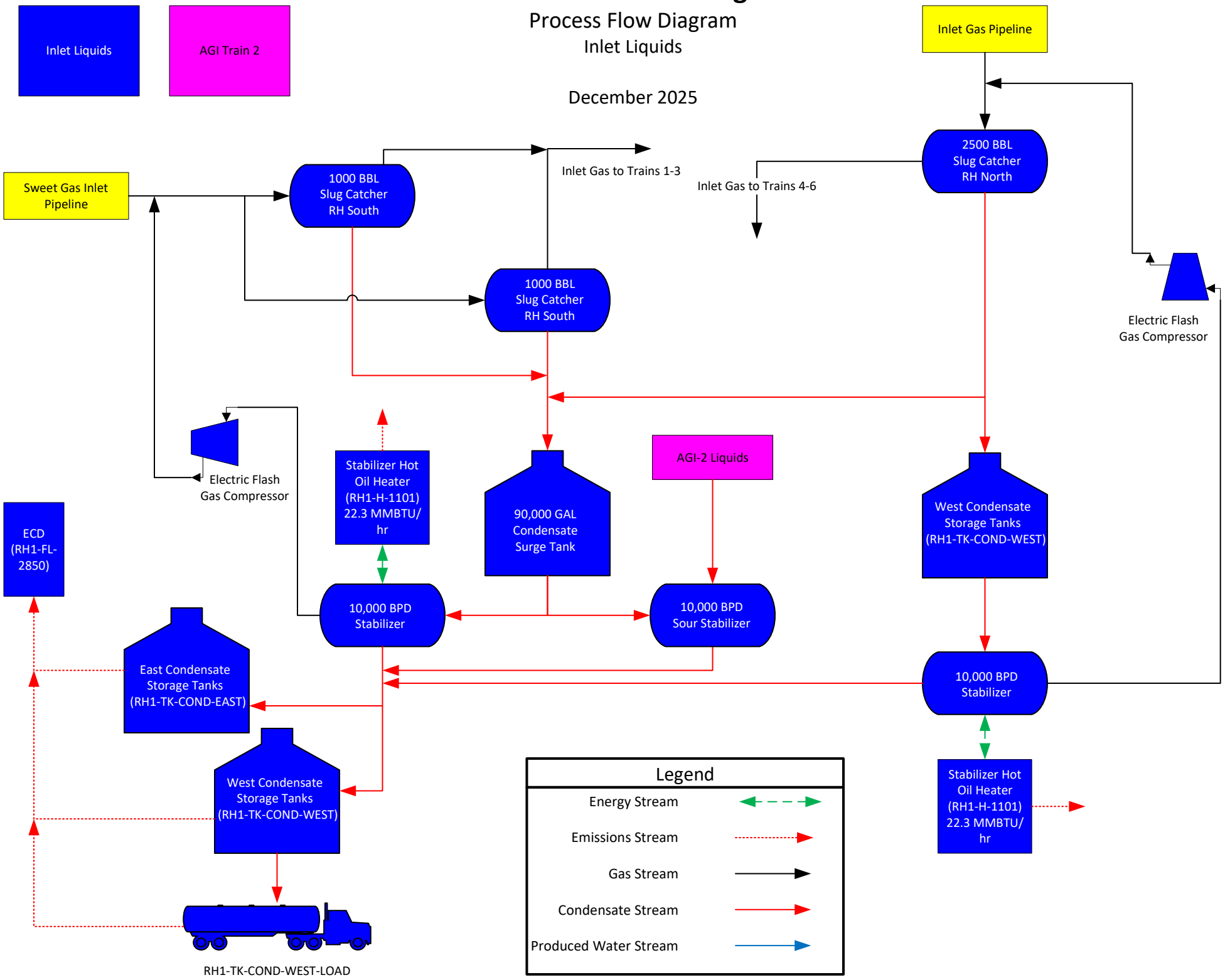

AGI Train 2
Red Hills Gas Processing Plant
Process Flow Diagram
AGI Train 2
December 2025
Hot Oil Heater
(RA2-H-20001)
89.94
MMBTU/hr
Flare
(RA2-FL-25100)
AGI Well
AGI
Compression
AGI
Compression
Compressor
Downtime
Limestone Gathering
2,897 – 12,573 ppm H2S
Amine Unit
(RA2-AMINE)
60 – 260 MMSCFD
Acid Gas
Treated Gas to All Trains
RH Liquids
Flare
(RA2-FL-25850)
Sour Liquids to Tanks
Sour Slop Water
Storage Tanks
(RA2-TK-SLOP)
3.65 bbl/hr
31,950 bbl/yr
Sour Slop Water Loading
(RA2-TK-SLOP-LOAD)
Legend
Energy Stream
Emissions Stream
Gas Stream
Condensate Stream
Produced Water Stream

# Red Hills Gas Processing Plant

## Process Flow Diagram

### Inlet Liquids

December 2025

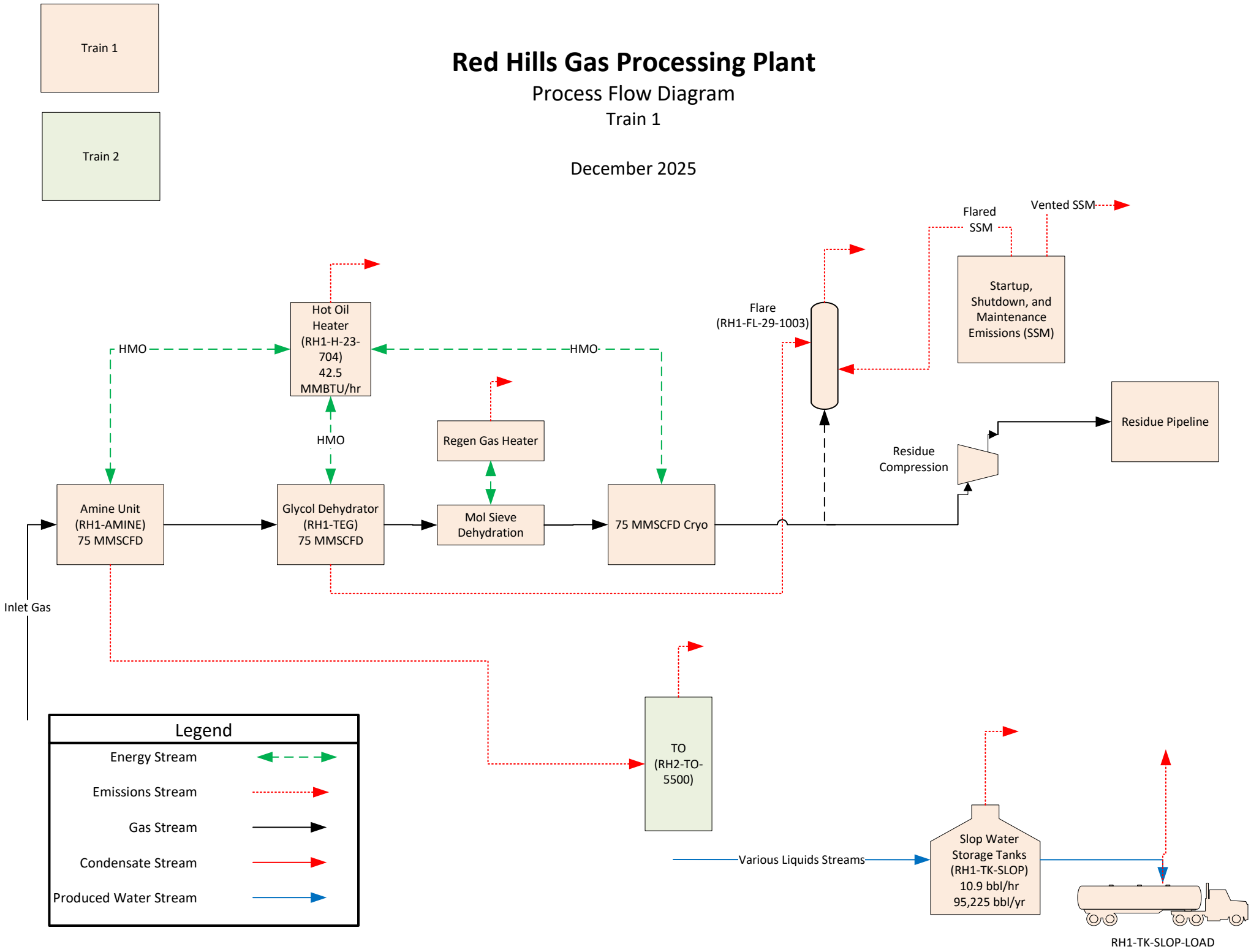


# Red Hills Gas Processing Plant

## Process Flow Diagram

Train 1

December 2025



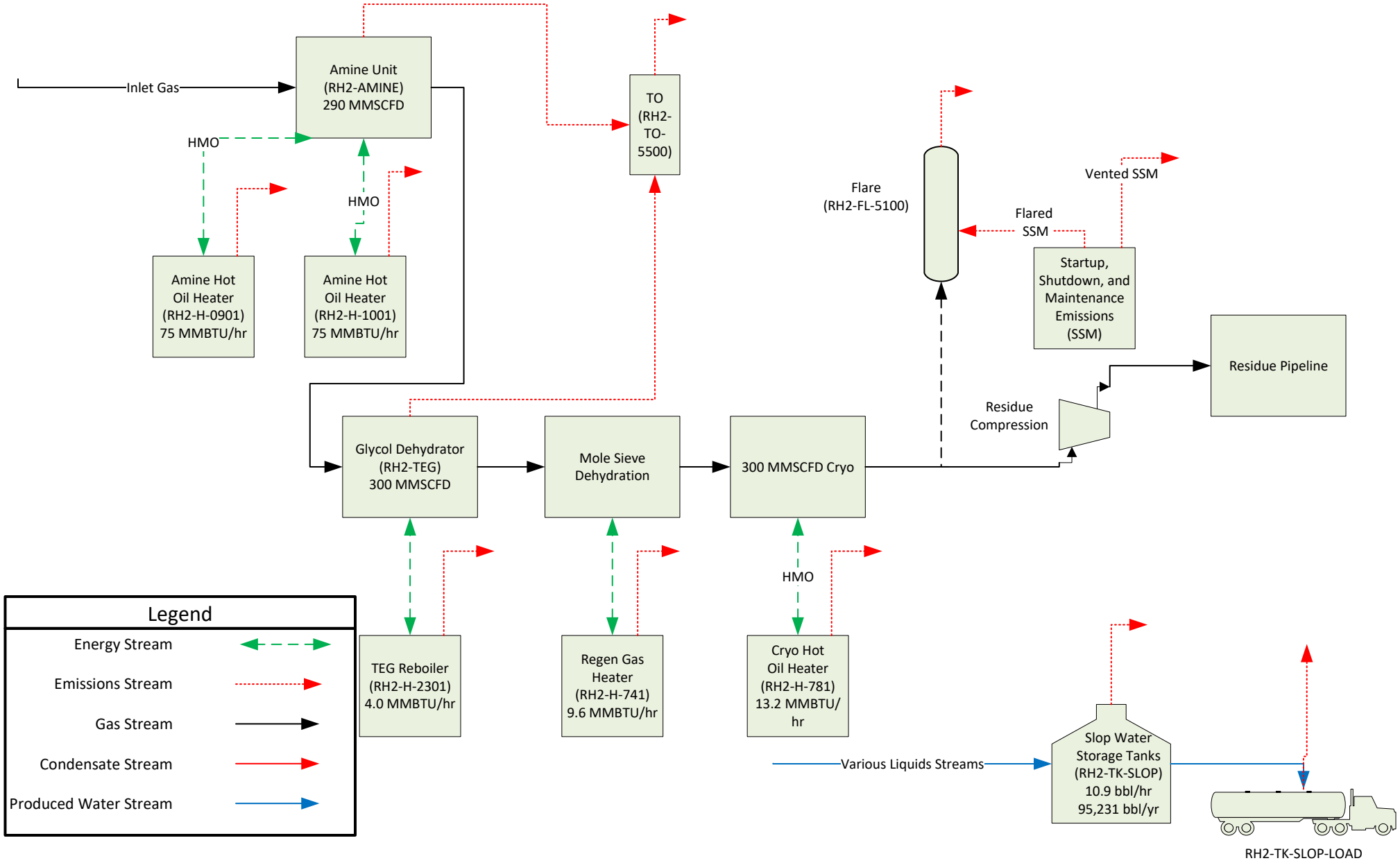
Train 2

# Red Hills Gas Processing Plant

## Process Flow Diagram

## Train 2

December 2025

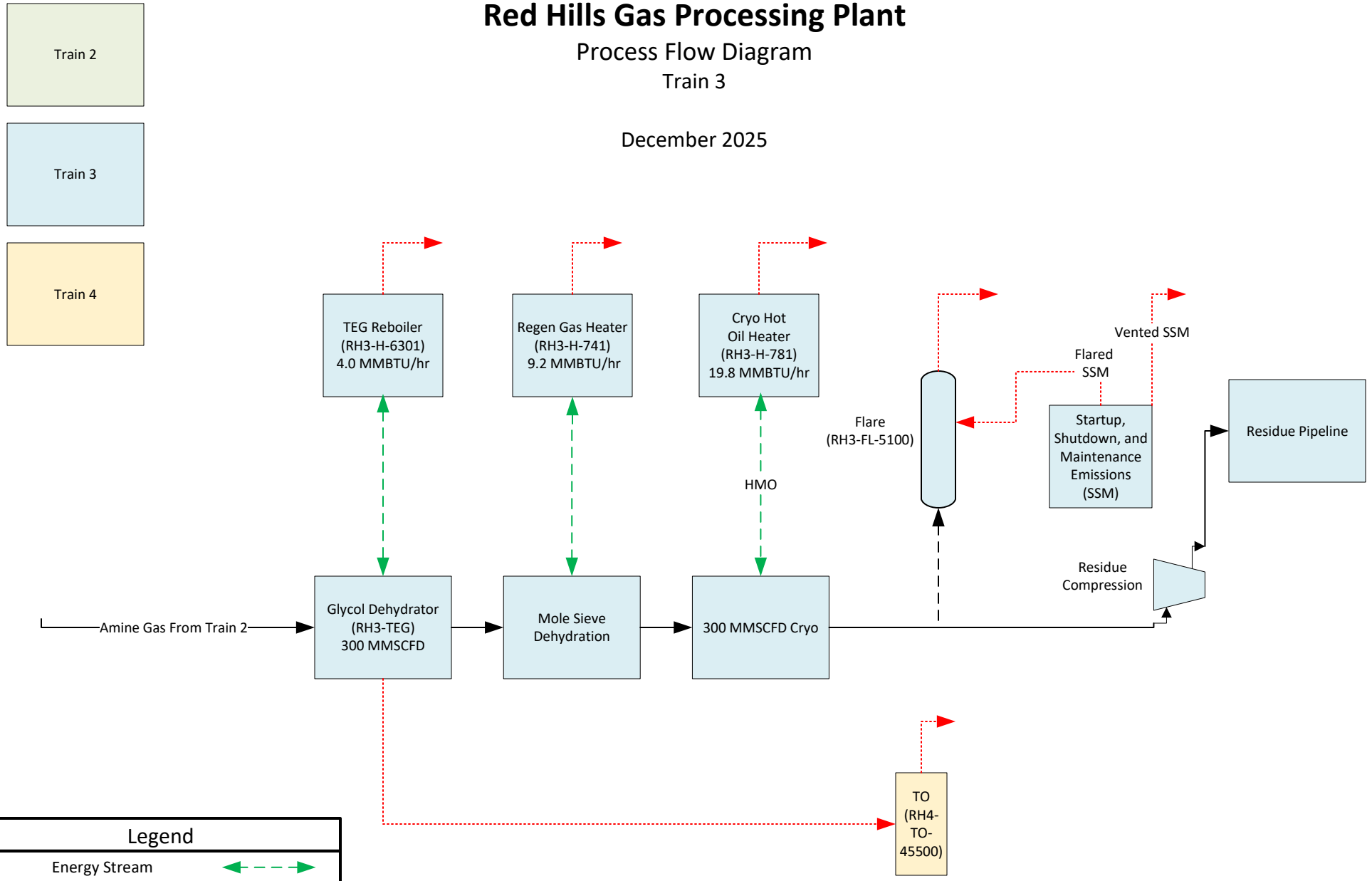


# Red Hills Gas Processing Plant

## Process Flow Diagram

Train 3

December 2025



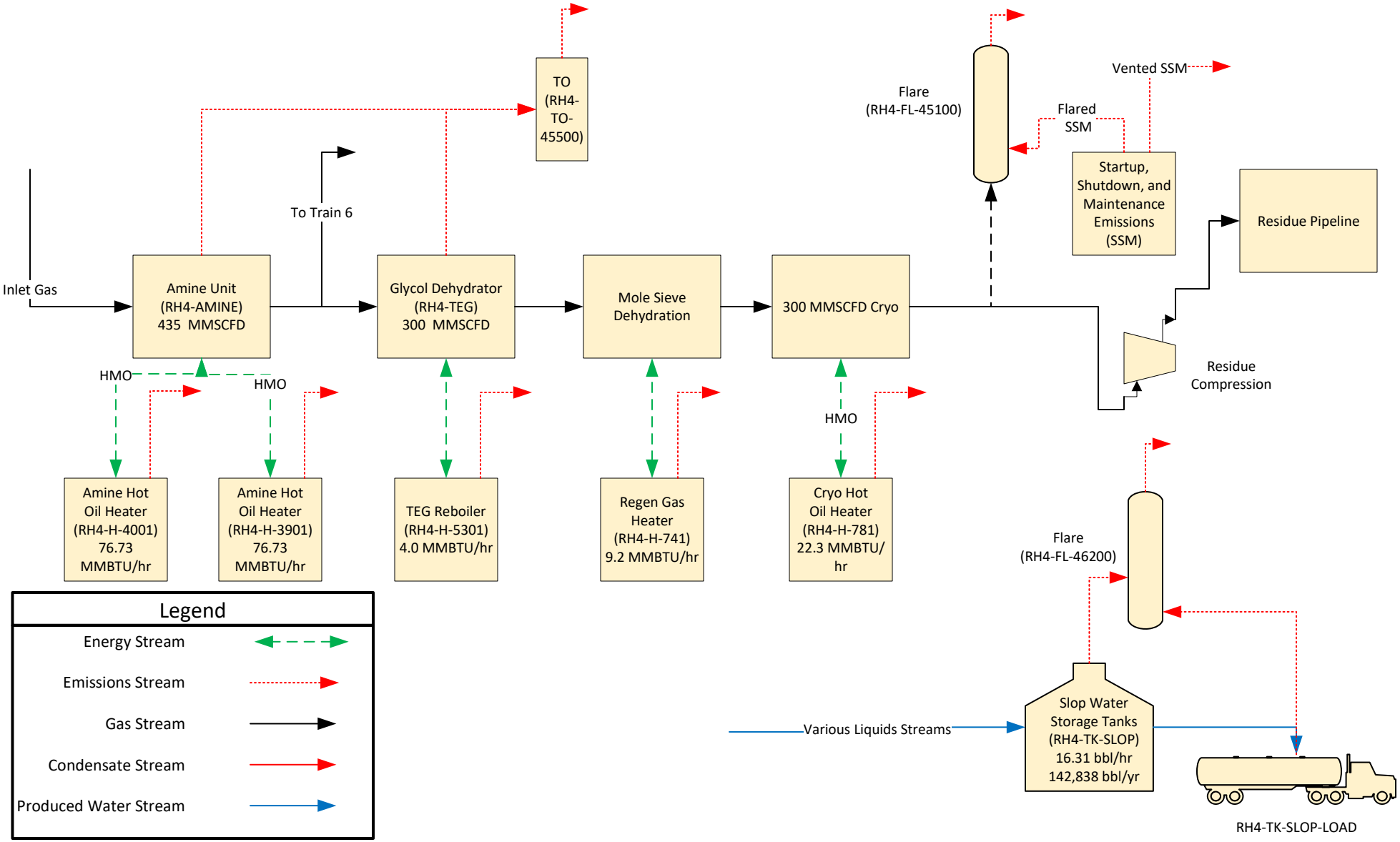
Train 4

# Red Hills Gas Processing Plant

## Process Flow Diagram

### Train 4 – Tank Scenario 1

December 2025



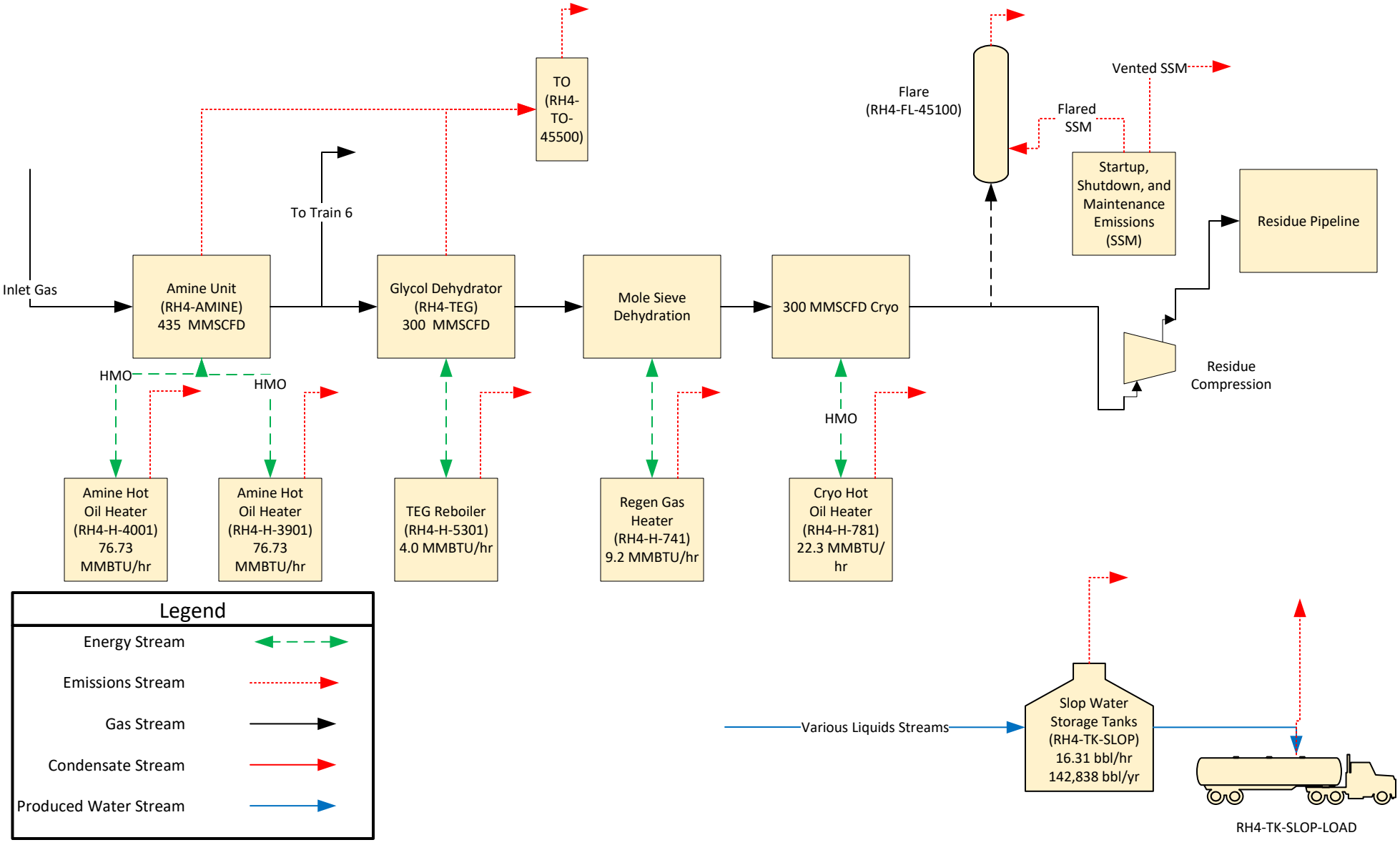
Train 4

# Red Hills Gas Processing Plant

## Process Flow Diagram

### Train 4 – Tank Scenario 2

December 2025



Train 5

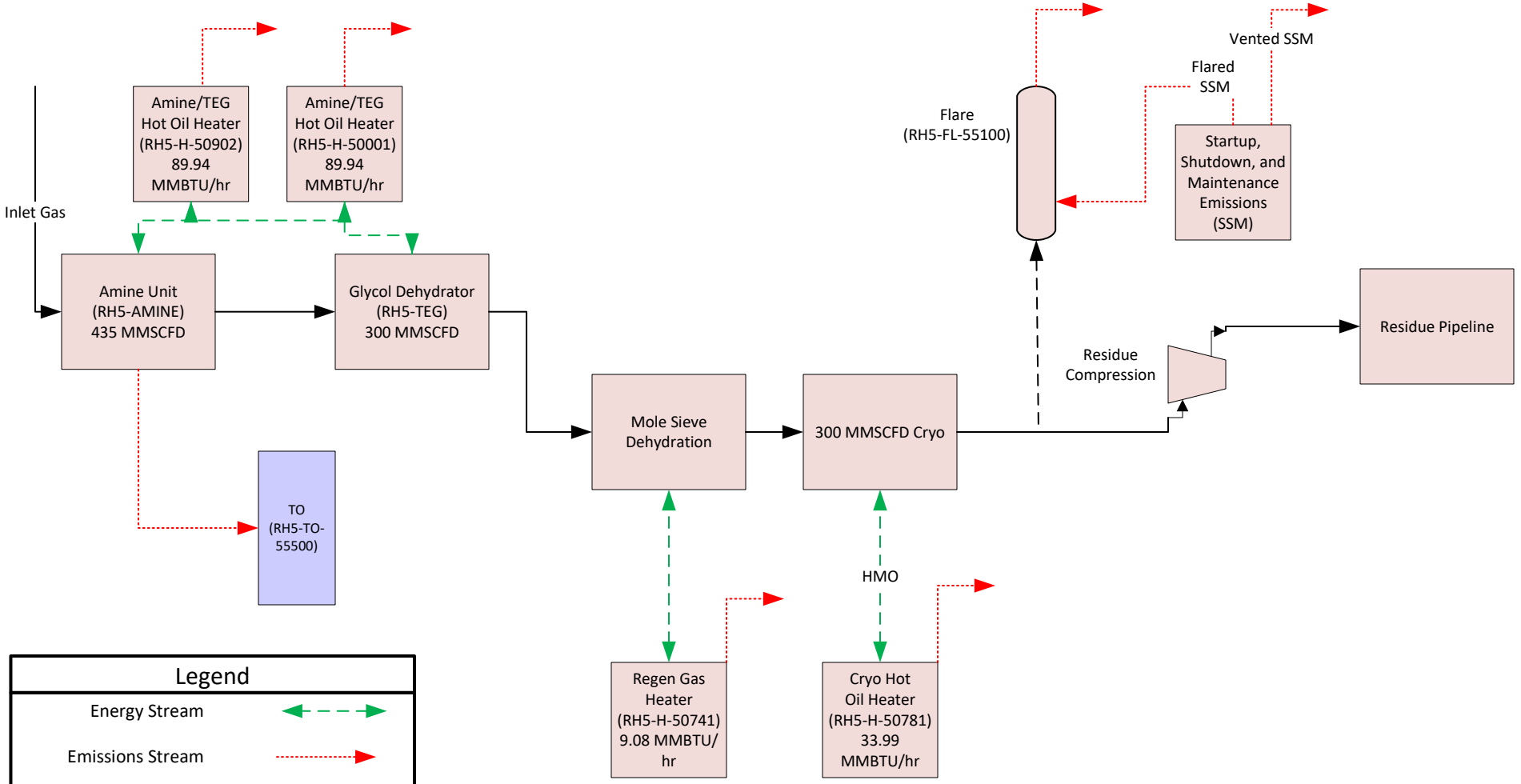
Train 6

# Red Hills Gas Processing Plant

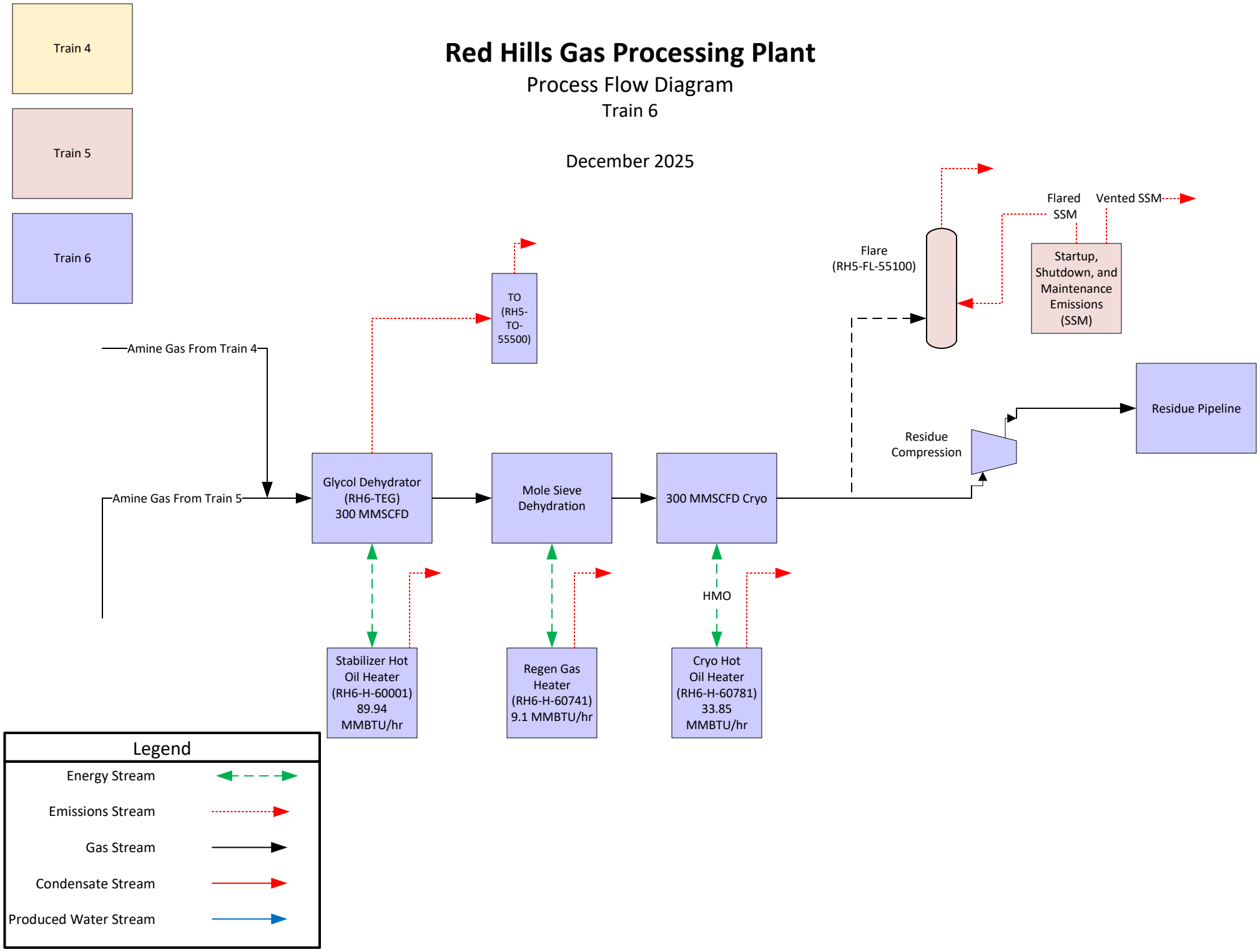
## Process Flow Diagram

Train 5

December 2025




| Legend | |
|---|---|
| Energy Stream | |
| Emissions Stream | |
| Gas Stream | |
| Condensate Stream | |
| Produced Water Stream | |


Train 4
Train 5
Train 6
Red Hills Gas Processing Plant
Process Flow Diagram
Train 6
December 2025
Flared SSM
Vented SSM
Flare (RH5-FL-55100)
Startup, Shutdown, and Maintenance Emissions (SSM)
TO (RH5-TO-55500)
Amine Gas From Train 4
Amine Gas From Train 5
Glycol Dehydrator (RH6-TEG) 300 MMSCFD
Mole Sieve Dehydration
300 MMSCFD Cryo
Residue Compression
Residue Pipeline
HMO
Stabilizer Hot Oil Heater (RH6-H-60001) 89.94 MMBTU/hr
Regen Gas Heater (RH6-H-60741) 9.1 MMBTU/hr
Cryo Hot Oil Heater (RH6-H-60781) 33.85 MMBTU/hr
Legend
Energy Stream
Emissions Stream
Gas Stream
Condensate Stream
Produced Water Stream

# Section 5

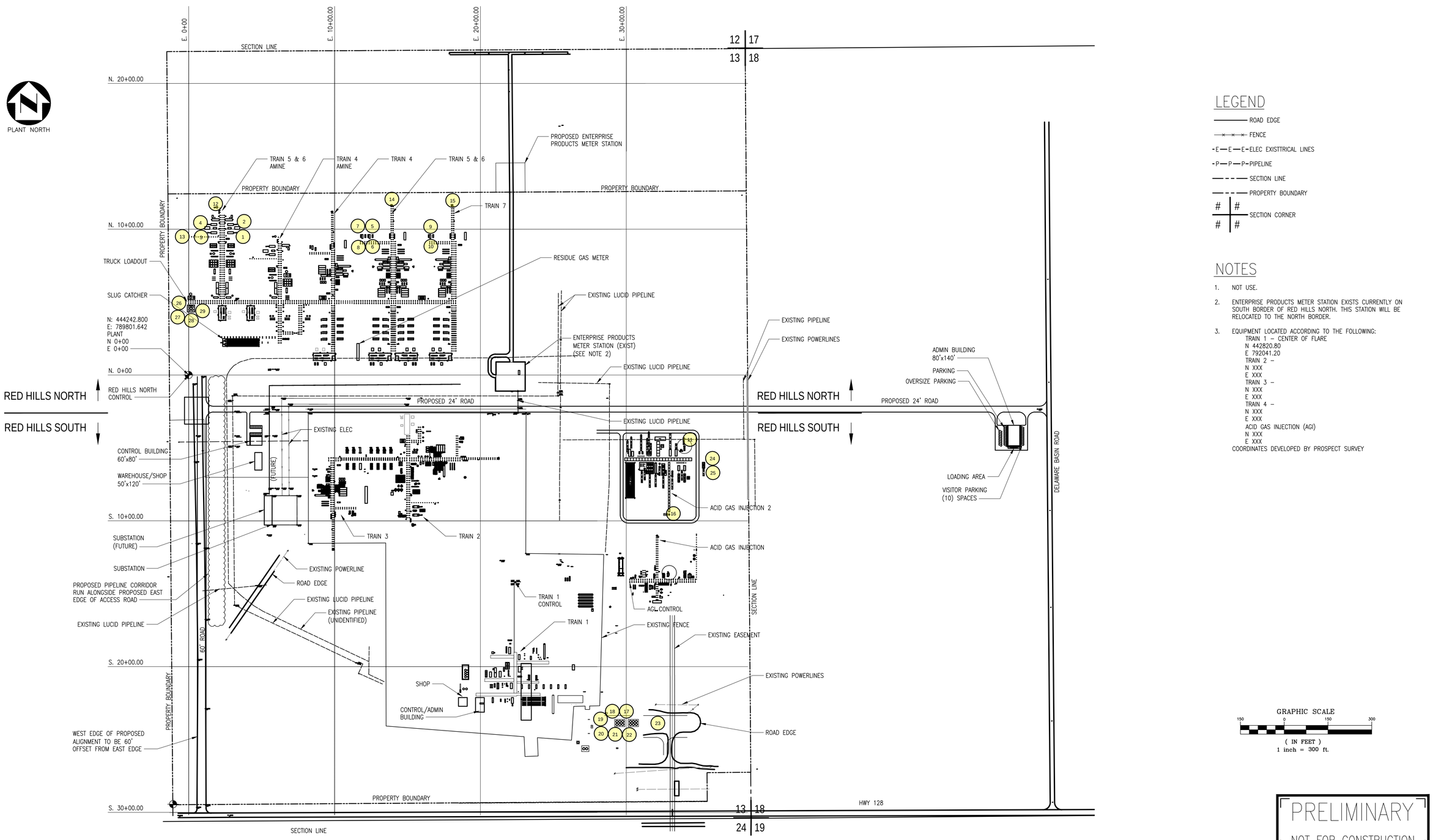
## Plot Plan Drawn To Scale

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A **plot plan drawn to scale** showing emissions points, roads, structures, tanks, and fences of property owned, leased, or under direct control of the applicant. This plot plan must clearly designate the restricted area as defined in UA1, Section 1-D.12. The unit numbering system should be consistent throughout this application.

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A facility plot plan is attached.




## LEGEND

- ROAD EDGE
- FENCE
- -E—E—E-ELEC EXISTTRICAL LINES
- -P—P—P-PIPELINE
- SECTION LINE
- PROPERTY BOUNDARY
- SECTION CORNER

## NOTES

1. NOT USE.
2. ENTERPRISE PRODUCTS METER STATION EXISTS CURRENTLY ON SOUTH BORDER OF RED HILLS NORTH. THIS STATION WILL BE RELOCATED TO THE NORTH BORDER.
3. EQUIPMENT LOCATED ACCORDING TO THE FOLLOWING:
   TRAIN 1 – CENTER OF FLARE
   N 442820.80
   E 792041.20
   TRAIN 2 –
   N XXX
   E XXX
   TRAIN 3 –
   N XXX
   E XXX
   TRAIN 4 –
   N XXX
   E XXX
   ACID GAS INJECTION (AGI)
   N XXX
   E XXX
   COORDINATES DEVELOPED BY PROSPECT SURVEY

GRAPHIC SCALE
150 0 150 300
( IN FEET )
1 inch = 300 ft.

PRELIMINARY
NOT FOR CONSTRUCTION

| DRAWING NO. | TITLE |
|---|---|
| | |

| REVISIONS | | | | |
|---|---|---|---|---|
| REV | DATE | BY | APP'D | DESCRIPTION |
| | | | | |

| REVISIONS | | | | |
|---|---|---|---|---|
| REV | DATE | BY | APP'D | DESCRIPTION |
| | | | | |

LUCID energy group

| REV | DATE | BY | APP'D | PRELIMINARY ISSUE |
|---|---|---|---|---|
| C | 05/09/19 | | | ISSUED FOR CLIENT REVIEW |
| B | 05/08/19 | | | ISSUED FOR CLIENT REVIEW |
| A | 04/22/19 | | | ISSUED FOR INTERNAL REVIEW |

| | | | |
|---|---|---|---|
| SCALE | AS SHOWN | MO DAY YR | |
| DRAWN | STS | 04/18/19 | |
| CHK'D | | | |
| APP'D | | | |
| APP'D | | | |
| APPROVED | | | |
| DATE | | | |
| PROJECT | 61526.00 | | |

Harris Group

CIVIL

SITE PLAN

RED HILLS PLANT
JAL, NEW MEXICO

DRAWING NUMBER C550001

REV C

P:\061526.00\st\Drawings\C550001.dwg 5/9/2019 ssamson

# Section 6

## All Calculations

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**Show all calculations** used to determine both the hourly and annual controlled and uncontrolled emission rates. All calculations shall be performed keeping a minimum of three significant figures. Document the source of each emission factor used (if an emission rate is carried forward and not revised, then a statement to that effect is required). If identical units are being permitted and will be subject to the same operating conditions, submit calculations for only one unit and a note specifying what other units to which the calculations apply. All formulas and calculations used to calculate emissions must be submitted. The "Calculations" tab in the UA2 has been provided to allow calculations to be linked to the emissions tables. Add additional "Calc" tabs as needed. If the UA2 or other spread sheets are used, all calculation spread sheet(s) shall be submitted electronically in Microsoft Excel compatible format so that formulas and input values can be checked. Format all spread sheets and calculations such that the reviewer can follow the logic and verify the input values. Define all variables. If calculation spread sheets are not used, provide the original formulas with defined variables. Additionally, provide subsequent formulas showing the input values for each variable in the formula. All calculations, including those calculations are imbedded in the Calc tab of the UA2 portion of the application, the printed Calc tab(s), should be submitted under this section.

**Tank Flashing Calculations**: The information provided to the AQB shall include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., NOI, permit, or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation.

**SSM Calculations**: It is the applicant's responsibility to provide an estimate of SSM emissions or to provide justification for not doing so. In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Section 2 SSM and/or Section 22 GHG Tables and the rational for why the others are reported as zero (or left blank in the SSM/GHG Tables). Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on calculating SSM emissions. If SSM emissions are greater than those reported in the Section 2, Requested Allowables Table, modeling may be required to ensure compliance with the standards whether the application is NSR or Title V. Refer to the Modeling Section of this application for more guidance on modeling requirements.

**Glycol Dehydrator Calculations**: The information provided to the AQB shall include the manufacturer's maximum design recirculation rate for the glycol pump. If GRI-Glycalc is used, the full input summary report shall be included as well as a copy of the gas analysis that was used.

**Road Calculations:** Calculate fugitive particulate emissions and enter haul road fugitives in Tables 2-A, 2-D and 2-E for:

1. If you transport raw material, process material and/or product into or out of or within the facility and have PER emissions greater than 0.5 tpy.
2. If you transport raw material, process material and/or product into or out of the facility more frequently than one round trip per day.

**Significant Figures:**

**A.** All emissions standards are deemed to have at least two significant figures, but not more than three significant figures.

**B.** At least 5 significant figures shall be retained in all intermediate calculations.

**C.** In calculating emissions to determine compliance with an emission standard, the following rounding off procedures shall be used:

**(1)** If the first digit to be discarded is less than the number 5, the last digit retained shall not be changed;

**(2)** If the first digit discarded is greater than the number 5, or if it is the number 5 followed by at least one digit other than the number zero, the last figure retained shall be increased by one unit; **and**

**(3)** If the first digit discarded is exactly the number 5, followed only by zeros, the last digit retained shall be rounded upward if it is an odd number, but no adjustment shall be made if it is an even number.

**(4)** The final result of the calculation shall be expressed in the units of the standard.

**Control Devices:** In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions. The applicant can indicate in this section of the

application if they chose to not take credit for the reduction in emission rates. For notices of intent submitted under 20.2.73 NMAC, only uncontrolled emission rates can be considered to determine applicability unless the state or federal Acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and/or if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

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# Amine Treating Units

## FET-1 and FET-2 Amine Treating (RHA-AMINE and RA2-AMINE)

Amine treating flash tank and regenerator stack emissions are calculated using a BR&E ProMax simulation. This simulation used a recent facility-specific gas analysis, dated November 16, 2022. Three different ProMax simulations are run for amine treating units RHA-AMINE and RA2-AMINE: High Inlet Gas Rate, $CO_2$ Slip, and High Inlet Acid Gas Content. The throughput and emissions for each amine treating unit are determined from the maximum values of the simulation results. The amine circulation rate remained constant for each amine treating unit between simulations. The worst-case scenario was used to determine emissions. Flash tank emissions are routed to the process with a capture efficiency of 100%. Regenerator stack emissions are routed to acid gas injection (AGI) wells using electric motor driven compressors. Regenerator stack emissions are routed to the corresponding flares (RHA-FL-5100 and RA2-FL-25100) with a DRE of 98% during startup, shutdown, or maintenance of the injection compressors or any operational conditions that would require the flaring of the regenerator stack emissions. The table below lists the specific throughput $CO_2$ and $H_2S$ content of the three simulations described above in addition to amine circulation rate, and control unit for amine treating units RHA-AMINE and RA2-AMINE.

| Amine Treating Unit | | RHA-AMINE | RA2-AMINE |
|---|---|---|---|
| High Inlet Gas Rate | Throughput (MMSCFD) | 70 | 175 |
| | Inlet mole fraction $CO_2$ | 5.5% | 8% |
| | Inlet mole fraction $H_2S$ | 0.3% | 0.5% |
| $CO_2$ Slip | Throughput (MMSCFD) | 40 | 105 |
| | Inlet mole fraction $CO_2$ | 8.4% | 8.3% |
| | Inlet mole fraction $H_2S$ | 0.5% | 1.1% |
| High Inlet Acid Gas Content | Throughput (MMSCFD) | 40 | 105 |
| | Inlet mole fraction $CO_2$ | 8.4% | 8.3% |
| | Inlet mole fraction $H_2S$ | 0.5% | 1.1% |
| Throughput (MMSCFD) (see details below regarding sliding scale throughput) | | 20 - 75 | 60 - 260 |
| Amine Circulation Rate (gpm) | | 415 | 1065 |
| Regenerator Stack Emission Control Unit | | Acid Gas Injection Well System, Flare (RHA-FL-5100) | Acid Gas Injection Well System, Flare (RA2-FL-25100) |

## Amine Treating (RH1-AMINE, RH2-AMINE, RH4-AMINE, and RH5-AMINE)

Amine treating flash tank and regenerator stack emissions are calculated using a BR&E ProMax simulation. The simulation uses a recent facility-specific gas analysis, dated November 16, 2022. Two different ProMax simulations are run for amine treating units RH1-AMINE, RH2-AMINE, RH4-AMINE, and RH5-AMINE: High Inlet Gas Rate and High Inlet $CO_2$. The throughput and emissions are determined from the maximum values of the simulation results. The amine circulation rate remained constant for each amine treating unit between simulations. Flash tank emissions are routed to the inlet with a capture efficiency of 100%. Regenerator stack emissions are routed to the corresponding thermal oxidizer (RH2-TO-5500 , RH4-TO-45500, and RH5-TO-55500) with a

DRE of 99%. Treated gas from the amine units is routed to glycol dehydration at Trains 1 to 6. Each unit operates with numerous regeneration towers, and dedicated still vents, flash tanks, and condensers. ProMax reports and process flow sheets are provided to demonstrate the overall routing for each unit. The table below lists the specific throughput and $CO_2$ content of the two simulations described above in addition to train connectivity, amine circulation rate, control unit, and control efficiency for each amine unit.

| **Amine Treating Unit** | | **RH1-AMINE** | **RH2-AMINE** | **RH4-AMINE** | **RH5-AMINE** |
|---|---|---|---|---|---|
| **High Inlet Gas Rate** | **Throughput (MMSCFD)** | 75 | 580 | 435 | 435 |
| | **Inlet mole fraction $CO_2$** | 4.5% | 2.8% | 3.6% | 3.6% |
| **High Inlet $CO_2$** | **Throughput (MMSCFD)** | 75 | 580 | 435 | 435 |
| | **Inlet mole fraction $CO_2$** | 5.6% | 5.5% | 5.6% | 5.6 % |
| **Train Dehydration** | | Train 1 | Trains 2 & 3 | Trains 4 & 6 | Trains 5 & 6 |
| **Amine Circulation Rate (gpm)** | | 420 | 1920 | 1920 | 2160 |
| **Regenerator Stack Emission Control Unit** | | Thermal Oxidizer (RH2-TO-5500) | Thermal Oxidizer (RH2-TO-5500) | Thermal Oxidizer (RH4-TO-45500) | Thermal Oxidizer (RH5-TO-55500) |
| **Control Unit DRE** | | 99% | 99% | 99% | 99% |

# Glycol Dehydration Units

**Glycol Dehydration (RH1-TEG, RH2-TEG, RH3-TEG, RH4-TEG, RH5-TEG, and RH6-TEG)**

Glycol dehydration regenerator and flash tank overhead emissions are calculated using a BR&E ProMax simulation. The simulation uses a recent facility-specific gas analysis, dated November 16, 2022. Three ProMax simulations are run: A maximum gas rate throughput, a minimum gas rate throughput, and a median gas rate throughput in order to capture the full profile of emissions at the various flowrates. The permitted throughput for each glycol dehydration unit is assumed to be the maximum gas rate throughput. The emissions are determined by taking the maximum emission rate of each pollutant between the three simulations. Each unit's TEG recirculation rate remained constant for all three simulations. Flash Tank overheads are recycled to the inlet with 100% capture efficiency and the non-condensable regenerator overheads are routed to either a flare or a thermal oxidizer with an assumed 100% capture efficiency. The table below lists the specific throughput, TEG recirculation rate, control unit, and control efficiency for each unit.

| Dehy Unit | RH1-TEG | RH2-TEG | RH3-TEG | RH4-TEG | RH5-TEG | RH6-TEG |
|---|---|---|---|---|---|---|
| Maximum Gas Rate Throughput (MMSCFD) | 75 | 300 | 300 | 300 | 300 | 300 |
| Median Gas Rate Throughput (MMSCFD) | 52.5 | 210 | 210 | 210 | 210 | 210 |
| Minimum Gas Rate Throughput (MMSCFD) | 30 | 120 | 120 | 120 | 120 | 120 |
| **TEG recirc rate (sgpm)** | 15.5 | 40 | 58 | 40 | 58 | 66.8 |
| **Regenerator overheads control device** | Train 1 Flare (RH1-FL-29-1003) | Thermal Oxidizer (RH2-TO-5500) | Thermal Oxidizer (RH2-TO-5500) | Thermal Oxidizer (RH4-TO-45500) | Thermal Oxidizer (RH5-TO-55500) | Thermal Oxidizer (RH5-TO-55500) |
| **Control Device DRE** | 98% | 99% | 99% | 99% | 99% | 99% |

# Heater and Reboiler Units

(RH2-H-741, RH2-H-2301, RHA-H-4901, RH3-H-6301, RH4-H-3901, RH4-H-5301, RH4-H-4001)
Except as noted in this paragraph, $NO_x$, VOC, and HAP emissions are calculated using AP-42 factors for external natural gas combustion sources in Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4. It is assumed that PM(Total) = $PM_{10}$ = $PM_{2.5}$. The 'Controlled – Low NOx burners' emission factors for small boilers (<100 MMBtu/hr) in Table 1.4-1 are used for Units RH4-H-3901 and RH4-H-4001. Greenhouse gas emissions are estimated using methodology from 40 CFR Part 98 and emission factors from Tables C-1 and C-2. Fuel gas is residue gas conservatively assumed to have a sulfur content of 0.25 gr S/100 scf based on site specification. Pipeline specification for residue gas is 4ppm (0.25 g S/100 scf). $SO_2$ emissions are based on 100% conversion of elemental sulfur to $SO_2$. CO and PM emission factors for RH2-H-741, RH2-H-2301, RH3-H-6301, and RH4-H-5301 are based on manufacturer guarantees. The NOx emission factor for RHA-H-4901, RH4-H-3901, and RH4-H-4001 is based on manufacturer specification of a concentration of 30 ppmv NOx @ 3% $O_2$..

| Heater Unit | Manufacturer Specifications | | | | AP-42 Emission Factors | |
|---|---|---|---|---|---|---|
| | NOx | CO | VOC* | PM | NOx | VOC* |
| | ppm @ 3% $O_2$ | lb/MMBtu | lb/MMBtu | lb/MMBtu | lb/MMscf | lb/MMscf |
| **RH2-H-741** | - | 0.037 | - | 0.0044 | 100 | 5.5 |
| **RH2-H-2301** | - | 0.037 | - | 0.0044 | 100 | 5.5 |
| **RHA-H-4901** | 30 | 0.037 | 0.0054 | 0.0044 | - | - |
| **RH3-H-6301** | - | 0.037 | - | 0.0044 | 100 | 5.5 |
| **RH4-H-3901** | 30 | 0.037 | 0.0054 | 0.0044 | - | - |
| **RH4-H-5301** | - | 0.037 | - | 0.0044 | 100 | 5.5 |
| **RH4-H-4001** | 30 | 0.037 | 0.0054 | 0.0044 | - | - |

* 5.5 lb/MMscf and 0.0054 lb/MMBtu emission factors are equal in value and are presented here as represented in the emission calculations.

(RH1-H-23-704, RH1-H-1101, RH2-H-781, RH3-H-741, RH3-H-781, RH4-H-41100, RH4-H-741, RH4-H-781, RH5-H-50902, RH5-H-50001, RH5-H-50741, RH5-H-50781, RA2-H-20001, RH6-H-60001, RH6-H-60741, RH6-H-60781)
$NO_x$, CO, VOC, and PM emissions are calculated using manufacturer guarantees. It is assumed that PM(Total) = $PM_{10}$ = $PM_{2.5}$. HAP emissions are calculated using AP-42 factors for external natural gas combustion sources in Tables 1.4-3 and 1.4-4. Greenhouse gas emissions are estimated using methodology from 40 CFR Part 98 and emission factors from Tables C-1 and C-2. Fuel gas is residue gas conservatively assumed to have a sulfur content of 0.25 gr S/100 scf. Pipeline specification for residue gas is 4ppm (0.25 g S/100 scf). $SO_2$ emissions are based on 100% conversion of elemental sulfur to $SO_2$.

| Heater Unit | Manufacturer Specifications | | | | |
|---|---|---|---|---|---|
| | NOx | | CO | VOC | PM |
| | ppm @ 3% $O_2$ | lb/MMBtu | lb/MMBtu | lb/MMBtu | lb/MMBtu |
| **RH1-H-23-704** | 30 | - | 0.037 | 0.0054 | 0.0044 |
| **RH1-H-1101** | 30 | - | 0.037 | 0.0054 | 0.0044 |
| **RH2-H-781** | 30 | - | 0.037 | 0.0054 | 0.007 |
| **RH3-H-741** | - | 0.053 | 0.037 | 0.0054 | 0.0044 |
| **RH3-H-781** | 30 | - | 0.037 | 0.0054 | 0.0044 |
| **RH4-H-41100** | - | 0.067 | 0.037 | 0.0054 | 0.0044 |
| **RH4-H-741** | - | 0.053 | 0.037 | 0.0054 | 0.0044 |
| **RH4-H-781** | 30 | - | 0.037 | 0.0054 | 0.0044 |
| **RH5-H-50902** | 30 | - | 0.037 | 0.0054 | 0.0044 |
| **RH5-H-50001** | 30 | - | 0.037 | 0.0054 | 0.0044 |
| **RH5-H-50741** | - | 0.053 | 0.037 | 0.0054 | 0.0044 |
| **RH5-H-50781** | 30 | - | 0.037 | 0.0054 | 0.0044 |
| **RA2-H-20001** | 30 | - | 0.037 | 0.0054 | 0.0044 |
| **RH6-H-60001** | 30 | - | 0.037 | 0.0054 | 0.0044 |
| **RH6-H-60741** | - | 0.053 | 0.037 | 0.0054 | 0.0044 |
| **RH6-H-60781** | 30 | - | 0.037 | 0.0054 | 0.0044 |

(RH2-H-0901, RH2-H-1001)
NOx and CO emissions are based on a manufacturer guarantee of 30 ppmv $NO_x$ @ 3% $O_2$ and 100 ppm CO @ 3% $O_2$. VOC and PM emissions are calculated using BACT emission factors. HAP emissions are calculated using AP-42 factors for external natural gas combustion sources in Tables 1.4-3 and 1.4-4. It is assumed that PM(Total) = $PM_{10}$ = $PM_{2.5}$. Greenhouse gas emissions are

estimated using methodology from 40 CFR Part 98 and emission factors from Tables C-1 and C-2. Fuel gas is residue gas conservatively assumed to have a sulfur content of 0.25 gr S/100 scf. Pipeline specification for residue gas is 4ppm (0.25 g S/100 scf). $SO_2$ emissions are based on 100% conversion of elemental sulfur to $SO_2$.

| Heater Unit | Manufacturer Specifications | | | |
|---|---|---|---|---|
| | NOx | CO | VOC | PM |
| | ppm @ 3% $O_2$ | ppm @ 3% $O_2$ | lb/MMBtu | lb/MMBtu |
| **RH2-H-1001** | 30 | 100 | 0.0054 | 0.0044 |
| **RH2-H-0901** | 30 | 100 | 0.0054 | 0.0044 |

# Storage Tanks

**Condensate Storage Tanks (RH1-TK-COND-EAST and RH1-TK-COND-WEST)**

Flashing, working, and breathing emissions are estimated using BR&E ProMax using a recent facility-specific condensate analysis, dated May 12, 2023. Each tank battery consists of six 500-bbl storage tanks, configured as three parallel sets of tanks, with each set containing two tanks that operate in series. Because the liquids from RH1-TK-COND-EAST and RH1-TK-COND-WEST are transported offsite via pipeline, the tanks operate as near constant-level tanks. However, RH1-TK-COND-WEST is also able to loadout via truck in the event of an issue with the outgoing pipeline system. When truck loading is required to transport liquids offsite, tank battery RH1-TK-COND-WEST operates as variable liquid height tanks.

Emissions from the condensate storage tanks are routed to the tank flare (RH1-FL-2850) with a 98% DRE. Controlled emissions are represented at RH1-FL-2850. RH1-TK-COND-EAST and RH1-TK-COND-WEST each have a total maximum throughput of 1,903,900 bbl/yr (79,963,800 gal/yr).

| Condensate Tank ID | RH1-TK-COND-EAST | RH1-TK-COND-WEST |
|---|---|---|
| Total Throughput (bbl/yr) | 1,903,900 | 1,903,900 |
| Number of Tanks | 6 | 6 |
| Unit(s) | TK-20101 through TK-20106 | TK-20107 through TK-20112 |
| Capacity of each Tank (bbl) | 500 | 500 |

**Sour Slop Water Storage Tanks (RHA-TK-SLOP and RA2-TK-SLOP)**

Flashing, working, and breathing emissions were estimated using the worst-case emission rates out of three different BR&E ProMax process simulations representing three different operating scenarios for the amine systems. Each set of tanks consists of two 500-bbl storage tanks. Emissions from the $H_2S$ sour slop storage tanks (RHA-TK-SLOP) are routed to the FET-1 sour slop tank flare (RHA-FL-5850) and emissions from the FET-2 sour slop tanks (RA2-TK-SLOP) are routed to the FET-2 sour slop tank flare (RA2-FL-25850), each with a 98% DRE. Controlled emissions are represented at RHA-FL-5850 and RA2-FL-25850. RHA-TK-SLOP and RA2-TK-SLOP have a maximum throughput of 235,550 bbl/yr (9,893,117 gal/yr) and 235,297 bbl/yr (9,882,486 gal/yr), respectively.

| Sour Slop Tank ID | RHA-TK-SLOP | RA2-TK-SLOP |
|---|---|---|
| Total Throughput (bbl/yr) | 235,550 | 235,297 |
| Number of Tanks | 2 | 2 |
| Unit(s) | TK-6100, TK-6200 | TK-26100, TK-26200 |
| Capacity of each Tank (bbl) | 500 | 500 |

**Slop Water Storage Tanks (RH4-TK-SLOP, RH2-TK-SLOP, and RH1-TK-SLOP)**

Flashing, working, and breathing emissions from the tanks are calculated using a BR&E ProMax simulation using a recent facility-specific slop water analysis, dated September 18, 2024. The slop water storage tanks RH2-TK-SLOP and RH1-TK-SLOP are not controlled. There are two scenarios for the slop tank battery at Train 4, RH4-TK-SLOP. In Tank Scenario 1, up to 19,860 bbls/yr of condensate are routed to the tanks and the emissions from the tanks are controlled by a new flare, RH4-FL-46200, with a 98% DRE. In Tank Scenario 2, up to 120.7 bbls/yr of condensate are routed to the tanks as the condensate streams that were previously routed to this tank battery will be rerouted to another part of facility's process. In Scenario 2, RH4-TK-SLOP remains uncontrolled. Additional details regarding these operating scenarios are detailed in Section 15. The table below lists the total throughput, number of tanks, and storage capacity for each set of slop water tanks.

| Slop Water Tanks ID | RH4-TK-SLOP | RH2-TK-SLOP | RH1-TK-SLOP |
|---|---|---|---|
| Total Throughput (bbl/yr) | 142,838 | 95,231 | 95,225 |
| Number of Tanks | 4 | 1 | 2 |
| Unit(s) | TK-46200-46230 | TK-6200 | TK-33-001, TK-33-002 |
| Capacity of each Tank (bbl) | 500 | 400 | 500 |

**Methanol Storage Tanks (RH-TK-METHANOL)**

The methanol tanks (unit RH-TK-METHANOL) at Red Hills include 41 tanks, ranging in size from 350 gallons to 2000 gallons, with a total site- wide storage capacity of 34,050 gallons and a maximum usage rate of 47,995 gallons per day. VOC and HAP emissions are determined using BR&E ProMax and an assumed 100% methanol content. The throughput for each tank is weighted based on the tanks' respective size. The methanol storage tanks are not controlled.

# Liquid Loading

**Condensate Loading (RH1-TK-COND-WEST-LOAD)**
Loading emissions are calculated using AP-42 Section 5.2 methodology. The maximum hourly throughput is based on the assumption that two trucks with a 180 bbl capacity can be loaded in an hour (15,120 gal/hr total). Loading is limited to the RH1-TK-COND-WEST tank battery. Emissions from loading activities are routed back to the RH1-TK-COND-WEST tank battery, which is controlled by flare (Unit RH1-FL-2850) with a 70% capture efficiency via vapor balance, per AP-42 Chapter 5.2 Section 5.2.2.1.1, and a 98% DRE. Controlled emissions are represented at RH1-FL-2850. The total loadout capacity for RH1-TK-COND-WEST-LOAD of truck loading is 3,067,105 gal/yr.

**Sour Slop Water Loading (RHA-TK-SLOP-LOAD and RA2-TK-SLOP-LOAD)**
Loading emissions are calculated using AP-42 Section 5.2 methodology. The maximum hourly throughput for RHA-TK-SLOP-LOAD is based on the assumption that one truck with a 180 bbl capacity can be loaded in an hour (7,560 gal/hr). The maximum hourly throughput for RA2-TK-SLOP-LOAD is based on the assumption that two trucks with a 180 bbl capacity each can be loaded in an hour (15,120 gal/hr total). Maximum annual throughput is equal to the entire throughput of the slop storage tanks (i.e., all slop storage tank throughput is loaded out). Sour slop loading emissions are sent to the sour gas flares (RHA-FL-5850 and RA2-FL-25850) with a 70% capture efficiency, per AP-42 Chapter 5.2 Section 5.2.2.1.1, and a 98% DRE. Controlled emissions are represented at units RHA-FL-5850 and RA2-FL-25850.

**Slop Water Loading (RH4-TK-SLOP-LOAD, RH2-TK-SLOP-LOAD, and RH1-TK-SLOP-LOAD)**
Loading emissions are calculated using AP-42 Section 5.2 methodology. The maximum hourly throughput is based on the assumption that two trucks with a 180 bbl capacity can be loaded in an hour (15,120 gal/hr total). The loading vapor pressures are determined from the BR&E ProMax simulation using a recent facility-specific wastewater analysis, dated September 18, 2024. The loading pressures for RH4-TK-SLOP-LOAD, RH2-TK-SLOP-LOAD and RH1-TK-SLOP-LOAD are assumed to be the same. The weight percentages of VOC, HAP, and $H_2S$ are obtained from the corresponding wastewater storage tanks in the BR&E ProMax Simulation. All throughput is assumed to be transported offsite via truck loading. Below is a table of annual loading throughput for each slop water truck loading unit. Loading activities for RH2-TK-SLOP-LOAD and RH1-TK-SLOP-LOAD are uncontrolled. There are two scenarios for RH4-TK-SLOP-LOAD. In Tank Scenario 1, the emissions from RH4-TK-SLOP-LOAD are controlled by a new flare, RH4-FL-46200, with a 98% DRE. In Tank Scenario 2, up to 120.7 bbls of condensate are routed to the tanks as the condensate streams that were previously routed to this tank battery will be rerouted to another part of facility's process. In Scenario 2, RH4-TK-SLOP-LOAD remains uncontrolled. Additional details regarding these operating scenarios are detailed in Section 15.

| Slop Water Truck Loading Unit | RH4-TK-SLOP-LOAD | RH2-TK-SLOP-LOAD | RH1-TK-SLOP-LOAD |
|---|---|---|---|
| Annual Loading Throughput (bbl/yr) | 142,838 | 95,231 | 95,231 |

# Thermal Oxidizers

**Thermal Oxidizers (RH2-TO-5500, RH4-TO-45500, and RH5-TO-55500)**

RH2-TO-5500 is a 90 MMBTU/hr thermal oxidizer controlling units RH2-TEG, RH1-AMINE, and RH2-AMINE. RH4-TO-45500 is an 80 MMBTU/hr thermal oxidizer controlling units RH3-TEG and RH4-AMINE. RH5-TO-55500 is a 75 MMBTU/hr thermal oxidizer controlling units RH5-TEG, RH6-TEG, and RH5-AMINE. NOx and CO emissions are calculated using manufacturer provided emission factors. PM emissions are calculated using AP-42 emission factors for external natural gas combustion sources in Tables 1.4-1 and 1.4-2. HAP and VOC emissions are calculated using streams from BR&E ProMax Simulations for the controlled sources. Greenhouse gas emissions are estimated using the methodology from 40 CFR Part 98 and emission factors from Tables C-1 and C-2 of Part 98. A 10% safety factor was incorporated on both the mass emissions of VOC, HAP, and $H_2S$ routed to the unit as well as the gas flow rate, which is used to determine the $NO_x$ and CO associated emissions. Pilot $SO_2$ emissions are calculated based on a standard assumed fuel sulfur content of 2 gr/100 scf, and an assumed 100% conversion of elemental sulfur to $SO_2$.

| Thermal Oxidizer Unit | Manufacturer Specifications | |
|---|---|---|
| | NOx | CO |
| | ppm | ppm |
| RH2-TO-5500 | 50 | 50 |
| RH4-TO-45500 | 50 | 50 |
| RH5-TO-55500 | 50 | 50 |

**Thermal Oxidizer Downtime (RH2-TO-5500-SSM, RH4-TO-45500-SSM, and RH5-TO-55500-SSM)**

The thermal oxidizers are used to control emissions from dehydrators and amine units during normal operations. For estimating thermal oxidizer downtime emissions, it was assumed that RH2-TO-5500 and RH4-TO-45500 each would be down for 109.5 hrs/yr, and RH5-TO-55500-SSM would be down for 175.2 hrs/yr. During this downtime the glycol dehydrator regenerator overheads will be routed to the flares RH2-FL-5100, RH4-FL-45100, and RH5-FL-55100 and the amine regenerator overheads will be vented. Emission calculation methodologies for the Glycol Dehydration and Amine Sweetening Units are described in their respective sections of Section 6.

# Flares

**Acid Gas Flares (RHA-FL-5100 and RA2-FL-25100)**

The acid gas injection (AGI) flares serve as control devices for the front end treaters if gas cannot be injected due to operational conditions or events that hinder the use of the wells. When injection into the AGI wells is not available, acid gas from the front end treater systems (units RHA-AMINE and RA2-AMINE) is routed to the flares for combustion. Additionally, the AGI flares will control various other events, including blowdowns of inlet acid gas for the sour trains, other SSM activities, and emissions from sour pig launching and receiving (units RHA-REC-WINKLER and RHA-REC-LIMESTONE-10INCH for RHA-FL-5100, and RHA-REC-LIMESTONE-8INCH, RA2-REC-GREYHOUND, and RHA-LAU-LIMESTONE-10INCH for RA2-FL-25100).

Emissions from the amine regenerator overhead are calculated using BR&E ProMax, with a 10% safety factor for emission rates and flow rates included to account for variability in the amine systems. Additionally, both flares will operate with a 5:1 assist gas ratio to aid in combustion. The pilot consumes 65 scf/hr of gas.

The flares control blowdowns of inlet gas, the various SSM activities, and pig launching. Hourly emissions for these units assume that SSM flaring does not occur at the same time as acid gas flaring or inlet gas flaring, but acid gas and inlet flaring can occur at the same time. Assist gas emissions are directly associated with acid gas flaring events. The maximum of both scenarios was used to determine the maximum hourly emission for each pollutant.

Pilot and process $NO_x$ and CO emissions are calculated using emission factors from the Texas Natural Resource Conservation Commission's Air Permit Technical Guidance for Chemical Sources: Flares and Vapor Oxidizers (TNRCC RG-109 dated October 2000). No pilot or process PM emissions occur as the flares are smokeless.

Pilot VOC emissions are calculated using emission factors from AP-42 Chapter 1.4 Table 1.4-1. Pilot $SO_2$ emissions are based on an assumed residue gas fuel sulfur content of 0.25 gr S/100 scf and an assumed 100% conversion of elemental sulfur to $SO_2$. Pipeline specification for residue gas is 4ppm (0.25 g S/100 scf). Additionally, assist gas $SO_2$ emissions are based on an assumed 1.5 ppm $H_2S$ content in the assist gas with a 100% conversion of combusted $H_2S$ to $SO_2$ and a 98% DRE. The $H_2S$ content of the assist gas is based on a residue analysis dated January 21, 2025. This is an additional conservative assumption for the assist gas used at these flares. Pilot and assist gas $H_2S$ emissions are based on the remaining 2% of uncombusted $H_2S$. Process VOC, HAP, and $H_2S$ emissions are based on emissions from the amine unit still vent with a 98% DRE. Process $SO_2$ emissions are based on an assumed 100% conversion of combusted $H_2S$ to $SO_2$.

Greenhouse gas emissions were calculated using 40 CFR 98 Subpart C Table C-1 and Table C-2 with the methodology outlined in 40 CFR 98.233(n).

**Process Flares (RH1-FL-29-1003, RH2-FL-5100, RH3-FL-5100, RH4-FL-45100, and RH5-FL-55100)**

The plant flares are used for flaring during facility startup, shutdown, maintenance and upset conditions. The only steady state conditions associated with these flares are from the pilot and purge gas streams. However, unit RH1-FL-29-1003 also controls the steady state regenerator overheads of the Train 1 dehydrator RH1-TEG. SSM emissions from the plant flares are due to various maintenance activities throughout the facility per maintenance schedules. These maintenance activities include but are not limited to equipment blowdowns for associated maintenance, instrumental calibrations, and process safety device maintenance.

The basis of the flaring calculations are the expected composition and maximum expected volumes of the gas. The $SO_2$ composition is based on a 100% molar conversion of $H_2S$ to $SO_2$. $NO_x$ and CO emissions for both scenarios are calculated using TNRCC RG-109. VOC emissions are calculated from the VOC volume fraction of the gas stream going to the flare, the specific volume of the VOC fraction of the gas stream, and a 98% destruction efficiency. Emissions of greenhouse gases are calculated using methodology from 40 CFR Subpart 98.233(n).

**Condensate Tank Flare (Unit RH1-FL-2850)**

The condensate tank flare controls flash, working, and breathing emissions from the condensate tank batteries (units RH1-TK-COND-EAST and RH1-TK-COND-WEST) as well as condensate loading emissions (unit RH1-TK-COND-WEST-LOAD). Tank and loading emissions are determined using BR&E ProMax and a 25% flow rate safety factor, and a 10% emission rate safety factor is included to account for variability in the tanks and loading.

Pilot and process $NO_x$ and CO emissions are calculated using emission factors from the Texas Natural Resource Conservation Commission's Air Permit Technical Guidance for Chemical Sources: Flares and Vapor Oxidizers (TNRCC RG-109 dated October 2000). No pilot or process PM emissions occur as the flares are smokeless.

Pilot VOC emissions are calculated using the VOC weight % and density of the fuel gas. Pilot $SO_2$ emissions are based on an assumed fuel sulfur content of 0.25 gr/100 scf and an assumed 100% conversion of elemental sulfur to $SO_2$. Process VOC, HAP, and $H_2S$ emissions are based on emissions from the tanks and loading with a 98% DRE. Process $SO_2$ emissions are based on an

assumed 100% conversion of combusted $H_2S$ to $SO_2$. Greenhouse gas emissions are calculated using 40 CFR 98 Subpart C Table C-1 and Table C-2 with the methodology outlined in 40 CFR 98.233(n).

**Slop Water Tank Flare (Unit RH4-FL-46200)**

The slop water tank flare controls flash, working, and breathing emissions from the slop water tank battery (unit RH4-TK-SLOP) as well as slop water loading emissions (unit RH4-TK-SLOP-LOAD). Tank and loading emissions are determined using BR&E ProMax and a 10% flow rate safety factor is included to account for variability in the tanks and loading.

Pilot and process $NO_x$ and CO emissions are calculated using emission factors from the Texas Natural Resource Conservation Commission's Air Permit Technical Guidance for Chemical Sources: Flares and Vapor Oxidizers (TNRCC RG-109 dated October 2000). No pilot or process PM emissions occur as the flares are smokeless.

Pilot VOC emissions are calculated using the VOC weight % and density of the fuel gas. Pilot $SO_2$ emissions are based on an assumed fuel sulfur content of 0.25 gr S/100 scf and an assumed 100% conversion of elemental sulfur to $SO_2$.

Greenhouse gas emissions are calculated using 40 CFR 98 Subpart C Table C-1 and Table C-2 with the methodology outlined in 40 CFR 98.233(n).

**Sour Slop Tank Flares (Units RHA-FL-5850 and RA2-FL-25850)**

The sour slop tank flares controls flash, working, and breathing emissions from the sour slop tank batteries (units RHA-TK-SLOP and RA2-TK-SLOP) as well as sour slop loading emissions (units RHA-TK-SLOP-LOAD and RA2-TK-SLOP-LOAD). The flares control these units continuously (8,760 hr/yr). Tank and loading emissions are determined using BR&E ProMax and a 10% emission and flow rate safety factor is included to account for variability in the tanks and loading. It is assumed the pilot consumes 100 scf/hr of gas based on an engineering estimate.

Pilot and process $NO_x$ and CO emissions are calculated using emission factors from the Texas Natural Resource Conservation Commission's Air Permit Technical Guidance for Chemical Sources: Flares and Vapor Oxidizers (TNRCC RG- 109 dated October 2000). No pilot or process PM emissions occur as the flares are smokeless.

Pilot VOC emissions are calculated using emission factors from AP-42 Chapter 1.4 Table 1.4-1. Pilot $SO_2$ emissions are based on an assumed fuel sulfur content of 0.25 gr S/100 scf and an assumed 100% conversion of elemental sulfur to $SO_2$.

Process VOC, HAP, and $H_2S$ emissions are based on emissions from the tanks and loading with a 98% DRE. Process $SO_2$ emissions are based on an assumed 100% conversion of combusted $H_2S$ to $SO_2$.

Greenhouse gas emissions from are calculated using 40 CFR 98 Subpart C Table C-1 and Table C-2 with the methodology outlined in 40 CFR 98.233(n).

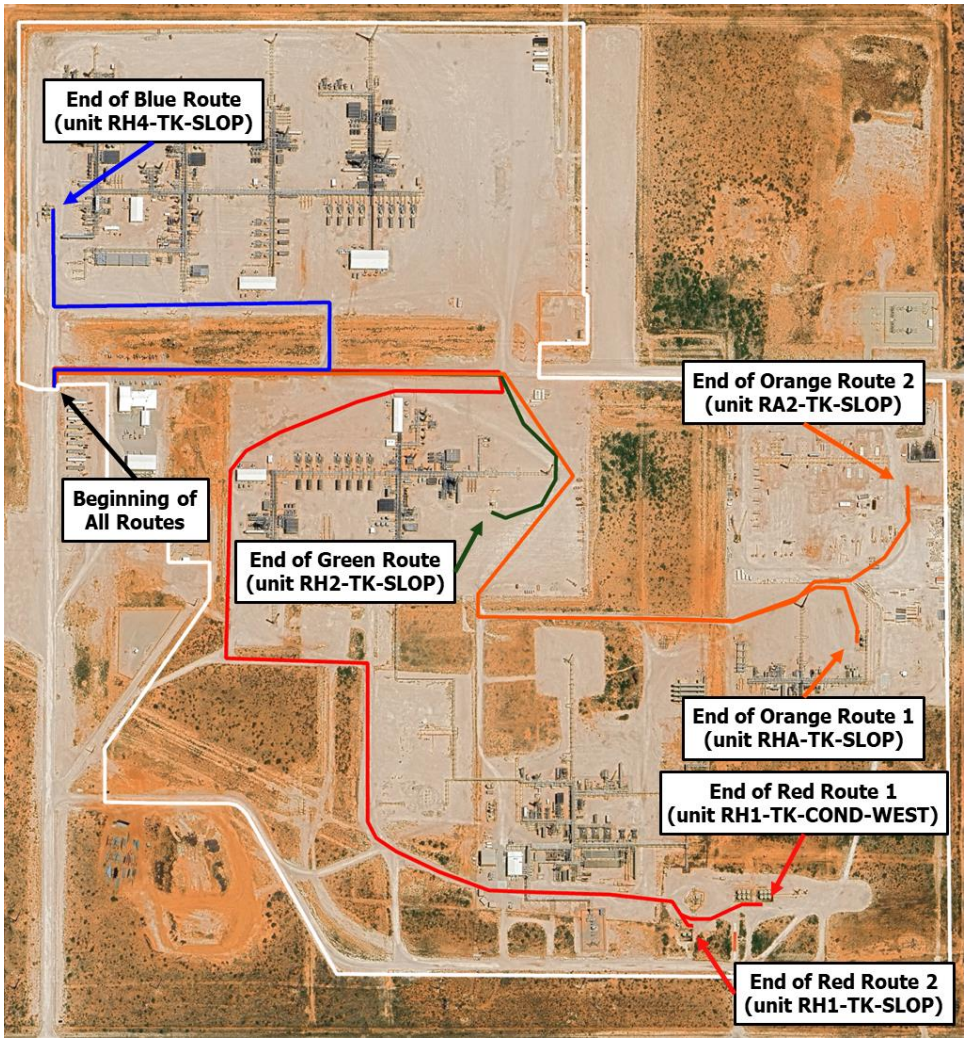
# Fugitives

**Fugitive Components (RH-FUG-1, RH-FUG-2, RHA-FUG, RA2-FUG)**

The emissions from fugitive components are calculated using emission factors from Table 2-4 of the EPA Protocol for Equipment Leak Emission estimates, November 1995. A safety factor is applied to the fugitive component count estimates. Heavy oil was conservatively assumed to be 100% VOC, 10% HAPs, and 1% $H_2S$. Methanol was assumed to be 100% VOC and 100% HAP. Fuel gas compositions are based on the maximum fuel gas VOC and HAPs content from available analyses. Additionally, VOC, HAP, and $H_2S$ weight percents are determined from compositions for each stream. Analyses used in the calculations are provided in Section 7. RHA-FUG and RA2-FUG conservatively assume an $H_2S$ concentration of 25,000 ppm to represent the annual average inlet acid gas concentration that is processed by FET-1 and FET-2. Additionally, RHA-FUG and RA2-FUG conservatively assume an $H_2S$ concentration of 250,000 ppm to represent the annual average acid gas concentration at the still vent outlet of FET-1 and FET-2.

**Haul Roads (RH-HAUL)**

The haul road inputs are based on projected production rates from the condensate, sour water, and slop water at the facility and estimated vehicle miles traveled to transport the material. The following image depicts all haul road routes at the Red Hills Gas Processing Plant facility, where they begin, where they end, and what units they are serving.




Haul road distances are estimated using Google Earth satellite images dated 7/2/2023. All haul road routes start at the west gate next to the facility check-in. From there, the routes split to head to their respective tank batteries as follows: Orange Route 1 is 0.94 miles long and transports sour water from the FET-1 Sour Slop Tanks (unit RHA-TK-SLOP); Red Route 1 is 1.33 miles long and transports condensate from the RH1 West Condensate Storage Tanks (unit RH1-TK-COND-WEST); Orange Route 2 is 0.99 miles long and transports sour water from the FET-2 Sour Slop Tanks (unit RA2-TK-SLOP); Blue Route is 0.58 miles long and transports slop water from the RH4 Slop Tanks (unit RH4-TK-SLOP); Green Route is 0.53 miles long and transports wastewater from the

RH2 Slop Tanks (unit TH2-TK-SLOP); and Red Route 2 is 1.28 miles long and transports slop water from the RH1 Slop Tanks (unit RH1-TK-SLOP).

Uncontrolled total suspended particulate matter (TSP), PM10, and PM2.5 emissions are calculated using Equations 1a and 2 from AP-42 Section 13.2.2 for unpaved haul road emissions. Surface silt content was taken from AP-42 Table 13.2.2-1.

Constants are taken from AP-42 Table 13.2.2-2. The number of days in a year with at least 0.01 inches of precipitation was taken from the NMED guidance document titled Guidance for Aggregate Handling, Storage Piles and Haul Road Emissions, published January 1, 2017. PM30 is assumed equivalent to (TSP) per AP-42 Table 13.2.2-2.
Controlled TSP, PM10, and PM2.5 emissions are calculated using an overall control efficiency of 78% based on the following control methods:

- Base course haul roads (60% reduction); Guidance for Aggregate Handling, Storage Piles and Haul Road Emissions, published January 1, 2017.
- 25 mph speed limit (44% reduction); Western Regional Air Partnership (WRAP) Fugitive Dust Handbook, published September 7, 2006.

# Engines and Generators

**Generators (RH-GEN-1 through RH-GEN-10)**

The diesel-fired generator emissions are calculated at 499 hp and 500 hrs/yr of runtime per engine. Since the generators are provided by a rental company and can have a range of horsepower, it is assumed that this is the maximum size of generator that is present on site. NSPS IIII Tier IV Final Emission Factors for Non- Road Engines for $NO_x$, CO, VOC, and PM are used. Emission factors for HAP and $SO_2$ emissions are obtained from AP- 42 Section 3.3, Gasoline and Diesel Industrial Engines (10/96) and are used to calculate potential emissions for the diesel generators. A typical diesel heating value of 0.137 MMBtu/gal is used. Greenhouse gas emissions are calculated using 40 CFR 98 Tables A-1, C-1, and C-2.

**Water Well Generator (RH-GEN-WELL)**

The diesel-fired generator emissions are calculated at 35 hp and 120 hrs/yr of runtime. EPA engine family certified levels are used for $NO_x$, CO, and VOC. Emission factors for $SO_2$, HCHO, and PM are obtained from AP-42 Section 3.3, Gasoline and Diesel Industrial Engines (10/96) and are used to calculate potential emissions for the diesel generator. A typical diesel heating value of 0.137 MMBtu/gal is used. Greenhouse gas emissions are calculated using 40 CFR 98 Tables A-1, C-1, and C-2.

**Heater Trailer (RH-TRAILER)**

The heater trailer is used to provide heat to units that require it during cold weather events in order to start up. The heater trailer consists of a diesel-fired 13.8 hp engine and a diesel-fired 1 MMBtu/hr heater. Heater trailer emissions are calculated as the sum of the engine emissions and heater emissions. Engine emissions are calculated based on NSPS IIII Tier IV Final Emission Factors. NSPS IIII Tier IV has a combined $NO_x$ and VOC emission factor of 5.6 g/hp- hr. For the combined non-methane hydrocarbon (NMHC) and $NO_x$ emission factor of 5.6 g/hp-hr, per CARB Emission Factors for CI Diesel Engines, a breakdown of 5% and 95%, respectively, is assumed. Engine emission factors for HAP and $SO_2$ emissions are obtained from AP- 42 Section 3.3, Gasoline and Diesel Industrial Engines (10/96). Heater $NO_x$, CO, VOC, $SO_2$, and PM emissions are calculated using emission factors obtained from AP-42 Section 1.3, Fuel Oil Combustion (05/10), for firing distillate oil containing less than 0.3 wt% sulfur. Per AP-42 Section 1.3, Fuel Oil Combustion (05/10), the emission factors in lb/1000 gal are converted to lb/MMBtu by dividing the emission factor by the heating value of Fuel Oil No. 2 (140 MMBtu/1000 gal). Greenhouse gas emissions are calculated using 40 CFR 98 Tables A-1, C-1, and C-2.

# Startup, Shutdown, Maintenance and Malfunction

**Pig Launching and Receiving (RHA-REC-WINKLER through RH4-REC-24INCH, RHA-REC-LIMESTONE-10INCH, RA2-REC-GREYHOUND, RHA-LAU-LIMESTONE-10INCH through RH2-LAU-GPX)**

Pig launching and receiving activities are determined using a mass balance approach based on the volume of gas vented with each pig launched or received and a representative gas analysis for each pig launcher or receiver. There are a total of eight pig receivers (RHA-REC-WINKLER through RH4-REC-24INCH, RHA-REC-LIMESTONE-10INCH, and RA2-REC-GREYHOUND), and six pig launchers (RHA-LAU-LIMESTONE-10INCH through RH2-LAU-GPX).

RHA-REC-WINKLER and RHA-REC-LIMESTONE-8INCH operate in sour gas service and blows down in three stages. The first stage is to a closed drain, the second stage is to a flare (RHA-FL-5100 and RA2-FL-25100 respectively), and the third stage releases to the atmosphere. Stages two and three are purged with residue gas prior to releasing to atmosphere.

RH1-REC-PLANTVIEW and RH1-REC-GUTLINE operate in sweet gas service and blows down in two stages. The first stage is to a closed drain, and the second state is released to the atmosphere.
RH1-REC-ABU operates in sweet gas service and RH1-LAU-NGPL and RH1-LAU-TW operate in residue gas service. These launchers and receivers are blown down to atmosphere.

RH4-REC-24INCH operates in sweet gas service and is blown down in three stages. The first stage is to a closed drain, the second stage is to flare RH4-FL-45100, and the third stage releases the remaining gas to the atmosphere.

RHA-REC-LIMESTONE-10INCH operates in sour gas service and is blown down in three stages. The first stage is to a closed drain, the second stage is to flare RHA-FL-5100, and the third stage is released to the atmosphere. Stages two and three are purged with residue gas prior to releasing to atmosphere.

RA2-REC-GREYHOUND and RHA-LAU-LIMESTONE-10INCH operate in sour gas service and are blown down in three stages. The first stage is to a closed drain, the second stage is to flare RA2-FL-25100, and the third stage is released to the atmosphere. Stages two and three are purged with residue gas prior to releasing to atmosphere.

RH2-LAU-GPX operates in sweet gas service and is blown down in three stages. The first stage is to a closed drain, the second stage is to flare RH2-FL-251000, and the third stage is released to the atmosphere.

RH1-LAU-ETC and RH1-LAU-ONEOK operate in Y-grade NGL service and are blown down in two stages. The first stage is to a closed drain, and the second stage is released to the atmosphere.

**Vented SSM (RH1-SSM, RH2-SSM, RH3-SSM, RH4-SSM, RH5-SSM, RH6-SSM, RHA-SSM, and RA2-SSM)**

This section provides the methodologies used for the various subsets of SSM events that occur at the Red Hills site. These example methodologies are not intended to be permit representations since individual activities in each subcategory vary by procedure and equipment configuration. Calculations are provided on a unit-by-unit basis for each train and each type of event.

Vented SSM has several components. Each type of SSM is described below:

*Vessel Blowdown and Startup*

Emissions from vessel maintenance blowdown activities are calculated using vessel volumes and the ideal gas law. The minimum flared blowdown pressure is assumed to be 20 psig. Conservatively, it is assumed that the full vessel volume is routed to the flare while also assumed that the vessel volume remaining from 20 psig to 0 psig is vented, if the blowdown is controlled. The $H_2S$ concentration for inlet sour gas was conservatively assumed to be 25,000 ppm which is representative of the annual average concentration FET-1 and FET-2 will process. Equipment blowdown volumes were calculated as follows:

$$[\text{Volume } (ft^3)] \times [\text{pressure (psia)}] * [459.67\ (°F) + 60\ (°F)] / [[14.696\ (\text{psia})] \times [\text{Temperature } (°F) + 459.67\ (°F)]]$$

Emissions from vessel maintenance startup activities are calculated using a three-step pressurization. The minimum of the vapor pressure or pressurization steps is used to determine the volume of gas or vapor vented to atmosphere or flare. The table below shows an example of a three-step pressurization.

| | | |
|---|---|---|
| 1st Step Pressure | 50 | psig |
| 2nd Step Pressure | 150 | psig |

| | | |
|---|---|---|
| 3rd Step Pressure | 300 | psig |

Equipment startup volumes were calculated as follows:

[Volume ($ft^3$)] x [1st step pressurization (psia) + 2nd step pressurization (psia) + 3rd step pressurization (psia)] / [14.696 (psia)]

*Tank Degassing (Non-forced)*

Emissions from Non-forced Tank Degassing are calculated based on a mass balance. The roof of the tank is not included in the clingage volume since no liquid reaches the roof. Clingage thickness is determined per TCEQ Maintenance, Startup and Shutdown (MSS) Guidance Document for Terminals and chemical plants. The presumed degassing event duration is 24 hours an event with 2 tank degassing events per year/per unit. The HAP content is conservatively assumed to be 25% of the vented liquid vapor analysis. The $H_2S$ concentration for inlet sour gas was conservatively assumed to be 25,000 ppm which is representative of the annual average FET-1 and FET-2 will process.

[Volume ($ft^3$)] x [pressure (psia)] * [459.67 (°F) + 60 (°F)] / [[14.696 (psia)] x [Temperature (°F) + 459.67 (°F)]]

*Meter Proving & Line Breaks*

Emissions to the atmosphere after opening lines are calculated using the Ideal Gas Law and conservatively use the maximum pressure for each service to determine blowdown volume. Piping is conservatively assumed to be one 10-foot length of 16" diameter pipe. Degassing occurs within one hour. The $H_2S$ concentration for inlet sour gas was conservatively assumed to be 25,000 ppm which is representative of the annual average FET-1 and FET-2 will process. Meter proving and line break volumes were calculated as follows:

[Volume ($ft^3$)] x [Maximum Pressure (psia) / [14.696 (psia)] / [1000 (scf/Mscf)]

*Filters*

The Filter SSM calculations utilize an ideal gas law equation to determine the mass of gas released. Weight percents are then applied to determine the uncontrolled emission rate. For controlled sources the control factor is applied. Degassing is assumed to occur in one hour. The $H_2S$ concentration for inlet sour gas was conservatively assumed to be 25,000 ppm which is representative of the annual average FET-1 and FET-2 will process. Filter blowdown volumes were calculated as follows:

[Volume ($ft^3$)] x [pressure (psia)] / [[Gas Constant R] x [Temperature (°F) + 459.67 (°F)]] x [Molecular Weight (lb/lb-mol)]

*Surface Coating*

PM, $PM_{10}$, and $PM_{2.5}$ emissions are calculated using solids content, usage rates, transfer efficiency, and fallout factors. Transfer efficiency and fallout factor are referenced from TCEQ's Painting Basics and Emissions Calculations for TCEQ Air Quality Permit Applications (November 5, 2012). The solids content is determined by the representative Safety Data Sheet (SDS). The usage rates are assumed to be 25 gallons/hr and 100 gallons/year. VOCs and HAPs are calculated using the density, VOC content, and HAP content on the representative Safety Data Sheet. Emissions associated with surface coating are represented as a total facility-wide hourly emission rate. It is presumed that surface coating will only occur at one train at a time.

*Full Plant Blowdown*

Emissions from vessel maintenance activities are calculated using the ideal gas law. The minimum flared blowdown pressure is assumed to be 20 psig. Full plant blowdown volumes were calculated by summing the volume of each piece of equipment. The $H_2S$ concentration for inlet sour gas was assumed to be no more than 2,000 ppm during a full plant turnaround for FET-1 and FET-2. As it is expected that only one event will occur per year, Targa will ensure that the $H_2S$ concentration of the gas within these treatment trains is adequately reduced prior to conducting a full plant turnaround. Equipment volumes were calculated as follows:

[Volume ($ft^3$)] x [pressure (psia)] * [459.67 (°F) + 60 (°F)] / [[14.696 (psia)] x [Temperature (°F) + 459.67 (°F)]]

*Full Plant Startup*

Emissions from vessel maintenance activities are calculated using a four-step pressurization, where vessels are blown down to check for leaks after pressurizing. The minimum of the vapor pressure or pressurization steps is used to determine the volume of gas or vapor vented to atmosphere or flare. The $H_2S$ concentration for inlet sour gas was assumed to be no more than 2,000 ppm during a full plant turnaround for FET-1 and FET-2. As it is expected that only one event will occur per year, Targa will ensure that the

$H_2S$ concentration of the gas within these treatment trains is adequately reduced prior to conducting a full plant turnaround. Full plant startup volumes for each step of pressurization were calculated as follows:

[Volume ($ft^3$)] x [step pressurization (psia) / [14.696 (psia)]

The table below shows an example of a four-step pressurization.

| | | |
|---|---|---|
| 1st Step Pressure | 25 | psig |
| 2nd Step Pressure | 50 | psig |
| 3rd Step Pressure | 100 | psig |
| 4th Step Pressure | 100 | psig |

For Trains 1 through 6, certain SSM events cannot occur simultaneously on a per train basis. Only one of the following can occur at each train at the same time:

- A full plant blowdown;
- A full plant startup; or,
- Individual vessel blowdowns, individual vessel startups, tank degassing, tank startup, meter proving and line breaks, and filter blowdowns.

If an individual vessel is blown down, only one vessel can be blown down in a single hour. Hourly emission rates within this application represent the highest emission individual vessel blowdown. Similarly, filter blowdowns assume only one filter is changed at a time per train.

For FET-1 and FET-2, SSM events cannot occur simultaneously at both trains. The same limitations as Trains 1 through 6 apply as well on an individual train basis.

# Section 6.a

## Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

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**Title V (20.2.70 NMAC), Minor NSR (20.2.72 NMAC), and PSD (20.2.74 NMAC)** applicants must estimate and report greenhouse gas (GHG) emissions to verify the emission rates reported in the public notice, determine applicability to 40 CFR 60 Subparts, and to evaluate Prevention of Significant Deterioration (PSD) applicability. GHG emissions that are subject to air permit regulations consist of the sum of an aggregate group of these six greenhouse gases: carbon dioxide ($CO_2$), nitrous oxide ($N_2O$), methane ($CH_4$), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride ($SF_6$).

### Calculating GHG Emissions:

**1.** Calculate the ton per year (tpy) GHG mass emissions and GHG $CO_2e$ emissions from your facility.
**2.** GHG mass emissions are the sum of the total annual tons of greenhouse gases without adjusting with the global warming potentials (GWPs). GHG $CO_2e$ emissions are the sum of the mass emissions of each individual GHG multiplied by its GWP found in Table A-1 in 40 CFR 98 Mandatory Greenhouse Gas Reporting.
**3.** Emissions from routine or predictable start up, shut down, and maintenance must be included.
**4.** Report GHG mass and GHG $CO_2e$ emissions in Table 2-P of this application. Emissions are reported in **short** tons per year and represent each emission unit's Potential to Emit (PTE).
**5.** All Title V major sources, PSD major sources, and all power plants, whether major or not, must calculate and report GHG mass and CO2e emissions for each unit in Table 2-P.
**6.** For minor source facilities that are not power plants, are not Title V, and are not PSD there are three options for reporting GHGs in Table 2-P: 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHGs as a second separate unit; 3) or check the following ☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

**Sources for Calculating GHG Emissions:**

- Manufacturer's Data
- AP-42 Compilation of Air Pollutant Emission Factors at http://www.epa.gov/ttn/chief/ap42/index.html
- EPA's Internet emission factor database WebFIRE at http://cfpub.epa.gov/webfire/
- 40 CFR 98 Mandatory Green House Gas Reporting except that tons should be reported in short tons rather than in metric tons for the purpose of PSD applicability.
- API Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Natural Gas Industry. August 2009 or most recent version.
- Sources listed on EPA's NSR Resources for Estimating GHG Emissions at http://www.epa.gov/nsr/clean-air-act-permitting-greenhouse-gases:

**Global Warming Potentials (GWP):**
Applicants must use the Global Warming Potentials codified in Table A-1 of the most recent version of 40 CFR 98 Mandatory Greenhouse Gas Reporting. The GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to that of one unit mass of $CO_2$ over a specified time period.

**"Greenhouse gas"** for the purpose of air permit regulations is defined as the aggregate group of the following six gases: carbon dioxide, nitrous oxide, methane, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. **(20.2.70.7 NMAC, 20.2.74.7 NMAC).** You may also find GHGs defined in 40 CFR 86.1818-12(a).

**Metric to Short Ton Conversion:**
Short tons for GHGs and other regulated pollutants are the standard unit of measure for PSD and title V permitting programs. 40 CFR 98 Mandatory Greenhouse Reporting requires metric tons.
1 metric ton = 1.10231 short tons (per Table A-2 to Subpart A of Part 98 – Units of Measure Conversions)

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## Uncontrolled Emission Summary - Tank Scenario 1

| Facility-Wide Emissions | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit Type | OLD Unit ID | Unit ID | $NO_x$ | | CO | | VOC | | $SO_2$ | | TSP[2] | | $PM_{10}$[2] | | $PM_{2.5}$[2] | | $H_2S$ | |
| | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| Heaters and Reboilers | 1-EP-1 | RH1-H-23-704 | 0.75 | 3.30 | 1.57 | 6.89 | 0.23 | 1.01 | 0.03 | 0.13 | 0.19 | 0.82 | 0.19 | 0.82 | 0.19 | 0.82 | 5.82E-04 | 2.55E-03 |
| | 1.5-EP-1g | RH1-H-1101 | 0.40 | 1.73 | 0.83 | 3.61 | 0.12 | 0.53 | 0.02 | 0.07 | 0.10 | 0.43 | 0.10 | 0.43 | 0.10 | 0.43 | 3.05E-04 | 1.34E-03 |
| | 4-EP-1g | RH4-H-41100 | 0.88 | 3.86 | 0.49 | 2.13 | 0.07 | 0.31 | 9.01E-03 | 0.04 | 0.06 | 0.25 | 0.06 | 0.25 | 0.06 | 0.25 | 1.80E-04 | 7.89E-04 |
| | 2-EP-1a | RH2-H-741 | 0.94 | 4.12 | 0.36 | 1.56 | 0.05 | 0.23 | 6.57E-03 | 0.03 | 0.07 | 0.29 | 0.07 | 0.29 | 0.07 | 0.29 | 1.31E-04 | 5.76E-04 |
| | 2-EP-1b | RH2-H-781 | 0.23 | 1.03 | 0.49 | 2.14 | 0.07 | 0.31 | 9.04E-03 | 0.04 | 0.09 | 0.40 | 0.09 | 0.40 | 0.09 | 0.40 | 1.81E-04 | 7.92E-04 |
| | 2-EP-1e | RH2-H-2301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | 2.74E-03 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | 5.48E-05 | 2.40E-04 |
| | 2-EP-1h | RH2-H-0901 | 1.33 | 5.83 | 2.70 | 11.82 | 0.41 | 1.77 | 0.05 | 0.22 | 0.33 | 1.45 | 0.33 | 1.45 | 0.33 | 1.45 | 1.03E-03 | 4.50E-03 |
| | 2a-EP-1d | RH2-H-1001 | 1.33 | 5.83 | 2.70 | 11.82 | 0.41 | 1.77 | 0.05 | 0.22 | 0.33 | 1.45 | 0.33 | 1.45 | 0.33 | 1.45 | 1.03E-03 | 4.50E-03 |
| | 2.5-EP-1d | RHA-H-4901 | 0.64 | 2.79 | 1.25 | 5.49 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.65 | 0.15 | 0.65 | 0.15 | 0.65 | 4.64E-04 | 2.03E-03 |
| | 3-EP-1a | RH3-H-741 | 0.49 | 2.14 | 0.34 | 1.49 | 0.05 | 0.22 | 6.30E-03 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | 1.26E-04 | 5.52E-04 |
| | 3-EP-1b | RH3-H-781 | 0.40 | 1.77 | 0.73 | 3.21 | 0.11 | 0.47 | 0.01 | 0.06 | 0.04 | 0.16 | 0.04 | 0.16 | 0.04 | 0.16 | 2.71E-04 | 1.19E-03 |
| | 3-EP-1e | RH3-H-6301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | 2.74E-03 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | 5.48E-05 | 2.40E-04 |
| | 4-EP-1a | RH4-H-741 | 0.49 | 2.14 | 0.34 | 1.49 | 0.05 | 0.22 | 6.30E-03 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | 1.26E-04 | 5.52E-04 |
| | 4-EP-1b | RH4-H-781 | 0.45 | 1.99 | 0.83 | 3.61 | 0.12 | 0.53 | 0.015 | 0.067 | 0.10 | 0.43 | 0.10 | 0.43 | 0.10 | 0.43 | 3.05E-04 | 1.34E-03 |
| | 4-EP-1d | RH4-H-3901 | 1.54 | 6.73 | 2.84 | 12.43 | 0.41 | 1.81 | 0.05 | 0.23 | 0.34 | 1.48 | 0.34 | 1.48 | 0.34 | 1.48 | 1.05E-03 | 4.60E-03 |
| | 4-EP-1e | RH4-H-5301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | 2.74E-03 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | 5.48E-05 | 2.40E-04 |
| | 4-EP-1h | RH4-H-4001 | 1.54 | 6.73 | 2.84 | 12.43 | 0.41 | 1.81 | 0.05 | 0.23 | 0.34 | 1.48 | 0.34 | 1.48 | 0.34 | 1.48 | 1.05E-03 | 4.60E-03 |
| | 5-EP-1a | RH5-H-50902 | 1.80 | 7.88 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | 1.23E-03 | 5.39E-03 |
| | 5-EP-1b | RH5-H-50001 | 1.80 | 7.88 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | 1.23E-03 | 5.39E-03 |
| | 5-EP-1c | RH5-H-50741 | 0.48 | 2.11 | 0.34 | 1.47 | 0.05 | 0.21 | 6.22E-03 | 0.03 | 0.04 | 0.17 | 0.04 | 0.17 | 0.04 | 0.17 | 1.24E-04 | 5.44E-04 |
| | 5-EP-1d | RH5-H-50781 | 0.69 | 3.04 | 1.26 | 5.51 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.66 | 0.15 | 0.66 | 0.15 | 0.66 | 4.65E-04 | 2.04E-03 |
| | 6-EP-1a | RH6-H-60001 | 1.88 | 8.23 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | 1.23E-03 | 5.39E-03 |
| | 6-EP-1c | RH6-H-60741 | 0.48 | 2.11 | 0.34 | 1.47 | 0.05 | 0.22 | 6.23E-03 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | 1.25E-04 | 5.46E-04 |
| | 6-EP-1d | RH6-H-60781 | 0.69 | 3.02 | 1.25 | 5.49 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.65 | 0.15 | 0.65 | 0.15 | 0.65 | 4.63E-04 | 2.03E-03 |
| | 5.5-EP-1a | RA2-H-20001 | 1.88 | 8.23 | 3.30 | 14.46 | 0.48 | 2.11 | 0.06 | 0.27 | 0.39 | 1.72 | 0.39 | 1.72 | 0.39 | 1.72 | 1.22E-03 | 5.35E-03 |
| Flares | 1-EP-2 | RH1-FL-29-1003 | 0.33 | 1.45 | 0.66 | 2.88 | 0.01 | 0.06 | 1.51E-03 | 6.61E-03 | - | - | - | - | - | - | - | - |
| | 2-EP-2a | RH2-FL-5100 | 0.37 | 1.62 | 0.74 | 3.23 | 0.01 | 3.23 | 1.69E-03 | 7.40E-03 | - | - | - | - | - | - | - | - |
| | 3-EP-2a | RH3-FL-5100 | 0.37 | 1.62 | 0.74 | 3.23 | 0.01 | 0.06 | 1.69E-03 | 7.40E-03 | - | - | - | - | - | - | - | - |
| | 4-EP-2a | RH4-FL-45100 | 0.37 | 1.62 | 0.74 | 3.23 | 0.01 | 0.06 | 1.69E-03 | 7.40E-03 | - | - | - | - | - | - | - | - |
| | 5-EP-2 | RH5-FL-55100 | 0.76 | 3.31 | 1.51 | 6.60 | 0.03 | 0.13 | 3.45E-03 | 0.02 | - | - | - | - | - | - | - | - |
| | 2.5-EP-5 | RHA-FL-5100 | 0.07 | 0.312 | 0.611 | 2.68 | 5.99E-03 | 0.03 | 1.02E-03 | 4.49E-03 | - | - | - | - | - | - | 2.86E-06 | 1.25E-05 |
| | 5.5-EP-1b | RA2-FL-25100 | 6.69E-03 | 0.029 | 0.057 | 0.25 | 5.63E-04 | 2.46E-03 | 7.00E-05 | 3.07E-04 | - | - | - | - | - | - | 6.88E-06 | 3.02E-05 |
| | EP-9 | RHA-FL-5850 | 6.69E-03 | 0.029 | 0.057 | 0.25 | 5.63E-04 | 2.46E-03 | 7.00E-05 | 3.07E-04 | - | - | - | - | - | - | - | - |
| | EP-13 | RA2-FL-25850 | 6.69E-03 | 0.029 | 0.057 | 0.25 | 5.63E-04 | 2.46E-03 | 7.00E-05 | 3.07E-04 | - | - | - | - | - | - | - | - |
| | EP-7-9 | RH1-FL-2850 | 0.014 | 0.063 | 0.029 | 0.13 | 0.12 | 0.52 | 6.59E-05 | 2.89E-04 | - | - | - | - | - | - | - | - |
| | RH4-FL-46200 | RH4-FL-46200 | 0.014 | 0.063 | 0.029 | 0.13 | 0.12 | 0.52 | 6.59E-05 | 2.89E-04 | - | - | - | - | - | - | 7.14E-07 | 3.13E-06 |
| Dehydrators | 1-EP-3 | RH1-TEG | - | - | - | - | 94.22 | 412.68 | - | - | - | - | - | - | - | - | 0.09 | 0.39 |
| | 2a-EP-3 | RH2-TEG | - | - | - | - | 234.23 | 1,025.93 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | 3-EP-3 | RH3-TEG | - | - | - | - | 334.54 | 1,465.28 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | 4-EP-3 | RH4-TEG | - | - | - | - | 215.39 | 943.40 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | 5-EP-1e | RH5-TEG | - | - | - | - | 435.26 | 1,906.46 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | 6-EP-1e | RH6-TEG | - | - | - | - | 378.10 | 1,656.06 | - | - | - | - | - | - | - | - | 0.01 | 0.05 |
| Amine Units | 1-EP-4 | RH1-AMINE | - | - | - | - | 50.45 | 220.96 | - | - | - | - | - | - | - | - | 1.12 | 220.96 |
| | 2-EP-4 | RH2-AMINE | - | - | - | - | 228.39 | 1,000.37 | - | - | - | - | - | - | - | - | 8.66 | 37.95 |
| | 2.5-EP-4 | RHA-AMINE | - | - | - | - | 57.01 | 249.70 | - | - | - | - | - | - | - | - | 752.40 | 3,295.53 |
| | 4-EP-4 | RH4-AMINE | - | - | - | - | 239.32 | 1,048.20 | - | - | - | - | - | - | - | - | 6.46 | 28.31 |
| | 5-EP-1f | RH5-AMINE | - | - | - | - | 280.19 | 1,227.24 | - | - | - | - | - | - | - | - | 6.49 | 28.45 |
| | 5.5-EP-1c | RA2-AMINE | - | - | - | - | 66.90 | 293.03 | - | - | - | - | - | - | - | - | 4,322.06 | 18,930.61 |
| Thermal Oxidizers | EP-5 | RH2-TO-5500 | 0.10 | 0.44 | 0.06 | 0.27 | 0.40 | 1.76 | 0.05 | 0.21 | 0.56 | 2.43 | 0.56 | 2.43 | 0.56 | 2.43 | 2.55E-04 | 1.12E-03 |
| | EP-8 | RH4-TO-45500 | 0.10 | 0.46 | 0.06 | 0.28 | 0.38 | 1.68 | 0.05 | 0.20 | 0.53 | 2.32 | 0.53 | 2.32 | 0.53 | 2.32 | 2.43E-04 | 1.06E-03 |
| | EP-10 | RH5-TO-55500 | 0.08 | 0.36 | 0.05 | 0.22 | 0.31 | 1.34 | 0.04 | 0.16 | 0.42 | 1.85 | 0.42 | 1.85 | 0.14 | 1.85 | 1.94E-04 | 8.51E-04 |

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## Uncontrolled Emission Summary - Tank Scenario 1

| Facility-Wide Emissions | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit Type | OLD Unit ID | Unit ID | $NO_x$ | | CO | | VOC | | $SO_2$ | | $TSP^2$ | | $PM_{10}{}^2$ | | $PM_{2.5}{}^2$ | | $H_2S$ | |
| | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| Tanks | 1-T | RH1-TK-COND-EAST | - | - | - | - | 3.45 | 15.09 | - | - | - | - | - | - | - | - | - | - |
| | 2-T | RHA-TK-SLOP | - | - | - | - | 4.92E-04 | 2.15E-03 | - | - | - | - | - | - | - | - | 0.73 | 3.22 |
| | 3-T | RH1-TK-COND-WEST | - | - | - | - | 3.45 | 15.09 | - | - | - | - | - | - | - | - | - | - |
| | 4-T | RA2-TK-SLOP | - | - | - | - | 4.80E-04 | 2.10E-03 | - | - | - | - | - | - | - | - | 0.83 | 3.63 |
| | 5-T | RH4-TK-SLOP | - | - | - | - | 268.25 | 1,174.93 | - | - | - | - | - | - | - | - | - | - |
| | 6-T | RH2-TK-SLOP | - | - | - | - | 0.23 | 1.02 | - | - | - | - | - | - | - | - | - | - |
| | 7-T | RH1-TK-SLOP | - | - | - | - | 0.43 | 1.89 | - | - | - | - | - | - | - | - | - | - |
| | MT-1 | RH-TK-METHANOL | - | - | - | - | 0.92 | 4.02 | - | - | - | - | - | - | - | - | - | - |
| Loading | 2-LOAD | RHA-TK-SLOP-LOAD | - | - | - | - | 1.87E-06 | 2.48E-07 | - | - | - | - | - | - | - | - | 0.26 | 0.034 |
| | 3-LOAD | RH1-TK-COND-WEST-LOAD | - | - | - | - | 181.98 | 19.60 | - | - | - | - | - | - | - | - | - | - |
| | 4-LOAD | RA2-TK-SLOP-LOAD | - | - | - | - | 1.78E-04 | 4.32E-05 | - | - | - | - | - | - | - | - | 0.31 | 0.076 |
| | 5-LOAD | RH4-TK-SLOP-LOAD | - | - | - | - | 3.88 | 0.79 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | 6-LOAD | RH2-TK-SLOP-LOAD | - | - | - | - | 12.87 | 1.75 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | 7-LOAD | RH1-TK-SLOP-LOAD | - | - | - | - | 12.86 | 1.75 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| Generators | GEN-1 | RH-GEN-1 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-2 | RH-GEN-2 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-3 | RH-GEN-3 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-4 | RH-GEN-4 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-5 | RH-GEN-5 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-6 | RH-GEN-6 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-7 | RH-GEN-7 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-8 | RH-GEN-8 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-9 | RH-GEN-9 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-10 | RH-GEN-10 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | Trailer-1 | RH-TRAILER | 0.30 | 6.09E-03 | 0.18 | 3.70E-03 | 0.01 | 2.19E-04 | 0.59 | 0.01 | 0.02 | 4.68E-04 | 0.02 | 4.68E-04 | 0.02 | 4.68E-04 | - | - |
| | GEN-WW | RH-GEN-WELL | 0.63 | 0.04 | 0.08 | 4.84E-03 | 0.01 | 7.75E-04 | 0.08 | 4.87E-03 | 0.09 | 5.21E-03 | 0.09 | 5.21E-03 | 0.09 | 5.21E-03 | - | - |
| SSM | 1-EP-1t | RH1-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 2-EP-1t | RH2-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 3-EP-1t | RH3-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 4-EP-1t | RH4-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 5-EP-1t | RH5-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 6-EP-1t | RH6-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 2.5-EP-1t | RHA-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 5.5-EP-1t | RA2-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | EP-5 SSM | RH2-TO-5500-SSM | - | - | - | - | 92.25 | 5.05 | - | - | - | - | - | - | - | - | 9.75 | 0.53 |
| | EP-8 SSM | RH4-TO-45500-SSM | - | - | - | - | 72.89 | 3.99 | - | - | - | - | - | - | - | - | 6.44 | 0.35 |
| | EP-11 | RH5-TO-55500-SSM | - | - | - | - | 88.47 | 7.75 | - | - | - | - | - | - | - | - | 6.47 | 0.57 |

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## Uncontrolled Emission Summary - Tank Scenario 1

| Facility-Wide Emissions | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit Type | OLD Unit ID | Unit ID | $NO_x$ | | CO | | VOC | | $SO_2$ | | $TSP^2$ | | $PM_{10}{}^2$ | | $PM_{2.5}{}^2$ | | $H_2S$ | |
| | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| Pigging | REC-1 | RHA-REC-WINKLER | - | - | - | - | 14.44 | 1.09E-05 | - | - | - | - | - | - | - | - | 0.60 | 0.01 |
| | REC-2 | RHA-REC-LIMESTONE-8INCH | - | - | - | - | 6.94 | 3.49E-06 | - | - | - | - | - | - | - | - | 0.29 | 3.75E-03 |
| | REC-3 | RH1-REC-PLANTVIEW | - | - | - | - | 19.07 | 0.12 | - | - | - | - | - | - | - | - | 1.59E-04 | 1.04E-06 |
| | REC-4 | RH1-REC-GUTLINE | - | - | - | - | 42.46 | 0.83 | - | - | - | - | - | - | - | - | 3.55E-04 | 6.92E-06 |
| | REC-5 | RH1-REC-ABU | - | - | - | - | 49.47 | 0.32 | - | - | - | - | - | - | - | - | 4.14E-04 | 2.69E-06 |
| | REC-6 | RH4-REC-24INCH | - | - | - | - | 199.11 | 0.35 | - | - | - | - | - | - | - | - | 1.66E-03 | 3.25E-05 |
| | REC-8 | RHA-REC-LIMESTONE-10INCH | - | - | - | - | 4.98 | 2.89E-07 | - | - | - | - | - | - | - | - | 0.21 | 3.11E-04 |
| | REC-9 | RA2-REC-GREYHOUND | - | - | - | - | 13.02 | 6.54E-06 | - | - | - | - | - | - | - | - | 0.54 | 7.04E-03 |
| | LAU-1 | RHA-LAU-LIMESTONE-10INCH | - | - | - | - | 4.98 | 2.89E-07 | - | - | - | - | - | - | - | - | 0.21 | 3.11E-04 |
| | LAU-2 | RH1-LAU-NGPL | - | - | - | - | 268.02 | 0.03 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | LAU-3 | RH1-LAU-TW | - | - | - | - | 44.51 | 5.56E-03 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | LAU-4 | RH1-LAU-ETC | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | LAU-5 | RH1-LAU-ONEOK | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | LAU-6 | RH2-LAU-GPX | - | - | - | - | 3,523.73 | 0.84 | - | - | - | - | - | - | - | - | 1.52E-03 | 2.96E-05 |
| Haul Roads | HAUL-1 | RH-HAUL | - | - | - | - | - | - | - | - | 6.37 | 22.54 | 1.62 | 5.75 | 0.16 | 0.57 | - | - |
| Fugitives | FUG | RH-FUG-1 | - | - | - | - | 70.84 | 310.26 | - | - | - | - | - | - | - | - | 5.30E-04 | 2.32E-03 |
| | FUG-1 | RH-FUG-2 | - | - | - | - | 60.38 | 264.47 | - | - | - | - | - | - | - | - | 5.53E-04 | 2.42E-03 |
| | FUG-AGI1 | RHA-FUG | - | - | - | - | 5.38 | 23.57 | - | - | - | - | - | - | - | - | 0.78 | 3.43 |
| | FUG-AGI2 | RA2-FUG | - | - | - | - | 10.72 | 46.94 | - | - | - | - | - | - | - | - | 1.32 | 5.80 |
| **Totals:** | | | **29.13** | **109.92** | **69.47** | **185.00** | **9,315.72** | **13,382.39** | **1.53** | **3.51** | **12.36** | **47.65** | **7.62** | **30.85** | **5.87** | **25.68** | **5,126.07** | **22,559.98** |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## Uncontrolled Emission Summary - Tank Scenario 2

| Facility-Wide Emissions | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit Type | OLD Unit ID | Unit ID | $NO_X$ | | CO | | VOC | | $SO_2$ | | TSP[2] | | $PM_{10}$[2] | | $PM_{2.5}$[2] | | $H_2S$ | |
| | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| Heaters and Reboilers | 1-EP-1 | RH1-H-23-704 | 0.75 | 3.30 | 1.57 | 6.89 | 0.23 | 1.01 | 0.03 | 0.13 | 0.19 | 0.82 | 0.19 | 0.82 | 0.19 | 0.82 | 5.82E-04 | 2.55E-03 |
| | 1.5-EP-1g | RH1-H-1101 | 0.40 | 1.73 | 0.83 | 3.61 | 0.12 | 0.53 | 0.02 | 0.07 | 0.10 | 0.43 | 0.10 | 0.43 | 0.10 | 0.43 | 3.05E-04 | 1.34E-03 |
| | 4-EP-1g | RH4-H-41100 | 0.88 | 3.86 | 0.49 | 2.13 | 0.07 | 0.31 | 9.01E-03 | 0.04 | 0.06 | 0.25 | 0.06 | 0.25 | 0.06 | 0.25 | 1.80E-04 | 7.89E-04 |
| | 2-EP-1a | RH2-H-741 | 0.94 | 4.12 | 0.36 | 1.56 | 0.05 | 0.23 | 6.57E-03 | 0.03 | 0.07 | 0.29 | 0.07 | 0.29 | 0.07 | 0.29 | 1.31E-04 | 5.76E-04 |
| | 2-EP-1b | RH2-H-781 | 0.23 | 1.03 | 0.49 | 2.14 | 0.07 | 0.31 | 9.04E-03 | 0.04 | 0.09 | 0.40 | 0.09 | 0.40 | 0.09 | 0.40 | 1.81E-04 | 7.92E-04 |
| | 2-EP-1e | RH2-H-2301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | 2.74E-03 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | 5.48E-05 | 2.40E-04 |
| | 2-EP-1h | RH2-H-0901 | 1.33 | 5.83 | 2.70 | 11.82 | 0.41 | 1.77 | 0.05 | 0.22 | 0.33 | 1.45 | 0.33 | 1.45 | 0.33 | 1.45 | 1.03E-03 | 4.50E-03 |
| | 2a-EP-1d | RH2-H-1001 | 1.33 | 5.83 | 2.70 | 11.82 | 0.41 | 1.77 | 0.05 | 0.22 | 0.33 | 1.45 | 0.33 | 1.45 | 0.33 | 1.45 | 1.03E-03 | 4.50E-03 |
| | 2.5-EP-1d | RHA-H-4901 | 0.64 | 2.79 | 1.25 | 5.49 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.65 | 0.15 | 0.65 | 0.15 | 0.65 | 4.64E-04 | 2.03E-03 |
| | 3-EP-1a | RH3-H-741 | 0.49 | 2.14 | 0.34 | 1.49 | 0.05 | 0.22 | 6.30E-03 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | 1.26E-04 | 5.52E-04 |
| | 3-EP-1b | RH3-H-781 | 0.40 | 1.77 | 0.73 | 3.21 | 0.11 | 0.47 | 0.01 | 0.06 | 0.04 | 0.16 | 0.04 | 0.16 | 0.04 | 0.16 | 2.71E-04 | 1.19E-03 |
| | 3-EP-1e | RH3-H-6301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | 2.74E-03 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | 5.48E-05 | 2.40E-04 |
| | 4-EP-1a | RH4-H-741 | 0.49 | 2.14 | 0.34 | 1.49 | 0.05 | 0.22 | 6.30E-03 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | 1.26E-04 | 5.52E-04 |
| | 4-EP-1b | RH4-H-781 | 0.45 | 1.99 | 0.83 | 3.61 | 0.12 | 0.53 | 0.015 | 0.067 | 0.10 | 0.43 | 0.10 | 0.43 | 0.10 | 0.43 | 3.05E-04 | 1.34E-03 |
| | 4-EP-1d | RH4-H-3901 | 1.54 | 6.73 | 2.84 | 12.43 | 0.41 | 1.81 | 0.05 | 0.23 | 0.34 | 1.48 | 0.34 | 1.48 | 0.34 | 1.48 | 1.05E-03 | 4.60E-03 |
| | 4-EP-1e | RH4-H-5301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | 2.74E-03 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | 5.48E-05 | 2.40E-04 |
| | 4-EP-1h | RH4-H-4001 | 1.54 | 6.73 | 2.84 | 12.43 | 0.41 | 1.81 | 0.05 | 0.23 | 0.34 | 1.48 | 0.34 | 1.48 | 0.34 | 1.48 | 1.05E-03 | 4.60E-03 |
| | 5-EP-1a | RH5-H-50902 | 1.80 | 7.88 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | 1.23E-03 | 5.39E-03 |
| | 5-EP-1b | RH5-H-50001 | 1.80 | 7.88 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | 1.23E-03 | 5.39E-03 |
| | 5-EP-1c | RH5-H-50741 | 0.48 | 2.11 | 0.34 | 1.47 | 0.05 | 0.21 | 6.22E-03 | 0.03 | 0.04 | 0.17 | 0.04 | 0.17 | 0.04 | 0.17 | 1.24E-04 | 5.44E-04 |
| | 5-EP-1d | RH5-H-50781 | 0.69 | 3.04 | 1.26 | 5.51 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.66 | 0.15 | 0.66 | 0.15 | 0.66 | 4.65E-04 | 2.04E-03 |
| | 6-EP-1a | RH6-H-60001 | 1.88 | 8.23 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | 1.23E-03 | 5.39E-03 |
| | 6-EP-1c | RH6-H-60741 | 0.48 | 2.11 | 0.34 | 1.47 | 0.05 | 0.22 | 6.23E-03 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | 1.25E-04 | 5.46E-04 |
| | 6-EP-1d | RH6-H-60781 | 0.69 | 3.02 | 1.25 | 5.49 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.65 | 0.15 | 0.65 | 0.15 | 0.65 | 4.63E-04 | 2.03E-03 |
| | 5.5-EP-1a | RA2-H-20001 | 1.88 | 8.23 | 3.30 | 14.46 | 0.48 | 2.11 | 0.06 | 0.27 | 0.39 | 1.72 | 0.39 | 1.72 | 0.39 | 1.72 | 1.22E-03 | 5.35E-03 |
| Flares | 1-EP-2 | RH1-FL-29-1003 | 0.33 | 1.45 | 0.66 | 2.88 | 0.01 | 0.06 | 1.51E-03 | 6.61E-03 | - | - | - | - | - | - | - | - |
| | 2-EP-2a | RH2-FL-5100 | 0.37 | 1.62 | 0.74 | 3.23 | 0.01 | 3.23 | 1.69E-03 | 7.40E-03 | - | - | - | - | - | - | - | - |
| | 3-EP-2a | RH3-FL-5100 | 0.37 | 1.62 | 0.74 | 3.23 | 0.01 | 0.06 | 1.69E-03 | 7.40E-03 | - | - | - | - | - | - | - | - |
| | 4-EP-2a | RH4-FL-45100 | 0.37 | 1.62 | 0.74 | 3.23 | 0.01 | 0.06 | 1.69E-03 | 7.40E-03 | - | - | - | - | - | - | - | - |
| | 5-EP-2 | RH5-FL-55100 | 0.76 | 3.31 | 1.51 | 6.60 | 0.03 | 0.13 | 3.45E-03 | 0.02 | - | - | - | - | - | - | - | - |
| | 2.5-EP-5 | RHA-FL-5100 | 0.07 | 0.312 | 0.611 | 2.68 | 5.99E-03 | 0.03 | 1.02E-03 | 4.49E-03 | - | - | - | - | - | - | 2.86E-06 | 1.25E-05 |
| | 5.5-EP-1b | RA2-FL-25100 | 6.69E-03 | 0.029 | 0.057 | 0.25 | 5.63E-04 | 2.46E-03 | 7.00E-05 | 3.07E-04 | - | - | - | - | - | - | 6.88E-06 | 3.02E-05 |
| | EP-9 | RHA-FL-5850 | 6.69E-03 | 0.029 | 0.057 | 0.25 | 5.63E-04 | 2.46E-03 | 7.00E-05 | 3.07E-04 | - | - | - | - | - | - | - | - |
| | EP-13 | RA2-FL-25850 | 6.69E-03 | 0.029 | 0.057 | 0.25 | 5.63E-04 | 2.46E-03 | 7.00E-05 | 3.07E-04 | - | - | - | - | - | - | - | - |
| | EP-7-9 | RH1-FL-2850 | 0.014 | 0.063 | 0.029 | 0.13 | 0.12 | 0.52 | 6.59E-05 | 2.89E-04 | - | - | - | - | - | - | - | - |
| Dehydrators | 1-EP-3 | RH1-TEG | - | - | - | - | 94.22 | 412.68 | - | - | - | - | - | - | - | - | 0.09 | 0.39 |
| | 2a-EP-3 | RH2-TEG | - | - | - | - | 234.23 | 1,025.93 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | 3-EP-3 | RH3-TEG | - | - | - | - | 334.54 | 1,465.28 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | 4-EP-3 | RH4-TEG | - | - | - | - | 215.39 | 943.40 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | 5-EP-1e | RH5-TEG | - | - | - | - | 435.26 | 1,906.46 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | 6-EP-1e | RH6-TEG | - | - | - | - | 378.10 | 1,656.06 | - | - | - | - | - | - | - | - | 0.01 | 0.05 |
| Amine Units | 1-EP-4 | RH1-AMINE | - | - | - | - | 50.45 | 220.96 | - | - | - | - | - | - | - | - | 1.12 | 220.96 |
| | 2-EP-4 | RH2-AMINE | - | - | - | - | 228.39 | 1,000.37 | - | - | - | - | - | - | - | - | 8.66 | 37.95 |
| | 2.5-EP-4 | RHA-AMINE | - | - | - | - | 57.01 | 249.70 | - | - | - | - | - | - | - | - | 752.40 | 3,295.53 |
| | 4-EP-4 | RH4-AMINE | - | - | - | - | 239.32 | 1,048.20 | - | - | - | - | - | - | - | - | 6.46 | 28.31 |
| | 5-EP-1f | RH5-AMINE | - | - | - | - | 280.19 | 1,227.24 | - | - | - | - | - | - | - | - | 6.49 | 28.45 |
| | 5.5-EP-1c | RA2-AMINE | - | - | - | - | 66.90 | 293.03 | - | - | - | - | - | - | - | - | 4,322.06 | 18,930.61 |
| Thermal Oxidizers | EP-5 | RH2-TO-5500 | 0.10 | 0.44 | 0.06 | 0.27 | 0.40 | 1.76 | 0.05 | 0.21 | 0.56 | 2.43 | 0.56 | 2.43 | 0.56 | 2.43 | 2.55E-04 | 1.12E-03 |
| | EP-8 | RH4-TO-45500 | 0.10 | 0.46 | 0.06 | 0.28 | 0.38 | 1.68 | 0.05 | 0.20 | 0.53 | 2.32 | 0.53 | 2.32 | 0.53 | 2.32 | 2.43E-04 | 1.06E-03 |
| | EP-10 | RH5-TO-55500 | 0.08 | 0.36 | 0.05 | 0.22 | 0.31 | 1.34 | 0.04 | 0.16 | 0.42 | 1.85 | 0.42 | 1.85 | 0.14 | 1.85 | 1.94E-04 | 8.51E-04 |
| Tanks | 1-T | RH1-TK-COND-EAST | - | - | - | - | 3.45 | 15.09 | - | - | - | - | - | - | - | - | - | - |
| | 2-T | RHA-TK-SLOP | - | - | - | - | 4.92E-04 | 2.15E-03 | - | - | - | - | - | - | - | - | 0.73 | 3.22 |
| | 3-T | RH1-TK-COND-WEST | - | - | - | - | 3.45 | 15.09 | - | - | - | - | - | - | - | - | - | - |
| | 4-T | RA2-TK-SLOP | - | - | - | - | 4.80E-04 | 2.10E-03 | - | - | - | - | - | - | - | - | 0.83 | 3.63 |
| | 5-T | RH4-TK-SLOP | - | - | - | - | 2.58 | 11.28 | - | - | - | - | - | - | - | - | - | - |
| | 6-T | RH2-TK-SLOP | - | - | - | - | 0.23 | 1.02 | - | - | - | - | - | - | - | - | - | - |
| | 7-T | RH1-TK-SLOP | - | - | - | - | 0.43 | 1.89 | - | - | - | - | - | - | - | - | - | - |
| | MT-1 | RH-TK-METHANOL | - | - | - | - | 0.92 | 4.02 | - | - | - | - | - | - | - | - | - | - |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## Uncontrolled Emission Summary - Tank Scenario 2

| Facility-Wide Emissions | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit Type | OLD Unit ID | Unit ID | $NO_X$ | | CO | | VOC | | $SO_2$ | | TSP[2] | | $PM_{10}$[2] | | $PM_{2.5}$[2] | | $H_2S$ | |
| | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| Loading | 2-LOAD | RHA-TK-SLOP-LOAD | - | - | - | - | 1.87E-06 | 2.48E-07 | - | - | - | - | - | - | - | - | 0.26 | 0.034 |
| | 3-LOAD | RH1-TK-COND-WEST-LOAD | - | - | - | - | 181.98 | 19.60 | - | - | - | - | - | - | - | - | - | - |
| | 4-LOAD | RA2-TK-SLOP-LOAD | - | - | - | - | 1.78E-04 | 4.32E-05 | - | - | - | - | - | - | - | - | 0.31 | 0.076 |
| | 5-LOAD | RH4-TK-SLOP-LOAD | - | - | - | - | 3.88 | 0.79 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | 6-LOAD | RH2-TK-SLOP-LOAD | - | - | - | - | 12.87 | 1.75 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | 7-LOAD | RH1-TK-SLOP-LOAD | - | - | - | - | 12.86 | 1.75 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| Generators | GEN-1 | RH-GEN-1 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-2 | RH-GEN-2 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-3 | RH-GEN-3 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-4 | RH-GEN-4 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-5 | RH-GEN-5 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-6 | RH-GEN-6 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-7 | RH-GEN-7 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-8 | RH-GEN-8 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-9 | RH-GEN-9 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | GEN-10 | RH-GEN-10 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - |
| | Trailer-1 | RH-TRAILER | 0.30 | 6.09E-03 | 0.18 | 3.70E-03 | 0.01 | 2.19E-04 | 0.59 | 0.01 | 0.02 | 4.68E-04 | 0.02 | 4.68E-04 | 0.02 | 4.68E-04 | - | - |
| | GEN-WW | RH-GEN-WELL | 0.63 | 0.04 | 0.08 | 4.84E-03 | 0.01 | 7.75E-04 | 0.08 | 4.87E-03 | 0.09 | 5.21E-03 | 0.09 | 5.21E-03 | 0.09 | 5.21E-03 | - | - |
| SSM | 1-EP-1t | RH1-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 2-EP-1t | RH2-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 3-EP-1t | RH3-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 4-EP-1t | RH4-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 5-EP-1t | RH5-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 6-EP-1t | RH6-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 2.5-EP-1t | RHA-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 5.5-EP-1t | RA2-SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | EP-5 SSM | RH2-TO-5500-SSM | - | - | - | - | 92.25 | 5.05 | - | - | - | - | - | - | - | - | 9.75 | 0.53 |
| | EP-8 SSM | RH4-TO-45500-SSM | - | - | - | - | 72.89 | 3.99 | - | - | - | - | - | - | - | - | 6.44 | 0.35 |
| | EP-11 | RH5-TO-55500-SSM | - | - | - | - | 88.47 | 7.75 | - | - | - | - | - | - | - | - | 6.47 | 0.57 |
| Pigging | REC-1 | RHA-REC-WINKLER | - | - | - | - | 14.44 | 1.09E-05 | - | - | - | - | - | - | - | - | 0.60 | 0.01 |
| | REC-2 | RHA-REC-LIMESTONE-8INCH | - | - | - | - | 6.94 | 3.49E-06 | - | - | - | - | - | - | - | - | 0.29 | 3.75E-03 |
| | REC-3 | RH1-REC-PLANTVIEW | - | - | - | - | 19.07 | 0.12 | - | - | - | - | - | - | - | - | 1.59E-04 | 1.04E-06 |
| | REC-4 | RH1-REC-GUTLINE | - | - | - | - | 42.46 | 0.83 | - | - | - | - | - | - | - | - | 3.55E-04 | 6.92E-06 |
| | REC-5 | RH1-REC-ABU | - | - | - | - | 49.47 | 0.32 | - | - | - | - | - | - | - | - | 4.14E-04 | 2.69E-06 |
| | REC-6 | RH4-REC-24INCH | - | - | - | - | 199.11 | 0.35 | - | - | - | - | - | - | - | - | 1.66E-03 | 3.25E-05 |
| | REC-8 | RHA-REC-LIMESTONE-10INCH | - | - | - | - | 4.98 | 2.89E-07 | - | - | - | - | - | - | - | - | 0.21 | 3.11E-04 |
| | REC-9 | RA2-REC-GREYHOUND | - | - | - | - | 13.02 | 6.54E-06 | - | - | - | - | - | - | - | - | 0.54 | 7.04E-03 |
| | LAU-1 | RHA-LAU-LIMESTONE-10INCH | - | - | - | - | 4.98 | 2.89E-07 | - | - | - | - | - | - | - | - | 0.21 | 3.11E-04 |
| | LAU-2 | RH1-LAU-NGPL | - | - | - | - | 268.02 | 0.03 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | LAU-3 | RH1-LAU-TW | - | - | - | - | 44.51 | 5.56E-03 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | LAU-4 | RH1-LAU-ETC | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | LAU-5 | RH1-LAU-ONEOK | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | 0.00E+00 | 0.00E+00 |
| | LAU-6 | RH2-LAU-GPX | - | - | - | - | 3,523.73 | 0.84 | - | - | - | - | - | - | - | - | 1.52E-03 | 2.96E-05 |
| Haul Roads | HAUL-1 | RH-HAUL | - | - | - | - | - | - | - | - | 6.37 | 22.54 | 1.62 | 5.75 | 0.16 | 0.57 | - | - |
| Fugitives | FUG | RH-FUG-1 | - | - | - | - | 70.84 | 310.26 | - | - | - | - | - | - | - | - | 5.30E-04 | 2.32E-03 |
| | FUG-1 | RH-FUG-2 | - | - | - | - | 60.38 | 264.47 | - | - | - | - | - | - | - | - | 5.53E-04 | 2.42E-03 |
| | FUG-AGI1 | RHA-FUG | - | - | - | - | 5.38 | 23.57 | - | - | - | - | - | - | - | - | 0.78 | 3.43 |
| | FUG-AGI2 | RA2-FUG | - | - | - | - | 10.72 | 46.94 | - | - | - | - | - | - | - | - | 1.32 | 5.80 |
| **Totals:** | | | **29.12** | **109.85** | **69.44** | **184.88** | **9,049.93** | **12,218.22** | **1.53** | **3.51** | **12.36** | **47.65** | **7.62** | **30.85** | **5.87** | **25.68** | **5,126.07** | **22,559.98** |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## Controlled Emission Summary - Tank Scenario 1

| Facility-Wide Controlled Emissions | | | | | | | | | | | | | | | | | | Facility-Wide GHG Emissions | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit Type | OLD Unit ID | Unit ID | $NO_x$ | | CO | | VOC | | $SO_2$ | | $TSP^2$ | | $PM_{10}{}^2$ | | $PM_{2.5}{}^2$ | | $H_2S$ | | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$ |
| | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | ton/yr | ton/yr | ton/yr | ton/yr |
| Heaters and Reboilers | 1-EP-1 | RH1-H-23-704 | 0.75 | 3.30 | 1.57 | 6.89 | 0.23 | 1.01 | 0.03 | 0.13 | 0.19 | 0.82 | 0.19 | 0.82 | 0.19 | 0.82 | 5.82E-04 | 2.55E-03 | 21,775.32 | 0.41 | 0.041 | 21,797.69 |
| | 1.5-EP-1g | RH1-H-1101 | 0.40 | 1.73 | 0.83 | 3.61 | 0.12 | 0.53 | 0.02 | 0.07 | 0.10 | 0.43 | 0.10 | 0.43 | 0.10 | 0.43 | 3.05E-04 | 1.34E-03 | 11,425.64 | 0.22 | 0.022 | 11,437.37 |
| | 4-EP-1q | RH4-H-41100 | 0.88 | 3.86 | 0.49 | 2.13 | 0.07 | 0.31 | 9.01E-03 | 0.04 | 0.06 | 0.25 | 0.06 | 0.25 | 0.06 | 0.25 | 1.80E-04 | 7.89E-04 | 6,742.66 | 0.13 | 0.013 | 6,749.59 |
| | 2-EP-1a | RH2-H-741 | 0.94 | 4.12 | 0.36 | 1.56 | 0.05 | 0.23 | 6.57E-03 | 0.03 | 0.07 | 0.29 | 0.07 | 0.29 | 0.07 | 0.29 | 1.31E-04 | 5.76E-04 | 4,918.66 | 0.093 | 9.27E-03 | 4,923.71 |
| | 2-EP-1b | RH2-H-781 | 0.23 | 1.03 | 0.49 | 2.14 | 0.07 | 0.31 | 9.04E-03 | 0.04 | 0.09 | 0.40 | 0.09 | 0.40 | 0.09 | 0.40 | 1.81E-04 | 7.92E-04 | 6,763.16 | 0.13 | 0.013 | 6,770.10 |
| | 2-EP-1e | RH2-H-2301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | 2.74E-03 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | 5.48E-05 | 2.40E-04 | 2,049.44 | 0.039 | 3.86E-03 | 2,051.55 |
| | 2-EP-1h | RH2-H-0901 | 1.33 | 5.83 | 2.70 | 11.82 | 0.41 | 1.77 | 0.05 | 0.22 | 0.33 | 1.45 | 0.33 | 1.45 | 0.33 | 1.45 | 1.03E-03 | 4.50E-03 | 38,427.04 | 0.72 | 0.072 | 38,466.51 |
| | 2a-EP-1d | RH2-H-1001 | 1.33 | 5.83 | 2.70 | 11.82 | 0.41 | 1.77 | 0.05 | 0.22 | 0.33 | 1.45 | 0.33 | 1.45 | 0.33 | 1.45 | 1.03E-03 | 4.50E-03 | 38,427.04 | 0.72 | 0.072 | 38,466.51 |
| | 2.5-EP-1d | RHA-H-4901 | 0.64 | 2.79 | 1.25 | 5.49 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.65 | 0.15 | 0.65 | 0.15 | 0.65 | 4.64E-04 | 2.03E-03 | 17,369.02 | 0.33 | 0.033 | 17,386.86 |
| | 3-EP-1a | RH3-H-741 | 0.49 | 2.14 | 0.34 | 1.49 | 0.05 | 0.22 | 6.30E-03 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | 1.26E-04 | 5.52E-04 | 4,713.72 | 0.089 | 8.88E-03 | 4,718.56 |
| | 3-EP-1b | RH3-H-781 | 0.40 | 1.77 | 0.73 | 3.21 | 0.11 | 0.47 | 0.01 | 0.06 | 0.09 | 0.38 | 0.09 | 0.38 | 0.09 | 0.38 | 2.71E-04 | 1.19E-03 | 10,144.74 | 0.19 | 0.019 | 10,155.16 |
| | 3-EP-1e | RH3-H-6301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | 2.74E-03 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | 5.48E-05 | 2.40E-04 | 2,049.44 | 0.039 | 3.86E-03 | 2,051.55 |
| | 4-EP-1a | RH4-H-741 | 0.49 | 2.14 | 0.34 | 1.49 | 0.05 | 0.22 | 6.30E-03 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | 1.26E-04 | 5.52E-04 | 4,713.72 | 0.089 | 8.88E-03 | 4,718.56 |
| | 4-EP-1b | RH4-H-781 | 0.45 | 1.99 | 0.83 | 3.61 | 0.12 | 0.53 | 0.02 | 0.07 | 0.10 | 0.43 | 0.10 | 0.43 | 0.10 | 0.43 | 3.05E-04 | 1.34E-03 | 11,425.64 | 0.22 | 0.022 | 11,437.37 |
| | 4-EP-1d | RH4-H-3901 | 1.54 | 6.73 | 2.84 | 12.43 | 0.41 | 1.81 | 0.05 | 0.23 | 0.34 | 1.48 | 0.34 | 1.48 | 0.34 | 1.48 | 1.05E-03 | 4.60E-03 | 39,313.42 | 0.74 | 0.074 | 39,353.80 |
| | 4-EP-1e | RH4-H-5301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | 2.74E-03 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | 5.48E-05 | 2.40E-04 | 2,049.44 | 0.039 | 3.86E-03 | 2,051.55 |
| | 4-EP-1h | RH4-H-4001 | 1.54 | 6.73 | 2.84 | 12.43 | 0.41 | 1.81 | 0.05 | 0.23 | 0.34 | 1.48 | 0.34 | 1.48 | 0.34 | 1.48 | 1.05E-03 | 4.60E-03 | 39,313.42 | 0.74 | 0.074 | 39,353.80 |
| | 5-EP-1a | RH5-H-50902 | 1.80 | 7.88 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | 1.23E-03 | 5.39E-03 | 46,081.70 | 0.87 | 0.087 | 46,129.03 |
| | 5-EP-1b | RH5-H-50001 | 1.80 | 7.88 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | 1.23E-03 | 5.39E-03 | 46,081.70 | 0.87 | 0.087 | 46,129.03 |
| | 5-EP-1c | RH5-H-50741 | 0.48 | 2.11 | 0.34 | 1.47 | 0.05 | 0.21 | 6.22E-03 | 0.03 | 0.04 | 0.17 | 0.04 | 0.17 | 0.04 | 0.17 | 1.24E-04 | 5.44E-04 | 4,652.23 | 0.088 | 8.77E-03 | 4,657.01 |
| | 5-EP-1d | RH5-H-50781 | 0.69 | 3.04 | 1.26 | 5.51 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.66 | 0.15 | 0.66 | 0.15 | 0.66 | 4.65E-04 | 2.04E-03 | 17,415.13 | 0.33 | 0.033 | 17,433.02 |
| | 6-EP-1a | RH6-H-60001 | 1.88 | 8.23 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | 1.23E-03 | 5.39E-03 | 46,081.70 | 0.87 | 0.087 | 46,129.03 |
| | 6-EP-1c | RH6-H-60741 | 0.48 | 2.11 | 0.34 | 1.47 | 0.05 | 0.22 | 6.23E-03 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | 1.25E-04 | 5.46E-04 | 4,662.48 | 0.088 | 8.79E-03 | 4,667.27 |
| | 6-EP-1d | RH6-H-60781 | 0.69 | 3.02 | 1.25 | 5.49 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.65 | 0.15 | 0.65 | 0.15 | 0.65 | 4.63E-04 | 2.03E-03 | 17,343.40 | 0.33 | 0.033 | 17,361.22 |
| | 5.5-EP-1a | RA2-H-20001 | 1.88 | 8.23 | 3.30 | 14.46 | 0.48 | 2.11 | 0.06 | 0.27 | 0.39 | 1.72 | 0.39 | 1.72 | 0.39 | 1.72 | 1.22E-03 | 5.35E-03 | 45,723.05 | 0.86 | 0.086 | 45,770.01 |
| Flares | 1-EP-2 | RH1-FL-29-1003 | 211.68 | 4.03 | 1,811.27 | 16.76 | 292.49 | 7.22 | 2.02 | 0.67 | - | - | - | - | - | - | 0.024 | 7.56E-03 | 4,520.10 | 8.09 | 8.07E-03 | 4,748.87 |
| | 2-EP-2a | RH2-FL-5100 | 563.35 | 6.01 | 4,827.80 | 34.64 | 243.62 | 1.64 | 5.00 | 0.05 | - | - | - | - | - | - | 0.060 | 1.95E-03 | 15,868.91 | 1,095.67 | 0.01 | 46,551.47 |
| | 3-EP-2a | RH3-FL-5100 | 563.35 | 5.12 | 4,827.80 | 32.67 | 210.49 | 0.86 | 5.00 | 5.01 | - | - | - | - | - | - | 0.060 | 0.06 | 7,486.91 | 196.93 | 0.01 | 13,004.33 |
| | 4-EP-2a | RH4-FL-45100 | 648.31 | 6.56 | 5,552.87 | 39.38 | 291.05 | 2.72 | 5.75 | 0.06 | - | - | - | - | - | - | 0.069 | 2.09E-03 | 9,193.53 | 709.67 | 0.02 | 29,068.47 |
| | 5-EP-2 | RH5-FL-55100 | 648.18 | 11.60 | 5,552.63 | 74.76 | 419.45 | 2.11 | 5.75 | 0.08 | - | - | - | - | - | - | 0.069 | 9.91E-04 | 16,718.57 | 394.24 | 0.03 | 27,765.24 |
| | 2.5-EP-5 | RHA-FL-5100[1] | 16.87 | 6.33 | 144.65 | 54.24 | 6.76 | 12.62 | 259.57 | 97.34 | - | - | - | - | - | - | 2.85 | 1.07 | 16,990.24 | 519.00 | 0.019 | 31,527.40 |
| | | | 16.83 | | 144.32 | | 33.66 | | 128.29 | | - | - | - | - | - | - | 1.39 | | | | | |
| | 5.5-EP-1b | RA2-FL-25100[2] | 21.15 | 7.93 | 181.30 | 67.99 | 77.28 | 28.98 | 258.17 | 96.81 | - | - | - | - | - | - | 2.799 | 1.05 | 27,081.77 | 253.93 | 0.020 | 34,197.31 |
| | | | 16.92 | | 145.07 | | 39.16 | | 127.13 | | - | - | - | - | - | - | 1.38 | | | | | |
| | EP-9 | RHA-FL-5850 | 0.05 | 0.03 | 0.22 | 0.27 | 5.74E-04 | 2.51E-03 | 1.60 | 6.99 | - | - | - | - | - | - | 0.02 | 0.07 | 38.14 | 0.13 | 4.76E-05 | 41.81 |
| | EP-13 | RA2-FL-25850 | 0.24 | 0.03 | 0.98 | 0.27 | 0.04 | 2.59E-03 | 1.81 | 7.95 | - | - | - | - | - | - | 0.02 | 0.03 | 76.53 | 0.31 | 1.07E-04 | 85.35 |
| | EP-7-9 | RH1-FL-2850 | 7.73 | 0.32 | 30.76 | 0.66 | 77.74 | 1.78 | 6.59E-05 | 2.89E-04 | - | - | - | - | - | - | 7.14E-07 | 3.13E-06 | 777.64 | 0.31 | 4.79E-04 | 786.55 |
| | RH4-FL-46200 | RH4-FL-46200 | 0.99 | 4.34 | 1.98 | 8.66 | 6.03 | 26.41 | 6.59E-05 | 2.89E-04 | - | - | - | - | - | - | 7.14E-07 | 3.13E-06 | 3,640.97 | 0.58 | 6.93E-03 | 3,659.12 |
| | | | 8.00 | | 15.97 | | 13.03 | | 3.49E-04 | | - | - | - | - | - | - | 1.89E-04 | | - | - | - | - |
| | | | 5.00 | | 9.98 | | 8.15 | | 2.18E-04 | | - | - | - | - | - | - | 1.18E-04 | | - | - | - | - |
| | | | 5.00 | | 9.98 | | 8.15 | | 2.18E-04 | | - | - | - | - | - | - | 1.18E-04 | | - | - | - | - |
| | Flare-M | Flare-M[3] | 5.00 | 10.00 | 9.98 | 10.00 | 8.15 | 10.00 | 2.18E-04 | 10.00 | - | - | - | - | - | - | 1.18E-04 | 9.00 | - | - | - | - |
| | | | 5.00 | | 9.98 | | 8.15 | | 2.18E-04 | | - | - | - | - | - | - | 1.18E-04 | | - | - | - | - |
| | | | 16.83 | | 144.32 | | 33.66 | | 128.29 | | - | - | - | - | - | - | 1.39 | | - | - | - | - |
| | | | 16.92 | | 145.07 | | 39.16 | | 127.13 | | - | - | - | - | - | - | 1.38 | | - | - | - | - |
| Dehydrators | 1-EP-3 | RH1-TEG[4] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 2a-EP-3 | RH2-TEG[5] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 3-EP-3 | RH3-TEG[6] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 4-EP-3 | RH4-TEG[7] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 5-EP-1e | RH5-TEG[8] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 6-EP-1e | RH6-TEG[9] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Amine Units | 1-EP-4 | RH1-AMINE[10] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 2-EP-4 | RH2-AMINE[11] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 2.5-EP-4 | RHA-AMINE[12] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 4-EP-4 | RH4-AMINE[13] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 5-EP-1f | RH5-AMINE[14] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 5.5-EP-1c | RA2-AMINE[15] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Thermal Oxidizers | EP-5 | RH2-TO-5500 | 1.71 | 6.66 | 6.27 | 4.06 | 16.75 | 20.49 | 19.36 | 84.80 | 0.67 | 2.94 | 0.67 | 2.94 | 0.67 | 2.94 | 0.11 | 0.47 | 46,129.80 | 0.87 | 0.087 | 46,177.17 |
| | EP-8 | RH4-TO-45500 | 1.25 | 5.92 | 0.76 | 3.61 | 2.57 | 11.26 | 14.07 | 61.65 | 0.60 | 2.61 | 0.60 | 2.61 | 0.60 | 2.61 | 0.07 | 0.31 | 41,006.29 | 0.77 | 0.077 | 41,048.40 |
| | EP-10 | RH5-TO-55500 | 1.24 | 5.89 | 0.75 | 3.59 | 6.45 | 28.25 | 14.15 | 61.98 | 0.56 | 2.45 | 0.56 | 2.45 | 0.56 | 2.45 | 0.07 | 0.31 | 38,444.91 | 0.72 | 0.072 | 38,484.39 |
| Tanks | 1-T | RH1-TK-COND-EAST[16] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 2-T | RHA-TK-SLOP[17] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 3-T | RH1-TK-COND-WEST[18] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 4-T | RA2-TK-SLOP[19] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 5-T | RH4-TK-SLOP | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 6-T | RH2-TK-SLOP | - | - | - | - | 0.23 | 1.02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 7-T | RH1-TK-SLOP | - | - | - | - | 0.43 | 1.89 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | MT-1 | RH-TK-METHANOL | - | - | - | - | 0.92 | 4.02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Loading | 2-LOAD | RHA-TK-SLOP-LOAD[20] | - | - | - | - | 5.62E-07 | 7.43E-08 | - | - | - | - | - | - | - | - | 0.077 | 0.01 | 0.046 | 1.04E-07 | - | 0.046 |
| | 3-LOAD | RH1-TK-COND-WEST-LOAD[21] | - | - | - | - | 54.59 | 5.88 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 4-LOAD | RA2-TK-SLOP-LOAD[22] | - | - | - | - | 5.33E-05 | 1.30E-05 | - | - | - | - | - | - | - | - | 0.093 | 0.02 | 0.080 | 2.63E-07 | - | 0.080 |
| | 5-LOAD | RH4-TK-SLOP-LOAD | - | - | - | - | 3.88 | 0.79 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 6-LOAD | RH2-TK-SLOP-LOAD | - | - | - | - | 12.87 | 1.75 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 7-LOAD | RH1-TK-SLOP-LOAD | - | - | - | - | 12.86 | 1.75 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## Controlled Emission Summary - Tank Scenario 1

| Facility-Wide Controlled Emissions | | | | | | | | | | | | | | | | | | | | Facility-Wide GHG Emissions | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit Type | OLD Unit ID | Unit ID | $NO_x$ | | CO | | VOC | | $SO_2$ | | TSP[2] | | $PM_{10}$[2] | | $PM_{2.5}$[2] | | $H_2S$ | | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$ |
| | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | ton/yr | ton/yr | ton/yr | ton/yr |
| Generators | GEN-1 | RH-GEN-1 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-2 | RH-GEN-2 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-3 | RH-GEN-3 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-4 | RH-GEN-4 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-5 | RH-GEN-5 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-6 | RH-GEN-6 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-7 | RH-GEN-7 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-8 | RH-GEN-8 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-9 | RH-GEN-9 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-10 | RH-GEN-10 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | Trailer-1 | RH-TRAILER | 0.30 | 6.09E-03 | 0.18 | 3.70E-03 | 0.01 | 2.19E-04 | 0.59 | 0.01 | 0.02 | 4.68E-04 | 0.02 | 4.68E-04 | 0.02 | 4.68E-04 | - | - | 3.26 | 1.32E-04 | 2.65E-05 | 3.27 |
| | GEN-WW | RH-GEN-WELL | 0.63 | 0.04 | 0.08 | 4.84E-03 | 0.01 | 7.75E-04 | 0.08 | 4.87E-03 | 0.09 | 5.21E-03 | 0.09 | 5.21E-03 | 0.09 | 5.21E-03 | - | - | 2.74 | 1.11E-04 | 2.22E-05 | 2.75 |
| SSM | 1-EP-1t | RH1-SSM | - | - | - | - | 6,070.44 | 24.93 | - | - | 47.79 | 0.14 | 6.79 | 0.02 | 0.68 | 2.03E-03 | 0.05 | 9.19E-05 | 7.37 | 0.66 | - | 25.73 |
| | 2-EP-1t | RH2-SSM | - | - | - | - | 836.33 | 5.68 | - | - | | 0.14 | | 0.02 | | 2.03E-03 | 0.04 | 1.33E-04 | 7.55 | 255.73 | - | 7,168.06 |
| | 3-EP-1t | RH3-SSM | - | - | - | - | 835.66 | 3.99 | - | - | | 0.14 | | 0.02 | | 2.03E-03 | 0.05 | 1.49E-04 | 7.23 | 254.74 | - | 7,139.88 |
| | 4-EP-1t | RH4-SSM | - | - | - | - | 914.80 | 6.10 | - | - | | 0.14 | | 0.02 | | 2.03E-03 | 0.04 | 1.04E-04 | 4.05 | 153.54 | - | 4,303.20 |
| | 5-EP-1t | RH5-SSM | - | - | - | - | 802.28 | 6.78 | - | - | | 0.14 | | 0.02 | | 2.03E-03 | 0.04 | 1.04E-04 | 4.05 | 153.54 | - | 4,303.20 |
| | 6-EP-1t | RH6-SSM | - | - | - | - | 992.49 | 6.03 | - | - | | 0.14 | | 0.02 | | 2.03E-03 | 7.82E-03 | 3.65E-05 | 4.07 | 152.58 | - | 4,276.39 |
| | 2.5-EP-1t | RHA-SSM | - | - | - | - | 175.31 | 1.48 | - | - | | 0.14 | | 0.02 | | 2.03E-03 | 3.97 | 0.01 | 0.17 | 0.06 | - | 1.80 |
| | 5.5-EP-1t | RA2-SSM | - | - | - | - | 288.99 | 2.42 | - | - | | 0.14 | | 0.02 | | 2.03E-03 | 13.79 | 0.04 | 0.71 | 0.23 | - | 7.21 |
| | EP-5 SSM | RH2-TO-5500-SSM | - | - | - | - | 92.25 | 5.05 | - | - | - | - | - | - | - | - | 9.75 | 0.53 | 5,086.27 | 4.47 | - | 5,211.48 |
| | EP-8 SSM | RH4-TO-45500-SSM | - | - | - | - | 72.89 | 3.99 | - | - | - | - | - | - | - | - | 6.44 | 0.35 | 4,033.44 | 3.50 | - | 4,131.33 |
| | EP-11 | RH5-TO-55500-SSM | - | - | - | - | 88.47 | 7.75 | - | - | - | - | - | - | - | - | 6.47 | 0.57 | 6,515.14 | 6.56 | - | 6,698.91 |
| Pigging | REC-1 | RHA-REC-WINKLER | - | - | - | - | 5.58E-04 | 1.09E-05 | - | - | - | - | - | - | - | - | 6.81E-05 | 1.33E-06 | 0.14 | 0.03 | - | 1.02 |
| | REC-2 | RHA-REC-LIMESTONE-8INCH | - | - | - | - | 2.68E-04 | 3.49E-06 | - | - | - | - | - | - | - | - | 3.27E-05 | 4.26E-07 | 0.05 | 0.010 | - | 0.33 |
| | REC-3 | RH1-REC-PLANTVIEW | - | - | - | - | 19.07 | 0.12 | - | - | - | - | - | - | - | - | 1.59E-04 | 1.04E-06 | 0.033 | 0.27 | - | 7.67 |
| | REC-4 | RH1-REC-GUTLINE | - | - | - | - | 42.46 | 0.83 | - | - | - | - | - | - | - | - | 3.55E-04 | 6.92E-06 | 0.22 | 1.82 | - | 51.24 |
| | REC-5 | RH1-REC-ABU | - | - | - | - | 49.47 | 0.32 | - | - | - | - | - | - | - | - | 4.14E-04 | 2.69E-06 | 0.084 | 0.71 | - | 19.90 |
| | REC-6 | RH4-REC-24INCH | - | - | - | - | 17.70 | 0.35 | - | - | - | - | - | - | - | - | 1.48E-04 | 2.89E-06 | 0.091 | 0.76 | - | 21.36 |
| | REC-8 | RHA-REC-LIMESTONE-10INCH | - | - | - | - | 1.92E-04 | 2.89E-07 | - | - | - | - | - | - | - | - | 2.35E-05 | 3.52E-08 | 3.73E-03 | 8.36E-04 | - | 0.027 |
| | REC-9 | RA2-REC-GREYHOUND | - | - | - | - | 5.03E-04 | 6.54E-06 | - | - | - | - | - | - | - | - | 6.14E-05 | 7.98E-07 | 0.08 | 0.019 | - | 0.61 |
| | LAU-1 | RHA-LAU-LIMESTONE-10INCH | - | - | - | - | 1.92E-04 | 2.89E-07 | - | - | - | - | - | - | - | - | 2.35E-05 | 3.52E-08 | 3.73E-03 | 8.36E-04 | - | 0.027 |
| | LAU-2 | RH1-LAU-NGPL | - | - | - | - | 268.02 | 0.03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | LAU-3 | RH1-LAU-TW | - | - | - | - | 44.51 | 5.56E-03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | LAU-4 | RH1-LAU-ETC | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | - | - | 1.23E-04 | 0.04 | - | 1.09 |
| | LAU-5 | RH1-LAU-ONEOK | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | - | - | 1.23E-04 | 0.04 | - | 1.09 |
| | LAU-6 | RH2-LAU-GPX | - | - | - | - | 3,342.31 | 0.84 | - | - | - | - | - | - | - | - | - | - | 1.02E-03 | 0.323 | - | 9.05 |
| Haul Roads | HAUL-1 | RH-HAUL | - | - | - | - | - | - | - | - | 1.43 | 5.05 | 0.36 | 1.29 | 0.04 | 0.13 | - | - | - | - | - | - |
| Fugitives | FUG | RH-FUG-1 | - | - | - | - | 70.84 | 310.26 | - | - | - | - | - | - | - | - | 5.30E-04 | 2.32E-03 | 14.42 | 167.37 | - | 4,700.75 |
| | FUG-1 | RH-FUG-2 | - | - | - | - | 60.38 | 264.47 | - | - | - | - | - | - | - | - | 5.53E-04 | 2.42E-03 | 29.72 | 223.00 | - | 6,273.80 |
| | FUG-AGI1 | RHA-FUG | - | - | - | - | 5.38 | 23.57 | - | - | - | - | - | - | - | - | 0.78 | 3.43 | 5.78 | 57.77 | - | 1623.27 |
| | FUG-AGI2 | RA2-FUG | - | - | - | - | 10.72 | 46.94 | - | - | - | - | - | - | - | - | 1.32 | 5.80 | 10.07 | 100.85 | - | 2,833.74 |
| **Totals:** | | | **2,707.37** | **179.30** | **22,965.58** | **512.93** | **18,440.36** | **916.62** | **331.34** | **436.28** | **55.58** | **32.91** | **13.51** | **28.17** | **7.08** | **26.87** | **46.29** | **23.22** | **735,001.36** | **4,729.17** | **1.30** | **867,762.67** |

*NOTES:*

[1] RHA-FL-5100 has two hourly emission limits; one if it is operating simultaneously as RA2-FL-25100 and one if it is not.

[2] RA2-FL-25100 has two hourly emission limits; one if it is operating simultaneously as RHA-FL-5100 and one if it is not.

[3] There is no hourly SSM flaring at the same time as Flare-M Malfunction Flaring.

[4] There are no emissions from RH1-TEG in a controlled scenario. Flash tank overheads are routed back to process. Regenerator overheads are controlled by RH1-FL-29-1004 with 100% capture and 98% DRE.

[5] There are no emissions from RH2-TEG in a controlled scenario. Flash tank overheads are routed back to process. Regenerator overheads are controlled by RH2-TO-5500 with 100% capture and 99% DRE.

[6] There are no emissions from RH3-TEG in a controlled scenario. Flash tank overheads are routed back to process. Regenerator overheads are controlled by RH4-TO-45500 with 100% capture and 99% DRE.

[7] There are no emissions from RH4-TEG in a controlled scenario. Flash tank overheads are routed back to process. Regenerator overheads are controlled by RH4-TO-45500 with 100% capture and 99% DRE.

[8] There are no emissions from RH5-TEG in a controlled scenario. Flash tank overheads are routed back to process. Regenerator overheads are controlled by RH5-TO-55500 with 100% capture and 99% DRE.

[9] There are no emissions from RH6-TEG in a controlled scenario. Flash tank overheads are routed back to process. Regenerator overheads are controlled by RH5-TO-55500 with 100% capture and 99% DRE.

[10] There are no emissions from RH1-AMINE in a controlled scenario. Flash tank overheads are routed back to process. Still vent overheads are controlled by RH2-TO-5500 with 100% capture and 99% DRE.

[11] There are no emissions from RH2-AMINE in a controlled scenario. Flash tank overheads are routed back to process. Still vent overheads are controlled by RH2-TO-5500 with 100% capture and 99% DRE.

[12] There are no emissions from RHA-AMINE in a controlled scenario. All emissions are routed to AGI-1. During AGI-1 downtime, flash tank overheads are routed back to process and still vent overheads are controlled by RHA-FL-5100 with 100% capture and 98% DRE.

[13] There are no emissions from RH4-AMINE in a controlled scenario. Flash tank overheads are routed back to process. Still vent overheads are controlled by RH4-TO-45500 with 100% capture and 99% DRE.

[14] There are no emissions from RH5-AMINE in a controlled scenario. Flash tank overheads are routed back to process. Still vent overheads are controlled by RH5-TO-55500 with 100% capture and 99% DRE.

[15] There are no emissions from RA2-AMINE in a controlled scenario. All emissions are routed to AGI-2. During AGI-2 downtime, flash tank overheads are routed back to process and still vent overheads are controlled by RA2-FL-25100 with 100% capture and 98% DRE.

[16] There are no emissions from RH1-TK-COND-EAST in a controlled scenario. All emissions are routed to RH1-FL-2850 with 100% capture and 98% DRE. No loading is permitted from this tank battery.

[17] There are no emissions from RHA-TK-SLOP in a controlled scenario. All emissions are routed to RHA-FL-5850 with 100% capture and 98% DRE.

[18] There are no emissions from RH1-TK-COND-WEST in a controlled scenario. All emissions are routed to RH1-FL-2850 with 100% capture and 98% DRE.

[19] There are no emissions from RA2-TK-SLOP in a controlled scenario. All emissions are routed to RA2-FL-25850 with 100% capture and 98% DRE.

[20] Emissions from RHA-TK-SLOP-LOAD are routed to RHA-FL-5850 with a 70% capture and 98% DRE.

[21] Emissions from RH2-TK-COND-WEST-LOAD are routed to RH1-FL-2850 with a 70% capture and 98% DRE.

[22] Emissions from RA2-TK-SLOP-LOAD are routed to RA2-FL-25850 with a 70% capture and 98% DRE.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## Controlled Emission Summary - Tank Scenario 2

| Facility-Wide Controlled Emissions | | | | | | | | | | | | | | | | | | | | | Facility-Wide GHG Emissions | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit Type | OLD Unit ID | Unit ID | $NO_X$ | | CO | | VOC | | $SO_2$ | | TSP[2] | | $PM_{10}$[2] | | $PM_{2.5}$[2] | | $H_2S$ | | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$ |
| | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | ton/yr | ton/yr | ton/yr | ton/yr |
| Heaters and Reboilers | 1-EP-1 | RH1-H-23-704 | 0.75 | 3.30 | 1.57 | 6.89 | 0.23 | 1.01 | 0.03 | 0.13 | 0.19 | 0.82 | 0.19 | 0.82 | 0.19 | 0.82 | 5.82E-04 | 2.55E-03 | 21,775.32 | 0.41 | 0.041 | 21,797.69 |
| | 1.5-EP-1g | RH1-H-1101 | 0.40 | 1.73 | 0.83 | 3.61 | 0.12 | 0.53 | 0.02 | 0.07 | 0.10 | 0.43 | 0.10 | 0.43 | 0.10 | 0.43 | 3.05E-04 | 1.34E-03 | 11,425.64 | 0.22 | 0.022 | 11,437.37 |
| | 4-EP-1q | RH4-H-41100 | 0.88 | 3.86 | 0.49 | 2.13 | 0.07 | 0.31 | 9.01E-03 | 0.04 | 0.06 | 0.25 | 0.06 | 0.25 | 0.06 | 0.25 | 1.80E-04 | 7.89E-04 | 6,742.66 | 0.13 | 0.013 | 6,749.59 |
| | 2-EP-1a | RH2-H-741 | 0.94 | 4.12 | 0.36 | 1.56 | 0.05 | 0.23 | 6.57E-03 | 0.03 | 0.07 | 0.29 | 0.07 | 0.29 | 0.07 | 0.29 | 1.31E-04 | 5.76E-04 | 4,918.66 | 0.093 | 9.27E-03 | 4,923.71 |
| | 2-EP-1b | RH2-H-781 | 0.23 | 1.03 | 0.49 | 2.14 | 0.07 | 0.31 | 9.04E-03 | 0.04 | 0.09 | 0.40 | 0.09 | 0.40 | 0.09 | 0.40 | 1.81E-04 | 7.92E-04 | 6,763.16 | 0.13 | 0.013 | 6,770.10 |
| | 2-EP-1e | RH2-H-2301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | 2.74E-03 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | 5.48E-05 | 2.40E-04 | 2,049.44 | 0.039 | 3.86E-03 | 2,051.55 |
| | 2-EP-1h | RH2-H-0901 | 1.33 | 5.83 | 2.70 | 11.82 | 0.41 | 1.77 | 0.05 | 0.22 | 0.33 | 1.45 | 0.33 | 1.45 | 0.33 | 1.45 | 1.03E-03 | 4.50E-03 | 38,427.04 | 0.72 | 0.072 | 38,466.51 |
| | 2a-EP-1d | RH2-H-1001 | 1.33 | 5.83 | 2.70 | 11.82 | 0.41 | 1.77 | 0.05 | 0.22 | 0.33 | 1.45 | 0.33 | 1.45 | 0.33 | 1.45 | 1.03E-03 | 4.50E-03 | 38,427.04 | 0.72 | 0.072 | 38,466.51 |
| | 2.5-EP-1d | RHA-H-4901 | 0.64 | 2.79 | 1.25 | 5.49 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.65 | 0.15 | 0.65 | 0.15 | 0.65 | 4.64E-04 | 2.03E-03 | 17,369.02 | 0.33 | 0.033 | 17,386.86 |
| | 3-EP-1a | RH3-H-741 | 0.49 | 2.14 | 0.34 | 1.49 | 0.05 | 0.22 | 6.30E-03 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | 1.26E-04 | 5.52E-04 | 4,713.72 | 0.089 | 8.88E-03 | 4,718.56 |
| | 3-EP-1b | RH3-H-781 | 0.40 | 1.77 | 0.73 | 3.21 | 0.11 | 0.47 | 0.01 | 0.06 | 0.09 | 0.38 | 0.09 | 0.38 | 0.09 | 0.38 | 2.71E-04 | 1.19E-03 | 10,144.74 | 0.19 | 0.019 | 10,155.16 |
| | 3-EP-1e | RH3-H-6301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | 2.74E-03 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | 5.48E-05 | 2.40E-04 | 2,049.44 | 0.039 | 3.86E-03 | 2,051.55 |
| | 4-EP-1a | RH4-H-741 | 0.49 | 2.14 | 0.34 | 1.49 | 0.05 | 0.22 | 6.30E-03 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | 1.26E-04 | 5.52E-04 | 4,713.72 | 0.089 | 8.88E-03 | 4,718.56 |
| | 4-EP-1b | RH4-H-781 | 0.45 | 1.99 | 0.83 | 3.61 | 0.12 | 0.53 | 0.02 | 0.07 | 0.10 | 0.43 | 0.10 | 0.43 | 0.10 | 0.43 | 3.05E-04 | 1.34E-03 | 11,425.64 | 0.22 | 0.022 | 11,437.37 |
| | 4-EP-1d | RH4-H-3901 | 1.54 | 6.73 | 2.84 | 12.43 | 0.41 | 1.81 | 0.05 | 0.23 | 0.34 | 1.48 | 0.34 | 1.48 | 0.34 | 1.48 | 1.05E-03 | 4.60E-03 | 39,313.42 | 0.74 | 0.074 | 39,353.80 |
| | 4-EP-1e | RH4-H-5301 | 0.39 | 1.72 | 0.15 | 0.65 | 0.02 | 0.09 | 2.74E-03 | 0.01 | 0.02 | 0.08 | 0.02 | 0.08 | 0.02 | 0.08 | 5.48E-05 | 2.40E-04 | 2,049.44 | 0.039 | 3.86E-03 | 2,051.55 |
| | 4-EP-1h | RH4-H-4001 | 1.54 | 6.73 | 2.84 | 12.43 | 0.41 | 1.81 | 0.05 | 0.23 | 0.34 | 1.48 | 0.34 | 1.48 | 0.34 | 1.48 | 1.05E-03 | 4.60E-03 | 39,313.42 | 0.74 | 0.074 | 39,353.80 |
| | 5-EP-1a | RH5-H-50902 | 1.80 | 7.88 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | 1.23E-03 | 5.39E-03 | 46,081.70 | 0.87 | 0.087 | 46,129.03 |
| | 5-EP-1b | RH5-H-50001 | 1.80 | 7.88 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | 1.23E-03 | 5.39E-03 | 46,081.70 | 0.87 | 0.087 | 46,129.03 |
| | 5-EP-1c | RH5-H-50741 | 0.48 | 2.11 | 0.34 | 1.47 | 0.05 | 0.21 | 6.22E-03 | 0.03 | 0.04 | 0.17 | 0.04 | 0.17 | 0.04 | 0.17 | 1.24E-04 | 5.44E-04 | 4,652.23 | 0.088 | 8.77E-03 | 4,657.01 |
| | 5-EP-1d | RH5-H-50781 | 0.69 | 3.04 | 1.26 | 5.51 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.66 | 0.15 | 0.66 | 0.15 | 0.66 | 4.65E-04 | 2.04E-03 | 17,415.13 | 0.33 | 0.033 | 17,433.02 |
| | 6-EP-1a | RH6-H-60001 | 1.88 | 8.23 | 3.33 | 14.58 | 0.49 | 2.13 | 0.06 | 0.27 | 0.40 | 1.73 | 0.40 | 1.73 | 0.40 | 1.73 | 1.23E-03 | 5.39E-03 | 46,081.70 | 0.87 | 0.087 | 46,129.03 |
| | 6-EP-1c | RH6-H-60741 | 0.48 | 2.11 | 0.34 | 1.47 | 0.05 | 0.22 | 6.23E-03 | 0.03 | 0.04 | 0.18 | 0.04 | 0.18 | 0.04 | 0.18 | 1.25E-04 | 5.46E-04 | 4,662.48 | 0.088 | 8.79E-03 | 4,667.27 |
| | 6-EP-1d | RH6-H-60781 | 0.69 | 3.02 | 1.25 | 5.49 | 0.18 | 0.80 | 0.02 | 0.10 | 0.15 | 0.65 | 0.15 | 0.65 | 0.15 | 0.65 | 4.63E-04 | 2.03E-03 | 17,343.40 | 0.33 | 0.033 | 17,361.22 |
| | 5.5-EP-1a | RA2-H-20001 | 1.88 | 8.23 | 3.30 | 14.46 | 0.48 | 2.11 | 0.06 | 0.27 | 0.39 | 1.72 | 0.39 | 1.72 | 0.39 | 1.72 | 1.22E-03 | 5.35E-03 | 45,723.05 | 0.86 | 0.086 | 45,770.01 |
| Flares | 1-EP-2 | RH1-FL-29-1003 | 211.68 | 4.03 | 1,811.27 | 16.76 | 292.49 | 7.22 | 2.02 | 0.67 | - | - | - | - | - | - | 0.02 | 7.56E-03 | 4,520.10 | 8.09 | 8.07E-03 | 4,748.87 |
| | 2-EP-2a | RH2-FL-5100 | 563.35 | 6.01 | 4,827.80 | 34.64 | 243.62 | 1.64 | 5.00 | 0.05 | - | - | - | - | - | - | 0.06 | 1.95E-03 | 15,868.91 | 1,095.67 | 0.01 | 46,551.47 |
| | 3-EP-2a | RH3-FL-5100 | 563.35 | 5.12 | 4,827.80 | 32.67 | 210.49 | 0.86 | 5.00 | 5.01 | - | - | - | - | - | - | 0.06 | 0.06 | 7,486.91 | 196.93 | 0.01 | 13,004.33 |
| | 4-EP-2a | RH4-FL-45100 | 648.31 | 6.56 | 5,552.87 | 39.38 | 291.05 | 2.72 | 5.75 | 0.06 | - | - | - | - | - | - | 0.07 | 2.09E-03 | 9,193.53 | 709.67 | 0.02 | 29,068.47 |
| | 5-EP-2 | RH5-FL-55100 | 648.18 | 11.60 | 5,552.63 | 74.76 | 419.45 | 2.11 | 5.75 | 0.08 | - | - | - | - | - | - | 0.07 | 9.91E-04 | 16,718.57 | 394.24 | 0.03 | 27,765.24 |
| | 2.5-EP-5 | RHA-FL-5100[1] | 16.87 | 6.33 | 144.65 | 54.24 | 6.76 | 12.62 | 259.57 | 97.34 | - | - | - | - | - | - | 2.85 | 1.07 | 16,990.24 | 519.00 | 0.019 | 31,527.40 |
| | | | 16.83 | | 144.32 | | 33.66 | | 128.29 | | - | - | - | - | - | - | 1.39 | | | | | |
| | 5.5-EP-1b | RA2-FL-25100[2] | 21.15 | 7.93 | 181.30 | 67.99 | 77.28 | 28.98 | 258.17 | 96.81 | - | - | - | - | - | - | 2.80 | 1.05 | 27,081.77 | 253.93 | 0.020 | 34,197.31 |
| | | | 16.92 | | 145.07 | | 39.16 | | 127.13 | | - | - | - | - | - | - | 1.38 | | | | | |
| | EP-9 | RHA-FL-5850 | 0.05 | 0.03 | 0.22 | 0.27 | 5.74E-04 | 2.51E-03 | 1.60 | 6.99 | - | - | - | - | - | - | 0.02 | 0.07 | 38.14 | 0.13 | 4.76E-05 | 41.81 |
| | EP-13 | RA2-FL-25850 | 0.24 | 0.03 | 0.98 | 0.27 | 0.04 | 2.59E-03 | 1.81 | 7.95 | - | - | - | - | - | - | 0.02 | 0.03 | 76.53 | 0.31 | 1.07E-04 | 85.35 |
| | EP-7-9 | RH1-FL-2850 | 7.73 | 0.32 | 30.76 | 0.66 | 77.74 | 1.78 | 6.59E-05 | 2.89E-04 | - | - | - | - | - | - | 7.14E-07 | 3.13E-06 | 777.64 | 0.31 | 4.79E-04 | 786.55 |
| | | | 8.00 | | 15.97 | | 13.03 | | 3.49E-04 | | - | - | - | - | - | - | 1.89E-04 | | - | - | - | - |
| | | | 5.00 | | 9.98 | | 8.15 | | 2.18E-04 | | - | - | - | - | - | - | 1.18E-04 | | - | - | - | - |
| | | | 5.00 | | 9.98 | | 8.15 | | 2.18E-04 | | - | - | - | - | - | - | 1.18E-04 | | - | - | - | - |
| | Flare-M | Flare-M[3] | 5.00 | 10.00 | 9.98 | 10.00 | 8.15 | 10.00 | 2.18E-04 | 10.00 | - | - | - | - | - | - | 1.18E-04 | 9.00 | - | - | - | - |
| | | | 5.00 | | 9.98 | | 8.15 | | 2.18E-04 | | - | - | - | - | - | - | 1.18E-04 | | - | - | - | - |
| | | | 16.83 | | 144.32 | | 33.66 | | 128.29 | | - | - | - | - | - | - | 1.39 | | - | - | - | - |
| | | | 16.92 | | 145.07 | | 39.16 | | 127.13 | | - | - | - | - | - | - | 1.38 | | - | - | - | - |
| Dehydrators | 1-EP-3 | RH1-TEG[4] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 2a-EP-3 | RH2-TEG[5] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 3-EP-3 | RH3-TEG[6] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 4-EP-3 | RH4-TEG[7] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 5-EP-1e | RH5-TEG[8] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 6-EP-1e | RH6-TEG[9] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Amine Units | 1-EP-4 | RH1-AMINE[10] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 2-EP-4 | RH2-AMINE[11] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 2.5-EP-4 | RHA-AMINE[12] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 4-EP-4 | RH4-AMINE[13] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 5-EP-1f | RH5-AMINE[14] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 5.5-EP-1c | RA2-AMINE[15] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Thermal Oxidizers | EP-5 | RH2-TO-5500 | 1.71 | 6.66 | 6.27 | 4.06 | 16.75 | 20.49 | 19.36 | 84.80 | 0.67 | 2.94 | 0.67 | 2.94 | 0.67 | 2.94 | 0.11 | 0.47 | 46,129.80 | 0.87 | 0.087 | 46,177.17 |
| | EP-8 | RH4-TO-45500 | 1.25 | 5.92 | 0.76 | 3.61 | 2.57 | 11.26 | 14.07 | 61.65 | 0.60 | 2.61 | 0.60 | 2.61 | 0.60 | 2.61 | 0.07 | 0.31 | 41,006.29 | 0.77 | 0.077 | 41,048.40 |
| | EP-10 | RH5-TO-55500 | 1.24 | 5.89 | 0.75 | 3.59 | 6.45 | 28.25 | 14.15 | 61.98 | 0.56 | 2.45 | 0.56 | 2.45 | 0.56 | 2.45 | 0.07 | 0.31 | 38,444.91 | 0.72 | 0.072 | 38,484.39 |
| Tanks | 1-T | RH1-TK-COND-EAST[16] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 2-T | RHA-TK-SLOP[17] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 3-T | RH1-TK-COND-WEST[18] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 4-T | RA2-TK-SLOP[19] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 5-T | RH4-TK-SLOP | - | - | - | - | 2.58 | 11.28 | - | - | - | - | - | - | - | - | - | - | 9.32E-03 | 0.017 | - | 0.49 |
| | 6-T | RH2-TK-SLOP | - | - | - | - | 0.23 | 1.02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 7-T | RH1-TK-SLOP | - | - | - | - | 0.43 | 1.89 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | MT-1 | RH-TK-METHANOL | - | - | - | - | 0.92 | 4.02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Loading | 2-LOAD | RHA-TK-SLOP-LOAD[20] | - | - | - | - | 5.62E-07 | 7.43E-08 | - | - | - | - | - | - | - | - | 0.077 | 0.01 | 0.046 | 1.04E-07 | - | 0.046 |
| | 3-LOAD | RH1-TK-COND-WEST-LOAD[21] | - | - | - | - | 54.59 | 5.88 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 4-LOAD | RA2-TK-SLOP-LOAD[22] | - | - | - | - | 5.33E-05 | 1.30E-05 | - | - | - | - | - | - | - | - | 0.093 | 0.02 | 0.080 | 2.63E-07 | - | 0.080 |
| | 5-LOAD | RH4-TK-SLOP-LOAD | - | - | - | - | 3.88 | 0.79 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 6-LOAD | RH2-TK-SLOP-LOAD | - | - | - | - | 12.87 | 1.75 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 7-LOAD | RH1-TK-SLOP-LOAD | - | - | - | - | 12.86 | 1.75 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## Controlled Emission Summary - Tank Scenario 2

| Facility-Wide Controlled Emissions | | | | | | | | | | | | | | | | | | | | Facility-Wide GHG Emissions | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit Type | OLD Unit ID | Unit ID | $NO_x$ | | CO | | VOC | | $SO_2$ | | $TSP^2$ | | $PM_{10}{}^2$ | | $PM_{2.5}{}^2$ | | $H_2S$ | | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$ |
| | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | ton/yr | ton/yr | ton/yr | ton/yr |
| Generators | GEN-1 | RH-GEN-1 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-2 | RH-GEN-2 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-3 | RH-GEN-3 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-4 | RH-GEN-4 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-5 | RH-GEN-5 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-6 | RH-GEN-6 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-7 | RH-GEN-7 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-8 | RH-GEN-8 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-9 | RH-GEN-9 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | GEN-10 | RH-GEN-10 | 0.33 | 0.08 | 2.86 | 0.72 | 0.16 | 0.04 | 6.05E-03 | 1.51E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | 0.02 | 4.13E-03 | - | - | 162.73 | 6.60E-03 | 1.32E-03 | 163.26 |
| | Trailer-1 | RH-TRAILER | 0.30 | 6.09E-03 | 0.18 | 3.70E-03 | 0.01 | 2.19E-04 | 0.59 | 0.01 | 0.02 | 4.68E-04 | 0.02 | 4.68E-04 | 0.02 | 4.68E-04 | - | - | 3.26 | 1.32E-04 | 2.65E-05 | 3.27 |
| | GEN-WW | RH-GEN-WELL | 0.63 | 0.04 | 0.08 | 4.84E-03 | 0.01 | 7.75E-04 | 0.08 | 4.87E-03 | 0.09 | 5.21E-03 | 0.09 | 5.21E-03 | 0.09 | 5.21E-03 | - | - | 2.74 | 1.11E-04 | 2.22E-05 | 2.75 |
| SSM | 1-EP-1t | RH1-SSM | - | - | - | - | 6,070.44 | 24.93 | - | - | 47.79 | 0.14 | 6.79 | 0.02 | 0.68 | 2.03E-03 | 0.05 | 9.19E-05 | 7.37 | 0.66 | - | 25.73 |
| | 2-EP-1t | RH2-SSM | - | - | - | - | 836.33 | 5.68 | - | - | | 0.14 | | 0.02 | | 2.03E-03 | 0.04 | 1.33E-04 | 7.55 | 255.73 | - | 7,168.06 |
| | 3-EP-1t | RH3-SSM | - | - | - | - | 835.66 | 3.99 | - | - | | 0.14 | | 0.02 | | 2.03E-03 | 0.05 | 1.49E-04 | 7.23 | 254.74 | - | 7,139.88 |
| | 4-EP-1t | RH4-SSM | - | - | - | - | 914.80 | 6.10 | - | - | | 0.14 | | 0.02 | | 2.03E-03 | 0.04 | 1.04E-04 | 4.05 | 153.54 | - | 4,303.20 |
| | 5-EP-1t | RH5-SSM | - | - | - | - | 802.28 | 6.78 | - | - | | 0.14 | | 0.02 | | 2.03E-03 | 0.04 | 1.04E-04 | 4.05 | 153.54 | - | 4,303.20 |
| | 6-EP-1t | RH6-SSM | - | - | - | - | 992.49 | 6.03 | - | - | | 0.14 | | 0.02 | | 2.03E-03 | 7.82E-03 | 3.65E-05 | 4.07 | 152.58 | - | 4,276.39 |
| | 2.5-EP-1t | RHA-SSM | - | - | - | - | 175.31 | 1.48 | - | - | | 0.14 | | 0.02 | | 2.03E-03 | 3.97 | 0.01 | 0.17 | 0.06 | - | 1.80 |
| | 5.5-EP-1t | RA2-SSM | - | - | - | - | 288.99 | 2.42 | - | - | | 0.14 | | 0.02 | | 2.03E-03 | 13.79 | 0.04 | 0.71 | 0.23 | - | 7.21 |
| | EP-5 SSM | RH2-TO-5500-SSM | - | - | - | - | 92.25 | 5.05 | - | - | - | - | - | - | - | - | 9.75 | 0.53 | 5,086.27 | 4.47 | - | 5,211.48 |
| | EP-8 SSM | RH4-TO-45500-SSM | - | - | - | - | 72.89 | 3.99 | - | - | - | - | - | - | - | - | 6.44 | 0.35 | 4,033.44 | 3.50 | - | 4,131.33 |
| | EP-11 | RH5-TO-55500-SSM | - | - | - | - | 88.47 | 7.75 | - | - | - | - | - | - | - | - | 6.47 | 0.57 | 6,515.14 | 6.56 | - | 6,698.91 |
| Pigging | REC-1 | RHA-REC-WINKLER | - | - | - | - | 5.58E-04 | 1.09E-05 | - | - | - | - | - | - | - | - | 6.81E-05 | 1.33E-06 | 0.14 | 0.03 | - | 1.02 |
| | REC-2 | RHA-REC-LIMESTONE-8INCH | - | - | - | - | 2.68E-04 | 3.49E-06 | - | - | - | - | - | - | - | - | 3.27E-05 | 4.26E-07 | 0.05 | 0.010 | - | 0.33 |
| | REC-3 | RH1-REC-PLANTVIEW | - | - | - | - | 19.07 | 0.12 | - | - | - | - | - | - | - | - | 1.59E-04 | 1.04E-06 | 0.033 | 0.27 | - | 7.67 |
| | REC-4 | RH1-REC-GUTLINE | - | - | - | - | 42.46 | 0.83 | - | - | - | - | - | - | - | - | 3.55E-04 | 6.92E-06 | 0.22 | 1.82 | - | 51.24 |
| | REC-5 | RH1-REC-ABU | - | - | - | - | 49.47 | 0.32 | - | - | - | - | - | - | - | - | 4.14E-04 | 2.69E-06 | 0.084 | 0.71 | - | 19.90 |
| | REC-6 | RH4-REC-24INCH | - | - | - | - | 17.70 | 0.35 | - | - | - | - | - | - | - | - | 1.48E-04 | 2.89E-06 | 0.091 | 0.76 | - | 21.36 |
| | REC-8 | RHA-REC-LIMESTONE-10INCH | - | - | - | - | 1.92E-04 | 2.89E-07 | - | - | - | - | - | - | - | - | 2.35E-05 | 3.52E-08 | 3.73E-03 | 8.36E-04 | - | 0.027 |
| | REC-9 | RA2-REC-GREYHOUND | - | - | - | - | 5.03E-04 | 6.54E-06 | - | - | - | - | - | - | - | - | 6.14E-05 | 7.98E-07 | 0.08 | 0.019 | - | 0.61 |
| | LAU-1 | RHA-LAU-LIMESTONE-10INCH | - | - | - | - | 1.92E-04 | 2.89E-07 | - | - | - | - | - | - | - | - | 2.35E-05 | 3.52E-08 | 3.73E-03 | 8.36E-04 | - | 0.027 |
| | LAU-2 | RH1-LAU-NGPL | - | - | - | - | 268.02 | 0.03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | LAU-3 | RH1-LAU-TW | - | - | - | - | 44.51 | 5.56E-03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | LAU-4 | RH1-LAU-ETC | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | - | - | 1.23E-04 | 0.04 | - | 1.09 |
| | LAU-5 | RH1-LAU-ONEOK | - | - | - | - | 806.76 | 0.10 | - | - | - | - | - | - | - | - | - | - | 1.23E-04 | 0.04 | - | 1.09 |
| | LAU-6 | RH2-LAU-GPX | - | - | - | - | 3,342.31 | 0.84 | - | - | - | - | - | - | - | - | - | - | 1.02E-03 | 0.323 | - | 9.05 |
| Haul Roads | HAUL-1 | RH-HAUL | - | - | - | - | - | - | - | - | 1.43 | 5.05 | 0.36 | 1.29 | 0.04 | 0.13 | - | - | - | - | - | - |
| Fugitives | FUG | RH-FUG-1 | - | - | - | - | 70.84 | 310.26 | - | - | - | - | - | - | - | - | 5.30E-04 | 2.32E-03 | 14.42 | 167.37 | - | 4,700.75 |
| | FUG-1 | RH-FUG-2 | - | - | - | - | 60.38 | 264.47 | - | - | - | - | - | - | - | - | 5.53E-04 | 2.42E-03 | 29.72 | 223.00 | - | 6,273.80 |
| | FUG-AGI1 | RHA-FUG | - | - | - | - | 5.38 | 23.57 | - | - | - | - | - | - | - | - | 0.78 | 3.43 | 5.78 | 57.77 | - | 1623.27 |
| | FUG-AGI2 | RA2-FUG | - | - | - | - | 10.72 | 46.94 | - | - | - | - | - | - | - | - | 1.32 | 5.80 | 10.07 | 100.85 | - | 2,833.74 |
| **Totals:** | | | **2,707.37** | **174.96** | **22,965.58** | **504.27** | **18,442.94** | **901.50** | **331.34** | **436.28** | **55.58** | **32.91** | **13.51** | **28.17** | **7.08** | **26.87** | **46.29** | **23.22** | **731,360.41** | **4,728.60** | **1.29** | **864,104.03** |

*NOTES:*

[1] RHA-FL-5100 has two hourly emission limits; one if it is operating simultaneously as RA2-FL-25100 and one if it is not.

[2] RA2-FL-25100 has two hourly emission limits; one if it is operating simultaneously as RHA-FL-5100 and one if it is not.

[3] There is no hourly SSM flaring at the same time as Flare-M Malfunction Flaring.

[4] There are no emissions from RH1-TEG in a controlled scenario. Flash tank overheads are routed back to process. Regenerator overheads are controlled by RH1-FL-29-1004 with 100% capture and 98% DRE.

[5] There are no emissions from RH2-TEG in a controlled scenario. Flash tank overheads are routed back to process. Regenerator overheads are controlled by RH2-TO-5500 with 100% capture and 99% DRE.

[6] There are no emissions from RH3-TEG in a controlled scenario. Flash tank overheads are routed back to process. Regenerator overheads are controlled by RH4-TO-45500 with 100% capture and 99% DRE.

[7] There are no emissions from RH4-TEG in a controlled scenario. Flash tank overheads are routed back to process. Regenerator overheads are controlled by RH4-TO-45500 with 100% capture and 99% DRE.

[8] There are no emissions from RH5-TEG in a controlled scenario. Flash tank overheads are routed back to process. Regenerator overheads are controlled by RH5-TO-55500 with 100% capture and 99% DRE.

[9] There are no emissions from RH6-TEG in a controlled scenario. Flash tank overheads are routed back to process. Regenerator overheads are controlled by RH5-TO-55500 with 100% capture and 99% DRE.

[10] There are no emissions from RH1-AMINE in a controlled scenario. Flash tank overheads are routed back to process. Still vent overheads are controlled by RH2-TO-5500 with 100% capture and 99% DRE.

[11] There are no emissions from RH2-AMINE in a controlled scenario. Flash tank overheads are routed back to process. Still vent overheads are controlled by RH2-TO-5500 with 100% capture and 99% DRE.

[12] There are no emissions from RHA-AMINE in a controlled scenario. All emissions are routed to AGI-1. During AGI-1 downtime, flash tank overheads are routed back to process and still vent overheads are controlled by RHA-FL-5100 with 100% capture and 98% DRE.

[13] There are no emissions from RH4-AMINE in a controlled scenario. Flash tank overheads are routed back to process. Still vent overheads are controlled by RH4-TO-45500 with 100% capture and 99% DRE.

[14] There are no emissions from RH5-AMINE in a controlled scenario. Flash tank overheads are routed back to process. Still vent overheads are controlled by RH5-TO-55500 with 100% capture and 99% DRE.

[15] There are no emissions from RA2-AMINE in a controlled scenario. All emissions are routed to AGI-2. During AGI-2 downtime, flash tank overheads are routed back to process and still vent overheads are controlled by RA2-FL-25100 with 100% capture and 98% DRE.

[16] There are no emissions from RH1-TK-COND-EAST in a controlled scenario. All emissions are routed to RH1-FL-2850 with 100% capture and 98% DRE. No loading is permitted from this tank battery.

[17] There are no emissions from RHA-TK-SLOP in a controlled scenario. All emissions are routed to RHA-FL-5850 with 100% capture and 98% DRE.

[18] There are no emissions from RH1-TK-COND-WEST in a controlled scenario. All emissions are routed to RH1-FL-2850 with 100% capture and 98% DRE.

[19] There are no emissions from RA2-TK-SLOP in a controlled scenario. All emissions are routed to RA2-FL-25850 with 100% capture and 98% DRE.

[20] Emissions from RHA-TK-SLOP-LOAD are routed to RHA-FL-5850 with a 70% capture and 98% DRE.

[21] Emissions from RH2-TK-COND-WEST-LOAD are routed to RH1-FL-2850 with a 70% capture and 98% DRE.

[22] Emissions from RA2-TK-SLOP-LOAD are routed to RA2-FL-25850 with a 70% capture and 98% DRE.

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## HAPs Emission Summary - Tank Scenario 1

| | | | Facility-Wide Controlled HAP Emissions | | | | | | | | | | | | | | Facility-Wide Controlled HAP Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit Type | Unit ID | Equipment Description | Total HAP | | Formaldehyde | | Acetaldehyde | | Acrolein | | Benzene | | n-Hexane | | Toluene | | Ethylbenzene | | Xylenes | | 2,2,4 Trimethylpentane | |
| | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| Heaters and Reboilers | RH1-H-23-704 | HOT OIL HEATER | 0.08 | 0.34 | 3.13E-03 | 0.01 | - | - | - | - | 8.75E-05 | 3.83E-04 | 0.08 | 0.33 | 1.42E-04 | 6.21E-04 | - | - | - | - | - | - |
| | RH1-H-1101 | STABILIZER HOT OIL HEATER | 0.04 | 0.18 | 1.64E-03 | 7.18E-03 | - | - | - | - | 4.59E-05 | 2.01E-04 | 0.04 | 0.17 | 7.43E-05 | 3.26E-04 | - | - | - | - | - | - |
| | RH4-H-41100 | LIQUIDS IN-LINE HEATER | 0.02 | 0.10 | 9.46E-04 | 4.14E-03 | - | - | - | - | 2.65E-05 | 1.16E-04 | 0.02 | 0.10 | 4.29E-05 | 1.88E-04 | - | - | - | - | - | - |
| | RH2-H-741 | REGEN GAS HEATER | 0.02 | 0.08 | 7.06E-04 | 3.09E-03 | - | - | - | - | 1.98E-05 | 8.66E-05 | 0.02 | 0.07 | 3.20E-05 | 1.40E-04 | - | - | - | - | - | - |
| | RH2-H-781 | CRYO HOT OIL HEATER | 0.02 | 0.11 | 9.49E-04 | 4.16E-03 | - | - | - | - | 2.66E-05 | 1.16E-04 | 0.02 | 0.10 | 4.30E-05 | 1.88E-04 | - | - | - | - | - | - |
| | RH2-H-2301 | TEG REBOILER | 7.40E-03 | 0.03 | 2.87E-04 | 1.26E-03 | - | - | - | - | 8.03E-06 | 3.52E-05 | 6.88E-03 | 0.03 | 1.30E-05 | 5.69E-05 | - | - | - | - | - | - |
| | RH2-H-0901 | AMINE HOT OIL HEATER | 0.14 | 0.61 | 5.39E-03 | 0.02 | - | - | - | - | 1.51E-04 | 6.61E-04 | 0.13 | 0.57 | 2.44E-04 | 1.07E-03 | - | - | - | - | - | - |
| | RH2-H-1001 | AMINE HOT OIL HEATER | 0.14 | 0.61 | 5.39E-03 | 0.02 | - | - | - | - | 1.51E-04 | 6.61E-04 | 0.13 | 0.57 | 2.44E-04 | 1.07E-03 | - | - | - | - | - | - |
| | RHA-H-4901 | AMINE HOT OIL HEATER | 0.06 | 0.27 | 2.49E-03 | 0.01 | - | - | - | - | 6.98E-05 | 3.06E-04 | 0.06 | 0.26 | 1.13E-04 | 4.95E-04 | - | - | - | - | - | - |
| | RH3-H-741 | REGEN GAS HEATER | 0.02 | 0.07 | 6.76E-04 | 2.96E-03 | - | - | - | - | 1.89E-05 | 8.30E-05 | 0.02 | 0.07 | 3.07E-05 | 1.34E-04 | - | - | - | - | - | - |
| | RH3-H-781 | CRYO HOT OIL HEATER | 0.04 | 0.16 | 1.46E-03 | 6.38E-03 | - | - | - | - | 4.08E-05 | 1.79E-04 | 0.03 | 0.15 | 6.60E-05 | 2.89E-04 | - | - | - | - | - | - |
| | RH3-H-6301 | TEG REBOILER | 7.40E-03 | 0.03 | 2.87E-04 | 1.26E-03 | - | - | - | - | 8.03E-06 | 3.52E-05 | 6.88E-03 | 0.03 | 1.30E-05 | 5.69E-05 | - | - | - | - | - | - |
| | RH4-H-741 | REGEN GAS HEATER | 0.02 | 0.07 | 6.76E-04 | 2.96E-03 | - | - | - | - | 1.89E-05 | 8.30E-05 | 0.02 | 0.07 | 3.07E-05 | 1.34E-04 | - | - | - | - | - | - |
| | RH4-H-781 | CRYO HOT OIL HEATER | 0.04 | 0.18 | 1.64E-03 | 7.18E-03 | - | - | - | - | 4.59E-05 | 2.01E-04 | 0.04 | 0.17 | 7.43E-05 | 3.26E-04 | - | - | - | - | - | - |
| | RH4-H-3901 | AMINE HOT OIL HEATER | 0.14 | 0.62 | 0.14 | 0.59 | - | - | - | - | 1.58E-04 | 6.92E-04 | 0.14 | 0.59 | 2.56E-04 | 1.12E-03 | - | - | - | - | - | - |
| | RH4-H-5301 | TEG REBOILER | 7.40E-03 | 0.03 | 2.87E-04 | 1.26E-03 | - | - | - | - | 8.03E-06 | 3.52E-05 | 6.88E-03 | 0.03 | 1.30E-05 | 5.69E-05 | - | - | - | - | - | - |
| | RH4-H-4001 | AMINE HOT OIL HEATER | 0.14 | 0.62 | 5.64E-03 | 0.02 | - | - | - | - | 1.58E-04 | 6.92E-04 | 0.14 | 0.59 | 2.56E-04 | 1.12E-03 | - | - | - | - | - | - |
| | RH5-H-50902 | AMINE/TEG HOT OIL HEATER | 0.17 | 0.73 | 6.61E-03 | 0.03 | - | - | - | - | 1.85E-04 | 8.11E-04 | 0.16 | 0.70 | 3.00E-04 | 1.31E-03 | - | - | - | - | - | - |
| | RH5-H-50001 | AMINE/TEG HOT OIL HEATER | 0.17 | 0.73 | 6.61E-03 | 0.03 | - | - | - | - | 1.85E-04 | 8.11E-04 | 0.16 | 0.70 | 3.00E-04 | 1.31E-03 | - | - | - | - | - | - |
| | RH5-H-50741 | REGEN GAS HEATER | 0.02 | 0.07 | 6.68E-04 | 2.92E-03 | - | - | - | - | 1.87E-05 | 8.19E-05 | 0.02 | 0.07 | 3.03E-05 | 1.33E-04 | - | - | - | - | - | - |
| | RH5-H-50781 | CRYO HOT OIL HEATER | 0.06 | 0.28 | 2.50E-03 | 0.01 | - | - | - | - | 7.00E-05 | 3.07E-04 | 0.06 | 0.26 | 1.13E-04 | 4.96E-04 | - | - | - | - | - | - |
| | RH6-H-60001 | STABILIZER HOT OIL HEATER | 0.17 | 0.73 | 6.61E-03 | 0.03 | - | - | - | - | 1.85E-04 | 8.11E-04 | 0.16 | 0.70 | 3.00E-04 | 1.31E-03 | - | - | - | - | - | - |
| | RH6-H-60741 | REGEN GAS HEATER | 0.02 | 0.07 | 6.69E-04 | 2.93E-03 | - | - | - | - | 1.87E-05 | 8.21E-05 | 0.02 | 0.07 | 3.03E-05 | 1.33E-04 | - | - | - | - | - | - |
| | RH6-H-60781 | CRYO HOT OIL HEATER | 0.06 | 0.27 | 2.49E-03 | 0.01 | - | - | - | - | 6.97E-05 | 3.05E-04 | 0.06 | 0.26 | 1.13E-04 | 4.94E-04 | - | - | - | - | - | - |
| | RA2-H-20001 | HOT OIL HEATER | 0.17 | 0.72 | 6.56E-03 | 0.03 | - | - | - | - | 1.84E-04 | 8.05E-04 | 0.16 | 0.69 | 2.97E-04 | 1.30E-03 | - | - | - | - | - | - |
| Flares | RH1-FL-29-1003 | FLARE | 0.31 | 1.35 | - | - | - | - | - | - | 0.15 | 0.66 | 0.04 | 0.17 | 0.10 | 0.42 | 5.43E-03 | 0.02 | 0.02 | 0.07 | - | - |
| | RH2-FL-5100 | FLARE | 0.90 | 0.052 | - | - | - | - | - | - | 0.05 | 8.96E-03 | 0.06 | 9.54E-03 | 0.03 | 4.84E-03 | 9.48E-04 | 1.59E-04 | 2.92E-03 | 4.91E-04 | - | - |
| | RH3-FL-5100 | FLARE | 0.42 | 0.42 | - | - | - | - | - | - | 0.42 | 0.42 | - | - | - | - | - | - | - | - | - | - |
| | RH4-FL-45100 | FLARE | 1.90 | 0.05 | - | - | - | - | - | - | 0.16 | 0.02 | 0.12 | 9.19E-03 | 0.05 | 7.25E-03 | 1.41E-03 | 2.14E-04 | 3.14E-03 | 4.72E-04 | - | - |
| | RH5-FL-55100 | FLARE | 0.66 | 0.03 | - | - | - | - | - | - | 0.66 | 0.03 | - | - | - | - | - | - | - | - | - | - |
| | RHA-FL-5100 | FLARE (RA2-FL25100 **not** operating simultaneously) | 0.62 | 0.23 | - | - | - | - | - | - | 0.61 | 0.23 | 0.63 | 0.24 | 0.07 | 0.03 | 8.45E-03 | 3.17E-03 | 0.01 | 3.01E-08 | 8.04E-08 | 3.01E-08 |
| | | FLARE (RA2-FL25100 operating simultaneously) | 0.40 | | - | | - | | - | | 0.05 | | 0.31 | | 0.03 | | 4.17E-03 | | 6.17E-03 | | 3.97E-08 | |
| | RA2-FL-25100 | FLARE (RHA-FL-5100 **not** operating simultaneously) | 0.92 | 0.35 | - | - | - | - | - | - | 0.10 | 0.04 | 0.71 | 0.27 | 0.08 | 0.03 | 9.59E-03 | 3.59E-03 | 0.01 | 5.31E-03 | 3.38E-08 | 1.27E-08 |
| | | FLARE (RHA-FL-5100 operating simultaneously) | 0.47 | | - | | - | | - | | 0.05 | | 0.36 | | 0.04 | | 4.86E-03 | | 7.18E-03 | | 1.66E-08 | |
| | RHA-FL-5850 | SOUR SLOP WATER STORAGE TANKS FLARE | 1.14E-05 | 3.87E-05 | - | - | - | - | - | - | 3.32E-07 | 3.08E-05 | 2.47E-06 | 3.32E-07 | 3.16E-06 | 6.38E-06 | - | - | 4.43E-07 | 1.91E-06 | 5.00E-13 | 2.19E-12 |
| | RA2-FL-25850 | SOUR SLOP WATER STORAGE TANKS FLARE | 0.03 | 9.80E-05 | - | - | - | - | - | - | 8.36E-06 | 2.74E-05 | 1.89E-09 | 8.27E-09 | 1.37E-06 | 5.56E-06 | - | - | 4.53E-07 | 1.95E-06 | 7.08E-13 | 3.10E-12 |
| | RH1-FL-2850 | CONDENSATE STORAGE TANKS FLARE | 7.95 | 0.12 | - | - | - | - | - | - | 2.48E-03 | 0.01 | 0.02 | 0.10 | 1.33E-03 | 5.84E-03 | 5.85E-05 | 2.56E-04 | 1.91E-04 | 8.36E-04 | - | - |
| | RH4-FL-46200 | SLOP WATER STORAGE TANKS FLARE | 0.28 | 1.25 | - | - | - | - | - | - | 0.05 | 0.20 | 0.21 | 0.93 | 0.02 | 0.10 | 5.71E-04 | 2.50E-03 | 3.57E-03 | 0.02 | - | - |
| | Flare-M | RH1-FL-29-1003 Malfunction Flaring | 0.22 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | RH2-FL-5100 Malfunction Flaring | 0.14 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | RH3-FL-5100 Malfunction Flaring | 0.14 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | RH4-FL-45100 Malfunction Flaring | 0.14 | 10.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | RH5-FL-55100 Malfunction Flaring | 0.14 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | RHA-FL-51001 Malfunction Flaring | 0.14 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | RA2-FL-251002 Malfunction Flaring | 0.14 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dehydrators | RH1-TEG | TEG REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH2-TEG | TEG REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH3-TEG | TEG REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH4-TEG | TEG REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH5-TEG | TEG REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH6-TEG | TEG REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Amine Units | RH1-AMINE | AMINE REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH2-AMINE | AMINE REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RHA-AMINE | AMINE REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH4-AMINE | AMINE REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH5-AMINE | AMINE REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RA2-AMINE | AMINE REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Thermal Oxidizers | RH2-TO-5500 | THERMAL OXIDIZER | 1.66 | 7.27 | - | - | - | - | - | - | 0.89 | 3.90 | 0.14 | 0.60 | 0.56 | 2.43 | 0.02 | 0.08 | 0.06 | 0.26 | - | - |
| | RH4-TO-45500 | THERMAL OXIDIZER | 0.89 | 3.89 | - | - | - | - | - | - | 0.58 | 2.55 | 0.05 | 0.22 | 0.23 | 1.00 | 6.31E-03 | 0.03 | 0.02 | 0.09 | - | - |
| | RH5-TO-55500 | THERMAL OXIDIZER | 2.22 | 9.72 | - | - | - | - | - | - | 1.29 | 5.64 | 0.17 | 0.72 | 0.68 | 2.96 | 0.02 | 0.10 | 0.07 | 0.30 | - | - |
| Tanks | RH1-TK-COND-EAST | TK-20101-20106, EAST CONDENSATE STORAGE TANKS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RHA-TK-SLOP | TK-6100-6200, SOUR SLOP WATER STORAGE TANKS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH1-TK-COND-WEST | TK-20107-20112, WEST CONDENSATE STORAGE TANKS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RA2-TK-SLOP | TK-26100-26200, SOUR SLOP WATER STORAGE TANKS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH4-TK-SLOP | TK-46200-46230, SLOP WATER STORAGE TANKS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH2-TK-SLOP | TK-6200, SLOP WATER STORAGE TANK | 0.23 | 1.02 | - | - | - | - | - | - | 0.16 | 0.69 | - | - | 0.07 | 0.30 | 1.05E-03 | 4.61E-03 | 5.54E-03 | 0.02 | - | - |
| | RH1-TK-SLOP | TK-33-001-33-002, SLOP WATER STORAGE TANKS | 0.43 | 1.89 | - | - | - | - | - | - | 0.29 | 1.28 | - | - | 0.13 | 0.56 | 1.96E-03 | 8.58E-03 | 0.01 | 0.05 | - | - |
| | RH-TK-METHANOL | METHANOL STORAGE TANKS | 0.92 | 4.02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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## HAPs Emission Summary - Tank Scenario 1

| | | | Facility-Wide Controlled HAP Emissions | | | | | | | | | | | | | | Facility-Wide Controlled HAP Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit Type** | **Unit ID** | **Equipment Description** | **Total HAP** | | **Formaldehyde** | | **Acetaldehyde** | | **Acrolein** | | **Benzene** | | **n-Hexane** | | **Toluene** | | **Ethylbenzene** | | **Xylenes** | | **2,2,4 Trimethylpentane** | |
| | | | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** |
| Loading | RHA-TK-SLOP-LOAD | TK-6100-6200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | 5.04E-05 | 6.67E-06 | - | - | - | - | - | - | 4.80E-05 | 6.35E-06 | 2.40E-11 | 3.17E-12 | 2.25E-06 | 2.98E-07 | - | - | 1.44E-07 | 1.90E-08 | 2.77E-15 | 3.66E-16 |
| | RH1-TK-COND-WEST-LOAD | TK-20107-20112, WEST CONDENSATE STORAGE TANKS, TRUCK LOADING | 5.59 | 0.60 | - | - | - | - | - | - | 0.52 | 0.09 | 4.73 | 0.80 | 0.28 | 0.05 | 0.01 | 2.07E-03 | 0.04 | 6.76E-03 | - | - |
| | RA2-TK-SLOP-LOAD | TK-26100-26200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | 4.54E-05 | 1.11E-05 | - | - | - | - | - | - | 4.32E-05 | 1.00E-05 | 3.09E-11 | 7.15E-12 | 6.82E-06 | 4.73E-07 | - | - | 1.39E-07 | 3.21E-08 | 1.24E-20 | 2.87E-21 |
| | RH4-TK-SLOP-LOAD | TK-46200-46230, SLOP WATER STORAGE TANKS, TRUCK LOADING | 0.13 | 0.03 | - | - | - | - | - | - | 0.02 | 4.58E-03 | 0.10 | 0.02 | 9.45E-03 | 1.87E-03 | 1.98E-04 | 3.92E-05 | 1.24E-03 | 2.45E-04 | - | - |
| | RH2-TK-SLOP-LOAD | TK-6200, SLOP WATER STORAGE TANK, TRUCK LOADING | 12.85 | 1.75 | - | - | - | - | - | - | 8.68 | 1.15 | - | - | 3.81 | 0.50 | 0.06 | 7.70E-03 | 0.31 | 0.04 | - | - |
| | RH1-TK-SLOP-LOAD | TK-33-001-33-002, SLOP WATER STORAGE TANKS, TRUCK LOADING | 12.84 | 1.75 | - | - | - | - | - | - | 8.67 | 1.15 | - | - | 3.81 | 0.50 | 0.06 | 7.71E-03 | 0.31 | 0.04 | - | - |
| Generators | RH-GEN-1 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-2 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-3 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-4 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-5 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-6 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-7 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-8 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-9 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-10 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-TRAILER | DIESEL FIRED HEATER TRAILER | 0.043 | 8.68E-04 | 0.03 | 6.84E-04 | 7.67E-04 | 1.53E-05 | 9.25E-05 | 1.85E-06 | 1.15E-03 | 2.29E-05 | - | - | 6.61E-03 | 1.32E-04 | 6.36E-05 | 1.27E-06 | 1.09E-04 | 2.18E-06 | - | - |
| | RH-GEN-WELL | DIESEL FIRED GENERATOR, WATER WELL | 1.21E-03 | 7.27E-05 | 5.04E-04 | 3.02E-05 | 2.15E-04 | 1.29E-05 | 2.59E-05 | 1.55E-06 | 2.61E-04 | 1.57E-05 | - | - | 1.15E-04 | 6.87E-06 | - | - | 7.98E-05 | 4.79E-06 | - | - |
| SSM | RH1-SSM | RH1, Startup, Shutdown, and Maintenance | 590.13 | 0.39 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RH2-SSM | RH2, Startup, Shutdown, and Maintenance | 23.92 | 0.04 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RH3-SSM | RH3, Startup, Shutdown, and Maintenance | 27.17 | 0.05 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RH4-SSM | RH4, Startup, Shutdown, and Maintenance | 23.92 | 0.04 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RH5-SSM | RH5, Startup, Shutdown, and Maintenance | 22.35 | 0.04 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RH6-SSM | RH6, Startup, Shutdown, and Maintenance | 23.77 | 0.04 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RHA-SSM | RHA, Startup, Shutdown, and Maintenance | 22.69 | 0.04 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RA2-SSM | RA2, Startup, Shutdown, and Maintenance | 22.71 | 0.04 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RH2-TO-5500-SSM | THERMAL OXIDIZER, SSM | 60.84 | 3.33 | - | - | - | - | - | - | 37.12 | 2.03 | 0.34 | 0.02 | 20.35 | 1.11 | 0.60 | 0.03 | 2.43 | 0.13 | - | - |
| | RH4-TO-45500-SSM | THERMAL OXIDIZER, SSM | 46.16 | 2.53 | - | - | - | - | - | - | 0.10 | 5.41E-03 | 35.17 | 1.93 | 10.00 | 0.55 | 0.21 | 0.01 | 0.69 | 0.04 | - | - |
| | RH5-TO-55500-SSM | THERMAL OXIDIZER, SSM | 56.71 | 4.97 | - | - | - | - | - | - | 0.10 | 9.09E-03 | 40.68 | 3.56 | 14.43 | 1.26 | 0.40 | 0.04 | 1.09 | 0.10 | - | - |
| Pigging | RHA-REC-WINKLER | WINKLER INLET PIG RECEIVER | 5.58E-04 | 1.09E-05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RHA-REC-LIMESTONE-8INCH | LIMESTONE 8-INCH INLET PIG RECEIVER | 2.68E-04 | 3.49E-06 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH1-REC-PLANTVIEW | PLANTVIEW INLET LOOP PIG RECEIVER | 0.47 | 3.07E-03 | - | - | - | - | - | - | 0.06 | 4.12E-04 | - | - | - | - | - | - | - | - | - | - |
| | RH1-REC-GUTLINE | GUTLINE INLET PIG RECEIVER | 1.05 | 0.02 | - | - | - | - | - | - | 0.14 | 2.76E-03 | - | - | - | - | - | - | - | - | - | - |
| | RH1-REC-ABU | ABU INLET PIG RECEIVER | 1.22 | 7.96E-03 | - | - | - | - | - | - | 0.16 | 1.07E-03 | - | - | - | - | - | - | - | - | - | - |
| | RH4-REC-24INCH | 24-INCH INLET LOOP PIG RECEIVER | 0.44 | 8.54E-03 | - | - | - | - | - | - | 0.06 | 1.15E-03 | - | - | - | - | - | - | - | - | - | - |
| | RHA-REC-LIMESTONE-10INCH | LIMESTONE 10-INCH INLET PIG RECEIVER | 1.92E-04 | 2.89E-07 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RA2-REC-GREYHOUND | GREYHOUND INLET PIG RECEIVER | 5.03E-04 | 6.54E-06 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RHA-LAU-LIMESTONE-10INCH | LIMESTONE 10-INCH INLET PIG LAUNCHER | 1.92E-04 | 2.89E-07 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH1-LAU-NGPL | NGPL RESIDUE PIG LAUNCHER | 26.80 | 3.35E-03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH1-LAU-TW | TW RESIDUE PIG LAUNCHER | 4.45 | 5.56E-04 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH1-LAU-ETC | ETC LONE STAR NGL PIG LAUNCHER | 112.09 | 0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH1-LAU-ONEOK | ONEOK NGL PIG LAUNCHER | 112.09 | 0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH2-LAU-GPX | GPX NGL PIG LAUNCHER | 464.36 | 0.12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Haul Roads | RH-HAUL | HAUL ROAD EMISSIONS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Fugitives | RH-FUG-1 | FUGITIVE EMISSIONS | 10.55 | 46.22 | - | - | - | - | - | - | 0.69 | 3.01 | 8.01 | 35.08 | 1.14 | 4.99 | 0.15 | 0.66 | 0.57 | 2.48 | - | - |
| | RH-FUG-2 | FUGITIVE EMISSIONS | 12.30 | 53.86 | - | - | - | - | - | - | 0.78 | 3.42 | 9.04 | 39.59 | 1.35 | 5.89 | 0.18 | 0.79 | 0.68 | 2.97 | - | - |
| | RHA-FUG | RHA, FUGITIVE EMISSIONS | 0.77 | 3.39 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RA2-FUG | RA2, FUGITIVE EMISSIONS | 1.52 | 6.67 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Totals:** | | | **1,722.81** | **175.39** | **0.28** | **0.89** | **0.03** | **7.68E-03** | **3.81E-03** | **9.27E-04** | **62.67** | **26.56** | **102.56** | **91.60** | **57.29** | **22.75** | **1.75** | **1.80** | **6.35** | **6.61** | **1.71E-07** | **4.28E-08** |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## HAPs Emission Summary - Tank Scenario 2

| | | | Facility-Wide Controlled HAP Emissions | | | | | | | | | | | | | | Facility-Wide Controlled HAP Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit Type** | **Unit ID** | **Equipment Description** | **Total HAP** | | **Formaldehyde** | | **Acetaldehyde** | | **Acrolein** | | **Benzene** | | **n-Hexane** | | **Toluene** | | **Ethylbenzene** | | **Xylenes** | | **2,2,4 Trimethylpentane** | |
| | | | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** |
| Heaters and Reboilers | RH1-H-23-704 | HOT OIL HEATER | 0.08 | 0.34 | 3.13E-03 | 0.01 | - | - | - | - | 8.75E-05 | 3.83E-04 | 0.08 | 0.33 | 1.42E-04 | 6.21E-04 | - | - | - | - | - | - |
| | RH1-H-1101 | STABILIZER HOT OIL HEATER | 0.04 | 0.18 | 1.64E-03 | 7.18E-03 | - | - | - | - | 4.59E-05 | 2.01E-04 | 0.04 | 0.17 | 7.43E-05 | 3.26E-04 | - | - | - | - | - | - |
| | RH4-H-41100 | LIQUIDS IN-LINE HEATER | 0.02 | 0.10 | 9.46E-04 | 4.14E-03 | - | - | - | - | 2.65E-05 | 1.16E-04 | 0.02 | 0.10 | 4.29E-05 | 1.88E-04 | - | - | - | - | - | - |
| | RH2-H-741 | REGEN GAS HEATER | 0.02 | 0.08 | 7.06E-04 | 3.09E-03 | - | - | - | - | 1.98E-05 | 8.66E-05 | 0.02 | 0.07 | 3.20E-05 | 1.40E-04 | - | - | - | - | - | - |
| | RH2-H-781 | CRYO HOT OIL HEATER | 0.02 | 0.11 | 9.49E-04 | 4.16E-03 | - | - | - | - | 2.66E-05 | 1.16E-04 | 0.02 | 0.10 | 4.30E-05 | 1.88E-04 | - | - | - | - | - | - |
| | RH2-H-2301 | TEG REBOILER | 7.40E-03 | 0.03 | 2.87E-04 | 1.26E-03 | - | - | - | - | 8.03E-06 | 3.52E-05 | 6.88E-03 | 0.03 | 1.30E-05 | 5.69E-05 | - | - | - | - | - | - |
| | RH2-H-0901 | AMINE HOT OIL HEATER | 0.14 | 0.61 | 5.39E-03 | 0.02 | - | - | - | - | 1.51E-04 | 6.61E-04 | 0.13 | 0.57 | 2.44E-04 | 1.07E-03 | - | - | - | - | - | - |
| | RH2-H-1001 | AMINE HOT OIL HEATER | 0.14 | 0.61 | 5.39E-03 | 0.02 | - | - | - | - | 1.51E-04 | 6.61E-04 | 0.13 | 0.57 | 2.44E-04 | 1.07E-03 | - | - | - | - | - | - |
| | RHA-H-4901 | AMINE HOT OIL HEATER | 0.06 | 0.27 | 2.49E-03 | 0.01 | - | - | - | - | 6.98E-05 | 3.06E-04 | 0.06 | 0.26 | 1.13E-04 | 4.95E-04 | - | - | - | - | - | - |
| | RH3-H-741 | REGEN GAS HEATER | 0.02 | 0.07 | 6.76E-04 | 2.96E-03 | - | - | - | - | 1.89E-05 | 8.30E-05 | 0.02 | 0.07 | 3.07E-05 | 1.34E-04 | - | - | - | - | - | - |
| | RH3-H-781 | CRYO HOT OIL HEATER | 0.04 | 0.16 | 1.46E-03 | 6.38E-03 | - | - | - | - | 4.08E-05 | 1.79E-04 | 0.03 | 0.15 | 6.60E-05 | 2.89E-04 | - | - | - | - | - | - |
| | RH3-H-6301 | TEG REBOILER | 7.40E-03 | 0.03 | 2.87E-04 | 1.26E-03 | - | - | - | - | 8.03E-06 | 3.52E-05 | 6.88E-03 | 0.03 | 1.30E-05 | 5.69E-05 | - | - | - | - | - | - |
| | RH4-H-741 | REGEN GAS HEATER | 0.02 | 0.07 | 6.76E-04 | 2.96E-03 | - | - | - | - | 1.89E-05 | 8.30E-05 | 0.02 | 0.07 | 3.07E-05 | 1.34E-04 | - | - | - | - | - | - |
| | RH4-H-781 | CRYO HOT OIL HEATER | 0.04 | 0.18 | 1.64E-03 | 7.18E-03 | - | - | - | - | 4.59E-05 | 2.01E-04 | 0.04 | 0.17 | 7.43E-05 | 3.26E-04 | - | - | - | - | - | - |
| | RH4-H-3901 | AMINE HOT OIL HEATER | 0.14 | 0.62 | 0.14 | 0.59 | - | - | - | - | 1.58E-04 | 6.92E-04 | 0.14 | 0.59 | 2.56E-04 | 1.12E-03 | - | - | - | - | - | - |
| | RH4-H-5301 | TEG REBOILER | 7.40E-03 | 0.03 | 2.87E-04 | 1.26E-03 | - | - | - | - | 8.03E-06 | 3.52E-05 | 6.88E-03 | 0.03 | 1.30E-05 | 5.69E-05 | - | - | - | - | - | - |
| | RH4-H-4001 | AMINE HOT OIL HEATER | 0.14 | 0.62 | 5.64E-03 | 0.02 | - | - | - | - | 1.58E-04 | 6.92E-04 | 0.14 | 0.59 | 2.56E-04 | 1.12E-03 | - | - | - | - | - | - |
| | RH5-H-50902 | AMINE/TEG HOT OIL HEATER | 0.17 | 0.73 | 6.61E-03 | 0.03 | - | - | - | - | 1.85E-04 | 8.11E-04 | 0.16 | 0.70 | 3.00E-04 | 1.31E-03 | - | - | - | - | - | - |
| | RH5-H-50001 | AMINE/TEG HOT OIL HEATER | 0.17 | 0.73 | 6.61E-03 | 0.03 | - | - | - | - | 1.85E-04 | 8.11E-04 | 0.16 | 0.70 | 3.00E-04 | 1.31E-03 | - | - | - | - | - | - |
| | RH5-H-50741 | REGEN GAS HEATER | 0.02 | 0.07 | 6.68E-04 | 2.92E-03 | - | - | - | - | 1.87E-05 | 8.19E-05 | 0.02 | 0.07 | 3.03E-05 | 1.33E-04 | - | - | - | - | - | - |
| | RH5-H-50781 | CRYO HOT OIL HEATER | 0.06 | 0.28 | 2.50E-03 | 0.01 | - | - | - | - | 7.00E-05 | 3.07E-04 | 0.06 | 0.26 | 1.13E-04 | 4.96E-04 | - | - | - | - | - | - |
| | RH6-H-60001 | STABILIZER HOT OIL HEATER | 0.17 | 0.73 | 6.61E-03 | 0.03 | - | - | - | - | 1.85E-04 | 8.11E-04 | 0.16 | 0.70 | 3.00E-04 | 1.31E-03 | - | - | - | - | - | - |
| | RH6-H-60741 | REGEN GAS HEATER | 0.02 | 0.07 | 6.69E-04 | 2.93E-03 | - | - | - | - | 1.87E-05 | 8.21E-05 | 0.02 | 0.07 | 3.03E-05 | 1.33E-04 | - | - | - | - | - | - |
| | RH6-H-60781 | CRYO HOT OIL HEATER | 0.06 | 0.27 | 2.49E-03 | 0.01 | - | - | - | - | 6.97E-05 | 3.05E-04 | 0.06 | 0.26 | 1.13E-04 | 4.94E-04 | - | - | - | - | - | - |
| | RA2-H-20001 | HOT OIL HEATER | 0.17 | 0.72 | 6.56E-03 | 0.03 | - | - | - | - | 1.84E-04 | 8.05E-04 | 0.16 | 0.69 | 2.97E-04 | 1.30E-03 | - | - | - | - | - | - |
| Flares | RH1-FL-29-1003 | FLARE | 0.31 | 1.35 | - | - | - | - | - | - | 0.15 | 0.66 | 0.04 | 0.17 | 0.10 | 0.42 | 5.43E-03 | 0.02 | 0.02 | 0.07 | - | - |
| | RH2-FL-5100 | FLARE | 0.90 | 0.052 | - | - | - | - | - | - | 0.05 | 8.96E-03 | 0.06 | 9.54E-03 | 0.03 | 4.84E-03 | 9.48E-04 | 1.59E-04 | 2.92E-03 | 4.91E-04 | - | - |
| | RH3-FL-5100 | FLARE | 0.42 | 0.42 | - | - | - | - | - | - | 0.42 | 0.42 | - | - | - | - | - | - | - | - | - | - |
| | RH4-FL-45100 | FLARE | 1.90 | 0.05 | - | - | - | - | - | - | 0.16 | 0.02 | 0.12 | 9.19E-03 | 0.05 | 7.25E-03 | 1.41E-03 | 2.14E-04 | 3.14E-03 | 4.72E-04 | - | - |
| | RH5-FL-55100 | FLARE | 0.66 | 0.03 | - | - | - | - | - | - | 0.66 | 0.03 | - | - | - | - | - | - | - | - | - | - |
| | RHA-FL-5100 | FLARE (RA2-FL25100 **not** operating simultaneously) | 0.62 | 0.23 | - | - | - | - | - | - | 0.61 | 0.23 | 0.63 | 0.24 | 0.07 | 0.03 | 8.45E-03 | 3.17E-03 | 0.01 | 3.01E-08 | 8.04E-08 | 3.01E-08 |
| | | FLARE (RA2-FL25100 operating simultaneously) | 0.40 | | - | | - | | - | | 0.05 | | 0.31 | | 0.03 | | 4.17E-03 | | 6.17E-03 | | 3.97E-08 | |
| | RA2-FL-25100 | FLARE (RHA-FL-5100 **not** operating simultaneously) | 0.92 | 0.35 | - | - | - | - | - | - | 0.10 | 0.04 | 0.71 | 0.27 | 0.08 | 0.03 | 9.59E-03 | 3.59E-03 | 0.01 | 5.31E-03 | 3.38E-08 | 1.27E-08 |
| | | FLARE (RHA-FL-5100 operating simultaneously) | 0.47 | | - | | - | | - | | 0.05 | | 0.36 | | 0.04 | | 4.86E-03 | | 7.18E-03 | | 1.66E-08 | |
| | RHA-FL-5850 | SOUR SLOP WATER STORAGE TANKS FLARE | 1.14E-05 | 3.87E-05 | - | - | - | - | - | - | 3.32E-07 | 3.08E-05 | 2.47E-06 | 3.32E-07 | 3.16E-06 | 6.38E-06 | - | - | 4.43E-07 | 1.91E-06 | 5.00E-13 | 2.19E-12 |
| | RA2-FL-25850 | SOUR SLOP WATER STORAGE TANKS FLARE | 0.03 | 9.80E-05 | - | - | - | - | - | - | 8.36E-06 | 2.74E-05 | 1.89E-09 | 8.27E-09 | 1.37E-06 | 5.56E-06 | - | - | 4.53E-07 | 1.95E-06 | 7.08E-13 | 3.10E-12 |
| | RH1-FL-2850 | CONDENSATE STORAGE TANKS FLARE | 7.95 | 0.12 | - | - | - | - | - | - | 2.48E-03 | 0.01 | 0.02 | 0.10 | 1.33E-03 | 5.84E-03 | 5.85E-05 | 2.56E-04 | 1.91E-04 | 8.36E-04 | - | - |
| | Flare-M | RH1-FL-29-1003 Malfunction Flaring | 0.22 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | RH2-FL-5100 Malfunction Flaring | 0.14 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | RH3-FL-5100 Malfunction Flaring | 0.14 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | RH4-FL-45100 Malfunction Flaring | 0.14 | 10.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | RH5-FL-55100 Malfunction Flaring | 0.14 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | RHA-FL-51001 Malfunction Flaring | 0.14 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | RA2-FL-251002 Malfunction Flaring | 0.14 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dehydrators | RH1-TEG | TEG REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH2-TEG | TEG REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH3-TEG | TEG REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH4-TEG | TEG REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH5-TEG | TEG REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH6-TEG | TEG REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Amine Units | RH1-AMINE | AMINE REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH2-AMINE | AMINE REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RHA-AMINE | AMINE REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH4-AMINE | AMINE REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH5-AMINE | AMINE REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RA2-AMINE | AMINE REGENERATION SYSTEM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Thermal Oxidizers | RH2-TO-5500 | THERMAL OXIDIZER | 1.66 | 7.27 | - | - | - | - | - | - | 0.89 | 3.90 | 0.14 | 0.60 | 0.56 | 2.43 | 0.02 | 0.08 | 0.06 | 0.26 | - | - |
| | RH4-TO-45500 | THERMAL OXIDIZER | 0.89 | 3.89 | - | - | - | - | - | - | 0.58 | 2.55 | 0.05 | 0.22 | 0.23 | 1.00 | 6.31E-03 | 0.03 | 0.02 | 0.09 | - | - |
| | RH5-TO-55500 | THERMAL OXIDIZER | 2.22 | 9.72 | - | - | - | - | - | - | 1.29 | 5.64 | 0.17 | 0.72 | 0.68 | 2.96 | 0.02 | 0.10 | 0.07 | 0.30 | - | - |
| Tanks | RH1-TK-COND-EAST | TK-20101-20106, EAST CONDENSATE STORAGE TANKS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RHA-TK-SLOP | TK-6100-6200, SOUR SLOP WATER STORAGE TANKS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH1-TK-COND-WEST | TK-20107-20112, WEST CONDENSATE STORAGE TANKS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RA2-TK-SLOP | TK-26100-26200, SOUR SLOP WATER STORAGE TANKS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH4-TK-SLOP | TK-46200-46230, SLOP WATER STORAGE TANKS | 0.19 | 0.84 | - | - | - | - | - | - | 0.16 | 0.70 | 4.11E-03 | 0.02 | 3.30E-04 | 1.44E-03 | 6.46E-04 | 2.83E-03 | 5.33E-03 | 0.02 | 0.02 | 0.08 |
| | RH2-TK-SLOP | TK-6200, SLOP WATER STORAGE TANK | 0.23 | 1.02 | - | - | - | - | - | - | 0.16 | 0.69 | - | - | 0.07 | 0.30 | 1.05E-03 | 4.61E-03 | 5.54E-03 | 0.02 | - | - |
| | RH1-TK-SLOP | TK-33-001-33-002, SLOP WATER STORAGE TANKS | 0.43 | 1.89 | - | - | - | - | - | - | 0.29 | 1.28 | - | - | 0.13 | 0.56 | 1.96E-03 | 8.58E-03 | 0.01 | 0.05 | - | - |
| | RH-TK-METHANOL | METHANOL STORAGE TANKS | 0.92 | 4.02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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## HAPs Emission Summary - Tank Scenario 2

| | | | Facility-Wide Controlled HAP Emissions | | | | | | | | | | | | | | Facility-Wide Controlled HAP Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit Type** | **Unit ID** | **Equipment Description** | **Total HAP** | | **Formaldehyde** | | **Acetaldehyde** | | **Acrolein** | | **Benzene** | | **n-Hexane** | | **Toluene** | | **Ethylbenzene** | | **Xylenes** | | **2,2,4 Trimethylpentane** | |
| | | | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** | **lb/hr** | **ton/yr** |
| Loading | RHA-TK-SLOP-LOAD | TK-6100-6200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | 5.04E-05 | 6.67E-06 | - | - | - | - | - | - | 4.80E-05 | 6.35E-06 | 2.40E-11 | 3.17E-12 | 2.25E-06 | 2.98E-07 | - | - | 1.44E-07 | 1.90E-08 | 2.77E-15 | 3.66E-16 |
| | RH1-TK-COND-WEST-LOAD | TK-20107-20112, WEST CONDENSATE STORAGE TANKS, TRUCK LOADING | 5.59 | 0.60 | - | - | - | - | - | - | 0.52 | 0.09 | 4.73 | 0.80 | 0.28 | 0.05 | 0.01 | 2.07E-03 | 0.04 | 6.76E-03 | - | - |
| | RA2-TK-SLOP-LOAD | TK-26100-26200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | 4.54E-05 | 1.11E-05 | - | - | - | - | - | - | 4.32E-05 | 1.00E-05 | 3.09E-11 | 7.15E-12 | 6.82E-06 | 4.73E-07 | - | - | 1.39E-07 | 3.21E-08 | 1.24E-20 | 2.87E-21 |
| | RH4-TK-SLOP-LOAD | TK-46200-46230, SLOP WATER STORAGE TANKS, TRUCK LOADING | 0.13 | 0.03 | - | - | - | - | - | - | 0.02 | 4.58E-03 | 0.10 | 0.02 | 9.45E-03 | 1.87E-03 | 1.98E-04 | 3.92E-05 | 1.24E-03 | 2.45E-04 | - | - |
| | RH2-TK-SLOP-LOAD | TK-6200, SLOP WATER STORAGE TANK, TRUCK LOADING | 12.85 | 1.75 | - | - | - | - | - | - | 8.68 | 1.15 | - | - | 3.81 | 0.50 | 0.06 | 7.70E-03 | 0.31 | 0.04 | - | - |
| | RH1-TK-SLOP-LOAD | TK-33-001-33-002, SLOP WATER STORAGE TANKS, TRUCK LOADING | 12.84 | 1.75 | - | - | - | - | - | - | 8.67 | 1.15 | - | - | 3.81 | 0.50 | 0.06 | 7.71E-03 | 0.31 | 0.04 | - | - |
| Generators | RH-GEN-1 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-2 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-3 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-4 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-5 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-6 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-7 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-8 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-9 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-GEN-10 | DIESEL FIRED GENERATOR | 0.015 | 3.70E-03 | 4.71E-03 | 1.18E-03 | 3.06E-03 | 7.65E-04 | 3.69E-04 | 9.23E-05 | 3.72E-03 | 9.31E-04 | - | - | 1.63E-03 | 4.08E-04 | - | - | 1.14E-03 | 2.84E-04 | - | - |
| | RH-TRAILER | DIESEL FIRED HEATER TRAILER | 0.043 | 8.68E-04 | 0.03 | 6.84E-04 | 7.67E-04 | 1.53E-05 | 9.25E-05 | 1.85E-06 | 1.15E-03 | 2.29E-05 | - | - | 6.61E-03 | 1.32E-04 | 6.36E-05 | 1.27E-06 | 1.09E-04 | 2.18E-06 | - | - |
| | RH-GEN-WELL | DIESEL FIRED GENERATOR, WATER WELL | 1.21E-03 | 7.27E-05 | 5.04E-04 | 3.02E-05 | 2.15E-04 | 1.29E-05 | 2.59E-05 | 1.55E-06 | 2.61E-04 | 1.57E-05 | - | - | 1.15E-04 | 6.87E-06 | - | - | 7.98E-05 | 4.79E-06 | - | - |
| SSM | RH1-SSM | RH1, Startup, Shutdown, and Maintenance | 590.13 | 0.39 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RH2-SSM | RH2, Startup, Shutdown, and Maintenance | 23.92 | 0.04 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RH3-SSM | RH3, Startup, Shutdown, and Maintenance | 27.17 | 0.05 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RH4-SSM | RH4, Startup, Shutdown, and Maintenance | 23.92 | 0.04 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RH5-SSM | RH5, Startup, Shutdown, and Maintenance | 22.35 | 0.04 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RH6-SSM | RH6, Startup, Shutdown, and Maintenance | 23.77 | 0.04 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RHA-SSM | RHA, Startup, Shutdown, and Maintenance | 22.69 | 0.04 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RA2-SSM | RA2, Startup, Shutdown, and Maintenance | 22.71 | 0.04 | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - |
| | RH2-TO-5500-SSM | THERMAL OXIDIZER, SSM | 60.84 | 3.33 | - | - | - | - | - | - | 37.12 | 2.03 | 0.34 | 0.02 | 20.35 | 1.11 | 0.60 | 0.03 | 2.43 | 0.13 | - | - |
| | RH4-TO-45500-SSM | THERMAL OXIDIZER, SSM | 46.16 | 2.53 | - | - | - | - | - | - | 0.10 | 5.41E-03 | 35.17 | 1.93 | 10.00 | 0.55 | 0.21 | 0.01 | 0.69 | 0.04 | - | - |
| | RH5-TO-55500-SSM | THERMAL OXIDIZER, SSM | 56.71 | 4.97 | - | - | - | - | - | - | 0.10 | 9.09E-03 | 40.68 | 3.56 | 14.43 | 1.26 | 0.40 | 0.04 | 1.09 | 0.10 | - | - |
| Pigging | RHA-REC-WINKLER | WINKLER INLET PIG RECEIVER | 5.58E-04 | 1.09E-05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RHA-REC-LIMESTONE-8INCH | LIMESTONE 8-INCH INLET PIG RECEIVER | 2.68E-04 | 3.49E-06 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH1-REC-PLANTVIEW | PLANTVIEW INLET LOOP PIG RECEIVER | 0.47 | 3.07E-03 | - | - | - | - | - | - | 0.06 | 4.12E-04 | - | - | - | - | - | - | - | - | - | - |
| | RH1-REC-GUTLINE | GUTLINE INLET PIG RECEIVER | 1.05 | 0.02 | - | - | - | - | - | - | 0.14 | 2.76E-03 | - | - | - | - | - | - | - | - | - | - |
| | RH1-REC-ABU | ABU INLET PIG RECEIVER | 1.22 | 7.96E-03 | - | - | - | - | - | - | 0.16 | 1.07E-03 | - | - | - | - | - | - | - | - | - | - |
| | RH4-REC-24INCH | 24-INCH INLET LOOP PIG RECEIVER | 0.44 | 8.54E-03 | - | - | - | - | - | - | 0.06 | 1.15E-03 | - | - | - | - | - | - | - | - | - | - |
| | RHA-REC-LIMESTONE-10INCH | LIMESTONE 10-INCH INLET PIG RECEIVER | 1.92E-04 | 2.89E-07 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RA2-REC-GREYHOUND | GREYHOUND INLET PIG RECEIVER | 5.03E-04 | 6.54E-06 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RHA-LAU-LIMESTONE-10INCH | LIMESTONE 10-INCH INLET PIG LAUNCHER | 1.92E-04 | 2.89E-07 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH1-LAU-NGPL | NGPL RESIDUE PIG LAUNCHER | 26.80 | 3.35E-03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH1-LAU-TW | TW RESIDUE PIG LAUNCHER | 4.45 | 5.56E-04 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH1-LAU-ETC | ETC LONE STAR NGL PIG LAUNCHER | 112.09 | 0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH1-LAU-ONEOK | ONEOK NGL PIG LAUNCHER | 112.09 | 0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RH2-LAU-GPX | GPX NGL PIG LAUNCHER | 464.36 | 0.12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Haul Roads | RH-HAUL | HAUL ROAD EMISSIONS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Fugitives | RH-FUG-1 | FUGITIVE EMISSIONS | 10.55 | 46.22 | - | - | - | - | - | - | 0.69 | 3.01 | 8.01 | 35.08 | 1.14 | 4.99 | 0.15 | 0.66 | 0.57 | 2.48 | - | - |
| | RH-FUG-2 | FUGITIVE EMISSIONS | 12.30 | 53.86 | - | - | - | - | - | - | 0.78 | 3.42 | 9.04 | 39.59 | 1.35 | 5.89 | 0.18 | 0.79 | 0.68 | 2.97 | - | - |
| | RHA-FUG | RHA, FUGITIVE EMISSIONS | 0.77 | 3.39 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | RA2-FUG | RA2, FUGITIVE EMISSIONS | 1.52 | 6.67 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Totals:** | | | **1,723.00** | **174.98** | **0.28** | **0.89** | **0.03** | **7.68E-03** | **3.81E-03** | **9.27E-04** | **62.79** | **27.07** | **102.35** | **90.69** | **57.26** | **22.65** | **1.75** | **1.81** | **6.36** | **6.62** | **0.02** | **0.08** |

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# RH1, AMINE REGENERATION SYSTEM

Emission Unit: RH1-AMINE
Source Description: RH1, AMINE REGENERATION SYSTEM
Operating Hours: 8760 hrs/yr
Throughput: 64.39 MMscf/d
Amine Recirculation Rate: 420 sgpm

| | Uncontrolled Emissions[1] | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Uncontrolled Regenerator Overheads** | 17.28 | 75.68 | 1.11 | 4.88 | 10.66 | 46.71 | 6.57 | 28.78 | 3.59 | 15.73 | 0.10 | 0.45 | 0.32 | 1.42 | 0.073 | 0.32 |
| **Uncontrolled Flash Tank Overheads** | 33.17 | 145.29 | 0.0038 | 0.017 | 1.33 | 5.82 | 0.42 | 1.85 | 0.23 | 1.03 | 8.42E-03 | 0.037 | 0.020 | 0.089 | 0.64 | 2.82 |
| **Uncontrolled Emissions Per Unit** | 50.45 | 220.96 | 1.12 | 4.89 | 11.99 | 52.53 | 6.99 | 30.63 | 3.83 | 16.76 | 0.11 | 0.49 | 0.35 | 1.51 | 0.72 | 3.14 |

| | Controlled Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Controlled Regenerator Overheads[2]** | Still Vent vapors are sent to Thermal Oxidizer (RH2-TO-5500) and will be represented at that unit. | | | | | | | | | | | | | | | |
| **Controlled Flash Tank Overheads[3]** | Flash vapors are routed to the inlet | | | | | | | | | | | | | | | |
| **Controlled Emissions Per Unit** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Note:**
[1] Emissions estimated using BR&E ProMax.
2 Still vent vapors are sent to the thermal oxidizer (RH2-TO-5500) and controlled emissions will be represented at that unit.
[3] Flash vapors are routed to the inlet.

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# RH2, AMINE REGENERATION SYSTEM

Emission Unit: RH2-AMINE
Source Description: RH2, AMINE REGENERATION SYSTEM
Operating Hours: 8760 hrs/yr
Throughput: 290 MMscf/d
Amine Recirculation Rate: 1920 sgpm

| | Uncontrolled Emissions[1] | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Uncontrolled Regenerator Overheads** | 74.97 | 328.39 | 8.64 | 37.84 | 50.18 | 219.79 | 30.55 | 133.83 | 16.76 | 73.41 | 0.49 | 2.16 | 2.11 | 9.23 | 0.27 | 1.16 |
| **Uncontrolled Flash Tank Overheads** | 153.42 | 671.98 | 0.024 | 0.107 | 6.49 | 28.42 | 2.42 | 10.61 | 1.31 | 5.74 | 0.043 | 0.189 | 0.133 | 0.58 | 2.58 | 11.30 |
| **Uncontrolled Emissions Per Unit** | 228.39 | 1000.37 | 8.66 | 37.95 | 56.67 | 248.22 | 32.98 | 144.44 | 18.07 | 79.15 | 0.54 | 2.35 | 2.24 | 9.81 | 2.85 | 12.47 |

| | Controlled Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Controlled Regenerator Overheads[2]** | Still Vent vapors are sent to Thermal Oxidizer (RH2-TO-5500) and will be represented at that unit. | | | | | | | | | | | | | | | |
| **Controlled Flash Tank Overheads[3]** | Flash vapors are routed to the inlet | | | | | | | | | | | | | | | |
| **Controlled Emissions Per Unit** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Note:**

[1] Emissions estimated using BR&E ProMax.

2 Still vent vapors are sent to the thermal oxidizer (RH2-TO-5500) and controlled emissions will be represented at that unit.

[3] Flash vapors are routed to the inlet.

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# RHA, AMINE REGENERATION SYSTEM

Emission Unit: RHA-AMINE
Source Description: RHA, AMINE REGENERATION SYSTEM
Operating Hours: 8760 hrs/yr
Throughput: 20-75 MMscf/d
Amine Recirculation Rate: 415 sgpm

| | Uncontrolled Emissions[1] | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Uncontrolled Regenerator Overheads** | 9.97 | 43.66 | 752.27 | 3294.92 | 1.622 | 7.107 | 1.31 | 5.74 | 0.29 | 1.25 | - | - | 0.051 | 0.22 | 0.015 | 0.065 |
| **Uncontrolled Flash Tank Overheads** | 47.04 | 206.03 | 0.137 | 0.602 | 0.03 | 0.14 | 0.027 | 0.12 | 0.005 | 0.020 | - | - | 0.001 | 0.003 | 0.13 | 0.58 |
| **Uncontrolled Emissions Per Unit** | 57.01 | 249.70 | 752.40 | 3295.53 | 1.65 | 7.25 | 1.34 | 5.86 | 0.29 | 1.27 | 0.00 | 0.00 | 0.05 | 0.23 | 0.15 | 0.65 |

| | Controlled Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Controlled Regenerator Overheads[2]** | Still vent vapors are sent to an Acid Gas Injection Well (AGI 1) and to a flare (RHA-FL-5100) during AGI 1 downtime. | | | | | | | | | | | | | | | |
| **Controlled Flash Tank Overheads[2]** | Flash vapors are sent to an Acid Gas Injection Well (AGI 1) and routed to the process during AGI 1 downtime. | | | | | | | | | | | | | | | |
| **Controlled Emissions Per Unit** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Note:**

[1] Emissions estimated using BR&E ProMax.

[2] Still vent and flash vapors are sent to an Acid Gas Injection Well (AGI 1). Still vent vapors are sent flare (RHA-FL-5100) and still vent vapors are routed to the process during AGI 1 downtime.

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# RH4, AMINE REGENERATION SYSTEM

Emission Unit: RH4-AMINE
Source Description: RH4, AMINE REGENERATION SYSTEM
Operating Hours: 8760 hrs/yr
Throughput: 290 MMscf/d
Amine Recirculation Rate: 1920 sgpm

| | Uncontrolled Emissions[1] | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Uncontrolled Regenerator Overheads** | 72.89 | 319.26 | 6.44 | 28.21 | 46.16 | 202.17 | 35.17 | 154.02 | 10.00 | 43.79 | 0.21 | 0.90 | 0.69 | 3.02 | 0.099 | 0.43 |
| **Uncontrolled Flash Tank Overheads** | 166.42 | 728.94 | 0.023 | 0.099 | 4.79 | 20.96 | 2.87 | 12.59 | 0.81 | 3.57 | 0.019 | 0.085 | 0.048 | 0.21 | 1.03 | 4.51 |
| **Uncontrolled Emissions Per Unit** | 239.32 | 1048.20 | 6.46 | 28.31 | 50.94 | 223.14 | 38.04 | 166.61 | 10.81 | 47.36 | 0.23 | 0.99 | 0.74 | 3.23 | 1.13 | 4.95 |

| | Controlled Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Controlled Regenerator Overheads[2]** | Still Vent vapors are sent to Thermal Oxidizer (RH4-TO-45500) and will be represented at that unit. | | | | | | | | | | | | | | | |
| **Controlled Flash Tank Overheads[2]** | Flash vapors are routed to the inlet. | | | | | | | | | | | | | | | |
| **Controlled Emissions Per Unit** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Note:**
[1] Emissions estimated using BR&E ProMax.
[2] Flash Tank Overheads are routed to inlet. Non-condensable overheads are routed to the thermal oxidizer (RH4-TO-45500) which has an assumed 99% DRE.

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# RH5, AMINE REGENERATION SYSTEM

Emission Unit: RH5-AMINE
Source Description: RH5, AMINE REGENERATION SYSTEM
Operating Hours: 8760 hrs/yr
Throughput: 290 MMscf/d
Amine Recirculation Rate: 2160 sgpm

| | Uncontrolled Emissions[1] | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Uncontrolled Regenerator Overheads** | 88.45 | 387.40 | 6.47 | 28.34 | 56.71 | 248.41 | 40.68 | 178.17 | 14.43 | 63.22 | 0.40 | 1.77 | 1.09 | 4.79 | 0.10 | 0.45 |
| **Uncontrolled Flash Tank Overheads** | 191.74 | 839.84 | 0.024 | 0.104 | 5.54 | 24.28 | 3.23 | 14.15 | 1.13 | 4.93 | 0.038 | 0.16 | 0.078 | 0.34 | 1.07 | 4.69 |
| **Uncontrolled Emissions Per Unit** | 280.19 | 1227.24 | 6.49 | 28.45 | 62.26 | 272.68 | 43.91 | 192.32 | 15.56 | 68.15 | 0.44 | 1.93 | 1.17 | 5.13 | 1.18 | 5.15 |

| | Controlled Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Controlled Regenerator Overheads[2]** | Still Vent vapors are sent to Thermal Oxidizer (RH5-TO-55500) and will be represented at that unit. | | | | | | | | | | | | | | | |
| **Controlled Flash Tank Overheads[2]** | Flash vapors are routed to the inlet | | | | | | | | | | | | | | | |
| **Controlled Emissions Per Unit** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Note:**
[1] Emissions estimated using BR&E ProMax.
[2] Flash Tank Overheads are routed to inlet. Non-condensable overheads are routed to the thermal oxidizer (RH5-TO-55500) which has an assumed 99% DRE.

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# RA2, AMINE REGENERATION SYSTEM

Emission Unit: RA2-AMINE
Source Description: RA2, AMINE REGENERATION SYSTEM
Operating Hours: 8760 hrs/yr
Throughput: 60-260 MMscf/d
Amine Recirculation Rate: 1065 sgpm

| | Uncontrolled Emissions[1] | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Uncontrolled Regenerator Overheads** | 13.13 | 57.49 | 4305.05 | 18856.13 | 4.226 | 18.509 | 3.36 | 14.72 | 0.73 | 3.21 | - | - | 0.132 | 0.58 | 0.037 | 0.161 |
| **Uncontrolled Flash Tank Overheads** | 53.78 | 235.54 | 17.005 | 74.480 | 0.30 | 1.30 | 0.239 | 1.05 | 0.048 | 0.212 | - | - | 0.008 | 0.036 | 0.36 | 1.56 |
| **Uncontrolled Emissions Per Unit** | 66.90 | 293.03 | 4322.06 | 18930.61 | 4.52 | 19.81 | 3.60 | 15.76 | 0.78 | 3.43 | 0.00 | 0.00 | 0.14 | 0.61 | 0.39 | 1.72 |

| | Controlled Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Controlled Regenerator Overheads[2]** | Still vent vapors are sent to an Acid Gas Injection Well (AGI 2) and to a flare (RA2-FL-25100) during AGI 2 downtime. | | | | | | | | | | | | | | | |
| **Controlled Flash Tank Overheads[2]** | Flash vapors are routed to process during AGI 2 downtime. | | | | | | | | | | | | | | | |
| **Controlled Emissions Per Unit** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Note:**
[1] Emissions estimated using BR&E ProMax.
[2] Still vent and flash vapors are sent to an Acid Gas Injection Well (AGI 2). Still vent vapors are sent a flare (RA2-FL-25100) and flash vapors are routed to the process during AGI 2 downtime.

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## RH1, TEG REGENERATION SYSTEM

| | | |
|---|---|---|
| Emission Unit: | RH1-TEG | |
| Source Description: | 75 MMSCFD TEG Dehydrator Emissions | |
| Still Vent DRE: | 98.00% | |
| Operating Hours: | 8760 | hrs/yr |
| Throughput: | 75 | MMscf/d |
| TEG Recirculation Rate: | 15.5 | sgpm |

| | Uncontrolled Emissions[1] | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Methane | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Uncontrolled Regenerator Overheads | 63.91 | 279.95 | 0.075 | 0.33 | 14.03 | 61.46 | 6.82 | 29.89 | 4.39 | 19.23 | 0.25 | 1.08 | 0.76 | 3.33 | 2.59 | 11.35 | 1.74 | 7.64 |
| Uncontrolled Flash Tank Overheads | 30.30 | 132.73 | 0.013 | 0.055 | 0.36 | 1.58 | 0.065 | 0.28 | 0.023 | 0.099 | 0.001 | 0.003 | 0.002 | 0.010 | 20.84 | 91.28 | 0.27 | 1.18 |
| **Uncontrolled Emissions Per Unit** | 94.22 | 412.68 | 0.088 | 0.39 | 14.39 | 63.04 | 6.89 | 30.17 | 4.41 | 19.33 | 0.25 | 1.09 | 0.76 | 3.34 | 23.43 | 102.63 | 2.01 | 8.82 |

| | Controlled Emissions | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Methane | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Controlled Regenerator Overheads[2] | Regenerator Overheads are controlled by RH1-FL-29-1003 with a 100% capture and 98% DRE. | | | | | | | | | | | | | | | | | |
| Controlled Flash Tank Overheads[2] | Flash Tank Overheads have 100% Capture and are Recycled to Process | | | | | | | | | | | | | | | | | |
| **Controlled Emissions Per Unit** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Note:**

[1] Emissions estimated using BR&E ProMax.

[2] Flash Tank Overheads are routed to inlet. Non-condensable overheads are routed to the flare (RH1-FL-29-1003) which has an assumed 98% DRE.

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## RH2, TEG REGENERATION SYSTEM

| | | |
|---|---|---|
| Emission Unit: | RH2-TEG | |
| Source Description: | 300 MMSCFD TEG Dehydrator Emissions | |
| Still Vent DRE: | 99.00% | |
| Operating Hours: | 8760 | hrs/yr |
| Throughput: | 300 | MMscf/d |
| TEG Recirculation Rate: | 40 | sgpm |

| | Uncontrolled Emissions[1] | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Methane | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Uncontrolled Regenerator Overheads | 136.92 | 599.71 | 0.00 | 0.00 | 37.76 | 165.38 | 19.82 | 86.83 | 11.50 | 50.39 | 0.32 | 1.41 | 1.04 | 4.57 | 4.76 | 20.85 | 5.05 | 22.13 |
| Uncontrolled Flash Tank Overheads | 97.31 | 426.22 | 0.00 | 0.00 | 2.87 | 12.58 | 0.66 | 2.88 | 0.33 | 1.45 | 0.01 | 0.05 | 0.04 | 0.16 | 66.10 | 289.53 | 1.83 | 8.03 |
| **Uncontrolled Emissions Per Unit** | 234.23 | 1025.93 | 0.00 | 0.00 | 40.63 | 177.96 | 20.48 | 89.71 | 11.84 | 51.84 | 0.33 | 1.47 | 1.08 | 4.73 | 70.86 | 310.38 | 6.89 | 30.17 |

| | Controlled Emissions | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Methane | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Controlled Regenerator Overheads[2] | Regenerator Overheads are controlled by RH2-TO-5500 with a 100% capture and 99% DRE. | | | | | | | | | | | | | | | | | |
| Controlled Flash Tank Overheads[2] | Flash Tank Overheads have 100% Capture and are Recycled to Process | | | | | | | | | | | | | | | | | |
| **Controlled Emissions Per Unit** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Note:**

[1] Emissions estimated using BR&E ProMax.

[2] Flash Tank Overheads are routed to inlet. Non-condensable overheads are routed to the thermal oxidizer (RH2-TO-5500) which has an assumed 99% DRE.

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## RH3, TEG REGENERATION SYSTEM

| | | |
|---|---|---|
| Emission Unit: | RH3-TEG | |
| Source Description: | 300 MMSCFD TEG Dehydrator Emissions | |
| Still Vent DRE: | 99.00% | |
| Operating Hours: | 8760 | hrs/yr |
| Throughput: | 300 | MMscf/d |
| TEG Recirculation Rate: | 58 | sgpm |

| | Uncontrolled Emissions[1] | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Methane | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Uncontrolled Regenerator Overheads | 197.86 | 866.63 | 0.00E+00 | 0.00E+00 | 52.14 | 228.36 | 24.03 | 105.24 | 18.66 | 81.71 | 0.67 | 2.93 | 1.88 | 8.23 | 6.68 | 29.24 | 6.97 | 30.51 |
| Uncontrolled Flash Tank Overheads | 136.68 | 598.65 | 0.00E+00 | 0.00E+00 | 3.64 | 15.92 | 0.71 | 3.11 | 0.49 | 2.16 | 0.024 | 0.10 | 0.063 | 0.27 | 91.07 | 398.87 | 2.35 | 10.28 |
| **Uncontrolled Emissions Per Unit** | 334.54 | 1465.28 | 0.00E+00 | 0.00E+00 | 55.77 | 244.29 | 24.74 | 108.35 | 19.15 | 83.87 | 0.69 | 3.03 | 1.94 | 8.51 | 97.74 | 428.12 | 9.31 | 40.79 |

| | Controlled Emissions | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Methane | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Controlled Regenerator Overheads[2] | Regenerator Overheads are controlled by RH4-TO-45500 with a 100% capture and 99% DRE. | | | | | | | | | | | | | | | | | |
| Controlled Flash Tank Overheads[2] | Flash Tank Overheads have 100% Control and are Recycled to Process | | | | | | | | | | | | | | | | | |
| **Controlled Emissions Per Unit** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Note:**

[1] Emissions estimated using BR&E ProMax.

[2] Flash Tank Overheads are routed to inlet. Non-condensable overheads are routed to the thermal oxidizer (RH2-TO-5500) which has an assumed 99% DRE.

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## RH4, TEG REGENERATION SYSTEM

| | | |
|---|---|---|
| Emission Unit: | RH4-TEG | |
| Source Description: | 300 MMSCFD TEG Dehydrator Emissions | |
| Still Vent DRE: | 99.00% | |
| Operating Hours: | 8760 | hrs/yr |
| Throughput: | 300 | MMscf/d |
| TEG Recirculation Rate: | 40 | sgpm |

| | Uncontrolled Emissions[1] | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Methane | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Uncontrolled Regenerator Overheads | 126.08 | 552.22 | 0.000 | 0.000 | 34.59 | 151.49 | 17.86 | 78.22 | 10.85 | 47.54 | 0.37 | 1.61 | 1.09 | 4.77 | 4.83 | 21.17 | 4.40 | 19.29 |
| Uncontrolled Flash Tank Overheads | 89.31 | 391.18 | 0.000 | 0.000 | 2.33 | 10.19 | 0.54 | 2.36 | 0.27 | 1.16 | 0.011 | 0.049 | 0.031 | 0.14 | 65.61 | 287.37 | 1.48 | 6.48 |
| **Uncontrolled Emissions Per Unit** | 215.39 | 943.40 | 0.000 | 0.000 | 36.91 | 161.68 | 18.40 | 80.58 | 11.12 | 48.70 | 0.38 | 1.66 | 1.12 | 4.90 | 70.44 | 308.54 | 5.88 | 25.77 |

| | Controlled Emissions | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Methane | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Controlled Regenerator Overheads[2] | Regenerator Overheads are controlled by a thermal oxidizer (RH4-TO-45500) with a 99% DRE. Emissions are represented at that unit. | | | | | | | | | | | | | | | | | |
| Controlled Flash Tank Overheads[2] | Flash Tank Overheads have 100% Control and are Recycled to Process | | | | | | | | | | | | | | | | | |
| **Controlled Emissions Per Unit** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Note:**

[1]Emissions estimated using BR&E ProMax.

[2] Flash Tank Overheads are routed to inlet. Non-condensable overheads are routed to the thermal oxidizer (RH4-TO-45500) which has an assumed 99% DRE.

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## RH5, TEG REGENERATION SYSTEM

| | | |
|---|---|---|
| Emission Unit: | RH5-TEG | |
| Source Description: | 300 MMSCFD TEG Dehydrator Emissions | |
| Still Vent DRE: | 99.00% | |
| Operating Hours: | 8760 | hrs/yr |
| Throughput: | 300 | MMscf/d |
| TEG Recirculation Rate: | 58 | sgpm |

| | Uncontrolled Emissions[1] | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Methane | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Uncontrolled Regenerator Overheads | 243.61 | 1067.00 | 0.00 | 0.00 | 70.44 | 308.52 | 38.62 | 169.17 | 21.75 | 95.26 | 0.70 | 3.05 | 2.15 | 9.40 | 5.65 | 24.73 | 7.22 | 31.65 |
| Uncontrolled Flash Tank Overheads | 191.66 | 839.46 | 0.00 | 0.00 | 3.60 | 15.75 | 0.92 | 4.04 | 0.31 | 1.35 | 0.0076 | 0.03 | 0.022 | 0.09 | 87.54 | 383.41 | 2.34 | 10.23 |
| **Uncontrolled Emissions Per Unit** | 435.26 | 1906.46 | 0.00 | 0.00 | 74.03 | 324.27 | 39.54 | 173.21 | 22.06 | 96.61 | 0.70 | 3.08 | 2.17 | 9.50 | 93.18 | 408.14 | 9.56 | 41.87 |

| | Controlled Emissions | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Methane | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Controlled Regenerator Overheads[2] | Regenerator Overheads are controlled by a thermal oxidizer (RH5-TO-55500) with a 99% DRE. Emissions are represented at that unit. | | | | | | | | | | | | | | | | | |
| Controlled Flash Tank Overheads[2] | Flash Tank Overheads have 100% Control and are Recycled to Process | | | | | | | | | | | | | | | | | |
| **Controlled Emissions Per Unit** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Note:**

[1] Emissions estimated using BR&E ProMax.

[2] Flash Tank Overheads are routed to inlet. Non-condensable overheads are routed to the thermal oxidizer (RH5-TO-55500) which has an assumed 99% DRE.

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## RH6, TEG REGENERATION SYSTEM

| | | |
|---|---|---|
| Emission Unit: | RH6-TEG | |
| Source Description: | 300 MMSCFD TEG Dehydrator Emissions | |
| Still Vent DRE: | 99.00% | |
| Operating Hours: | 8760 | hrs/yr |
| Throughput: | 300 | MMscf/d |
| TEG Recirculation Rate: | 66.8 | sgpm |

| | Uncontrolled Emissions[1] | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Methane | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Uncontrolled Regenerator Overheads | 226.44 | 991.80 | 0.0090 | 0.039 | 74.61 | 326.78 | 37.80 | 165.55 | 25.32 | 110.90 | 0.96 | 4.21 | 2.92 | 12.78 | 6.47 | 28.35 | 7.69 | 33.68 |
| Uncontrolled Flash Tank Overheads | 151.66 | 664.26 | 0.0033 | 0.015 | 4.13 | 18.07 | 1.01 | 4.42 | 0.48 | 2.10 | 0.019 | 0.084 | 0.054 | 0.24 | 103.81 | 454.70 | 2.56 | 11.23 |
| **Uncontrolled Emissions Per Unit** | 378.10 | 1656.06 | 0.0123 | 0.054 | 78.73 | 344.85 | 38.81 | 169.97 | 25.80 | 113.00 | 0.98 | 4.30 | 2.97 | 13.02 | 110.29 | 483.06 | 10.25 | 44.91 |

| | Controlled Emissions | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC | | $H_2S$ | | Total HAP | | Benzene | | Toluene | | Ethylbenzene | | Xylene | | Methane | | Hexane | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Controlled Regenerator Overheads[2] | Regenerator Overheads are controlled by a thermal oxidizer (RH5-TO-55500) with a 99% DRE. Emissions are represented at that unit. | | | | | | | | | | | | | | | | | |
| Controlled Flash Tank Overheads[2] | Flash Tank Overheads have 100% Control and are Recycled to Process | | | | | | | | | | | | | | | | | |
| **Controlled Emissions Per Unit** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Note:**

[1] Emissions estimated using BR&E ProMax.

[2] Flash Tank Overheads are routed to inlet. Non-condensable overheads are routed to the thermal oxidizer (RH5-TO-55500) which has an assumed 99% DRE.

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**Heater Stack Parameters**

| Parameters | Unit | RH1-H-23-704 | RH1-H-1101 | RH4-H-41100 | RH2-H-741 | RH2-H-781 | RH2-H-2301 | RH2-H-0901 | RH2-H-1001 | RHA-H-4901 | RH3-H-741 | RH3-H-781 | RH3-H-6301 | RH4-H-741 | RH4-H-781 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Input heat rate | MMBtu/hr | 42.50 | 22.30 | 13.16 | 9.60 | 13.20 | 4.00 | 75.00 | 75.00 | 33.90 | 9.20 | 19.80 | 4.00 | 9.20 | 22.30 |
| Exhaust temp[1] | °F | 624 | 624 | 715 | 550 | 300 | 624 | 400 | 400 | 563 | 483 | 483 | 624 | 483 | 483 |
| Stack height | ft | 50 | 17 | 19 | 16.5 | 23 | 26.6 | 27.50 | 27.50 | 24 | 22.5 | 27 | 33 | 23 | 27 |
| Stack diameter | ft | 4.17 | 3.00 | 2.00 | 1.83 | 3.83 | 2.00 | 3.50 | 3.50 | 2.67 | 1.33 | 2.33 | 0.70 | 1.33 | 2.33 |
| Exhaust flow (Actual)[2] | acfm | 18741 | 9833 | 6290 | 3944 | 4081 | 1764 | 26238 | 26238 | 14107 | 3529 | 7595 | 1764 | 3529 | 8554 |
| Exhaust flow (Actual)[3] | acfs | 312.34 | 163.89 | 104.84 | 65.74 | 68.01 | 29.40 | 437.30 | 437.30 | 235.12 | 58.82 | 126.59 | 29.40 | 58.82 | 142.57 |
| Exhaust velocity[4] | ft/sec | 22.87 | 23.19 | 33.37 | 24.90 | 5.89 | 9.36 | 45.45 | 45.45 | 42.10 | 42.34 | 29.69 | 76.39 | 42.34 | 33.44 |
| $O_2$ F factor[5] | dscf/MMBtu | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 |
| Moisture[6] | % | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Exhaust flow (Dry)[7] | dscfm | 7203.6 | 3779.8 | 2230.6 | 1627.2 | 2237.4 | 678.0 | 12712.2 | 12712.2 | 5745.9 | 1559.4 | 3356.0 | 678.0 | 1559.4 | 3779.8 |
| $O_2$ % | % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

| Parameters | Unit | Value | Note |
|---|---|---|---|
| Site Elevation | ft MSL | 3,589 | |
| Pressure at Elevation | in Hg | 26.23 | |

| Parameters | Unit | RH4-H-3901 | RH4-H-5301 | RH4-H-4001 | RH5-H-50902 | RH5-H-50001 | RH5-H-50741 | RH5-H-50781 | RH6-H-60001 | RH6-H-60741 | RH6-H-60781 | RA2-H-20001 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Input heat rate | MMBtu/hr | 76.73 | 4.00 | 76.73 | 89.94 | 89.94 | 9.08 | 33.99 | 89.94 | 9.10 | 33.85 | 89.94 |
| Exhaust temp[1] | °F | 500 | 500 | 500 | 501 | 501 | 483 | 483 | 460 | 550 | 483 | 460 |
| Stack height | ft | 43.25 | 26.75 | 43 | 45.25 | 45.25 | 22.75 | 30 | 46 | 28.17 | 36.75 | 45 |
| Stack diameter | ft | 2.33 | 2.33 | 2.33 | 4.00 | 4.00 | 2.33 | 4.00 | 4.00 | 1.33 | 2.67 | 2.33 |
| Exhaust flow (Actual)[2] | acfm | 29961 | 1562 | 29961 | 35156 | 35156 | 3483 | 13037 | 33656 | 3738 | 12983 | 33656 |
| Exhaust flow (Actual)[3] | acfs | 499.35 | 26.03 | 499.35 | 585.93 | 585.93 | 58.04 | 217.28 | 560.93 | 62.31 | 216.39 | 560.93 |
| Exhaust velocity[4] | ft/sec | 117.11 | 6.11 | 117.11 | 46.63 | 46.63 | 13.61 | 17.29 | 44.64 | 44.62 | 38.74 | 131.55 |
| $O_2$ F factor[5] | dscf/MMBtu | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 | 8,710 |
| Moisture[6] | % | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Exhaust flow (Dry)[7] | dscfm | 13005.4 | 678.0 | 13005.4 | 15244.5 | 15244.5 | 1539.0 | 5761.2 | 15244.5 | 1542.4 | 5737.4 | 15244.5 |
| $O_2$ % | % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

| Parameters | Unit | Value | Note |
|---|---|---|---|
| Site Elevation | ft MSL | 3,586 | |
| Pressure at Elevation | in Hg | 26.24 | |

*Notes:*

1 Engineering Estimate

2 Flow (acfm) = Flow (scfm) * (Stack Temp + 460) / 528 * 29.92 / Site Bar. Pres. / (100% - Moisture%)

3 Flow (acfs) - Flow (acfm) / 60s/min

4 Exhaust flow / stack area

5 Method 9

6 Nominal

7 Flow (dscfm) = heat input * O2 F * [20.9 / (20.9 - O2%)]

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# Heaters and Reboilers Using AP-42 EFs

Units: RH2-H-741, RH2-H-2301, RH3-H-6301, RH4-H-5301
Fuel Heat Value: 1044 BTU/scf
Operating Hours: 8,760 hours/yr

| | Heater and Reboiler Heat Input and Fuel Usage | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | RH2-H-741 | | RH2-H-2301 | | RH3-H-6301 | | RH4-H-5301 | |
| **Heat Input (MMBTU/hr)** | 9.60 | | 4.00 | | 4.00 | | 4.00 | |
| **Fuel Usage (MMScf/hr)** | 0.0092 | | 0.0038 | | 0.0038 | | 0.0038 | |
| **Pollutant** | Criteria Pollutant Emission Rate | | | | | | | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| $NO_x$[5] | 0.94 | 4.12E+00 | 3.92E-01 | 1.72E+00 | 3.92E-01 | 1.72E+00 | 3.92E-01 | 1.72E+00 |
| CO | 0.36 | 1.56E+00 | 1.48E-01 | 6.48E-01 | 1.48E-01 | 6.48E-01 | 1.48E-01 | 6.48E-01 |
| VOC | 0.05 | 2.27E-01 | 2.16E-02 | 9.45E-02 | 2.16E-02 | 9.45E-02 | 2.16E-02 | 9.45E-02 |
| $SO_2$[6] | 0.01 | 2.88E-02 | 2.74E-03 | 1.20E-02 | 2.74E-03 | 1.20E-02 | 2.74E-03 | 1.20E-02 |
| $H_2S$[6] | 0.00 | 5.76E-04 | 5.48E-05 | 2.40E-04 | 5.48E-05 | 2.40E-04 | 5.48E-05 | 2.40E-04 |
| PM | 0.07 | 2.94E-01 | 1.76E-02 | 7.71E-02 | 1.76E-02 | 7.71E-02 | 1.76E-02 | 7.71E-02 |
| Total HAP | 0.02 | 7.78E-02 | 7.40E-03 | 3.24E-02 | 7.40E-03 | 3.24E-02 | 7.40E-03 | 3.24E-02 |

| Pollutant | Emission Factor[1] | Adjusted EF[2] | BACT EF |
|---|---|---|---|
| - | (lb/MMscf) | (lb/MMscf) | (lb/MMBtu) |
| $NO_x$[5] | 100.00 | 102.30 | 0.098 |
| CO | - | - | 0.037 |
| VOC | 5.50 | 5.63 | 0.0054 |
| PM[3] | - | - | 0.0044 |
| Total HAP | 1.89 | 1.93 | - |

| Pollutant | Fuel $H_2S$ Content |
|---|---|
| | gr/100 scf |
| $H_2S$[4] | 0.25 |

[1] AP-42 Table 1.4-1 & 2

[2] Adjusted EF for fuel heat value, per footnote a in Tables 1.4-1 and 1.4-2

[3] Assumes $PM_{10} = PM_{2.5}$

[4] $SO_2$ emissions based on fuel $H_2S$ (gr/100 scf). 100% conversion of $H_2S$ to $SO_2$ is assumed.

[5] AP-42 Table 1.4-1 *Small Boilers, Uncontrolled*

[6] $SO_2$ and $H_2S$ lb/hr emissions are calculated using the following methods:

$SO_2$ (lb/hr) = $H_2S$ content (gr $H_2S$ / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32)

$H_2S$ (lb/hr) = $H_2S$ content (gr H2S / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32) * (1 - DRE %)

| | Heater and Reboiler Heat Input and Fuel Usage | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | RH2-H-741 | | RH2-H-2301 | | RH3-H-6301 | | RH4-H-5301 | |
| **Heat Input (MMBTU/hr)** | 9.60 | | 4.00 | | 4.00 | | 4.00 | |
| **Fuel Usage (MMScf/hr)** | 0.009 | | 0.004 | | 0.004 | | 0.004 | |
| **Pollutant** | Greenhouse Gas Emissions | | | | | | | |
| | lb/hr[6] | ton/yr[7] | lb/hr[6] | ton/yr[7] | lb/hr[6] | ton/yr[7] | lb/hr[6] | ton/yr[7] |
| $CO_2$ | 1,122.98 | 4,918.66 | 467.91 | 2,049.44 | 467.91 | 2,049.44 | 467.91 | 2,049.44 |
| $CH_4$ | 0.021 | 0.093 | 8.82E-03 | 0.039 | 8.82E-03 | 0.039 | 8.82E-03 | 0.039 |
| $N_2O$ | 2.12E-03 | 9.27E-03 | 8.82E-04 | 3.86E-03 | 8.82E-04 | 3.86E-03 | 8.82E-04 | 3.86E-03 |
| $CO_2e$[8] | 1,124.14 | 4,923.71 | 468.39 | 2,051.55 | 468.39 | 2,051.55 | 468.39 | 2,051.55 |

| GHG Emission Factors | GWP | Emission Factor[9] kg/MMBtu |
|---|---|---|
| $CO_2$ | 1 | 53.06 |
| $CH_4$ | 28 | 1.00E-03 |
| $N_2O$ | 265 | 1.00E-04 |

[6] GHG (lb/hr) = EF (kg/MMBtu) * (2.20 lb/kg) * Heat Input (MMBtu/hr)

[7] GHG (tpy) = GHG (lb/hr) * Operating Hours (hr/yr) / (2000 lb/ton)

[8] $CO_2e$ (tpy) = $CO_2$ (tpy) * $GWP_{CO2}$ + $CH_4$ (tpy) * $GWP_{CH4}$ + $N_2O$ (tpy) * $GWP_{N2O}$

[9] 40 CFR 98 Subpart C, Table C-1 & C-2

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# Heaters and Reboilers Using AP-42 EFs

Units: RH2-H-741, RH2-H-2301, RH3-H-6301, RH4-H-5301
Fuel Heat Value: 1044 BTU/scf
Operating Hours: 8,760 hours/yr

| | Heater and Reboiler Heat Input and Fuel Usage | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | RH2-H-741 | | RH2-H-2301 | | RH3-H-6301 | | RH4-H-5301 | |
| **Heat Input (MMBTU/hr)** | 9.60 | | 3.90 | | 3.90 | | 3.90 | |
| **Fuel Usage (MMScf/hr)** | 0.009 | | 0.004 | | 0.004 | | 0.004 | |
| **Pollutant** | **Metals Emissions** | | | | | | | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Arsenic | 1.88E-06 | 8.24E-06 | 7.65E-07 | 3.35E-06 | 7.65E-07 | 3.35E-06 | 7.65E-07 | 3.35E-06 |
| Barium | 4.14E-05 | 1.81E-04 | 1.68E-05 | 7.37E-05 | 1.68E-05 | 7.37E-05 | 1.68E-05 | 7.37E-05 |
| Beryllium | 1.13E-07 | 4.95E-07 | 4.59E-08 | 2.01E-07 | 4.59E-08 | 2.01E-07 | 4.59E-08 | 2.01E-07 |
| Cadmium | 1.04E-05 | 4.53E-05 | 4.21E-06 | 1.84E-05 | 4.21E-06 | 1.84E-05 | 4.21E-06 | 1.84E-05 |
| Chromium | 1.32E-05 | 5.77E-05 | 5.35E-06 | 2.34E-05 | 5.35E-06 | 2.34E-05 | 5.35E-06 | 2.34E-05 |
| Cobalt | 7.91E-07 | 3.46E-06 | 3.21E-07 | 1.41E-06 | 3.21E-07 | 1.41E-06 | 3.21E-07 | 1.41E-06 |
| Copper | 8.00E-06 | 3.50E-05 | 3.25E-06 | 1.42E-05 | 3.25E-06 | 1.42E-05 | 3.25E-06 | 1.42E-05 |
| Manganese | 3.58E-06 | 1.57E-05 | 1.45E-06 | 6.36E-06 | 1.45E-06 | 6.36E-06 | 1.45E-06 | 6.36E-06 |
| Mercury | 2.45E-06 | 1.07E-05 | 9.94E-07 | 4.35E-06 | 9.94E-07 | 4.35E-06 | 9.94E-07 | 4.35E-06 |
| Molybdenum | 1.04E-05 | 4.53E-05 | 4.21E-06 | 1.84E-05 | 4.21E-06 | 1.84E-05 | 4.21E-06 | 1.84E-05 |
| Nickel | 1.98E-05 | 8.66E-05 | 8.03E-06 | 3.52E-05 | 8.03E-06 | 3.52E-05 | 8.03E-06 | 3.52E-05 |
| Selenium | 2.26E-07 | 9.89E-07 | 9.18E-08 | 4.02E-07 | 9.18E-08 | 4.02E-07 | 9.18E-08 | 4.02E-07 |
| Vanadium | 2.16E-05 | 9.48E-05 | 8.79E-06 | 3.85E-05 | 8.79E-06 | 3.85E-05 | 8.79E-06 | 3.85E-05 |
| Zinc | 2.73E-04 | 1.20E-03 | 1.11E-04 | 4.86E-04 | 1.11E-04 | 4.86E-04 | 1.11E-04 | 4.86E-04 |
| **Pollutant** | **Speciated Organic Compound Emissions** | | | | | | | |
| 2-Methylnapthalene | 2.26E-07 | 9.89E-07 | 9.18E-08 | 4.02E-07 | 9.18E-08 | 4.02E-07 | 9.18E-08 | 4.02E-07 |
| 3-Methylcholanthrene | 1.69E-08 | 7.42E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 |
| 7,12-Dimethylbenz(a)anthracene | 1.51E-07 | 6.60E-07 | 6.12E-08 | 2.68E-07 | 6.12E-08 | 2.68E-07 | 6.12E-08 | 2.68E-07 |
| Acenaphthene | 1.69E-08 | 7.42E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 |
| Acenaphthylene | 1.69E-08 | 7.42E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 |
| Anthracene | 2.26E-08 | 9.89E-08 | 9.18E-09 | 4.02E-08 | 9.18E-09 | 4.02E-08 | 9.18E-09 | 4.02E-08 |
| Benz(a)anthracene | 1.69E-08 | 7.42E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 |
| Benzene | 1.98E-05 | 8.66E-05 | 8.03E-06 | 3.52E-05 | 8.03E-06 | 3.52E-05 | 8.03E-06 | 3.52E-05 |
| Benzo(a)pyrene | 1.13E-08 | 4.95E-08 | 4.59E-09 | 2.01E-08 | 4.59E-09 | 2.01E-08 | 4.59E-09 | 2.01E-08 |
| Benzo(b)fluoranthene | 1.69E-08 | 7.42E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 |
| Benzo(g,h,i)perylene | 1.13E-08 | 4.95E-08 | 4.59E-09 | 2.01E-08 | 4.59E-09 | 2.01E-08 | 4.59E-09 | 2.01E-08 |
| Benzo(k)fluoranthene | 1.69E-08 | 7.42E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 |
| Butane | 1.98E-02 | 8.66E-02 | 8.03E-03 | 3.52E-02 | 8.03E-03 | 3.52E-02 | 8.03E-03 | 3.52E-02 |
| Chrysene | 1.69E-08 | 7.42E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 |
| Dibenzo(a,h)anthracene | 1.13E-08 | 4.95E-08 | 4.59E-09 | 2.01E-08 | 4.59E-09 | 2.01E-08 | 4.59E-09 | 2.01E-08 |
| Dichlorobenzene | 1.13E-05 | 4.95E-05 | 4.59E-06 | 2.01E-05 | 4.59E-06 | 2.01E-05 | 4.59E-06 | 2.01E-05 |
| Ethane | 2.92E-02 | 1.28E-01 | 1.19E-02 | 5.19E-02 | 1.19E-02 | 5.19E-02 | 1.19E-02 | 5.19E-02 |
| Fluoranthene | 2.82E-08 | 1.24E-07 | 1.15E-08 | 5.02E-08 | 1.15E-08 | 5.02E-08 | 1.15E-08 | 5.02E-08 |
| Fluorene | 2.64E-08 | 1.15E-07 | 1.07E-08 | 4.69E-08 | 1.07E-08 | 4.69E-08 | 1.07E-08 | 4.69E-08 |
| Formaldehyde | 7.06E-04 | 3.09E-03 | 2.87E-04 | 1.26E-03 | 2.87E-04 | 1.26E-03 | 2.87E-04 | 1.26E-03 |
| Hexane | 1.69E-02 | 7.42E-02 | 6.88E-03 | 3.01E-02 | 6.88E-03 | 3.01E-02 | 6.88E-03 | 3.01E-02 |
| Indeno(1,2,3-cd)pyrene | 1.69E-08 | 7.42E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 | 6.88E-09 | 3.01E-08 |
| Naphthalene | 5.74E-06 | 2.51E-05 | 2.33E-06 | 1.02E-05 | 2.33E-06 | 1.02E-05 | 2.33E-06 | 1.02E-05 |
| Pentane | 2.45E-02 | 1.07E-01 | 9.94E-03 | 4.35E-02 | 9.94E-03 | 4.35E-02 | 9.94E-03 | 4.35E-02 |
| Phenanathrene | 1.60E-07 | 7.01E-07 | 6.50E-08 | 2.85E-07 | 6.50E-08 | 2.85E-07 | 6.50E-08 | 2.85E-07 |
| Propane | 1.51E-02 | 6.60E-02 | 6.12E-03 | 2.68E-02 | 6.12E-03 | 2.68E-02 | 6.12E-03 | 2.68E-02 |
| Pyrene | 4.71E-08 | 2.06E-07 | 1.91E-08 | 8.37E-08 | 1.91E-08 | 8.37E-08 | 1.91E-08 | 8.37E-08 |
| Toluene | 3.20E-05 | 1.40E-04 | 1.30E-05 | 5.69E-05 | 1.30E-05 | 5.69E-05 | 1.30E-05 | 5.69E-05 |
| **Total HAPs:** | 1.78E-02 | 7.78E-02 | 7.22E-03 | 3.16E-02 | 7.22E-03 | 3.16E-02 | 7.22E-03 | 3.16E-02 |

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Heaters and Reboilers Using AP-42 EFs

Units: RH2-H-741, RH2-H-2301, RH3-H-6301, RH4-H-5301
Fuel Heat Value: 1044 BTU/scf
Operating Hours: 8,760 hours/yr

**Emission Factors for Metals From Natural Gas Combustion**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf)[1] | Adjusted EF (lb/MMscf)[2] |
|---|---|---|---|---|---|
| Arsenic | 7440-38-2 | Y | N | 0.0002 | 0.0002046 |
| Barium | 7440-39-3 | N | Y | 0.0044 | 0.0045014 |
| Beryllium | 7440-41-7 | Y | N | 0.000012 | 1.228E-05 |
| Cadmium | 7440-43-9 | Y | Y | 0.0011 | 0.0011253 |
| Chromium | 7440-47-3 | Y | Y | 0.0014 | 0.0014323 |
| Cobalt | 7440-48-4 | Y | Y | 0.000084 | 8.594E-05 |
| Copper | 7440-50-8 | N | Y | 0.00085 | 0.0008696 |
| Manganese | 7439-96-5 | Y | Y | 0.00038 | 0.0003888 |
| Mercury | 7439-97-6 | Y | N | 0.00026 | 0.000266 |
| Molybdenum | 7439-98-7 | N | Y | 0.0011 | 0.0011253 |
| Nickel | 7440-02-0 | Y | Y | 0.0021 | 0.0021484 |
| Selenium | 7782-49-2 | Y | Y | 0.000024 | 2.455E-05 |
| Vanadium | 7440-62-2 | N | Y | 0.0023 | 0.002353 |
| Zinc | 7440-66-6 | N | Y | 0.029 | 0.0296681 |

**Emission Factors for Speciated Organic Compounds from Natural Gas Combustion**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf)[1] | Adjusted EF (lb/MMscf)[2] |
|---|---|---|---|---|---|
| 2-Methylnapthalene | 91-57-6 | Y | N | 0.000024 | 2.455E-05 |
| 3-Methylcholanthrene | 56-49-5 | Y | N | 0.0000018 | 1.841E-06 |
| 7,12-Dimethylbenz(a)anthracene | N/A | Y | N | 0.000016 | 1.637E-05 |
| Acenaphthene | 83-32-9 | Y | N | 0.0000018 | 1.841E-06 |
| Acenaphthylene | 203-96-8 | Y | N | 0.0000018 | 1.841E-06 |
| Anthracene | 120-12-7 | Y | N | 0.0000024 | 2.455E-06 |
| Benz(a)anthracene | 56-55-3 | Y | N | 0.0000018 | 1.841E-06 |
| Benzene | 71-43-2 | Y | N | 0.0021 | 0.0021484 |
| Benzo(a)pyrene | 50-32-8 | Y | N | 0.0000012 | 1.228E-06 |
| Benzo(b)fluoranthene | 205-99-2 | Y | N | 0.0000018 | 1.841E-06 |
| Benzo(g,h,i)perylene | 191-24-2 | Y | N | 0.0000012 | 1.228E-06 |
| Benzo(k)fluoranthene | 207-08-9 | Y | N | 0.0000018 | 1.841E-06 |
| Butane | 106-97-8 | N | N | 2.1 | 2.1483824 |
| Chrysene | 218-01-9 | Y | N | 0.0000018 | 1.841E-06 |
| Dibenzo(a,h)anthracene | 53-70-3 | Y | N | 0.0000012 | 1.228E-06 |
| Dichlorobenzene | 25321-22-6 | Y | N | 0.0012 | 0.0012276 |
| Ethane | 74-84-0 | N | N | 3.1 | 3.1714216 |
| Fluoranthene | 206-44-0 | Y | N | 0.000003 | 3.069E-06 |
| Fluorene | 86-73-7 | Y | N | 0.0000028 | 2.865E-06 |
| Formaldehyde | 50-00-0 | Y | N | 0.075 | 0.0767279 |
| Hexane | 110-54-3 | Y | N | 1.8 | 1.8414706 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | Y | N | 0.0000018 | 1.841E-06 |
| Naphthalene | 81-20-3 | Y | N | 0.00061 | 0.0006241 |
| Pentane | 109-66-0 | N | N | 2.6 | 2.659902 |
| Phenanathrene | 85-01-8 | Y | N | 0.000017 | 1.739E-05 |
| Propane | 74-98-6 | N | N | 1.6 | 1.6368627 |
| Pyrene | 129-00-0 | Y | N | 0.000005 | 5.115E-06 |
| Toluene | 108-88-3 | Y | N | 0.0034 | 0.0034783 |

[1] Emission Factors from AP-42 Tables 1.4-3 & 1.4-4
[2] Adjusted EF, per footnote a in Tables 1.4-3 and 1.4-4

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Heaters and Reboilers (<20 MMBtu/hr)

Units: RH3-H-741, RH4-H-741, RH5-H-50741, RH6-H-60741
Fuel Heat Value: 1044 BTU/scf
Operating Hours: 8,760 hours/yr

| | Heater and Reboiler Heat Input and Fuel Usage | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **RH3-H-741** | | **RH4-H-741** | | **RH5-H-50741** | | **RH6-H-60741** | |
| **Heat Input (MMBTU/hr)** | 9.20 | | 9.20 | | 9.08 | | 9.10 | |
| **Fuel Usage (MMScf/hr)** | 0.009 | | 0.009 | | 0.009 | | 0.009 | |
| **Pollutant** | **Criteria Pollutant Emission Rate** | | | | | | | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| $NO_x$[1] | 4.88E-01 | 2.14E+00 | 4.88E-01 | 2.14E+00 | 4.81E-01 | 2.11E+00 | 4.82E-01 | 2.11E+00 |
| CO | 3.40E-01 | 1.49E+00 | 3.40E-01 | 1.49E+00 | 3.36E-01 | 1.47E+00 | 3.37E-01 | 1.47E+00 |
| VOC | 4.97E-02 | 2.18E-01 | 4.97E-02 | 2.18E-01 | 4.90E-02 | 2.15E-01 | 4.91E-02 | 2.15E-01 |
| $SO_2$[5] | 6.30E-03 | 2.76E-02 | 6.30E-03 | 2.76E-02 | 6.22E-03 | 2.72E-02 | 6.23E-03 | 2.73E-02 |
| $H_2S$[5] | 1.26E-04 | 5.52E-04 | 1.26E-04 | 5.52E-04 | 1.24E-04 | 5.44E-04 | 1.25E-04 | 5.46E-04 |
| PM | 4.05E-02 | 1.77E-01 | 4.05E-02 | 1.77E-01 | 4.00E-02 | 1.75E-01 | 4.00E-02 | 1.75E-01 |
| Total HAP | 1.70E-02 | 7.46E-02 | 1.70E-02 | 7.46E-02 | 1.68E-02 | 7.36E-02 | 1.68E-02 | 7.38E-02 |

| **Pollutant** | **Emission Factors** |
|---|---|
| - | (lb/MMBTU) |
| $NO_x$[1] | 0.053 |
| CO[4] | 0.037 |
| VOC[4] | 0.0054 |
| PM[2,4] | 0.0044 |

| **Pollutant** | **Fuel $H_2S$ Content** | **AP-42 Emission Factor** | **Ajusted AP-42 EF** |
|---|---|---|---|
| | gr/100 scf | lb/MMscf | lb/MMscf |
| $H_2S$[3] | 0.25 | - | - |
| Total HAP | - | 1.89 | 1.93 |

[1] Manufacturer Specification EF for heaters/boilers <20 MMBtu/hr.

[2] Assumes $PM_{10} = PM_{2.5}$

[3] $SO_2$ emissions based on fuel $H_2S$ (gr/100 scf). 100% conversion of $H_2S$ to $SO_2$ is assumed.

[4] BACT

[5] $SO_2$ and $H_2S$ lb/hr emissions are calculated using the following methods:
$SO_2$ (lb/hr) = $H_2S$ content (gr $H_2S$ / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32)
$H_2S$ (lb/hr) = $H_2S$ content (gr H2S / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32) * (1 - DRE %)

| | Heater and Reboiler Heat Input and Fuel Usage | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **RH3-H-741** | | **RH4-H-741** | | **RH5-H-50741** | | **RH6-H-60741** | |
| **Heat Input (MMBTU/hr)** | 9.20 | | 9.20 | | 9.08 | | 9.10 | |
| **Fuel Usage (MMScf/hr)** | 0.009 | | 0.009 | | 0.009 | | 0.009 | |
| **Pollutant** | **Greenhouse Gas Emissions** | | | | | | | |
| | lb/hr[6] | ton/yr[7] | lb/hr[6] | ton/yr[7] | lb/hr[6] | ton/yr[7] | lb/hr[6] | ton/yr[7] |
| $CO_2$ | 1,076.19 | 4,713.72 | 1,076.19 | 4,713.72 | 1,062.15 | 4,652.23 | 1,064.49 | 4,662.48 |
| $CH_4$ | 0.020 | 0.09 | 0.020 | 0.09 | 0.020 | 0.09 | 0.020 | 0.09 |
| $N_2O$ | 2.03E-03 | 8.884E-03 | 2.03E-03 | 8.884E-03 | 2.00E-03 | 8.768E-03 | 2.01E-03 | 8.787E-03 |
| $CO_2e$[8] | 1,077.30 | 4,718.56 | 1,077.30 | 4,718.56 | 1,063.24 | 4,657.01 | 1,065.59 | 4,667.27 |

| **GHG Emission Factors** | **GWP** | **Emission Factor[6] kg/MMBtu** |
|---|---|---|
| $CO_2$ | 1 | 53.06 |
| $CH_4$ | 28 | 1.00E-03 |
| $N_2O$ | 265 | 1.00E-04 |

[6] GHG (lb/hr) = EF (kg/MMBtu) * (2.20 lb/kg) * Heat Input (MMBtu/hr)

[7] GHG (tpy) = GHG (lb/hr) * Operating Hours (hr/yr) / (2000 lb/ton)

[8] $CO_2e$ (tpy) = $CO_2$ (tpy) * $GWP_{CO2}$ + $CH_4$ (tpy) * $GWP_{CH4}$ + $N_2O$ (tpy) * $GWP_{N2O}$

[9] 40 CFR 98 Subpart C, Table C-1 & C-2

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Heaters and Reboilers (<20 MMBtu/hr)

Units: RH3-H-741, RH4-H-741, RH5-H-50741, RH6-H-60741

Fuel Heat Value: 1044 BTU/scf

Operating Hours: 8,760 hours/yr

| | Heater and Reboiler Heat Input and Fuel Usage | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | RH3-H-741 | | RH4-H-741 | | RH5-H-50741 | | RH6-H-60741 | |
| **Heat Input (MMBTU/hr)** | 9.20 | | 9.20 | | 9.08 | | 9.10 | |
| **Fuel Usage (MMScf/hr)** | 0.009 | | 0.009 | | 0.009 | | 0.009 | |
| **Pollutant** | **Metals Emissions** | | | | | | | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Arsenic | 1.80E-06 | 7.90E-06 | 1.80E-06 | 7.90E-06 | 1.78E-06 | 7.80E-06 | 1.78E-06 | 7.82E-06 |
| Barium | 3.97E-05 | 1.74E-04 | 3.97E-05 | 1.74E-04 | 3.92E-05 | 1.72E-04 | 3.93E-05 | 1.72E-04 |
| Beryllium | 1.08E-07 | 4.74E-07 | 1.08E-07 | 4.74E-07 | 1.07E-07 | 4.68E-07 | 1.07E-07 | 4.69E-07 |
| Cadmium | 9.92E-06 | 4.35E-05 | 9.92E-06 | 4.35E-05 | 9.79E-06 | 4.29E-05 | 9.81E-06 | 4.30E-05 |
| Chromium | 1.26E-05 | 5.53E-05 | 1.26E-05 | 5.53E-05 | 1.25E-05 | 5.46E-05 | 1.25E-05 | 5.47E-05 |
| Cobalt | 7.58E-07 | 3.32E-06 | 7.58E-07 | 3.32E-06 | 7.48E-07 | 3.28E-06 | 7.49E-07 | 3.28E-06 |
| Copper | 7.67E-06 | 3.36E-05 | 7.67E-06 | 3.36E-05 | 7.57E-06 | 3.31E-05 | 7.58E-06 | 3.32E-05 |
| Manganese | 3.43E-06 | 1.50E-05 | 3.43E-06 | 1.50E-05 | 3.38E-06 | 1.48E-05 | 3.39E-06 | 1.48E-05 |
| Mercury | 2.35E-06 | 1.03E-05 | 2.35E-06 | 1.03E-05 | 2.31E-06 | 1.01E-05 | 2.32E-06 | 1.02E-05 |
| Molybdenum | 9.92E-06 | 4.35E-05 | 9.92E-06 | 4.35E-05 | 9.79E-06 | 4.29E-05 | 9.81E-06 | 4.30E-05 |
| Nickel | 1.89E-05 | 8.30E-05 | 1.89E-05 | 8.30E-05 | 1.87E-05 | 8.19E-05 | 1.87E-05 | 8.21E-05 |
| Selenium | 2.16E-07 | 9.48E-07 | 2.16E-07 | 9.48E-07 | 2.14E-07 | 9.36E-07 | 2.14E-07 | 9.38E-07 |
| Vanadium | 2.07E-05 | 9.09E-05 | 2.07E-05 | 9.09E-05 | 2.05E-05 | 8.97E-05 | 2.05E-05 | 8.99E-05 |
| Zinc | 2.62E-04 | 1.15E-03 | 2.62E-04 | 1.15E-03 | 2.58E-04 | 1.13E-03 | 2.59E-04 | 1.13E-03 |
| **Pollutant** | **Speciated Organic Compound Emissions** | | | | | | | |
| 2-Methylnapthalene | 2.16E-07 | 9.48E-07 | 2.16E-07 | 9.48E-07 | 2.14E-07 | 9.36E-07 | 2.14E-07 | 9.38E-07 |
| 3-Methylcholanthrene | 1.62E-08 | 7.11E-08 | 1.62E-08 | 7.11E-08 | 1.60E-08 | 7.02E-08 | 1.61E-08 | 7.03E-08 |
| 7,12-Dimethylbenz(a)anthracene | 1.44E-07 | 6.32E-07 | 1.44E-07 | 6.32E-07 | 1.42E-07 | 6.24E-07 | 1.43E-07 | 6.25E-07 |
| Acenaphthene | 1.62E-08 | 7.11E-08 | 1.62E-08 | 7.11E-08 | 1.60E-08 | 7.02E-08 | 1.61E-08 | 7.03E-08 |
| Acenaphthylene | 1.62E-08 | 7.11E-08 | 1.62E-08 | 7.11E-08 | 1.60E-08 | 7.02E-08 | 1.61E-08 | 7.03E-08 |
| Anthracene | 2.16E-08 | 9.48E-08 | 2.16E-08 | 9.48E-08 | 2.14E-08 | 9.36E-08 | 2.14E-08 | 9.38E-08 |
| Benz(a)anthracene | 1.62E-08 | 7.11E-08 | 1.62E-08 | 7.11E-08 | 1.60E-08 | 7.02E-08 | 1.61E-08 | 7.03E-08 |
| Benzene | 1.89E-05 | 8.30E-05 | 1.89E-05 | 8.30E-05 | 1.87E-05 | 8.19E-05 | 1.87E-05 | 8.21E-05 |
| Benzo(a)pyrene | 1.08E-08 | 4.74E-08 | 1.08E-08 | 4.74E-08 | 1.07E-08 | 4.68E-08 | 1.07E-08 | 4.69E-08 |
| Benzo(b)fluoranthene | 1.62E-08 | 7.11E-08 | 1.62E-08 | 7.11E-08 | 1.60E-08 | 7.02E-08 | 1.61E-08 | 7.03E-08 |
| Benzo(g,h,i)perylene | 1.08E-08 | 4.74E-08 | 1.08E-08 | 4.74E-08 | 1.07E-08 | 4.68E-08 | 1.07E-08 | 4.69E-08 |
| Benzo(k)fluoranthene | 1.62E-08 | 7.11E-08 | 1.62E-08 | 7.11E-08 | 1.60E-08 | 7.02E-08 | 1.61E-08 | 7.03E-08 |
| Butane | 1.89E-02 | 8.30E-02 | 1.89E-02 | 8.30E-02 | 1.87E-02 | 8.19E-02 | 1.87E-02 | 8.21E-02 |
| Chrysene | 1.62E-08 | 7.11E-08 | 1.62E-08 | 7.11E-08 | 1.60E-08 | 7.02E-08 | 1.61E-08 | 7.03E-08 |
| Dibenzo(a,h)anthracene | 1.08E-08 | 4.74E-08 | 1.08E-08 | 4.74E-08 | 1.07E-08 | 4.68E-08 | 1.07E-08 | 4.69E-08 |
| Dichlorobenzene | 1.08E-05 | 4.74E-05 | 1.08E-05 | 4.74E-05 | 1.07E-05 | 4.68E-05 | 1.07E-05 | 4.69E-05 |
| Ethane | 2.80E-02 | 1.22E-01 | 2.80E-02 | 1.22E-01 | 2.76E-02 | 1.21E-01 | 2.77E-02 | 1.21E-01 |
| Fluoranthene | 2.71E-08 | 1.19E-07 | 2.71E-08 | 1.19E-07 | 2.67E-08 | 1.17E-07 | 2.68E-08 | 1.17E-07 |
| Fluorene | 2.53E-08 | 1.11E-07 | 2.53E-08 | 1.11E-07 | 2.49E-08 | 1.09E-07 | 2.50E-08 | 1.09E-07 |
| Formaldehyde | 6.76E-04 | 2.96E-03 | 6.76E-04 | 2.96E-03 | 6.68E-04 | 2.92E-03 | 6.69E-04 | 2.93E-03 |
| Hexane | 1.62E-02 | 7.11E-02 | 1.62E-02 | 7.11E-02 | 1.60E-02 | 7.02E-02 | 1.61E-02 | 7.03E-02 |
| Indeno(1,2,3-cd)pyrene | 1.62E-08 | 7.11E-08 | 1.62E-08 | 7.11E-08 | 1.60E-08 | 7.02E-08 | 1.61E-08 | 7.03E-08 |
| Naphthalene | 5.50E-06 | 2.41E-05 | 5.50E-06 | 2.41E-05 | 5.43E-06 | 2.38E-05 | 5.44E-06 | 2.38E-05 |
| Pentane | 2.35E-02 | 1.03E-01 | 2.35E-02 | 1.03E-01 | 2.31E-02 | 1.01E-01 | 2.32E-02 | 1.02E-01 |
| Phenanathrene | 1.53E-07 | 6.72E-07 | 1.53E-07 | 6.72E-07 | 1.51E-07 | 6.63E-07 | 1.52E-07 | 6.64E-07 |
| Propane | 1.44E-02 | 6.32E-02 | 1.44E-02 | 6.32E-02 | 1.42E-02 | 6.24E-02 | 1.43E-02 | 6.25E-02 |
| Pyrene | 4.51E-08 | 1.98E-07 | 4.51E-08 | 1.98E-07 | 4.45E-08 | 1.95E-07 | 4.46E-08 | 1.95E-07 |
| Toluene | 3.07E-05 | 1.34E-04 | 3.07E-05 | 1.34E-04 | 3.03E-05 | 1.33E-04 | 3.03E-05 | 1.33E-04 |
| **Total HAPs (lb/hr):** | 1.70E-02 | 7.46E-02 | 1.70E-02 | 7.46E-02 | 1.68E-02 | 7.36E-02 | 1.68E-02 | 7.38E-02 |

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Heaters and Reboilers (<20 MMBtu/hr)

Units: RH3-H-741, RH4-H-741, RH5-H-50741, RH6-H-60741
Fuel Heat Value: 1044 BTU/scf
Operating Hours: 8,760 hours/yr

**Emission Factors for Metals From Natural Gas Combustion**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf)[1] | Adjusted EF (lb/MMscf)[2] |
|---|---|---|---|---|---|
| Arsenic | 7440-38-2 | Y | N | 0.0002 | 0.000204608 |
| Barium | 7440-39-3 | N | Y | 0.0044 | 0.004501373 |
| Beryllium | 7440-41-7 | Y | N | 0.000012 | 1.22765E-05 |
| Cadmium | 7440-43-9 | Y | Y | 0.0011 | 0.001125343 |
| Chromium | 7440-47-3 | Y | Y | 0.0014 | 0.001432255 |
| Cobalt | 7440-48-4 | Y | Y | 0.000084 | 8.59353E-05 |
| Copper | 7440-50-8 | N | Y | 0.00085 | 0.000869583 |
| Manganese | 7439-96-5 | Y | Y | 0.00038 | 0.000388755 |
| Mercury | 7439-97-6 | Y | N | 0.00026 | 0.00026599 |
| Molybdenum | 7439-98-7 | N | Y | 0.0011 | 0.001125343 |
| Nickel | 7440-02-0 | Y | Y | 0.0021 | 0.002148382 |
| Selenium | 7782-49-2 | Y | Y | 0.000024 | 2.45529E-05 |
| Vanadium | 7440-62-2 | N | Y | 0.0023 | 0.00235299 |
| Zinc | 7440-66-6 | N | Y | 0.029 | 0.029668137 |

**Emission Factors for Speciated Organic Compounds from Natural Gas Combustion**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf)[1] | Adjusted EF (lb/MMscf)[2] |
|---|---|---|---|---|---|
| 2-Methylnapthalene | 91-57-6 | Y | N | 0.000024 | 0.0000246 |
| 3-Methylcholanthrene | 56-49-5 | Y | N | 0.0000018 | 0.0000018 |
| 7,12-Dimethylbenz(a)anthracene | N/A | Y | N | 0.000016 | 0.0000164 |
| Acenaphthene | 83-32-9 | Y | N | 0.0000018 | 0.0000018 |
| Acenaphthylene | 203-96-8 | Y | N | 0.0000018 | 0.0000018 |
| Anthracene | 120-12-7 | Y | N | 0.0000024 | 0.0000025 |
| Benz(a)anthracene | 56-55-3 | Y | N | 0.0000018 | 0.0000018 |
| Benzene | 71-43-2 | Y | N | 0.0021 | 0.0021484 |
| Benzo(a)pyrene | 50-32-8 | Y | N | 0.0000012 | 0.0000012 |
| Benzo(b)fluoranthene | 205-99-2 | Y | N | 0.0000018 | 0.0000018 |
| Benzo(g,h,i)perylene | 191-24-2 | Y | N | 0.0000012 | 0.0000012 |
| Benzo(k)fluoranthene | 207-08-9 | Y | N | 0.0000018 | 0.0000018 |
| Butane | 106-97-8 | N | N | 2.1 | 2.1483824 |
| Chrysene | 218-01-9 | Y | N | 0.0000018 | 0.0000018 |
| Dibenzo(a,h)anthracene | 53-70-3 | Y | N | 0.0000012 | 0.0000012 |
| Dichlorobenzene | 25321-22-6 | Y | N | 0.0012 | 0.0012276 |
| Ethane | 74-84-0 | N | N | 3.1 | 3.1714216 |
| Fluoranthene | 206-44-0 | Y | N | 0.000003 | 0.0000031 |
| Fluorene | 86-73-7 | Y | N | 0.0000028 | 0.0000029 |
| Formaldehyde | 50-00-0 | Y | N | 0.075 | 0.0767279 |
| Hexane | 110-54-3 | Y | N | 1.8 | 1.8414706 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | Y | N | 0.0000018 | 0.0000018 |
| Naphthalene | 81-20-3 | Y | N | 0.00061 | 0.0006241 |
| Pentane | 109-66-0 | N | N | 2.6 | 2.6599020 |
| Phenanathrene | 85-01-8 | Y | N | 0.000017 | 0.0000174 |
| Propane | 74-98-6 | N | N | 1.6 | 1.6368627 |
| Pyrene | 129-00-0 | Y | N | 0.000005 | 0.0000051 |
| Toluene | 108-88-3 | Y | N | 0.0034 | 0.0034783 |

[1] Emission Factors from AP-42 Tables 1.4-3 & 1.4-4
[2] Adjusted EF, per footnote a in Tables 1.4-3 and 1.4-4

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Heaters and Reboilers (>50 MMBtu/hr & <100 MMBtu/hr)

Units: RH4-H-3901, RH4-H-4001, RH5-H-50902, RH5-H-50001, RH6-H-60001, RA2-H-20001
Fuel Heat Value: 1044 BTU/scf
Operating Hours: 8,760 hours/yr

| | Heater and Reboiler Heat Input and Fuel Usage | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RH4-H-3901 | | RH4-H-4001 | | RH5-H-50902 | | RH5-H-50001 | | RH6-H-60001 | | RA2-H-20001 | |
| **Heat Input (MMBTU/hr)** | 76.73 | | 76.73 | | 89.94 | | 89.94 | | 89.94 | | 89.24 | |
| **Fuel Usage (MMScf/hr)** | 0.0735 | | 0.0735 | | 0.086 | | 0.086 | | 0.086 | | 0.086 | |
| **Pollutant** | Criteria Pollutant Emission Rate | | | | | | | | | | | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| $NO_x$[3] | 1.54E+00 | 6.73E+00 | 1.54E+00 | 6.73E+00 | 1.80E+00 | 7.88E+00 | 1.80E+00 | 7.88E+00 | 1.88E+00 | 8.23E+00 | 1.88E+00 | 8.23E+00 |
| CO | 2.84E+00 | 1.24E+01 | 2.84E+00 | 1.24E+01 | 3.33E+00 | 1.46E+01 | 3.33E+00 | 1.46E+01 | 3.33E+00 | 1.46E+01 | 3.30E+00 | 1.45E+01 |
| VOC | 4.14E-01 | 1.81E+00 | 4.14E-01 | 1.81E+00 | 4.86E-01 | 2.13E+00 | 4.86E-01 | 2.13E+00 | 4.86E-01 | 2.13E+00 | 4.82E-01 | 2.11E+00 |
| $SO_2$[4] | 5.25E-02 | 2.30E-01 | 5.25E-02 | 2.30E-01 | 6.16E-02 | 2.70E-01 | 6.16E-02 | 2.70E-01 | 6.16E-02 | 2.70E-01 | 6.11E-02 | 2.68E-01 |
| $H_2S$[4] | 1.05E-03 | 4.60E-03 | 1.05E-03 | 4.60E-03 | 1.23E-03 | 5.39E-03 | 1.23E-03 | 5.39E-03 | 1.23E-03 | 5.39E-03 | 1.22E-03 | 5.35E-03 |
| PM | 3.38E-01 | 1.48E+00 | 3.38E-01 | 1.48E+00 | 3.96E-01 | 1.73E+00 | 3.96E-01 | 1.73E+00 | 0.3957 | 1.73E+00 | 3.93E-01 | 1.72E+00 |
| Total HAP | 1.42E-01 | 6.22E-01 | 1.42E-01 | 6.22E-01 | 1.66E-01 | 7.29E-01 | 1.66E-01 | 7.29E-01 | 1.66E-01 | 7.29E-01 | 1.65E-01 | 7.23E-01 |

| Pollutant | BACT Emission Factors | | |
|---|---|---|---|
| - | (lb/MMBTU) | ppmv @ 3% $O_2$ | MW (lb/lb-mol) |
| $NO_x$ | - | 30 | 46 |
| CO | 0.037 | - | - |
| VOC | 0.0054 | - | - |
| PM[1] | 0.0044 | - | - |

| Pollutant | Fuel Sulfur Content | AP-42 Emission Factor | Ajusted AP-42 EF |
|---|---|---|---|
| | gr/100 scf | lb/MMscf | lb/MMscf |
| $H_2S$[2] | 0.25 | - | - |
| Total HAP | - | 1.89 | 1.93 |

[1] Assumes $PM_{10} = PM_{2.5}$

[2] $SO_2$ emissions based on fuel $H_2S$ (gr/100 scf). 100% conversion of $H_2S$ to $SO_2$ is assumed.

[3] PV= nRT = n = PV/RT

P= 1.00 ATM

Gas Constant, R= 1.31 (atm*ft3)/(lb-mole*K)

[4] $SO_2$ and $H_2S$ lb/hr emissions are calculated using the following methods:

$SO_2$ (lb/hr) = $H_2S$ content (gr $H_2S$ / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32)

$H_2S$ (lb/hr) = $H_2S$ content (gr H2S / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32) * (1 - DRE %)

| | Heater and Reboiler Temperature (T) | | | | | |
|---|---|---|---|---|---|---|
| | RH4-H-3901 | RH4-H-4001 | RH5-H-50902 | RH5-H-50001 | RH6-H-60001 | RA2-H-20001 |
| **°F** | 500 | 500 | 501 | 501 | 460 | 460 |
| **°C** | 260.00 | 260.00 | 260.56 | 260.56 | 237.78 | 237.78 |
| **K** | 533.15 | 533.15 | 533.71 | 533.71 | 510.93 | 510.93 |

| | Heater and Reboiler Heat Input and Fuel Usage | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RH4-H-3901 | | RH4-H-4001 | | RH5-H-50902 | | RH5-H-50001 | | RH6-H-60001 | | RA2-H-20001 | |
| **Heat Input (MMBTU/hr)** | 76.73 | | 76.73 | | 89.94 | | 89.94 | | 89.94 | | 89.24 | |
| **Fuel Usage (MMScf/hr)** | 0.074 | | 0.074 | | 0.086 | | 0.086 | | 0.086 | | 0.086 | |
| **Pollutant** | Greenhouse Gas Emissions | | | | | | | | | | | |
| | lb/hr[1] | ton/yr[2] | lb/hr[2] | ton/yr[3] | lb/hr[3] | ton/yr[4] | lb/hr[3] | ton/yr[4] | lb/hr[3] | ton/yr[4] | lb/hr[6] | ton/yr[7] |
| $CO_2$ | 8,975.67 | 39,313.42 | 8,975.67 | 39,313.42 | 10,520.94 | 46,081.70 | 10,520.94 | 46,081.70 | 10,520.94 | 46,081.70 | 10,439.05 | 45,723.05 |
| $CH_4$ | 0.17 | 0.74 | 0.17 | 0.74 | 0.20 | 0.87 | 0.20 | 0.87 | 0.20 | 0.87 | 0.197 | 0.86 |
| $N_2O$ | 0.017 | 0.074 | 0.017 | 0.074 | 0.020 | 0.087 | 0.020 | 0.087 | 0.020 | 0.087 | 0.02 | 0.086 |
| $CO_2e$[5] | 8,984.89 | 39,353.80 | 8,984.89 | 39,353.80 | 10,531.74 | 46,129.03 | 10,531.74 | 46,129.03 | 10,531.74 | 46,129.03 | 10,449.77 | 45,770.01 |

| GHG Emission Factors | GWP | Emission Factor[6] kg/MMBtu |
|---|---|---|
| $CO_2$ | 1 | 53.06 |
| $CH_4$ | 28 | 1.00E-03 |
| $N_2O$ | 265 | 1.00E-04 |

[3] GHG (lb/hr) = EF (kg/MMBtu) * (2.20 lb/kg) * Heat Input (MMBtu/hr)

[4] GHG (tpy) = GHG (lb/hr) * Operating Hours (hr/yr) / (2000 lb/ton)

[5] $CO_2e$ (tpy) = $CO_2$ (tpy) * $GWP_{CO2}$ + $CH_4$ (tpy) * $GWP_{CH4}$ + $N_2O$ (tpy) * $GWP_{N2O}$

[6] 40 CFR 98 Subpart C, Table C-1 & C-2

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Heaters and Reboilers (>50 MMBtu/hr & <100 MMBtu/hr)

Units: RH4-H-3901, RH4-H-4001, RH5-H-50902, RH5-H-50001, RH6-H-60001, RA2-H-20001
Fuel Heat Value: 1044 BTU/scf
Operating Hours: 8,760 hours/yr

| | Heater and Reboiler Heat Input and Fuel Usage | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RH4-H-3901 | | RH4-H-4001 | | RH5-H-50902 | | RH5-H-50001 | | RH6-H-60001 | | RA2-H-20001 | |
| **Heat Input (MMBTU/hr)** | 76.73 | | 76.73 | | 89.94 | | 89.94 | | 89.94 | | 89.24 | |
| **Fuel Usage (MMScf/hr)** | 0.074 | | 0.074 | | 0.086 | | 0.086 | | 0.086 | | 0.086 | |
| **Pollutant** | **Metals Emissions** | | | | | | | | | | | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Arsenic | 1.50E-05 | 6.59E-05 | 1.50E-05 | 6.59E-05 | 1.76E-05 | 7.72E-05 | 1.76E-05 | 7.72E-05 | 1.76E-05 | 7.72E-05 | 1.75E-05 | 7.66E-05 |
| Barium | 3.31E-04 | 1.45E-03 | 3.31E-04 | 1.45E-03 | 3.88E-04 | 1.70E-03 | 3.88E-04 | 1.70E-03 | 3.88E-04 | 1.70E-03 | 3.85E-04 | 1.69E-03 |
| Beryllium | 9.03E-07 | 3.95E-06 | 9.03E-07 | 3.95E-06 | 1.06E-06 | 4.63E-06 | 1.06E-06 | 4.63E-06 | 1.06E-06 | 4.63E-06 | 1.05E-06 | 4.60E-06 |
| Cadmium | 8.27E-05 | 3.62E-04 | 8.27E-05 | 3.62E-04 | 9.70E-05 | 4.25E-04 | 9.70E-05 | 4.25E-04 | 9.70E-05 | 4.25E-04 | 9.62E-05 | 4.22E-04 |
| Chromium | 1.05E-04 | 4.61E-04 | 1.05E-04 | 4.61E-04 | 1.23E-04 | 5.41E-04 | 1.23E-04 | 5.41E-04 | 1.23E-04 | 5.41E-04 | 1.22E-04 | 5.36E-04 |
| Cobalt | 6.32E-06 | 2.77E-05 | 6.32E-06 | 2.77E-05 | 7.41E-06 | 3.24E-05 | 7.41E-06 | 3.24E-05 | 7.41E-06 | 3.24E-05 | 7.35E-06 | 3.22E-05 |
| Copper | 6.39E-05 | 2.80E-04 | 6.39E-05 | 2.80E-04 | 7.50E-05 | 3.28E-04 | 7.50E-05 | 3.28E-04 | 7.50E-05 | 3.28E-04 | 7.44E-05 | 3.26E-04 |
| Manganese | 2.86E-05 | 1.25E-04 | 2.86E-05 | 1.25E-04 | 3.35E-05 | 1.47E-04 | 3.35E-05 | 1.47E-04 | 3.35E-05 | 1.47E-04 | 3.32E-05 | 1.46E-04 |
| Mercury | 1.96E-05 | 8.57E-05 | 1.96E-05 | 8.57E-05 | 2.29E-05 | 1.00E-04 | 2.29E-05 | 1.00E-04 | 2.29E-05 | 1.00E-04 | 2.27E-05 | 9.96E-05 |
| Molybdenum | 8.27E-05 | 3.62E-04 | 8.27E-05 | 3.62E-04 | 9.70E-05 | 4.25E-04 | 9.70E-05 | 4.25E-04 | 9.70E-05 | 4.25E-04 | 9.62E-05 | 4.22E-04 |
| Nickel | 1.58E-04 | 6.92E-04 | 1.58E-04 | 6.92E-04 | 1.85E-04 | 8.11E-04 | 1.85E-04 | 8.11E-04 | 1.85E-04 | 8.11E-04 | 1.84E-04 | 8.05E-04 |
| Selenium | 1.81E-06 | 7.91E-06 | 1.81E-06 | 7.91E-06 | 2.12E-06 | 9.27E-06 | 2.12E-06 | 9.27E-06 | 2.12E-06 | 9.27E-06 | 2.10E-06 | 9.20E-06 |
| Vanadium | 1.73E-04 | 7.58E-04 | 1.73E-04 | 7.58E-04 | 2.03E-04 | 8.88E-04 | 2.03E-04 | 8.88E-04 | 2.03E-04 | 8.88E-04 | 2.01E-04 | 8.81E-04 |
| Zinc | 2.18E-03 | 9.56E-03 | 2.18E-03 | 9.56E-03 | 2.56E-03 | 1.12E-02 | 2.56E-03 | 1.12E-02 | 2.56E-03 | 1.12E-02 | 2.54E-03 | 1.11E-02 |
| **Pollutant** | **Speciated Organic Compound Emissions** | | | | | | | | | | | |
| 2-Methylnapthalene | 1.81E-06 | 7.91E-06 | 1.81E-06 | 7.91E-06 | 2.12E-06 | 9.27E-06 | 2.12E-06 | 9.27E-06 | 2.12E-06 | 9.27E-06 | 2.10E-06 | 9.20E-06 |
| 3-Methylcholanthrene | 1.35E-07 | 5.93E-07 | 1.35E-07 | 5.93E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.57E-07 | 6.90E-07 |
| 7,12-Dimethylbenz(a)anthracene | 1.20E-06 | 5.27E-06 | 1.20E-06 | 5.27E-06 | 1.41E-06 | 6.18E-06 | 1.41E-06 | 6.18E-06 | 1.41E-06 | 6.18E-06 | 1.40E-06 | 6.13E-06 |
| Acenaphthene | 1.35E-07 | 5.93E-07 | 1.35E-07 | 5.93E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.57E-07 | 6.90E-07 |
| Acenaphthylene | 1.35E-07 | 5.93E-07 | 1.35E-07 | 5.93E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.57E-07 | 6.90E-07 |
| Anthracene | 1.81E-07 | 7.91E-07 | 1.81E-07 | 7.91E-07 | 2.12E-07 | 9.27E-07 | 2.12E-07 | 9.27E-07 | 2.12E-07 | 9.27E-07 | 2.10E-07 | 9.20E-07 |
| Benz(a)anthracene | 1.35E-07 | 5.93E-07 | 1.35E-07 | 5.93E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.57E-07 | 6.90E-07 |
| Benzene | 1.58E-04 | 6.92E-04 | 1.58E-04 | 6.92E-04 | 1.85E-04 | 8.11E-04 | 1.85E-04 | 8.11E-04 | 1.85E-04 | 8.11E-04 | 1.84E-04 | 8.05E-04 |
| Benzo(a)pyrene | 9.03E-08 | 3.95E-07 | 9.03E-08 | 3.95E-07 | 1.06E-07 | 4.63E-07 | 1.06E-07 | 4.63E-07 | 1.06E-07 | 4.63E-07 | 1.05E-07 | 4.60E-07 |
| Benzo(b)fluoranthene | 1.35E-07 | 5.93E-07 | 1.35E-07 | 5.93E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.57E-07 | 6.90E-07 |
| Benzo(g,h,i)perylene | 9.03E-08 | 3.95E-07 | 9.03E-08 | 3.95E-07 | 1.06E-07 | 4.63E-07 | 1.06E-07 | 4.63E-07 | 1.06E-07 | 4.63E-07 | 1.05E-07 | 4.60E-07 |
| Benzo(k)fluoranthene | 1.35E-07 | 5.93E-07 | 1.35E-07 | 5.93E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.57E-07 | 6.90E-07 |
| Butane | 1.58E-01 | 6.92E-01 | 1.58E-01 | 6.92E-01 | 1.85E-01 | 8.11E-01 | 1.85E-01 | 8.11E-01 | 1.85E-01 | 8.11E-01 | 1.84E-01 | 8.05E-01 |
| Chrysene | 1.35E-07 | 5.93E-07 | 1.35E-07 | 5.93E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.57E-07 | 6.90E-07 |
| Dibenzo(a,h)anthracene | 9.03E-08 | 3.95E-07 | 9.03E-08 | 3.95E-07 | 1.06E-07 | 4.63E-07 | 1.06E-07 | 4.63E-07 | 1.06E-07 | 4.63E-07 | 1.05E-07 | 4.60E-07 |
| Dichlorobenzene | 9.03E-05 | 3.95E-04 | 9.03E-05 | 3.95E-04 | 1.06E-04 | 4.63E-04 | 1.06E-04 | 4.63E-04 | 1.06E-04 | 4.63E-04 | 1.05E-04 | 4.60E-04 |
| Ethane | 2.33E-01 | 1.02E+00 | 2.33E-01 | 1.02E+00 | 2.73E-01 | 1.20E+00 | 2.73E-01 | 1.20E+00 | 2.73E-01 | 1.20E+00 | 2.71E-01 | 1.19E+00 |
| Fluoranthene | 2.26E-07 | 9.88E-07 | 2.26E-07 | 9.88E-07 | 2.65E-07 | 1.16E-06 | 2.65E-07 | 1.16E-06 | 2.65E-07 | 1.16E-06 | 2.62E-07 | 1.15E-06 |
| Fluorene | 2.11E-07 | 9.23E-07 | 2.11E-07 | 9.23E-07 | 2.47E-07 | 1.08E-06 | 2.47E-07 | 1.08E-06 | 2.47E-07 | 1.08E-06 | 2.45E-07 | 1.07E-06 |
| Formaldehyde | 5.64E-03 | 2.47E-02 | 5.64E-03 | 2.47E-02 | 6.61E-03 | 2.90E-02 | 6.61E-03 | 2.90E-02 | 6.61E-03 | 2.90E-02 | 6.56E-03 | 2.87E-02 |
| Hexane | 1.35E-01 | 5.93E-01 | 1.35E-01 | 5.93E-01 | 1.59E-01 | 6.95E-01 | 1.59E-01 | 6.95E-01 | 1.59E-01 | 6.95E-01 | 1.57E-01 | 6.90E-01 |
| Indeno(1,2,3-cd)pyrene | 1.35E-07 | 5.93E-07 | 1.35E-07 | 5.93E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.59E-07 | 6.95E-07 | 1.57E-07 | 6.90E-07 |
| Naphthalene | 4.59E-05 | 2.01E-04 | 4.59E-05 | 2.01E-04 | 5.38E-05 | 2.36E-04 | 5.38E-05 | 2.36E-04 | 5.38E-05 | 2.36E-04 | 5.34E-05 | 2.34E-04 |
| Pentane | 1.96E-01 | 8.57E-01 | 1.96E-01 | 8.57E-01 | 2.29E-01 | 1.00E+00 | 2.29E-01 | 1.00E+00 | 2.29E-01 | 1.00E+00 | 2.27E-01 | 9.96E-01 |
| Phenanathrene | 1.28E-06 | 5.60E-06 | 1.28E-06 | 5.60E-06 | 1.50E-06 | 6.57E-06 | 1.50E-06 | 6.57E-06 | 1.50E-06 | 6.57E-06 | 1.49E-06 | 6.51E-06 |
| Propane | 1.20E-01 | 5.27E-01 | 1.20E-01 | 5.27E-01 | 1.41E-01 | 6.18E-01 | 1.41E-01 | 6.18E-01 | 1.41E-01 | 6.18E-01 | 1.40E-01 | 6.13E-01 |
| Pyrene | 3.76E-07 | 1.65E-06 | 3.76E-07 | 1.65E-06 | 4.41E-07 | 1.93E-06 | 4.41E-07 | 1.93E-06 | 4.41E-07 | 1.93E-06 | 4.37E-07 | 1.92E-06 |
| Toluene | 2.56E-04 | 1.12E-03 | 2.56E-04 | 1.12E-03 | 3.00E-04 | 1.31E-03 | 3.00E-04 | 1.31E-03 | 3.00E-04 | 1.31E-03 | 2.97E-04 | 1.30E-03 |
| **Total HAPs:** | 1.42E-01 | 6.22E-01 | 1.42E-01 | 6.22E-01 | 1.66E-01 | 7.29E-01 | 1.66E-01 | 7.29E-01 | 1.66E-01 | 7.29E-01 | 1.65E-01 | 7.23E-01 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Heaters and Reboilers (>50 MMBtu/hr & <100 MMBtu/hr)

Units: RH4-H-3901, RH4-H-4001, RH5-H-50902, RH5-H-50001, RH6-H-60001, RA2-H-20001
Fuel Heat Value: 1044 BTU/scf
Operating Hours: 8,760 hours/yr

**Emission Factors for Metals From Natural Gas Combustion**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf) [1] | Adjusted EF (lb/MMscf)[2] |
|---|---|---|---|---|---|
| Arsenic | 7440-38-2 | Y | N | 0.0002 | 0.0002046 |
| Barium | 7440-39-3 | N | Y | 0.0044 | 0.0045014 |
| Beryllium | 7440-41-7 | Y | N | 0.000012 | 1.228E-05 |
| Cadmium | 7440-43-9 | Y | Y | 0.0011 | 0.0011253 |
| Chromium | 7440-47-3 | Y | Y | 0.0014 | 0.0014323 |
| Cobalt | 7440-48-4 | Y | Y | 0.000084 | 8.594E-05 |
| Copper | 7440-50-8 | N | Y | 0.00085 | 0.0008696 |
| Manganese | 7439-96-5 | Y | Y | 0.00038 | 0.0003888 |
| Mercury | 7439-97-6 | Y | N | 0.00026 | 0.000266 |
| Molybdenum | 7439-98-7 | N | Y | 0.0011 | 0.0011253 |
| Nickel | 7440-02-0 | Y | Y | 0.0021 | 0.0021484 |
| Selenium | 7782-49-2 | Y | Y | 0.000024 | 2.455E-05 |
| Vanadium | 7440-62-2 | N | Y | 0.0023 | 0.002353 |
| Zinc | 7440-66-6 | N | Y | 0.029 | 0.0296681 |

**Emission Factors for Speciated Organic Compounds from Natural**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf) [1] | Adjusted EF (lb/MMscf)[2] |
|---|---|---|---|---|---|
| 2-Methylnapthalene | 91-57-6 | Y | N | 0.000024 | 0.000025 |
| 3-Methylcholanthrene | 56-49-5 | Y | N | 0.0000018 | 0.000002 |
| 7,12-Dimethylbenz(a)anthracene | N/A | Y | N | 0.000016 | 0.000016 |
| Acenaphthene | 83-32-9 | Y | N | 0.0000018 | 0.000002 |
| Acenaphthylene | 203-96-8 | Y | N | 0.0000018 | 0.000002 |
| Anthracene | 120-12-7 | Y | N | 0.0000024 | 0.000002 |
| Benz(a)anthracene | 56-55-3 | Y | N | 0.0000018 | 0.000002 |
| Benzene | 71-43-2 | Y | N | 0.0021 | 0.002148 |
| Benzo(a)pyrene | 50-32-8 | Y | N | 0.0000012 | 0.000001 |
| Benzo(b)fluoranthene | 205-99-2 | Y | N | 0.0000018 | 0.000002 |
| Benzo(g,h,i)perylene | 191-24-2 | Y | N | 0.0000012 | 0.000001 |
| Benzo(k)fluoranthene | 207-08-9 | Y | N | 0.0000018 | 0.000002 |
| Butane | 106-97-8 | N | N | 2.1 | 2.148382 |
| Chrysene | 218-01-9 | Y | N | 0.0000018 | 0.000002 |
| Dibenzo(a,h)anthracene | 53-70-3 | Y | N | 0.0000012 | 0.000001 |
| Dichlorobenzene | 25321-22-6 | Y | N | 0.0012 | 0.001228 |
| Ethane | 74-84-0 | N | N | 3.1 | 3.171422 |
| Fluoranthene | 206-44-0 | Y | N | 0.000003 | 0.000003 |
| Fluorene | 86-73-7 | Y | N | 0.0000028 | 0.000003 |
| Formaldehyde | 50-00-0 | Y | N | 0.075 | 0.076728 |
| Hexane | 110-54-3 | Y | N | 1.8 | 1.841471 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | Y | N | 0.0000018 | 0.000002 |
| Naphthalene | 81-20-3 | Y | N | 0.00061 | 0.000624 |
| Pentane | 109-66-0 | N | N | 2.6 | 2.659902 |
| Phenanathrene | 85-01-8 | Y | N | 0.000017 | 0.000017 |
| Propane | 74-98-6 | N | N | 1.6 | 1.636863 |
| Pyrene | 129-00-0 | Y | N | 0.000005 | 0.000005 |
| Toluene | 108-88-3 | Y | N | 0.0034 | 0.003478 |

[1] Emission Factors from AP-42 Tables 1.4-3 & 1.4-4
[2] Adjusted EF, per footnote a in Tables 1.4-3 and 1.4-4

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Heaters and Reboilers (<50 MMBtu/hr)

Units: RH1-H-23-704, RHA-H-4901, RH3-H-781, RA2-H-20001

Fuel Heat Value: 1044 BTU/scf

Operating Hours: 8,760 hours/yr

1.53

| | Heater and Reboiler Heat Input and Fuel Usage | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **RH1-H-23-704** | | **RH1-H-1101** | | **RHA-H-4901** | | **RH3-H-781** | | **RH4-H-781** | | **RH5-H-50781** | | **RH6-H-60781** | |
| **Heat Input (MMBTU/hr)** | 42.50 | | 22.30 | | 33.90 | | 19.80 | | 22.30 | | 33.99 | | 33.85 | |
| **Fuel Usage (MMScf/hr)** | 0.041 | | 0.021 | | 0.0325 | | 0.019 | | 0.021 | | 0.033 | | 0.032 | |
| **Pollutant** | **Criteria Pollutant Emission Rate** | | | | | | | | | | | | | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| $NO_x$[4] | 0.75 | 3.30E+00 | 3.96E-01 | 1.73E+00 | 6.37E-01 | 2.79E+00 | 4.04E-01 | 1.77E+00 | 4.55E-01 | 1.99E+00 | 6.93E-01 | 3.04E+00 | 6.90E-01 | 3.02E+00 |
| CO | 1.57E+00 | 6.89E+00 | 8.25E-01 | 3.61E+00 | 1.25E+00 | 5.49E+00 | 7.33E-01 | 3.21E+00 | 8.25E-01 | 3.61E+00 | 1.26E+00 | 5.51E+00 | 1.25E+00 | 5.49E+00 |
| VOC | 2.30E-01 | 1.01E+00 | 1.20E-01 | 5.27E-01 | 1.83E-01 | 8.02E-01 | 1.07E-01 | 4.68E-01 | 1.20E-01 | 5.27E-01 | 1.84E-01 | 8.04E-01 | 1.83E-01 | 8.01E-01 |
| $SO_2$[5] | 2.91E-02 | 1.27E-01 | 1.53E-02 | 6.69E-02 | 2.32E-02 | 1.02E-01 | 1.36E-02 | 5.94E-02 | 1.53E-02 | 6.69E-02 | 2.33E-02 | 1.02E-01 | 2.32E-02 | 1.01E-01 |
| $H_2S$[5] | 5.82E-04 | 2.55E-03 | 3.05E-04 | 1.34E-03 | 4.64E-04 | 2.03E-03 | 2.71E-04 | 1.19E-03 | 3.05E-04 | 1.34E-03 | 4.65E-04 | 2.04E-03 | 4.63E-04 | 2.03E-03 |
| PM | 1.87E-01 | 8.19E-01 | 9.81E-02 | 4.30E-01 | 1.49E-01 | 6.53E-01 | 8.71E-02 | 3.82E-01 | 9.81E-02 | 4.30E-01 | 1.50E-01 | 6.55E-01 | 1.49E-01 | 6.52E-01 |
| Total HAP | 7.87E-02 | 3.45E-01 | 4.13E-02 | 1.81E-01 | 6.27E-02 | 2.75E-01 | 3.66E-02 | 1.61E-01 | 4.13E-02 | 1.81E-01 | 6.29E-02 | 2.76E-01 | 6.27E-02 | 2.74E-01 |

| **Pollutant** | **BACT Emission Factors** | | |
|---|---|---|---|
| - | (lb/MMBTU) | ppmv @ 3% $O_2$ | MW (lb/lb-mol) |
| $NO_x$[4] | - | 30 | 46 |
| CO[1] | 0.037 | - | - |
| VOC[1] | 0.0054 | - | - |
| PM[3,1] | 0.0044 | - | - |

| **Pollutant** | **Fuel $H_2S$ Content** | **AP-42 Emission Factor** | **Ajusted AP-42 EF** |
|---|---|---|---|
| | gr/100 scf | lb/MMscf | lb/MMscf |
| $H_2S$[4] | 0.25 | - | - |
| Total HAP | - | 1.89 | 1.93 |

[1] BACT

[2] Assumes $PM_{10} = PM_{2.5}$

[3] $SO_2$ emissions based on fuel $H_2S$ (gr/100 scf). 100% conversion of $H_2S$ to $SO_2$ is assumed.

[4] PV= nRT = n = PV/RT

P= 1.00 ATM

Gas Constant, R= 1.31 (atm*ft3)/(lb-mole*K)

[5] $SO_2$ and $H_2S$ lb/hr emissions are calculated using the following methods:

$SO_2$ (lb/hr) = $H_2S$ content (gr $H_2S$ / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32)

$H_2S$ (lb/hr) = $H_2S$ content (gr H2S / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32) * (1 - DRE %)

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Heaters and Reboilers (<50 MMBtu/hr)

Units: RH1-H-23-704, RHA-H-4901, RH3-H-781, RA2-H-20001

Fuel Heat Value: 1044 BTU/scf

Operating Hours: 8,760 hours/yr

| | Heater and Reboiler Temperature (T) | | | | | | |
|---|---|---|---|---|---|---|---|
| | **RH1-H-23-704** | **RH1-H-1101** | **RHA-H-4901** | **RH3-H-781** | **RH4-H-781** | **RH5-H-50781** | **RH6-H-60781** |
| **°F** | 624 | 624 | 563 | 483 | 483 | 483 | 483 |
| **°C** | 328.89 | 328.89 | 295.00 | 250.56 | 250.56 | 250.56 | 250.56 |
| **K** | 602.04 | 602.04 | 568.15 | 523.71 | 523.71 | 523.71 | 523.71 |

| | Heater and Reboiler Heat Input and Fuel Usage | | | | | | |
|---|---|---|---|---|---|---|---|
| | **RH1-H-23-704** | **RH1-H-1101** | **RHA-H-4901** | **RH3-H-781** | **RH4-H-781** | **RH5-H-50781** | **RH6-H-60781** |
| **Heat Input (MMBTU/hr)** | 42.50 | 22.30 | 33.90 | 19.80 | 22.30 | 33.99 | 33.85 |
| **Fuel Usage (MMScf/hr)** | 0.041 | 0.021 | 0.032 | 0.019 | 0.021 | 0.033 | 0.032 |

| **Pollutant** | **Greenhouse Gas Emissions** | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr[6] | ton/yr[7] | lb/hr[6] | ton/yr[7] | lb/hr[6] | ton/yr[7] | lb/hr[6] | ton/yr[7] | lb/hr[6] | ton/yr[7] | lb/hr[4] | ton/yr[5] | lb/hr[6] | ton/yr[7] |
| $CO_2$ | 4,971.53 | 21,775.32 | 2,608.59 | 11,425.64 | 3,965.53 | 17,369.02 | 2,316.15 | 10,144.74 | 2,608.59 | 11,425.64 | 3,976.06 | 17,415.13 | 3,959.68 | 17,343.40 |
| $CH_4$ | 0.094 | 0.41 | 0.049 | 0.22 | 0.075 | 0.327 | 0.044 | 0.19 | 0.049 | 0.22 | 0.07 | 0.33 | 0.075 | 0.33 |
| $N_2O$ | 9.37E-03 | 0.041 | 4.92E-03 | 0.022 | 7.47E-03 | 0.03 | 4.37E-03 | 0.019 | 4.92E-03 | 0.022 | 7.494E-03 | 0.033 | 7.46E-03 | 0.033 |
| $CO_2e$[8] | 4,976.64 | 21,797.69 | 2,611.27 | 11,437.37 | 3,969.60 | 17,386.86 | 2,318.53 | 10,155.16 | 2,611.27 | 11,437.37 | 3,980.14 | 17,433.02 | 3,963.75 | 17,361.22 |

| **GHG Emission Factors** | **GWP** | **Emission Factor[9] kg/MMBtu** |
|---|---|---|
| $CO_2$ | 1 | 53.06 |
| $CH_4$ | 28 | 1.00E-03 |
| $N_2O$ | 265 | 1.00E-04 |

[6] GHG (lb/hr) = EF (kg/MMBtu) * (2.20 lb/kg) * Heat Input (MMBtu/hr)

[7] GHG (tpy) = GHG (lb/hr) * Operating Hours (hr/yr) / (2000 lb/ton)

[8] $CO_2e$ (tpy) = $CO_2$ (tpy) * $GWP_{CO2}$ + $CH_4$ (tpy) * $GWP_{CH4}$ + $N_2O$ (tpy) * $GWP_{N2O}$

[9] 40 CFR 98 Subpart C, Table C-1 & C-2

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Heaters and Reboilers (<50 MMBtu/hr)

Units: RH1-H-23-704, RHA-H-4901, RH3-H-781, RA2-H-20001
Fuel Heat Value: 1044 BTU/scf
Operating Hours: 8,760 hours/yr

| | Heater and Reboiler Heat Input and Fuel Usage | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **RH1-H-23-704** | | **RH1-H-1101** | | **RH3-H-741** | | **RH3-H-781** | | **RH4-H-781** | | **H5-H-50781** | | **RH6-H-60781** | |
| **Heat Input (MMBTU/hr)** | 42.50 | | 22.30 | | 33.90 | | 19.80 | | 22.30 | | 33.99 | | 33.85 | |
| **Fuel Usage (MMScf/hr)** | 0.041 | | 0.021 | | 0.032 | | 0.019 | | 0.021 | | 0.033 | | 0.032 | |
| **Pollutant** | **Metals Emissions** | | | | | | | | | | | | | |
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Arsenic | 8.33E-06 | 3.65E-05 | 4.37E-06 | 1.92E-05 | 6.65E-06 | 2.91E-05 | 3.88E-06 | 1.70E-05 | 4.37E-06 | 1.92E-05 | 6.66E-06 | 2.92E-05 | 6.64E-06 | 2.91E-05 |
| Barium | 1.83E-04 | 8.03E-04 | 9.62E-05 | 4.21E-04 | 1.46E-04 | 6.41E-04 | 8.54E-05 | 3.74E-04 | 9.62E-05 | 4.21E-04 | 1.47E-04 | 6.42E-04 | 1.46E-04 | 6.40E-04 |
| Beryllium | 5.00E-07 | 2.19E-06 | 2.62E-07 | 1.15E-06 | 3.99E-07 | 1.75E-06 | 2.33E-07 | 1.02E-06 | 2.62E-07 | 1.15E-06 | 4.00E-07 | 1.75E-06 | 3.98E-07 | 1.74E-06 |
| Cadmium | 4.58E-05 | 2.01E-04 | 2.40E-05 | 1.05E-04 | 3.66E-05 | 1.60E-04 | 2.14E-05 | 9.35E-05 | 2.40E-05 | 1.05E-04 | 3.67E-05 | 1.61E-04 | 3.65E-05 | 1.60E-04 |
| Chromium | 5.83E-05 | 2.56E-04 | 3.06E-05 | 1.34E-04 | 4.65E-05 | 2.04E-04 | 2.72E-05 | 1.19E-04 | 3.06E-05 | 1.34E-04 | 4.67E-05 | 2.04E-04 | 4.65E-05 | 2.03E-04 |
| Cobalt | 3.50E-06 | 1.53E-05 | 1.84E-06 | 8.04E-06 | 2.79E-06 | 1.22E-05 | 1.63E-06 | 7.14E-06 | 1.84E-06 | 8.04E-06 | 2.80E-06 | 1.23E-05 | 2.79E-06 | 1.22E-05 |
| Copper | 3.54E-05 | 1.55E-04 | 1.86E-05 | 8.14E-05 | 2.83E-05 | 1.24E-04 | 1.65E-05 | 7.23E-05 | 1.86E-05 | 8.14E-05 | 2.83E-05 | 1.24E-04 | 2.82E-05 | 1.24E-04 |
| Manganese | 1.58E-05 | 6.94E-05 | 8.31E-06 | 3.64E-05 | 1.26E-05 | 5.53E-05 | 7.38E-06 | 3.23E-05 | 8.31E-06 | 3.64E-05 | 1.27E-05 | 5.55E-05 | 1.26E-05 | 5.52E-05 |
| Mercury | 1.08E-05 | 4.75E-05 | 5.68E-06 | 2.49E-05 | 8.64E-06 | 3.78E-05 | 5.05E-06 | 2.21E-05 | 5.68E-06 | 2.49E-05 | 8.66E-06 | 3.79E-05 | 8.63E-06 | 3.78E-05 |
| Molybdenum | 4.58E-05 | 2.01E-04 | 2.40E-05 | 1.05E-04 | 3.66E-05 | 1.60E-04 | 2.14E-05 | 9.35E-05 | 2.40E-05 | 1.05E-04 | 3.67E-05 | 1.61E-04 | 3.65E-05 | 1.60E-04 |
| Nickel | 8.75E-05 | 3.83E-04 | 4.59E-05 | 2.01E-04 | 6.98E-05 | 3.06E-04 | 4.08E-05 | 1.79E-04 | 4.59E-05 | 2.01E-04 | 7.00E-05 | 3.07E-04 | 6.97E-05 | 3.05E-04 |
| Selenium | 1.00E-06 | 4.38E-06 | 5.25E-07 | 2.30E-06 | 7.98E-07 | 3.49E-06 | 4.66E-07 | 2.04E-06 | 5.25E-07 | 2.30E-06 | 8.00E-07 | 3.50E-06 | 7.96E-07 | 3.49E-06 |
| Vanadium | 9.58E-05 | 4.20E-04 | 5.03E-05 | 2.20E-04 | 7.64E-05 | 3.35E-04 | 4.46E-05 | 1.96E-04 | 5.03E-05 | 2.20E-04 | 7.66E-05 | 3.36E-04 | 7.63E-05 | 3.34E-04 |
| Zinc | 1.21E-03 | 5.29E-03 | 6.34E-04 | 2.78E-03 | 9.64E-04 | 4.22E-03 | 5.63E-04 | 2.47E-03 | 6.34E-04 | 2.78E-03 | 9.66E-04 | 4.23E-03 | 9.62E-04 | 4.22E-03 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Heaters and Reboilers (<50 MMBtu/hr)

Units: RH1-H-23-704, RHA-H-4901, RH3-H-781, RA2-H-20001

Fuel Heat Value: 1044 BTU/scf

Operating Hours: 8,760 hours/yr

| Pollutant | Speciated Organic Compound Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Methylnapthalene | 1.00E-06 | 4.38E-06 | 5.25E-07 | 2.30E-06 | 7.98E-07 | 3.49E-06 | 4.66E-07 | 2.04E-06 | 5.25E-07 | 2.30E-06 | 8.00E-07 | 3.50E-06 | 7.96E-07 | 3.49E-06 |
| 3-Methylcholanthrene | 7.50E-08 | 3.29E-07 | 3.94E-08 | 1.72E-07 | 5.98E-08 | 2.62E-07 | 3.49E-08 | 1.53E-07 | 3.94E-08 | 1.72E-07 | 6.00E-08 | 2.63E-07 | 5.97E-08 | 2.62E-07 |
| 7,12-Dimethylbenz(a)anthracene | 6.67E-07 | 2.92E-06 | 3.50E-07 | 1.53E-06 | 5.32E-07 | 2.33E-06 | 3.11E-07 | 1.36E-06 | 3.50E-07 | 1.53E-06 | 5.33E-07 | 2.34E-06 | 5.31E-07 | 2.33E-06 |
| Acenaphthene | 7.50E-08 | 3.29E-07 | 3.94E-08 | 1.72E-07 | 5.98E-08 | 2.62E-07 | 3.49E-08 | 1.53E-07 | 3.94E-08 | 1.72E-07 | 6.00E-08 | 2.63E-07 | 5.97E-08 | 2.62E-07 |
| Acenaphthylene | 7.50E-08 | 3.29E-07 | 3.94E-08 | 1.72E-07 | 5.98E-08 | 2.62E-07 | 3.49E-08 | 1.53E-07 | 3.94E-08 | 1.72E-07 | 6.00E-08 | 2.63E-07 | 5.97E-08 | 2.62E-07 |
| Anthracene | 1.00E-07 | 4.38E-07 | 5.25E-08 | 2.30E-07 | 7.98E-08 | 3.49E-07 | 4.66E-08 | 2.04E-07 | 5.25E-08 | 2.30E-07 | 8.00E-08 | 3.50E-07 | 7.96E-08 | 3.49E-07 |
| Benz(a)anthracene | 7.50E-08 | 3.29E-07 | 3.94E-08 | 1.72E-07 | 5.98E-08 | 2.62E-07 | 3.49E-08 | 1.53E-07 | 3.94E-08 | 1.72E-07 | 6.00E-08 | 2.63E-07 | 5.97E-08 | 2.62E-07 |
| Benzene | 8.75E-05 | 3.83E-04 | 4.59E-05 | 2.01E-04 | 6.98E-05 | 3.06E-04 | 4.08E-05 | 1.79E-04 | 4.59E-05 | 2.01E-04 | 7.00E-05 | 3.07E-04 | 6.97E-05 | 3.05E-04 |
| Benzo(a)pyrene | 5.00E-08 | 2.19E-07 | 2.62E-08 | 1.15E-07 | 3.99E-08 | 1.75E-07 | 2.33E-08 | 1.02E-07 | 2.62E-08 | 1.15E-07 | 4.00E-08 | 1.75E-07 | 3.98E-08 | 1.74E-07 |
| Benzo(b)fluoranthene | 7.50E-08 | 3.29E-07 | 3.94E-08 | 1.72E-07 | 5.98E-08 | 2.62E-07 | 3.49E-08 | 1.53E-07 | 3.94E-08 | 1.72E-07 | 6.00E-08 | 2.63E-07 | 5.97E-08 | 2.62E-07 |
| Benzo(g,h,i)perylene | 5.00E-08 | 2.19E-07 | 2.62E-08 | 1.15E-07 | 3.99E-08 | 1.75E-07 | 2.33E-08 | 1.02E-07 | 2.62E-08 | 1.15E-07 | 4.00E-08 | 1.75E-07 | 3.98E-08 | 1.74E-07 |
| Benzo(k)fluoranthene | 7.50E-08 | 3.29E-07 | 3.94E-08 | 1.72E-07 | 5.98E-08 | 2.62E-07 | 3.49E-08 | 1.53E-07 | 3.94E-08 | 1.72E-07 | 6.00E-08 | 2.63E-07 | 5.97E-08 | 2.62E-07 |
| Butane | 8.75E-02 | 3.83E-01 | 4.59E-02 | 2.01E-01 | 6.98E-02 | 3.06E-01 | 4.08E-02 | 1.79E-01 | 4.59E-02 | 2.01E-01 | 7.00E-02 | 3.07E-01 | 6.97E-02 | 3.05E-01 |
| Chrysene | 7.50E-08 | 3.29E-07 | 3.94E-08 | 1.72E-07 | 5.98E-08 | 2.62E-07 | 3.49E-08 | 1.53E-07 | 3.94E-08 | 1.72E-07 | 6.00E-08 | 2.63E-07 | 5.97E-08 | 2.62E-07 |
| Dibenzo(a,h)anthracene | 5.00E-08 | 2.19E-07 | 2.62E-08 | 1.15E-07 | 3.99E-08 | 1.75E-07 | 2.33E-08 | 1.02E-07 | 2.62E-08 | 1.15E-07 | 4.00E-08 | 1.75E-07 | 3.98E-08 | 1.74E-07 |
| Dichlorobenzene | 5.00E-05 | 2.19E-04 | 2.62E-05 | 1.15E-04 | 3.99E-05 | 1.75E-04 | 2.33E-05 | 1.02E-04 | 2.62E-05 | 1.15E-04 | 4.00E-05 | 1.75E-04 | 3.98E-05 | 1.74E-04 |
| Ethane | 1.29E-01 | 5.66E-01 | 6.78E-02 | 2.97E-01 | 1.03E-01 | 4.51E-01 | 6.02E-02 | 2.64E-01 | 6.78E-02 | 2.97E-01 | 1.03E-01 | 4.52E-01 | 1.03E-01 | 4.51E-01 |
| Fluoranthene | 1.25E-07 | 5.48E-07 | 6.56E-08 | 2.87E-07 | 9.97E-08 | 4.37E-07 | 5.82E-08 | 2.55E-07 | 6.56E-08 | 2.87E-07 | 1.00E-07 | 4.38E-07 | 9.96E-08 | 4.36E-07 |
| Fluorene | 1.17E-07 | 5.11E-07 | 6.12E-08 | 2.68E-07 | 9.31E-08 | 4.08E-07 | 5.44E-08 | 2.38E-07 | 6.12E-08 | 2.68E-07 | 9.33E-08 | 4.09E-07 | 9.29E-08 | 4.07E-07 |
| Formaldehyde | 3.13E-03 | 1.37E-02 | 1.64E-03 | 7.18E-03 | 2.49E-03 | 1.09E-02 | 1.46E-03 | 6.38E-03 | 1.64E-03 | 7.18E-03 | 2.50E-03 | 1.09E-02 | 2.49E-03 | 1.09E-02 |
| Hexane | 7.50E-02 | 3.29E-01 | 3.94E-02 | 1.72E-01 | 5.98E-02 | 2.62E-01 | 3.49E-02 | 1.53E-01 | 3.94E-02 | 1.72E-01 | 6.00E-02 | 2.63E-01 | 5.97E-02 | 2.62E-01 |
| Indeno(1,2,3-cd)pyrene | 7.50E-08 | 3.29E-07 | 3.94E-08 | 1.72E-07 | 5.98E-08 | 2.62E-07 | 3.49E-08 | 1.53E-07 | 3.94E-08 | 1.72E-07 | 6.00E-08 | 2.63E-07 | 5.97E-08 | 2.62E-07 |
| Naphthalene | 2.54E-05 | 1.11E-04 | 1.33E-05 | 5.84E-05 | 2.03E-05 | 8.88E-05 | 1.18E-05 | 5.19E-05 | 1.33E-05 | 5.84E-05 | 2.03E-05 | 8.90E-05 | 2.02E-05 | 8.87E-05 |
| Pentane | 1.08E-01 | 4.75E-01 | 5.68E-02 | 2.49E-01 | 8.64E-02 | 3.78E-01 | 5.05E-02 | 2.21E-01 | 5.68E-02 | 2.49E-01 | 8.66E-02 | 3.79E-01 | 8.63E-02 | 3.78E-01 |
| Phenanathrene | 7.08E-07 | 3.10E-06 | 3.72E-07 | 1.63E-06 | 5.65E-07 | 2.47E-06 | 3.30E-07 | 1.45E-06 | 3.72E-07 | 1.63E-06 | 5.67E-07 | 2.48E-06 | 5.64E-07 | 2.47E-06 |
| Propane | 6.67E-02 | 2.92E-01 | 3.50E-02 | 1.53E-01 | 5.32E-02 | 2.33E-01 | 3.11E-02 | 1.36E-01 | 3.50E-02 | 1.53E-01 | 5.33E-02 | 2.34E-01 | 5.31E-02 | 2.33E-01 |
| Pyrene | 2.08E-07 | 9.13E-07 | 1.09E-07 | 4.79E-07 | 1.66E-07 | 7.28E-07 | 9.71E-08 | 4.25E-07 | 1.09E-07 | 4.79E-07 | 1.67E-07 | 7.30E-07 | 1.66E-07 | 7.27E-07 |
| Toluene | 1.42E-04 | 6.21E-04 | 7.43E-05 | 3.26E-04 | 1.13E-04 | 4.95E-04 | 6.60E-05 | 2.89E-04 | 7.43E-05 | 3.26E-04 | 1.13E-04 | 4.96E-04 | 1.13E-04 | 4.94E-04 |
| **Total HAPs (lb/hr):** | 7.87E-02 | 3.45E-01 | 4.13E-02 | 1.81E-01 | 6.27E-02 | 2.75E-01 | 3.66E-02 | 1.61E-01 | 4.13E-02 | 1.81E-01 | 6.29E-02 | 2.76E-01 | 6.27E-02 | 2.74E-01 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Heaters and Reboilers (<50 MMBtu/hr)

Units: RH1-H-23-704, RHA-H-4901, RH3-H-781, RA2-H-20001

Fuel Heat Value: 1044 BTU/scf

Operating Hours: 8,760 hours/yr

**Emission Factors for Metals From Natural Gas Combustion**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf)[1] | Adjusted EF (lb/MMscf)[2] |
|---|---|---|---|---|---|
| Arsenic | 7440-38-2 | Y | N | 0.0002 | 0.0002046 |
| Barium | 7440-39-3 | N | Y | 0.0044 | 0.0045014 |
| Beryllium | 7440-41-7 | Y | N | 0.000012 | 1.228E-05 |
| Cadmium | 7440-43-9 | Y | Y | 0.0011 | 0.0011253 |
| Chromium | 7440-47-3 | Y | Y | 0.0014 | 0.0014323 |
| Cobalt | 7440-48-4 | Y | Y | 0.000084 | 8.594E-05 |
| Copper | 7440-50-8 | N | Y | 0.00085 | 0.0008696 |
| Manganese | 7439-96-5 | Y | Y | 0.00038 | 0.0003888 |
| Mercury | 7439-97-6 | Y | N | 0.00026 | 0.000266 |
| Molybdenum | 7439-98-7 | N | Y | 0.0011 | 0.0011253 |
| Nickel | 7440-02-0 | Y | Y | 0.0021 | 0.0021484 |
| Selenium | 7782-49-2 | Y | Y | 0.000024 | 2.455E-05 |
| Vanadium | 7440-62-2 | N | Y | 0.0023 | 0.002353 |
| Zinc | 7440-66-6 | N | Y | 0.029 | 0.0296681 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Heaters and Reboilers (<50 MMBtu/hr)

Units: RH1-H-23-704, RHA-H-4901, RH3-H-781, RA2-H-20001

Fuel Heat Value: 1044 BTU/scf

Operating Hours: 8,760 hours/yr

**Emission Factors for Speciated Organic Compounds from Natural Gas Combustion**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf)[1] | Adjusted EF (lb/MMscf)[2] |
|---|---|---|---|---|---|
| 2-Methylnapthalene | 91-57-6 | Y | N | 0.000024 | 0.0000246 |
| 3-Methylcholanthrene | 56-49-5 | Y | N | 0.0000018 | 0.0000018 |
| 7,12-Dimethylbenz(a)anthracene | N/A | Y | N | 0.000016 | 0.0000164 |
| Acenaphthene | 83-32-9 | Y | N | 0.0000018 | 0.0000018 |
| Acenaphthylene | 203-96-8 | Y | N | 0.0000018 | 0.0000018 |
| Anthracene | 120-12-7 | Y | N | 0.0000024 | 0.0000025 |
| Benz(a)anthracene | 56-55-3 | Y | N | 0.0000018 | 0.0000018 |
| Benzene | 71-43-2 | Y | N | 0.0021 | 0.0021484 |
| Benzo(a)pyrene | 50-32-8 | Y | N | 0.0000012 | 0.0000012 |
| Benzo(b)fluoranthene | 205-99-2 | Y | N | 0.0000018 | 0.0000018 |
| Benzo(g,h,i)perylene | 191-24-2 | Y | N | 0.0000012 | 0.0000012 |
| Benzo(k)fluoranthene | 207-08-9 | Y | N | 0.0000018 | 0.0000018 |
| Butane | 106-97-8 | N | N | 2.1 | 2.1483824 |
| Chrysene | 218-01-9 | Y | N | 0.0000018 | 0.0000018 |
| Dibenzo(a,h)anthracene | 53-70-3 | Y | N | 0.0000012 | 0.0000012 |
| Dichlorobenzene | 25321-22-6 | Y | N | 0.0012 | 0.0012276 |
| Ethane | 74-84-0 | N | N | 3.1 | 3.1714216 |
| Fluoranthene | 206-44-0 | Y | N | 0.000003 | 0.0000031 |
| Fluorene | 86-73-7 | Y | N | 0.0000028 | 0.0000029 |
| Formaldehyde | 50-00-0 | Y | N | 0.075 | 0.0767279 |
| Hexane | 110-54-3 | Y | N | 1.8 | 1.8414706 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | Y | N | 0.0000018 | 0.0000018 |
| Naphthalene | 81-20-3 | Y | N | 0.00061 | 0.0006241 |
| Pentane | 109-66-0 | N | N | 2.6 | 2.6599020 |
| Phenanathrene | 85-01-8 | Y | N | 0.000017 | 0.0000174 |
| Propane | 74-98-6 | N | N | 1.6 | 1.6368627 |
| Pyrene | 129-00-0 | Y | N | 0.000005 | 0.0000051 |
| Toluene | 108-88-3 | Y | N | 0.0034 | 0.0034783 |

[1] Emission Factors from AP-42 Tables 1.4-3 & 1.4-4

[2] Adjusted EF, per footnote a in Tables 1.4-3 and 1.4-4

TARGA *ed Hills Gas Processing Plant*

# IDS IN-LINE HEATER

| | | |
|---|---|---|
| Unit: | RH4-H-41100 | |
| Heat Input: | 13.16 | MMBTU/hr |
| Fuel Heat Value: | 1044 | BTU/scf |
| Operating Hours: | 8,760 | hours/yr |
| Fuel Usage: | 12611.40 | scf/hr |
| Fuel Usage: | 0.013 | MMscf/hr |

| Criteria Pollutant Emission Rates per Unit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | $NO_x$ | CO | VOC | $SO_2$[1] | $H_2S$[1] | $PM^2$ | Units | Notes |
| Emission Factors | 0.067 | 0.037 | 0.0054 | - | - | 0.0044 | lb/MMBTU | Manufacturer Specifications, BACT |
| | - | - | - | - | 0.25 | - | gr/100 scf | Fuel $H_2S$ Content |
| Emissions | 0.88 | 0.49 | 0.071 | 9.01E-03 | 1.80E-04 | 0.058 | lb/hr[3] | lb/ MMscf * hourly fuel usage |
| | 3.86 | 2.13 | 0.31 | 0.039 | 7.89E-04 | 0.25 | tons/year[4] | lb/ MMscf * annual fuel usage / 2000 lb/ton |

| HAP Emission Rates per Unit | | | |
|---|---|---|---|
| | Total HAPs[5] | Units | Notes |
| Emission Factors | 1.89 | lb/MMscf | AP-42 Table 1.4-3 |
| | 1.93 | lb/MMscf | Adjusted EF, per footnote a in Table 1.4-3 |
| Emissions | 0.024 | lb/hr[3] | lb/ MMscf * hourly natural gas usage |
| | 0.10 | tons/year[4] | lb/ MMscf * annual natural gas usage |

[1] $SO_2$ emissions based on fuel $H_2S$ (gr/100 scf). 100% conversion of $H_2S$ to $SO_2$ is assumed.
$SO_2$ and $H_2S$ lb/hr emissions are calculated using the following methods:
$SO_2$ (lb/hr) = $H_2S$ content (gr $H_2S$ / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32)
$H_2S$ (lb/hr) = $H_2S$ content (gr H2S / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32) * (1 - DRE %)

[2] Assumes $PM_{10}$ = $PM_{2.5}$

[3] lb/hr emissions calculated using the following methods:
Criteria and HAPs lb/hr = EF (lb/MMscf) * Rating (MMBtu/hr) / Heat value (Btu/scf)

[4] For all pollutant calculations, tons/year = lb/hr * Operating hours * 1ton/2000lb

[5] Total HAP emissions are the sum of all individual HAPs calculated.

| Greenhouse Emissions | | | | | | |
|---|---|---|---|---|---|---|
| | $CO_2$ | $CH_4$ | $N_2O$ | $CO_{2e}$ | Units | Notes |
| Emission Factors | 1 | 28 | 265 | - | - | GWP |
| | 53.06 | 1.00E-03 | 1.00E-04 | - | kg/MMBtu | 40 CFR 98 Subpart C, Table C-1 & C-2 |
| Emissions | 1,539.42 | 0.029 | 2.901E-03 | 1,541.00 | lb/hr | GHG (lb/hr) = EF (kg/MMBtu) * (2.20 lb/kg) * Heat Input (MMBtu/hr) |
| | 6,742.66 | 0.13 | 0.013 | 6,749.59 | tpy | GHG (tpy) = GHG (lb/hr) * Operating Hours (hr/yr) / (2000 lb/ton) |

TARGA *ed Hills Gas Processing Plant*

# IDS IN-LINE HEATER

**Emission Factors for Metals From Natural Gas Combustion**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf)[1] | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|---|---|---|---|
| Arsenic | 7440-38-2 | Y | N | 0.0002 | 2.52E-06 | 1.10E-05 |
| Barium | 7440-39-3 | N | Y | 0.0044 | 5.55E-05 | 2.43E-04 |
| Beryllium | 7440-41-7 | Y | N | 0.000012 | 1.51E-07 | 6.63E-07 |
| Cadmium | 7440-43-9 | Y | Y | 0.0011 | 1.39E-05 | 6.08E-05 |
| Chromium | 7440-47-3 | Y | Y | 0.0014 | 1.77E-05 | 7.73E-05 |
| Cobalt | 7440-48-4 | Y | Y | 0.000084 | 1.06E-06 | 4.64E-06 |
| Copper | 7440-50-8 | N | Y | 0.00085 | 1.07E-05 | 4.70E-05 |
| Manganese | 7439-96-5 | Y | Y | 0.00038 | 4.79E-06 | 2.10E-05 |
| Mercury | 7439-97-6 | Y | N | 0.00026 | 3.28E-06 | 1.44E-05 |
| Molybdenum | 7439-98-7 | N | Y | 0.0011 | 1.39E-05 | 6.08E-05 |
| Nickel | 7440-02-0 | Y | Y | 0.0021 | 2.65E-05 | 1.16E-04 |
| Selenium | 7782-49-2 | Y | Y | 0.000024 | 3.03E-07 | 1.33E-06 |
| Vanadium | 7440-62-2 | N | Y | 0.0023 | 2.90E-05 | 1.27E-04 |
| Zinc | 7440-66-6 | N | Y | 0.029 | 3.66E-04 | 1.60E-03 |

**Emission Factors for Speciated Organic Compounds from Natural Gas Combustion**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf)[1] | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|---|---|---|---|
| 2-Methylnapthalene | 91-57-6 | Y | N | 0.000024 | 3.03E-07 | 1.33E-06 |
| 3-Methylcholanthrene | 56-49-5 | Y | N | 0.0000018 | 2.27E-08 | 9.94E-08 |
| 7,12-Dimethylbenz(a)anthracene | N/A | Y | N | 0.000016 | 2.02E-07 | 8.84E-07 |
| Acenaphthene | 83-32-9 | Y | N | 0.0000018 | 2.27E-08 | 9.94E-08 |
| Acenaphthylene | 203-96-8 | Y | N | 0.0000018 | 2.27E-08 | 9.94E-08 |
| Anthracene | 120-12-7 | Y | N | 0.0000024 | 3.03E-08 | 1.33E-07 |
| Benz(a)anthracene | 56-55-3 | Y | N | 0.0000018 | 2.27E-08 | 9.94E-08 |
| Benzene | 71-43-2 | Y | N | 0.0021 | 2.65E-05 | 1.16E-04 |
| Benzo(a)pyrene | 50-32-8 | Y | N | 0.0000012 | 1.51E-08 | 6.63E-08 |
| Benzo(b)fluoranthene | 205-99-2 | Y | N | 0.0000018 | 2.27E-08 | 9.94E-08 |
| Benzo(g,h,i)perylene | 191-24-2 | Y | N | 0.0000012 | 1.51E-08 | 6.63E-08 |
| Benzo(k)fluoranthene | 207-08-9 | Y | N | 0.0000018 | 2.27E-08 | 9.94E-08 |
| Butane | 106-97-8 | N | N | 2.1 | 2.65E-02 | 1.16E-01 |
| Chrysene | 218-01-9 | Y | N | 0.0000018 | 2.27E-08 | 9.94E-08 |
| Dibenzo(a,h)anthracene | 53-70-3 | Y | N | 0.0000012 | 1.51E-08 | 6.63E-08 |
| Dichlorobenzene | 25321-22-6 | Y | N | 0.0012 | 1.51E-05 | 6.63E-05 |
| Ethane | 74-84-0 | N | N | 3.1 | 3.91E-02 | 1.71E-01 |
| Fluoranthene | 206-44-0 | Y | N | 0.000003 | 3.78E-08 | 1.66E-07 |
| Fluorene | 86-73-7 | Y | N | 0.0000028 | 3.53E-08 | 1.55E-07 |
| Formaldehyde | 50-00-0 | Y | N | 0.075 | 9.46E-04 | 4.14E-03 |
| Hexane | 110-54-3 | Y | N | 1.8 | 2.27E-02 | 9.94E-02 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | Y | N | 0.0000018 | 2.27E-08 | 9.94E-08 |
| Naphthalene | 81-20-3 | Y | N | 0.00061 | 7.69E-06 | 3.37E-05 |
| Pentane | 109-66-0 | N | N | 2.6 | 3.28E-02 | 1.44E-01 |
| Phenanathrene | 85-01-8 | Y | N | 0.000017 | 2.14E-07 | 9.39E-07 |
| Propane | 74-98-6 | N | N | 1.6 | 2.02E-02 | 8.84E-02 |
| Pyrene | 129-00-0 | Y | N | 0.000005 | 6.31E-08 | 2.76E-07 |
| Toluene | 108-88-3 | Y | N | 0.0034 | 4.29E-05 | 1.88E-04 |
| | | | | **Total HAPs:** | 2.38E-02 | 1.04E-01 |

[1] Emission Factors from AP-42 Tables 1.4-3 & 1.4-4

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RH2, H-781, CRYO HOT OIL HEATER

| | | |
|---|---|---|
| Unit: | RH2-H-781 | |
| Heat Input: | 13.20 | MMBTU/hr |
| Fuel Heat Value: | 1044 | BTU/scf |
| Operating Hours: | 8,760 | hours/yr |
| Fuel Usage: | 12649.74 | scf/hr |
| Fuel Usage: | 0.013 | MMscf/hr |

| Criteria Pollutant Emission Rates per Unit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | $NO_x$ | CO | VOC | $SO_2$[1] | $H_2S$[1] | PM[2] | Units | Notes |
| Emission Factors | 30 | - | - | - | - | - | ppmv @ 3% $O_2$ | Ozone Precursor requirement, BACT |
| | 46 | - | - | - | - | - | lb/lb-mol | molecular weight |
| | - | 0.037 | 0.0054 | - | - | 0.007 | lb/MMBTU | Manufacturer Specification, BACT |
| | - | - | - | - | 0.25 | - | gr/100 scf | Fuel $H_2S$ Content |
| Emissions | 0.23 | 0.49 | 0.07 | 9.04E-03 | 1.81E-04 | 0.09 | lb/hr[3] | lb/ MMscf * hourly fuel usage |
| | 1.03 | 2.14 | 0.31 | 0.040 | 7.92E-04 | 0.40 | tons/year[4] | lb/ MMscf * annual fuel usage / 2000 lb/ton |

| HAP Emission Rates per Unit | | | |
|---|---|---|---|
| | Total HAPs[5] | Units | Notes |
| Emission Factors | 1.89 | lb/MMscf | AP-42 Table 1.4-3 |
| | 1.93 | lb/MMscf | Adjusted EF, per footnote a in Table 1.4-3 |
| Emissions | 0.024 | lb/hr[3] | lb/ MMscf * hourly natural gas usage |
| | 0.11 | tons/year[4] | lb/ MMscf * annual natural gas usage |

[1] $SO_2$ emissions based on fuel $H_2S$ (gr/100 scf). 100% conversion of $H_2S$ to $SO_2$ is assumed.
$SO_2$ and $H_2S$ lb/hr emissions are calculated using the following methods:
$SO_2$ (lb/hr) = $H_2S$ content (gr $H_2S$ / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32)
$H_2S$ (lb/hr) = $H_2S$ content (gr H2S / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32) * (1 - DRE %)

[2] Assumes $PM_{10}$ = $PM_{2.5}$

[3] lb/hr emissions calculated using the following methods:
Criteria and HAPs lb/hr = EF (lb/MMscf) * Rating (MMBtu/hr) / Heat value (Btu/scf)

[4] For all pollutant calculations, tons/year = lb/hr * Operating hours * 1ton/2000lb

[5] Total HAP emissions are the sum of all individual HAPs calculated.

[6] PV= nRT = n = PV/RT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| P= | 1.00 | ATM | | | | | |
| Gas Constant, | 1.31 | (atm*ft3)/(lb-mole*K) | | | | | |
| T= | 110.00 | °F = | 328.889 | °C = | 602.0389 | K | |

| Greenhouse Emissions | | | | | | |
|---|---|---|---|---|---|---|
| | $CO_2$ | $CH_4$ | $N_2O$ | $CO_{2e}$ | Units | Notes |
| Emission Factors | 1 | 28 | 265 | - | - | GWP |
| | 53.06 | 1.00E-03 | 1.00E-04 | - | kg/MMBtu | 40 CFR 98 Subpart C, Table C-1 & C-2 |
| Emissions | 1,544.10 | 0.029 | 2.910E-03 | 1,545.69 | lb/hr | GHG (lb/hr) = EF (kg/MMBtu) * (2.20 lb/kg) * Heat Input (MMBtu/hr) |
| | 6,763.16 | 0.13 | 0.013 | 6,770.10 | tpy | GHG (tpy) = GHG (lb/hr) * Operating Hours (hr/yr) / (2000 lb/ton) |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RH2, H-781, CRYO HOT OIL HEATER

**Emission Factors for Metals From Natural Gas Combustion**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf)[1] | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|---|---|---|---|
| Arsenic | 7440-38-2 | Y | N | 0.0002 | 2.53E-06 | 1.11E-05 |
| Barium | 7440-39-3 | N | Y | 0.0044 | 5.57E-05 | 2.44E-04 |
| Beryllium | 7440-41-7 | Y | N | 0.000012 | 1.52E-07 | 6.65E-07 |
| Cadmium | 7440-43-9 | Y | Y | 0.0011 | 1.39E-05 | 6.09E-05 |
| Chromium | 7440-47-3 | Y | Y | 0.0014 | 1.77E-05 | 7.76E-05 |
| Cobalt | 7440-48-4 | Y | Y | 0.000084 | 1.06E-06 | 4.65E-06 |
| Copper | 7440-50-8 | N | Y | 0.00085 | 1.08E-05 | 4.71E-05 |
| Manganese | 7439-96-5 | Y | Y | 0.00038 | 4.81E-06 | 2.11E-05 |
| Mercury | 7439-97-6 | Y | N | 0.00026 | 3.29E-06 | 1.44E-05 |
| Molybdenum | 7439-98-7 | N | Y | 0.0011 | 1.39E-05 | 6.09E-05 |
| Nickel | 7440-02-0 | Y | Y | 0.0021 | 2.66E-05 | 1.16E-04 |
| Selenium | 7782-49-2 | Y | Y | 0.000024 | 3.04E-07 | 1.33E-06 |
| Vanadium | 7440-62-2 | N | Y | 0.0023 | 2.91E-05 | 1.27E-04 |
| Zinc | 7440-66-6 | N | Y | 0.029 | 3.67E-04 | 1.61E-03 |

**Emission Factors for Speciated Organic Compounds from Natural Gas Combustion**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf)[1] | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|---|---|---|---|
| 2-Methylnapthalene | 91-57-6 | Y | N | 0.000024 | 3.04E-07 | 1.33E-06 |
| 3-Methylcholanthrene | 56-49-5 | Y | N | 0.0000018 | 2.28E-08 | 9.97E-08 |
| 7,12-Dimethylbenz(a)anthracene | N/A | Y | N | 0.000016 | 2.02E-07 | 8.86E-07 |
| Acenaphthene | 83-32-9 | Y | N | 0.0000018 | 2.28E-08 | 9.97E-08 |
| Acenaphthylene | 203-96-8 | Y | N | 0.0000018 | 2.28E-08 | 9.97E-08 |
| Anthracene | 120-12-7 | Y | N | 0.0000024 | 3.04E-08 | 1.33E-07 |
| Benz(a)anthracene | 56-55-3 | Y | N | 0.0000018 | 2.28E-08 | 9.97E-08 |
| Benzene | 71-43-2 | Y | N | 0.0021 | 2.66E-05 | 1.16E-04 |
| Benzo(a)pyrene | 50-32-8 | Y | N | 0.0000012 | 1.52E-08 | 6.65E-08 |
| Benzo(b)fluoranthene | 205-99-2 | Y | N | 0.0000018 | 2.28E-08 | 9.97E-08 |
| Benzo(g,h,i)perylene | 191-24-2 | Y | N | 0.0000012 | 1.52E-08 | 6.65E-08 |
| Benzo(k)fluoranthene | 207-08-9 | Y | N | 0.0000018 | 2.28E-08 | 9.97E-08 |
| Butane | 106-97-8 | N | N | 2.1 | 2.66E-02 | 1.16E-01 |
| Chrysene | 218-01-9 | Y | N | 0.0000018 | 2.28E-08 | 9.97E-08 |
| Dibenzo(a,h)anthracene | 53-70-3 | Y | N | 0.0000012 | 1.52E-08 | 6.65E-08 |
| Dichlorobenzene | 25321-22-6 | Y | N | 0.0012 | 1.52E-05 | 6.65E-05 |
| Ethane | 74-84-0 | N | N | 3.1 | 3.92E-02 | 1.72E-01 |
| Fluoranthene | 206-44-0 | Y | N | 0.000003 | 3.79E-08 | 1.66E-07 |
| Fluorene | 86-73-7 | Y | N | 0.0000028 | 3.54E-08 | 1.55E-07 |
| Formaldehyde | 50-00-0 | Y | N | 0.075 | 9.49E-04 | 4.16E-03 |
| Hexane | 110-54-3 | Y | N | 1.8 | 2.28E-02 | 9.97E-02 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | Y | N | 0.0000018 | 2.28E-08 | 9.97E-08 |
| Naphthalene | 81-20-3 | Y | N | 0.00061 | 7.72E-06 | 3.38E-05 |
| Pentane | 109-66-0 | N | N | 2.6 | 3.29E-02 | 1.44E-01 |
| Phenanathrene | 85-01-8 | Y | N | 0.000017 | 2.15E-07 | 9.42E-07 |
| Propane | 74-98-6 | N | N | 1.6 | 2.02E-02 | 8.86E-02 |
| Pyrene | 129-00-0 | Y | N | 0.000005 | 6.32E-08 | 2.77E-07 |
| Toluene | 108-88-3 | Y | N | 0.0034 | 4.30E-05 | 1.88E-04 |
| | | | | **Total HAPs:** | 0.024 | 0.105 |

[1] Emission Factors from AP-42 Tables 1.4-3 & 1.4-4

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RH2, H-0901, AMINE HOT OIL HEATER

| | | |
|---|---|---|
| Unit: | RH2-H-0901 | |
| Heat Input: | 75.00 | MMBTU/hr |
| Fuel Heat Value: | 1044 | BTU/scf |
| Operating Hours: | 8,760 | hours/yr |
| Fuel Usage: | 71873.50 | scf/hr |
| Fuel Usage: | 0.072 | MMscf/hr |

**Criteria Pollutant Emission Rates per Unit**

| | $NO_x$[6] | CO[6] | VOC | $SO_2$[1] | $H_2S$[1] | PM[2] | Units | Notes |
|---|---|---|---|---|---|---|---|---|
| Emission Factors | 30 | 100 | - | - | - | - | ppmv @ 3% $O_2$ | Manufacturer guarantee |
| | 46 | 28 | - | - | - | - | lb/lb-mol | molecular weight |
| | - | - | 0.0054 | - | - | 0.0044 | lb/MMBtu | BACT |
| | - | - | - | - | 0.25 | - | gr / 100 scf | Fuel $H_2S$ Content |
| Emissions | 1.33 | 2.70 | 0.41 | 0.051 | 1.03E-03 | 0.33 | lb/hr[3] | lb/ MMscf * hourly fuel usage |
| | 5.83 | 11.82 | 1.77 | 0.22 | 4.50E-03 | 1.45 | tons/year[4] | lb/ MMscf * annual fuel usage / 2000 lb/ton |

**HAP Emission Rates per Unit**

| | Total HAPs[5] | Units | Notes |
|---|---|---|---|
| Emission Factors | 1.89 | lb/MMscf | AP-42 Table 1.4-3 |
| | 1.93 | lb/MMscf | Adjusted EF, per footnote a in Table 1.4-3 |
| Emissions | 0.14 | lb/hr[3] | lb/ MMscf * hourly natural gas usage |
| | 0.61 | tons/year[4] | lb/ MMscf * annual natural gas usage |

[1] $SO_2$ emissions based on fuel $H_2S$ (gr/100 scf). 100% conversion of $H_2S$ to $SO_2$ is assumed.
$SO_2$ and $H_2S$ lb/hr emissions are calculated using the following methods:
$SO_2$ (lb/hr) = $H_2S$ content (gr $H_2S$ / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32)
$H_2S$ (lb/hr) = $H_2S$ content (gr H2S / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32) * (1 - DRE %)

[2] Assumes $PM_{10}$ = $PM_{2.5}$

[3] lb/hr emissions calculated using the following methods:
Criteria and HAPs lb/hr = EF (lb/MMscf) * Rating (MMBtu/hr) / Heat value (Btu/scf)

[4] For all pollutant calculations, tons/year = lb/hr * Operating hours * 1ton/2000lb

[5] Total HAP emissions are the sum of all individual HAPs calculated.

[6] PV= nRT = n = PV/RT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| P= | 1.00 | ATM | | | | | |
| Gas Constant, | 1.31 | (atm*ft3)/(lb-mole*K) | | | | | |
| T= | 624.00 | °F = | 328.889 | °C = | 602.0389 | K | |

**Greenhouse Emissions**

| | $CO_2$ | $CH_4$ | $N_2O$ | $CO_{2e}$ | Units | Notes |
|---|---|---|---|---|---|---|
| Emission Factors | 1 | 28 | 265 | - | - | GWP |
| | 53.06 | 1.00E-03 | 1.00E-04 | - | kg/MMBtu | 40 CFR 98 Subpart C, Table C-1 & C-2 |
| Emissions | 8,773.30 | 0.17 | 0.017 | 8,782.31 | lb/hr | GHG (lb/hr) = EF (kg/MMBtu) * (2.20 lb/kg) * Heat Input (MMBtu/hr) |
| | 38,427.04 | 0.72 | 0.072 | 38,466.51 | tpy | GHG (tpy) = GHG (lb/hr) * Operating Hours (hr/yr) / (2000 lb/ton) |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## RH2, H-0901, AMINE HOT OIL HEATER

**Emission Factors for Metals From Natural Gas Combustion**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf)[1] | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|---|---|---|---|
| Arsenic | 7440-38-2 | Y | N | 0.0002 | 1.44E-05 | 6.30E-05 |
| Barium | 7440-39-3 | N | Y | 0.0044 | 3.16E-04 | 1.39E-03 |
| Beryllium | 7440-41-7 | Y | N | 0.000012 | 8.62E-07 | 3.78E-06 |
| Cadmium | 7440-43-9 | Y | Y | 0.0011 | 7.91E-05 | 3.46E-04 |
| Chromium | 7440-47-3 | Y | Y | 0.0014 | 1.01E-04 | 4.41E-04 |
| Cobalt | 7440-48-4 | Y | Y | 0.000084 | 6.04E-06 | 2.64E-05 |
| Copper | 7440-50-8 | N | Y | 0.00085 | 6.11E-05 | 2.68E-04 |
| Manganese | 7439-96-5 | Y | Y | 0.00038 | 2.73E-05 | 1.20E-04 |
| Mercury | 7439-97-6 | Y | N | 0.00026 | 1.87E-05 | 8.18E-05 |
| Molybdenum | 7439-98-7 | N | Y | 0.0011 | 7.91E-05 | 3.46E-04 |
| Nickel | 7440-02-0 | Y | Y | 0.0021 | 1.51E-04 | 6.61E-04 |
| Selenium | 7782-49-2 | Y | Y | 0.000024 | 1.72E-06 | 7.56E-06 |
| Vanadium | 7440-62-2 | N | Y | 0.0023 | 1.65E-04 | 7.24E-04 |
| Zinc | 7440-66-6 | N | Y | 0.029 | 2.08E-03 | 9.13E-03 |

**Emission Factors for Speciated Organic Compounds from Natural Gas Combustion**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf)[1] | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|---|---|---|---|
| 2-Methylnapthalene | 91-57-6 | Y | N | 0.000024 | 1.72E-06 | 7.56E-06 |
| 3-Methylcholanthrene | 56-49-5 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| 7,12-Dimethylbenz(a)anthracene | N/A | Y | N | 0.000016 | 1.15E-06 | 5.04E-06 |
| Acenaphthene | 83-32-9 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| Acenaphthylene | 203-96-8 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| Anthracene | 120-12-7 | Y | N | 0.0000024 | 1.72E-07 | 7.56E-07 |
| Benz(a)anthracene | 56-55-3 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| Benzene | 71-43-2 | Y | N | 0.0021 | 1.51E-04 | 6.61E-04 |
| Benzo(a)pyrene | 50-32-8 | Y | N | 0.0000012 | 8.62E-08 | 3.78E-07 |
| Benzo(b)fluoranthene | 205-99-2 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| Benzo(g,h,i)perylene | 191-24-2 | Y | N | 0.0000012 | 8.62E-08 | 3.78E-07 |
| Benzo(k)fluoranthene | 207-08-9 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| Butane | 106-97-8 | N | N | 2.1 | 1.51E-01 | 6.61E-01 |
| Chrysene | 218-01-9 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| Dibenzo(a,h)anthracene | 53-70-3 | Y | N | 0.0000012 | 8.62E-08 | 3.78E-07 |
| Dichlorobenzene | 25321-22-6 | Y | N | 0.0012 | 8.62E-05 | 3.78E-04 |
| Ethane | 74-84-0 | N | N | 3.1 | 2.23E-01 | 9.76E-01 |
| Fluoranthene | 206-44-0 | Y | N | 0.000003 | 2.16E-07 | 9.44E-07 |
| Fluorene | 86-73-7 | Y | N | 0.0000028 | 2.01E-07 | 8.81E-07 |
| Formaldehyde | 50-00-0 | Y | N | 0.075 | 5.39E-03 | 2.36E-02 |
| Hexane | 110-54-3 | Y | N | 1.8 | 1.29E-01 | 5.67E-01 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| Naphthalene | 81-20-3 | Y | N | 0.00061 | 4.38E-05 | 1.92E-04 |
| Pentane | 109-66-0 | N | N | 2.6 | 1.87E-01 | 8.18E-01 |
| Phenanathrene | 85-01-8 | Y | N | 0.000017 | 1.22E-06 | 5.35E-06 |
| Propane | 74-98-6 | N | N | 1.6 | 1.15E-01 | 5.04E-01 |
| Pyrene | 129-00-0 | Y | N | 0.000005 | 3.59E-07 | 1.57E-06 |
| Toluene | 108-88-3 | Y | N | 0.0034 | 2.44E-04 | 1.07E-03 |
| | | | | **Total Haps (lb/hr)** | 1.36E-01 | 5.94E-01 |

[1] Emission Factors from AP-42 Tables 1.4-3 & 1.4-4

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RH2, H-1001, AMINE HOT OIL HEATER

| | | |
|---|---|---|
| Unit: | RH2-H-1001 | |
| Heat Input: | 75.00 | MMBTU/hr |
| Fuel Heat Value: | 1044 | BTU/scf |
| Operating Hours: | 8,760 | hours/yr |
| Fuel Usage: | 71873.50 | scf/hr |
| Fuel Usage: | 0.072 | MMscf/hr |

**Criteria Pollutant Emission Rates per Unit**

| | $NO_x$[6] | CO[6] | VOC | $SO_2$[1] | $H_2S$[1] | PM[2] | Units | Notes |
|---|---|---|---|---|---|---|---|---|
| Emission Factors | 30 | 100 | - | - | - | - | ppmv @ 3% $O_2$ | Manufacturer guarantee |
| | 46 | 28 | - | - | - | - | lb/lb-mol | molecular weight |
| | - | - | 0.0054 | - | - | 0.0044 | lb/MMBtu | BACT |
| | - | - | - | - | 0.25 | - | gr / 100 scf | Fuel $H_2S$ Content |
| Emissions | 1.33 | 2.70 | 0.41 | 0.05 | 1.03E-03 | 0.33 | lb/hr[3] | lb/ MMscf * hourly fuel usage |
| | 5.83 | 11.82 | 1.77 | 0.22 | 4.50E-03 | 1.45 | tons/year[4] | lb/ MMscf * annual fuel usage / 2000 lb/ton |

**HAP Emission Rates per Unit**

| | Total HAPs[5] | Units | Notes |
|---|---|---|---|
| Emission Factors | 1.89 | lb/MMscf | AP-42 Table 1.4-3 |
| | 1.93 | lb/MMscf | Adjusted EF, per footnote a in Table 1.4-3 |
| Emissions | 0.14 | lb/hr[3] | lb/ MMscf * hourly natural gas usage |
| | 0.61 | tons/year[4] | lb/ MMscf * annual natural gas usage |

[1] $SO_2$ emissions based on fuel $H_2S$ (gr/100 scf). 100% conversion of $H_2S$ to $SO_2$ is assumed.
$SO_2$ and $H_2S$ lb/hr emissions are calculated using the following methods:
$SO_2$ (lb/hr) = $H_2S$ content (gr $H_2S$ / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32)
$H_2S$ (lb/hr) = $H_2S$ content (gr H2S / 100 scf) / (7000 g/lb) * Fuel Usage (scf/hr) * $SO_2$ to $H_2S$ Molar Ratio (64/32) * (1 - DRE %)

[2] Assumes $PM_{10}$ = $PM_{2.5}$

[3] lb/hr emissions calculated using the following methods:
Criteria and HAPs lb/hr = EF (lb/MMscf) * Rating (MMBtu/hr) / Heat value (Btu/scf)

[4] For all pollutant calculations, tons/year = lb/hr * Operating hours * 1ton/2000lb

[5] Total HAP emissions are the sum of all individual HAPs calculated.

[6] PV= nRT = n = PV/RT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| P= | 1.00 | ATM | | | | | |
| Gas Constant, | 1.31 | (atm*ft3)/(lb-mole*K) | | | | | |
| T= | 624.00 | °F = | 328.889 | °C = | 602.0389 | K | |

**Greenhouse Emissions**

| | $CO_2$ | $CH_4$ | $N_2O$ | $CO_{2e}$ | Units | Notes |
|---|---|---|---|---|---|---|
| Emission Factors | 1 | 28 | 265 | - | - | GWP |
| | 53.06 | 1.00E-03 | 1.00E-04 | - | kg/MMBtu | 40 CFR 98 Subpart C, Table C-1 & C-2 |
| Emissions | 8,773.30 | 0.17 | 0.017 | 8,782.31 | lb/hr | GHG (lb/hr) = EF (kg/MMBtu) * (2.20 lb/kg) * Heat Input (MMBtu/hr) |
| | 38,427.04 | 0.72 | 0.072 | 38,466.51 | tpy | GHG (tpy) = GHG (lb/hr) * Operating Hours (hr/yr) / (2000 lb/ton) |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RH2, H-1001, AMINE HOT OIL HEATER

**Emission Factors for Metals From Natural Gas Combustion**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf)[1] | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|---|---|---|---|
| Arsenic | 7440-38-2 | Y | N | 0.0002 | 1.44E-05 | 6.30E-05 |
| Barium | 7440-39-3 | N | Y | 0.0044 | 3.16E-04 | 1.39E-03 |
| Beryllium | 7440-41-7 | Y | N | 0.000012 | 8.62E-07 | 3.78E-06 |
| Cadmium | 7440-43-9 | Y | Y | 0.0011 | 7.91E-05 | 3.46E-04 |
| Chromium | 7440-47-3 | Y | Y | 0.0014 | 1.01E-04 | 4.41E-04 |
| Cobalt | 7440-48-4 | Y | Y | 0.000084 | 6.04E-06 | 2.64E-05 |
| Copper | 7440-50-8 | N | Y | 0.00085 | 6.11E-05 | 2.68E-04 |
| Manganese | 7439-96-5 | Y | Y | 0.00038 | 2.73E-05 | 1.20E-04 |
| Mercury | 7439-97-6 | Y | N | 0.00026 | 1.87E-05 | 8.18E-05 |
| Molybdenum | 7439-98-7 | N | Y | 0.0011 | 7.91E-05 | 3.46E-04 |
| Nickel | 7440-02-0 | Y | Y | 0.0021 | 1.51E-04 | 6.61E-04 |
| Selenium | 7782-49-2 | Y | Y | 0.000024 | 1.72E-06 | 7.56E-06 |
| Vanadium | 7440-62-2 | N | Y | 0.0023 | 1.65E-04 | 7.24E-04 |
| Zinc | 7440-66-6 | N | Y | 0.029 | 2.08E-03 | 9.13E-03 |

**Emission Factors for Speciated Organic Compounds from Natural Gas Combustion**

| Pollutant | CAS No. | HAP? | NM Toxic? | Emission Factor (lb/MMscf)[1] | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|---|---|---|---|
| 2-Methylnapthalene | 91-57-6 | Y | N | 0.000024 | 1.72E-06 | 7.56E-06 |
| 3-Methylcholanthrene | 56-49-5 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| 7,12-Dimethylbenz(a)anthracene | N/A | Y | N | 0.000016 | 1.15E-06 | 5.04E-06 |
| Acenaphthene | 83-32-9 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| Acenaphthylene | 203-96-8 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| Anthracene | 120-12-7 | Y | N | 0.0000024 | 1.72E-07 | 7.56E-07 |
| Benz(a)anthracene | 56-55-3 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| Benzene | 71-43-2 | Y | N | 0.0021 | 1.51E-04 | 6.61E-04 |
| Benzo(a)pyrene | 50-32-8 | Y | N | 0.0000012 | 8.62E-08 | 3.78E-07 |
| Benzo(b)fluoranthene | 205-99-2 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| Benzo(g,h,i)perylene | 191-24-2 | Y | N | 0.0000012 | 8.62E-08 | 3.78E-07 |
| Benzo(k)fluoranthene | 207-08-9 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| Butane | 106-97-8 | N | N | 2.1 | 1.51E-01 | 6.61E-01 |
| Chrysene | 218-01-9 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| Dibenzo(a,h)anthracene | 53-70-3 | Y | N | 0.0000012 | 8.62E-08 | 3.78E-07 |
| Dichlorobenzene | 25321-22-6 | Y | N | 0.0012 | 8.62E-05 | 3.78E-04 |
| Ethane | 74-84-0 | N | N | 3.1 | 2.23E-01 | 9.76E-01 |
| Fluoranthene | 206-44-0 | Y | N | 0.000003 | 2.16E-07 | 9.44E-07 |
| Fluorene | 86-73-7 | Y | N | 0.0000028 | 2.01E-07 | 8.81E-07 |
| Formaldehyde | 50-00-0 | Y | N | 0.075 | 5.39E-03 | 2.36E-02 |
| Hexane | 110-54-3 | Y | N | 1.8 | 1.29E-01 | 5.67E-01 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | Y | N | 0.0000018 | 1.29E-07 | 5.67E-07 |
| Naphthalene | 81-20-3 | Y | N | 0.00061 | 4.38E-05 | 1.92E-04 |
| Pentane | 109-66-0 | N | N | 2.6 | 1.87E-01 | 8.18E-01 |
| Phenanathrene | 85-01-8 | Y | N | 0.000017 | 1.22E-06 | 5.35E-06 |
| Propane | 74-98-6 | N | N | 1.6 | 1.15E-01 | 5.04E-01 |
| Pyrene | 129-00-0 | Y | N | 0.000005 | 3.59E-07 | 1.57E-06 |
| Toluene | 108-88-3 | Y | N | 0.0034 | 2.44E-04 | 1.07E-03 |
| | | | | **Total HAPs:** | 1.36E-01 | 5.94E-01 |

[1] Emission Factors from AP-42 Tables 1.4-3 & 1.4-4

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

**Storage Tank Emission Calculation Inputs**

**RH1, TK-20101-20106, EAST CONDENSATE STORAGE TANKS**

| Parameter | Value | Unit | Notes |
|---|---|---|---|
| Number of Tanks | 6 | units | Facility Design |
| Height | 16 | ft | Facility Design |
| Diameter | 15.5 | ft | Facility Design |
| Volume | 500 | bbl | Facility Design |
| Capture Efficiency | 100% | % | Emissions controlled by Flare |
| Control Efficiency | 98% | % | DRE |
| Controlled By | RH1-FL-2850 | - | |
| Hourly Throughput | 217.34 | bbl/hr | ProMax - MaxHourly Pstreams |
| Annual Throughput | 1,903,900.00 | bbl/yr | ProMax - Average Annual Pstreams |

**RHA, TK-6100-6200, SOUR SLOP WATER STORAGE TANKS**

| Parameter | Value | Unit | Notes |
|---|---|---|---|
| Number of Tanks | 2 | units | Facility Design |
| Volume | 500 | bbl | Facility Design |
| Height | 16 | ft | Facility Design |
| Diameter | 15.5 | ft | Facility Design |
| Capture Efficiency | 100% | % | Emissions controlled by Flare |
| Control Efficiency | 98% | % | DRE |
| Controlled By | RHA-FL-5850 | - | |
| Hourly Throughput | 5.45 | bbl/hr | ProMax - MaxHourly Pstreams |
| Annual Throughput | 47,739.24 | bbl/yr | ProMax - Average Annual Pstreams |

**RH1, TK-20107-20112, WEST CONDENSATE STORAGE TANKS**

| Parameter | Value | Unit | Notes |
|---|---|---|---|
| Number of Tanks | 6 | units | Facility Design |
| Volume | 500 | bbl | Facility Design |
| Height | 16 | ft | Facility Design |
| Diameter | 15.5 | ft | Facility Design |
| Capture Efficiency | 100% | % | Emissions controlled by Flare |
| Control Efficiency | 98% | % | DRE |
| Controlled By | RH1-FL-2850 | - | |
| Hourly Throughput | 217.34 | bbl/hr | ProMax - MaxHourly Pstreams |
| Annual Throughput | 1,903,900.00 | bbl/yr | ProMax - Average Annual Pstreams |

**RA2, TK-26100-26200, SOUR SLOP WATER STORAGE TANKS**

| Parameter | Value | Unit | Notes |
|---|---|---|---|
| Number of Tanks | 2 | units | Facility Design |
| Volume | 500 | bbl | Facility Design |
| Height | 16 | ft | Facility Design |
| Diameter | 15.5 | ft | Facility Design |
| Capture Efficiency | 100% | % | Emissions controlled by Flare |
| Control Efficiency | 98% | % | DRE |
| Controlled By | RA2-FL-25850 | - | |
| Hourly Throughput | 9.53 | bbl/hr | ProMax - MaxHourly Pstreams |
| Annual Throughput | 83,449.04 | bbl/yr | ProMax - Average Annual Pstreams |

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

**Storage Tank Emission Calculation Inputs**

**RH4, TK-46200-46230, SLOP WATER STORAGE TANKS**

| Parameter | Value | Unit | Notes |
|---|---|---|---|
| Number of Tanks | 4 | units | Facility Design |
| Volume | 400 | bbl | Facility Design |
| Height | 20 | ft | Facility Design |
| Diameter | 12 | ft | Facility Design |
| Capture Efficiency | 0% | % | Uncontrolled |
| Control Efficiency | 0% | % | DRE |
| Controlled By | - | - | |
| Hourly Throughput | 16.31 | bbl/hr | ProMax - MaxHourly Pstreams |
| Annual Throughput | 142,837.71 | bbl/yr | ProMax - Average Annual Pstreams |

**RH2, TK-6200, SLOP WATER STORAGE TANK**

| Parameter | Value | Unit | Notes |
|---|---|---|---|
| Number of Tanks | 1 | units | Facility Design |
| Volume | 400 | bbl | Facility Design |
| Height | 20 | ft | Facility Design |
| Diameter | 12 | ft | Facility Design |
| Capture Efficiency | 0% | % | Uncontrolled |
| Control Efficiency | 0% | % | DRE |
| Controlled By | - | - | |
| Hourly Throughput | 10.87 | bbl/hr | ProMax - MaxHourly Pstreams |
| Annual Throughput | 95,230.91 | bbl/yr | ProMax - Average Annual Pstreams |

**RH1, TK-33-001-33-002, SLOP WATER STORAGE TANKS**

| Parameter | Value | Unit | Notes |
|---|---|---|---|
| Number of Tanks | 2 | units | Facility Design |
| Volume | 500 | bbl | Facility Design |
| Height | 16 | ft | Facility Design |
| Diameter | 15.5 | ft | Facility Design |
| Capture Efficiency | 0% | % | Uncontrolled |
| Control Efficiency | 0% | % | DRE |
| Controlled By | - | - | |
| Hourly Throughput | 10.87 | bbl/hr | ProMax - MaxHourly Pstreams |
| Annual Throughput | 95,224.75 | bbl/yr | ProMax - Average Annual Pstreams |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RH1, TK-20101-20106, EAST CONDENSATE STORAGE TANKS

| | | |
|---|---|---|
| Unit: | RH1-TK-COND-EAST | |
| Source Description: | RH1, TK-20101-20106, EAST CONDENSATE STORAGE TANKS | |
| Annual Operating Hours: | 8760 | hrs/yr |
| Control Device ID: | RH1-FL-2850 | |
| Capture Efficiency: | 100% | |
| Control Efficiency: | 98% | |
| Number of Tanks: | 6 | |
| Capacity of Tanks: | 500 | bbl |
| Hourly Throughput: | 217.34 | bbl/hr |
| Annual Throughput: | 1,903,900.00 | bbl/yr |
| Annual Turnovers per Tank: | 635 | |

## RH 1 East Condensate Storage Tank Emissions[1,2]

| Component | Uncontrolled Emissions | | | |
|---|---|---|---|---|
| | Combined Flash for All Tanks (lb/hr) | Combined Working and Breathing for All Tanks (lb/hr) | Total Emissions per Tank (lb/hr) | Total Emissions Per Tank (tpy) |
| Nitrogen | 0.00E+00 | 1.40E-01 | 2.34E-02 | 1.02E-01 |
| Methane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Carbon Dioxide | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Ethane | 0.00E+00 | 2.31E-02 | 3.85E-03 | 1.69E-02 |
| Propane | 0.00E+00 | 1.69E-01 | 2.81E-02 | 1.23E-01 |
| Isobutane | 0.00E+00 | 6.95E-02 | 1.16E-02 | 5.07E-02 |
| n-Butane | 0.00E+00 | 3.18E-01 | 5.30E-02 | 2.32E-01 |
| Isopentane | 0.00E+00 | 6.32E-01 | 1.05E-01 | 4.62E-01 |
| n-Pentane | 0.00E+00 | 8.28E-01 | 1.38E-01 | 6.05E-01 |
| i-Hexane | 0.00E+00 | 5.39E-01 | 8.98E-02 | 3.94E-01 |
| n-Hexane | 0.00E+00 | 2.99E-01 | 4.98E-02 | 2.18E-01 |
| Benzene | 0.00E+00 | 3.30E-02 | 5.50E-03 | 2.41E-02 |
| Cyclohexane | 0.00E+00 | 1.11E-01 | 1.86E-02 | 8.13E-02 |
| i-Heptane | 0.00E+00 | 2.07E-01 | 3.46E-02 | 1.51E-01 |
| n-Heptane | 0.00E+00 | 5.01E-02 | 8.34E-03 | 3.65E-02 |
| Toluene | 0.00E+00 | 1.77E-02 | 2.96E-03 | 1.29E-02 |
| i-Octane | 0.00E+00 | 1.58E-01 | 2.64E-02 | 1.15E-01 |
| n-Octane | 0.00E+00 | 4.26E-03 | 7.10E-04 | 3.11E-03 |
| Ethylbenzene | 0.00E+00 | 7.78E-04 | 1.30E-04 | 5.68E-04 |
| m-Xylene | 0.00E+00 | 2.54E-03 | 4.23E-04 | 1.85E-03 |
| Isononane | 0.00E+00 | 4.55E-03 | 7.59E-04 | 3.32E-03 |
| n-Nonane | 0.00E+00 | 5.92E-04 | 9.86E-05 | 4.32E-04 |
| Decane | 0.00E+00 | 1.63E-04 | 2.72E-05 | 1.19E-04 |
| C10+ | 0.00E+00 | 2.34E-04 | 3.90E-05 | 1.71E-04 |
| **VOC** | **0.00** | **3.45** | **0.57** | **2.52** |
| **Total HAPS** | **0.00** | **0.35** | **0.059** | **0.26** |
| **$H_2S$** | **-** | **-** | **-** | **-** |

[1] Emissions from the condensate tanks are sent to a flare (RH1-FL-2850) with 100% capture efficiency and 98% DRE. Controlled emissions will be represented at that unit.

[2] Emissions are calculated using BR&E ProMax.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RHA, TK-6100-6200, SOUR SLOP WATER STORAGE TANKS

| | | |
|---|---|---|
| Unit: | RHA-TK-SLOP | |
| Source Description: | RHA, TK-6100-6200, SOUR SLOP WATER STORAGE TANKS | |
| Annual Operating Hours: | 8760 | hrs/yr |
| Control Device ID: | RHA-FL-5850 | |
| Capture Efficiency: | 100% | |
| Control Efficiency: | 98% | |
| Number of Tanks: | 2 | |
| Capacity of Tanks: | 500 | bbl |
| Hourly Throughput: | 5.45 | bbl/hr |
| Annual Throughput: | 47739.24 | bbl/yr |
| Annual Turnovers per Tank: | 48 | |

**$H_2S$ Sour Slop Storage Tank Emissions[1,2]**

| Component | Uncontrolled Emissions | | | |
|---|---|---|---|---|
| | Combined Flash for All Tanks (lb/hr) | Combined Working and Breathing for All Tanks (lb/hr) | Total Emissions per Tank (lb/hr) | Total Emissions Per Tank (tpy) |
| H2S | 7.15E-01 | 1.95E-02 | 3.67E-01 | 1.61E+00 |
| Carbon Dioxide | 3.05E+00 | 8.82E-02 | 1.57E+00 | 6.87E+00 |
| Nitrogen | 3.16E-07 | 1.15E-10 | 1.58E-07 | 6.93E-07 |
| Methane | 1.96E-04 | 1.98E-07 | 9.81E-05 | 4.30E-04 |
| Ethane | 1.39E-04 | 1.78E-07 | 6.95E-05 | 3.04E-04 |
| Propane | 5.60E-05 | 1.27E-08 | 2.80E-05 | 1.23E-04 |
| Isobutane | 4.49E-06 | 2.54E-10 | 2.24E-06 | 9.83E-06 |
| n-Butane | 2.96E-05 | 1.55E-09 | 1.48E-05 | 6.48E-05 |
| Isopentane | 8.72E-07 | 1.23E-11 | 4.36E-07 | 1.91E-06 |
| n-Pentane | 1.17E-06 | 5.46E-12 | 5.85E-07 | 2.56E-06 |
| Hexane | 6.70E-08 | 6.06E-14 | 3.35E-08 | 1.47E-07 |
| n-Heptane | 2.70E-09 | 5.41E-16 | 1.35E-09 | 5.92E-09 |
| n-Octane | 5.98E-10 | 1.52E-17 | 2.99E-10 | 1.31E-09 |
| Methylcyclopentane | 2.90E-07 | 1.87E-12 | 1.45E-07 | 6.36E-07 |
| Benzene | 3.16E-04 | 1.21E-07 | 1.58E-04 | 6.92E-04 |
| Cyclohexane | 9.78E-07 | 1.02E-11 | 4.89E-07 | 2.14E-06 |
| Methylcyclohexane | 1.02E-08 | 2.20E-14 | 5.10E-09 | 2.23E-08 |
| Toluene | 6.28E-05 | 5.67E-09 | 3.14E-05 | 1.38E-04 |
| 2,2-Dimethylpropane | 6.25E-09 | 1.08E-13 | 3.13E-09 | 1.37E-08 |
| 2-Methylpentane | 2.96E-08 | 2.26E-14 | 1.48E-08 | 6.48E-08 |
| 3-Methylpentane | 1.77E-08 | 2.76E-14 | 8.86E-09 | 3.88E-08 |
| 2,3-Dimethylbutane | 5.29E-09 | 9.23E-15 | 2.65E-09 | 1.16E-08 |
| 1,1-Dimethylcyclopentane | 1.33E-08 | 4.80E-14 | 6.67E-09 | 2.92E-08 |
| 2,3-Dimethylpentane | 7.46E-11 | 6.16E-17 | 3.73E-11 | 1.63E-10 |
| 2-Methylhexane | 1.59E-10 | 2.28E-17 | 7.93E-11 | 3.47E-10 |
| cis-1,3-Dimethylcyclopentane | 2.94E-09 | 9.65E-15 | 1.47E-09 | 6.43E-09 |
| trans-1,3-Dimethylcyclopentane | 3.51E-09 | 1.46E-14 | 1.76E-09 | 7.69E-09 |
| 2,2,4-Trimethylpentane | 2.27E-11 | 6.99E-18 | 1.14E-11 | 4.98E-11 |
| 2-Methylheptane | 1.02E-11 | 2.55E-19 | 5.11E-12 | 2.24E-11 |
| cis-1,2-Dimethylcyclohexane | 1.92E-10 | 3.47E-17 | 9.61E-11 | 4.21E-10 |
| m-Xylene | 9.79E-06 | 1.68E-10 | 4.90E-06 | 2.14E-05 |
| p-Xylene | 1.00E-05 | 1.95E-10 | 5.01E-06 | 2.19E-05 |
| Ethylcyclohexane | 2.39E-09 | 1.90E-15 | 1.19E-09 | 5.23E-09 |
| Water | 6.69E-02 | 1.88E-03 | 3.44E-02 | 1.51E-01 |
| CHEMTHERM 550 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| UCARSOL™ AP-814 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| MDEA | 2.06E-04 | 5.55E-08 | 1.03E-04 | 4.52E-04 |
| Piperazine | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **VOC** | **4.92E-04** | **1.42E-07** | **2.46E-04** | **1.08E-03** |
| **Total HAPS** | **3.98E-04** | **1.27E-07** | **1.99E-04** | **8.73E-04** |
| **$H_2S$** | **0.71** | **0.019** | **0.37** | **1.61** |

[1] Emissions from the sour tanks are sent to the flare (RHA-FL-5850) with 100% capture efficiency and 98%

[2] Emissions are calculated using BR&E ProMax.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RH1, TK-20107-20112, WEST CONDENSATE STORAGE TANKS

| | | |
|---|---|---|
| Unit: | RH1-TK-COND-WEST | |
| Source Description: | RH1, TK-20107-20112, WEST CONDENSATE STORAGE TANKS | |
| Annual Operating Hours: | 8760 | hrs/yr |
| Control Device ID: | RH1-FL-2850 | |
| Capture Efficiency: | 100% | |
| Control Efficiency: | 98% | |
| Number of Tanks: | 6 | |
| Capacity of Tanks: | 500 | bbl |
| Hourly Throughput: | 217.34 | bbl/hr |
| Annual Throughput: | 1,903,900.00 | bbl/yr |
| Annual Turnovers per Tank: | 635 | |

## RH1 West Condensate Storage Tank Emissions[1,2]

| Component | Uncontrolled Emissions | | | |
|---|---|---|---|---|
| | Combined Flash for All Tanks (lb/hr) | Combined Working and Breathing for All Tanks (lb/hr) | Total Emissions per Tank (lb/hr) | Total Emissions Per Tank (tpy) |
| Nitrogen | 0.00E+00 | 1.40E-01 | 2.34E-02 | 1.02E-01 |
| Methane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Carbon Dioxide | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Ethane | 0.00E+00 | 2.31E-02 | 3.85E-03 | 1.69E-02 |
| Propane | 0.00E+00 | 1.69E-01 | 2.81E-02 | 1.23E-01 |
| Isobutane | 0.00E+00 | 6.95E-02 | 1.16E-02 | 5.07E-02 |
| n-Butane | 0.00E+00 | 3.18E-01 | 5.30E-02 | 2.32E-01 |
| Isopentane | 0.00E+00 | 6.32E-01 | 1.05E-01 | 4.62E-01 |
| n-Pentane | 0.00E+00 | 8.28E-01 | 1.38E-01 | 6.05E-01 |
| i-Hexane | 0.00E+00 | 5.39E-01 | 8.98E-02 | 3.94E-01 |
| n-Hexane | 0.00E+00 | 2.99E-01 | 4.98E-02 | 2.18E-01 |
| Benzene | 0.00E+00 | 3.30E-02 | 5.50E-03 | 2.41E-02 |
| Cyclohexane | 0.00E+00 | 1.11E-01 | 1.86E-02 | 8.13E-02 |
| i-Heptane | 0.00E+00 | 2.07E-01 | 3.46E-02 | 1.51E-01 |
| n-Heptane | 0.00E+00 | 5.01E-02 | 8.34E-03 | 3.65E-02 |
| Toluene | 0.00E+00 | 1.77E-02 | 2.96E-03 | 1.29E-02 |
| i-Octane | 0.00E+00 | 1.58E-01 | 2.64E-02 | 1.15E-01 |
| n-Octane | 0.00E+00 | 4.26E-03 | 7.10E-04 | 3.11E-03 |
| Ethylbenzene | 0.00E+00 | 7.78E-04 | 1.30E-04 | 5.68E-04 |
| m-Xylene | 0.00E+00 | 2.54E-03 | 4.23E-04 | 1.85E-03 |
| Isononane | 0.00E+00 | 4.55E-03 | 7.59E-04 | 3.32E-03 |
| n-Nonane | 0.00E+00 | 5.92E-04 | 9.86E-05 | 4.32E-04 |
| Decane | 0.00E+00 | 1.63E-04 | 2.72E-05 | 1.19E-04 |
| C10+ | 0.00E+00 | 2.34E-04 | 3.90E-05 | 1.71E-04 |
| **VOC** | **0.00** | **3.45** | **0.57** | **2.52** |
| **Total HAPS** | **0.00** | **0.35** | **0.06** | **0.26** |
| **$H_2S$** | **-** | **-** | **-** | **-** |

[1] Emissions from the condensate tanks are sent to a flare (RH1-FL-2850) with 100% capture efficiency and 98% DRE. Controlled emissions will be represented at that unit.

[2] Emissions are calculated using BR&E ProMax.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RA2, TK-26100-26200, SOUR SLOP WATER STORAGE TANKS

| | |
|---|---|
| Unit: | RA2-TK-SLOP |
| Source Description: | RA2, TK-26100-26200, SOUR SLOP WATER STORAGE TANKS |
| Annual Operating Hours: | 8760 hrs/yr |
| Control Device ID: | RA2-FL-25850 |
| Capture Efficiency: | 100% |
| Control Efficiency: | 98% |
| Number of Tanks: | 2 |
| Capacity of Tanks: | 500 bbl |
| Hourly Throughput: | 9.53 bbl/hr |
| Annual Throughput: | 83449.04 bbl/yr |
| Annual Turnovers per Tank: | 83 |

**AGI-2 Sour Slop Storage Tank Emissions[1,2]**

| Component | Uncontrolled Emissions | | | |
|---|---|---|---|---|
| | Combined Flash for All Tanks (lb/hr) | Combined Working and Breathing for All Tanks (lb/hr) | Total Emissions per Tank (lb/hr) | Total Emissions Per Tank (tpy) |
| H2S | 7.92E-01 | 3.71E-02 | 4.14E-01 | 1.82E+00 |
| Carbon Dioxide | 2.92E+00 | 1.39E-01 | 1.53E+00 | 6.69E+00 |
| Nitrogen | 4.72E-07 | 2.86E-10 | 2.36E-07 | 1.04E-06 |
| Methane | 2.71E-04 | 4.56E-07 | 1.36E-04 | 5.94E-04 |
| Ethane | 1.84E-04 | 3.93E-07 | 9.24E-05 | 4.05E-04 |
| Propane | 7.38E-05 | 2.78E-08 | 3.69E-05 | 1.62E-04 |
| Isobutane | 5.82E-06 | 5.40E-10 | 2.91E-06 | 1.27E-05 |
| n-Butane | 3.86E-05 | 3.30E-09 | 1.93E-05 | 8.46E-05 |
| Isopentane | 1.18E-06 | 2.70E-11 | 5.88E-07 | 2.58E-06 |
| n-Pentane | 1.57E-06 | 1.15E-11 | 7.87E-07 | 3.45E-06 |
| Hexane | 8.58E-08 | 1.24E-13 | 4.29E-08 | 1.88E-07 |
| n-Heptane | 3.51E-09 | 1.12E-15 | 1.75E-09 | 7.68E-09 |
| n-Octane | 7.41E-10 | 2.95E-17 | 3.70E-10 | 1.62E-09 |
| Methylcyclopentane | 3.81E-07 | 3.99E-12 | 1.90E-07 | 8.34E-07 |
| Benzene | 2.79E-04 | 1.73E-07 | 1.40E-04 | 6.12E-04 |
| Cyclohexane | 1.21E-06 | 2.07E-11 | 6.04E-07 | 2.65E-06 |
| Methylcyclohexane | 1.31E-08 | 4.59E-14 | 6.56E-09 | 2.87E-08 |
| Toluene | 5.74E-05 | 8.19E-09 | 2.87E-05 | 1.26E-04 |
| 2,2-Dimethylpropane | 8.27E-09 | 2.35E-13 | 4.14E-09 | 1.81E-08 |
| 2-Methylpentane | 3.80E-08 | 4.56E-14 | 1.90E-08 | 8.32E-08 |
| 3-Methylpentane | 2.27E-08 | 5.72E-14 | 1.14E-08 | 4.97E-08 |
| 2,3-Dimethylbutane | 6.79E-09 | 1.91E-14 | 3.39E-09 | 1.49E-08 |
| 1,1-Dimethylcyclopentane | 1.74E-08 | 1.02E-13 | 8.70E-09 | 3.81E-08 |
| 2,3-Dimethylpentane | 9.66E-11 | 1.31E-16 | 4.83E-11 | 2.11E-10 |
| 2-Methylhexane | 2.06E-10 | 4.58E-17 | 1.03E-10 | 4.52E-10 |
| cis-1,3-Dimethylcyclopentane | 3.82E-09 | 2.05E-14 | 1.91E-09 | 8.37E-09 |
| trans-1,3-Dimethylcyclopentane | 4.57E-09 | 3.11E-14 | 2.29E-09 | 1.00E-08 |
| 2,2,4-Trimethylpentane | 3.22E-11 | 1.66E-17 | 1.61E-11 | 7.05E-11 |
| 2-Methylheptane | 1.27E-11 | 4.80E-19 | 6.33E-12 | 2.77E-11 |
| cis-1,2-Dimethylcyclohexane | 2.43E-10 | 7.08E-17 | 1.22E-10 | 5.33E-10 |
| m-Xylene | 1.01E-05 | 2.58E-10 | 5.07E-06 | 2.22E-05 |
| p-Xylene | 1.01E-05 | 2.98E-10 | 5.07E-06 | 2.22E-05 |
| Ethylcyclohexane | 2.94E-09 | 3.86E-15 | 1.47E-09 | 6.43E-09 |
| Water | 6.35E-02 | 2.96E-03 | 3.32E-02 | 1.46E-01 |
| CHEMTHERM 550 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| UCARSOL™ AP-814 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| MDEA | 1.96E-04 | 3.34E-08 | 9.80E-05 | 4.29E-04 |
| Piperazine | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **VOC** | **4.80E-04** | **2.13E-07** | **2.40E-04** | **1.05E-03** |
| **Total HAPS** | **3.57E-04** | **1.82E-07** | **1.79E-04** | **7.82E-04** |
| **$H_2S$** | **0.79** | **0.037** | **0.41** | **1.82** |

[1] Emissions from the sour tanks are sent to the flare (RA2-FL-25850) with 100% capture efficiency and 98% DRE.
[2] Emissions are calculated using BR&E ProMax.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RH4, TK-46200-46230, SLOP WATER STORAGE TANKS (Tank Scenario 1)

| | | |
|---|---|---|
| Unit: | RH4-TK-SLOP | |
| Source Description: | RH4, TK-46200-46230, SLOP WATER STORAGE TANKS (Tank Scenario 1) | |
| Annual Operating Hours: | 8760 | hrs/yr |
| Control Device ID: | RH4-FL-46200 | |
| Capture Efficiency: | 100% | |
| Control Efficiency: | 98% | |
| Number of Tanks: | 4 | |
| Capacity of Tanks: | 400 | bbl |
| Hourly Throughput: | 16.31 | bbl/hr |
| Annual Throughput: | 142,837.71 | bbl/yr |
| Annual Turnovers per Tank: | 89 | |

**Slop Water Storage Tank Emissions[1]**

| Component | Uncontrolled Emissions | | | |
|---|---|---|---|---|
| | Combined Flash for All Tanks (lb/hr) | Combined Working and Breathing for All Tanks (lb/hr) | Total Emissions per Tank (lb/hr) | Total Emissions Per Tank (tpy) |
| H2S | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Nitrogen | 8.64E-02 | 9.35E-05 | 2.16E-02 | 9.47E-02 |
| Carbon Dioxide | 1.42E+00 | 4.23E-02 | 3.65E-01 | 1.60E+00 |
| Methane | 2.66E+00 | 8.04E-03 | 6.66E-01 | 2.92E+00 |
| Ethane | 1.73E+01 | 2.28E-01 | 4.37E+00 | 1.92E+01 |
| Propane | 5.80E+01 | 2.35E+00 | 1.51E+01 | 6.60E+01 |
| Isobutane | 2.13E+01 | 9.86E-01 | 5.58E+00 | 2.44E+01 |
| n-Butane | 6.54E+01 | 2.99E+00 | 1.71E+01 | 7.48E+01 |
| Isopentane | 3.03E+01 | 1.35E+00 | 7.92E+00 | 3.47E+01 |
| n-Pentane | 3.62E+01 | 1.60E+00 | 9.44E+00 | 4.13E+01 |
| 2,2-Dimethylbutane | 3.55E-01 | 1.55E-02 | 9.25E-02 | 4.05E-01 |
| Cyclopentane | 2.42E+00 | 1.06E-01 | 6.32E-01 | 2.77E+00 |
| 2-Methylpentane | 7.98E+00 | 3.46E-01 | 2.08E+00 | 9.11E+00 |
| 3-Methylpentane | 4.19E+00 | 1.81E-01 | 1.09E+00 | 4.78E+00 |
| Hexane | 9.22E+00 | 3.94E-01 | 2.40E+00 | 1.05E+01 |
| 2,2-Dimethylpentane | 7.29E-01 | 3.10E-02 | 1.90E-01 | 8.32E-01 |
| Methylcyclopentane | 4.18E+00 | 1.80E-01 | 1.09E+00 | 4.78E+00 |
| 2,2,3-Trimethylbutane | 1.47E-02 | 6.27E-04 | 3.83E-03 | 1.68E-02 |
| Benzene | 2.00E+00 | 8.61E-02 | 5.22E-01 | 2.29E+00 |
| Cyclohexane | 4.57E+00 | 1.95E-01 | 1.19E+00 | 5.22E+00 |
| 2-Methylhexane | 1.11E+00 | 4.67E-02 | 2.90E-01 | 1.27E+00 |
| 3-Methylhexane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 1,1-Dimethylcyclopentane | 1.65E+00 | 6.96E-02 | 4.30E-01 | 1.88E+00 |
| n-Heptane | 2.39E+00 | 9.89E-02 | 6.22E-01 | 2.73E+00 |
| Methylcyclohexane | 2.58E+00 | 1.07E-01 | 6.72E-01 | 2.94E+00 |
| 2,5-Dimethylhexane | 2.17E-02 | 8.87E-04 | 5.63E-03 | 2.47E-02 |
| Toluene | 1.00E+00 | 4.15E-02 | 2.60E-01 | 1.14E+00 |
| 2-Methylheptane | 3.21E-01 | 1.30E-02 | 8.36E-02 | 3.66E-01 |
| n-Octane | 7.61E-01 | 3.05E-02 | 1.98E-01 | 8.67E-01 |
| Ethylcyclohexane | 6.61E-02 | 2.67E-03 | 1.72E-02 | 7.53E-02 |
| Ethylbenzene | 2.49E-02 | 1.00E-03 | 6.48E-03 | 2.84E-02 |
| p-Xylene | 1.31E-01 | 5.29E-03 | 3.42E-02 | 1.50E-01 |
| o-Xylene | 2.44E-02 | 9.75E-04 | 6.34E-03 | 2.78E-02 |
| Nonane | 1.05E-01 | 4.09E-03 | 2.74E-02 | 1.20E-01 |
| Isopropylbenzene | 3.65E-03 | 1.43E-04 | 9.48E-04 | 4.15E-03 |
| Cyclooctane | 8.20E-03 | 3.25E-04 | 2.13E-03 | 9.34E-03 |
| n-Propylbenzene | 9.93E-04 | 3.88E-05 | 2.58E-04 | 1.13E-03 |
| 1,3,5-Trimethylbenzene | 5.97E-03 | 2.32E-04 | 1.55E-03 | 6.80E-03 |
| Isobutylbenzene | 2.67E-04 | 1.03E-05 | 6.94E-05 | 3.04E-04 |
| n-Butylbenzene | 6.65E-04 | 2.51E-05 | 1.72E-04 | 7.55E-04 |
| Decane | 2.30E-02 | 8.68E-04 | 5.98E-03 | 2.62E-02 |
| Water | 3.59E+00 | 1.43E-01 | 9.33E-01 | 4.09E+00 |
| Lube Oil | 7.05E-05 | 2.14E-06 | 1.82E-05 | 7.95E-05 |
| **VOC** | **257.01** | **11.24** | **67.06** | **293.73** |
| **Total HAPS** | **12.40** | **0.53** | **3.23** | **14.16** |
| **$H_2S$** | **-** | **-** | **-** | **-** |

[1] Emissions are calculated using BR&E ProMax.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RH4, TK-46200-46230, SLOP WATER STORAGE TANKS (Tank Scenario 2)

| | | |
|---|---|---|
| Unit: | RH4-TK-SLOP | |
| Source Description: | RH4, TK-46200-46230, SLOP WATER STORAGE TANKS (Tank Scenario 2) | |
| Annual Operating Hours: | 8760 | hrs/yr |
| Control Device ID: | N/A | |
| Capture Efficiency: | 0% | |
| Control Efficiency: | 0% | |
| Number of Tanks: | 4 | |
| Capacity of Tanks: | 400 | bbl |
| Hourly Throughput: | 16.31 | bbl/hr |
| Annual Throughput: | 142,837.71 | bbl/yr |
| Annual Turnovers per Tank: | 89 | |

## Slop Water Storage Tank Emissions[1]

| Component | Uncontrolled Emissions | | | |
|---|---|---|---|---|
| | Combined Flash for All Tanks (lb/hr) | Combined Working and Breathing for All Tanks (lb/hr) | Total Emissions per Tank (lb/hr) | Total Emissions Per Tank (tpy) |
| H2S | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Nitrogen | 4.94E-04 | 5.81E-05 | 1.38E-04 | 6.04E-04 |
| Carbon Dioxide | 1.62E-03 | 7.71E-03 | 2.33E-03 | 1.02E-02 |
| Methane | 1.37E-02 | 3.31E-03 | 4.25E-03 | 1.86E-02 |
| Ethane | 8.19E-02 | 2.97E-02 | 2.79E-02 | 1.22E-01 |
| Propane | 3.00E-01 | 8.54E-02 | 9.62E-02 | 4.21E-01 |
| Isobutane | 1.18E-01 | 3.19E-02 | 3.75E-02 | 1.64E-01 |
| n-Butane | 3.49E-01 | 1.31E-01 | 1.20E-01 | 5.25E-01 |
| Isopentane | 1.74E-01 | 9.28E-02 | 6.67E-02 | 2.92E-01 |
| n-Pentane | 2.22E-01 | 1.26E-01 | 8.69E-02 | 3.80E-01 |
| 2,2-Dimethylbutane | 2.24E-03 | 1.87E-03 | 1.03E-03 | 4.50E-03 |
| Cyclopentane | 1.05E-02 | 1.67E-02 | 6.82E-03 | 2.99E-02 |
| 2-Methylpentane | 5.03E-02 | 6.11E-02 | 2.79E-02 | 1.22E-01 |
| 3-Methylpentane | 2.62E-02 | 3.67E-02 | 1.57E-02 | 6.88E-02 |
| Hexane | 5.81E-02 | 1.03E-01 | 4.02E-02 | 1.76E-01 |
| 2,2-Dimethylpentane | 4.64E-03 | 1.11E-02 | 3.94E-03 | 1.72E-02 |
| Methylcyclopentane | 2.43E-02 | 4.96E-02 | 1.85E-02 | 8.09E-02 |
| 2,2,3-Trimethylbutane | 9.30E-05 | 2.36E-04 | 8.24E-05 | 3.61E-04 |
| Benzene | 1.14E-03 | 9.10E-03 | 2.56E-03 | 1.12E-02 |
| Cyclohexane | 2.42E-02 | 7.37E-02 | 2.45E-02 | 1.07E-01 |
| 2-Methylhexane | 7.10E-03 | 2.67E-02 | 8.44E-03 | 3.70E-02 |
| 3-Methylhexane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 1,1-Dimethylcyclopentane | 1.01E-02 | 3.63E-02 | 1.16E-02 | 5.09E-02 |
| n-Heptane | 1.53E-02 | 8.49E-02 | 2.51E-02 | 1.10E-01 |
| Methylcyclohexane | 1.62E-02 | 9.62E-02 | 2.81E-02 | 1.23E-01 |
| 2,5-Dimethylhexane | 1.38E-04 | 1.03E-03 | 2.91E-04 | 1.27E-03 |
| Toluene | 1.58E-03 | 1.25E-02 | 3.52E-03 | 1.54E-02 |
| 2-Methylheptane | 2.06E-03 | 1.51E-02 | 4.29E-03 | 1.88E-02 |
| n-Octane | 4.89E-03 | 3.55E-02 | 1.01E-02 | 4.42E-02 |
| Ethylcyclohexane | 4.38E-04 | 3.21E-03 | 9.13E-04 | 4.00E-03 |
| Ethylbenzene | 8.57E-05 | 6.44E-04 | 1.82E-04 | 7.99E-04 |
| p-Xylene | 5.37E-04 | 4.07E-03 | 1.15E-03 | 5.04E-03 |
| o-Xylene | 7.56E-05 | 5.71E-04 | 1.62E-04 | 7.08E-04 |
| Nonane | 6.67E-04 | 4.68E-03 | 1.34E-03 | 5.86E-03 |
| Isopropylbenzene | 1.87E-05 | 1.36E-04 | 3.87E-05 | 1.69E-04 |
| Cyclooctane | 5.65E-05 | 4.06E-04 | 1.16E-04 | 5.06E-04 |
| n-Propylbenzene | 5.23E-06 | 3.78E-05 | 1.08E-05 | 4.71E-05 |
| 1,3,5-Trimethylbenzene | 3.31E-05 | 2.37E-04 | 6.75E-05 | 2.96E-04 |
| Isobutylbenzene | 1.24E-06 | 8.83E-06 | 2.52E-06 | 1.10E-05 |
| n-Butylbenzene | 4.32E-06 | 2.97E-05 | 8.51E-06 | 3.73E-05 |
| Decane | 1.48E-04 | 1.01E-03 | 2.89E-04 | 1.26E-03 |
| Water | 1.92E-02 | 1.39E-01 | 3.96E-02 | 1.74E-01 |
| Lube Oil | 5.78E-08 | 3.17E-07 | 9.38E-08 | 4.11E-07 |
| **VOC** | **1.42** | **1.15** | **0.64** | **2.82** |
| **Total HAPS** | **0.061** | **0.13** | **0.048** | **0.21** |
| **$H_2S$** | **-** | **-** | **-** | **-** |

[1] Emissions are calculated using BR&E ProMax.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RH2, TK-6200, SLOP WATER STORAGE TANK

| | | |
|---|---|---|
| Unit: | RH2-TK-SLOP, TK-6200 | |
| Source Description: | RH2, TK-6200, SLOP WATER STORAGE TANK | |
| Annual Operating Hours: | 8760 | hrs/yr |
| Control Device ID: | N/A | |
| Capture Efficiency: | 0% | |
| Control Efficiency: | 0% | |
| Number of Tanks: | 1 | |
| Capacity of Tanks: | 400 | bbl |
| Hourly Throughput: | 10.87 | bbl/hr |
| Daily Throughput: | 260.91 | bbl/day |
| Annual Throughput: | 95,230.91 | bbl/yr |
| Annual Turnovers per Tank: | 238 | |

**Slop Water Storage Tank Emissions[1]**

| Component | Uncontrolled Emissions | | | |
|---|---|---|---|---|
| | Combined Flash for All Tanks (lb/hr) | Combined Working and Breathing for All Tanks (lb/hr) | Total Emissions per Tank (lb/hr) | Total Emissions Per Tank (tpy) |
| H2S | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Carbon Dioxide | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Nitrogen | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Methane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Ethane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Propane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Isobutane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-Butane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Isopentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-Pentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hexane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-Heptane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-Octane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Methylcyclopentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Benzene | 0.00E+00 | 1.57E-01 | 1.57E-01 | 6.88E-01 |
| Cyclohexane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Methylcyclohexane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Toluene | 0.00E+00 | 6.90E-02 | 6.90E-02 | 3.02E-01 |
| 2,2-Dimethylpropane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2-Methylpentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3-Methylpentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2,3-Dimethylbutane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 1,1-Dimethylcyclopentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2,3-Dimethylpentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2-Methylhexane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| cis-1,3-Dimethylcyclopentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| trans-1,3-Dimethylcyclopentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2,2,4-Trimethylpentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2-Methylheptane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| cis-1,2-Dimethylcyclohexane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| m-Xylene | 0.00E+00 | 5.54E-03 | 5.54E-03 | 2.43E-02 |
| p-Xylene | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Ethylbenzene | 0.00E+00 | 1.05E-03 | 1.05E-03 | 4.61E-03 |
| Isopropylbenzene | 0.00E+00 | 5.26E-05 | 5.26E-05 | 2.30E-04 |
| n-Propylbenzene | 0.00E+00 | 5.18E-05 | 5.18E-05 | 2.27E-04 |
| 1,3,5-Trimethylbenzene | 0.00E+00 | 4.95E-05 | 4.95E-05 | 2.17E-04 |
| 1,2,4-Trimethylbenzene | 0.00E+00 | 9.41E-05 | 9.41E-05 | 4.12E-04 |
| sec-Butylbenzene | 0.00E+00 | 4.51E-06 | 4.51E-06 | 1.98E-05 |
| p-Isopropyltoluene | 0.00E+00 | 3.89E-06 | 3.89E-06 | 1.70E-05 |
| n-Butylbenzene | 0.00E+00 | 1.77E-06 | 1.77E-06 | 7.76E-06 |
| Ethylcyclohexane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Water | 0.00E+00 | 2.27E-02 | 2.27E-02 | 9.95E-02 |
| CHEMTHERM 550 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| UCARSOL™ AP-814 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| MDEA | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Piperazine | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **VOC** | **-** | **0.23** | **0.23** | **1.02** |
| **Total HAPS** | **-** | **0.23** | **0.23** | **1.02** |
| **$H_2S$** | **-** | **-** | **-** | **-** |

[1] Emissions are calculated using BR&E ProMax.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RH1, TK-33-001-33-002, SLOP WATER STORAGE TANKS

| | | |
|---|---|---|
| Unit: | RH1-TK-SLOP, TK-33-001-33-002 | |
| Source Description: | RH1, TK-33-001-33-002, SLOP WATER STORAGE TANKS | |
| Annual Operating Hours: | 8760 | hrs/yr |
| Control Device ID: | N/A | |
| Capture Efficiency: | 0% | |
| Control Efficiency: | 0% | |
| Number of Tanks: | 2 | |
| Capacity of Tanks: | 500 | bbl |
| Hourly Throughput: | 10.87 | bbl/hr |
| Daily Throughput: | 260.89 | bbl/day |
| Annual Throughput: | 95,224.75 | bbl/yr |
| Annual Turnovers: | 95 | |

**Slop Water Storage Tank Emissions[1]**

| Component | Uncontrolled Emissions | | | |
|---|---|---|---|---|
| | Combined Flash for All Tanks (lb/hr) | Combined Working and Breathing for All Tanks (lb/hr) | Total Emissions per Tank (lb/hr) | Total Emissions Per Tank (tpy) |
| H2S | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Carbon Dioxide | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Nitrogen | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Methane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Ethane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Propane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Isobutane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-Butane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Isopentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-Pentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Hexane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-Heptane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-Octane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Methylcyclopentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Benzene | 0.00E+00 | 2.92E-01 | 1.46E-01 | 6.38E-01 |
| Cyclohexane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Methylcyclohexane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Toluene | 0.00E+00 | 1.28E-01 | 6.41E-02 | 2.81E-01 |
| 2,2-Dimethylpropane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2-Methylpentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3-Methylpentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2,3-Dimethylbutane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 1,1-Dimethylcyclopentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2,3-Dimethylpentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2-Methylhexane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| cis-1,3-Dimethylcyclopentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| trans-1,3-Dimethylcyclopentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2,2,4-Trimethylpentane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2-Methylheptane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| cis-1,2-Dimethylcyclohexane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| m-Xylene | 0.00E+00 | 1.03E-02 | 5.15E-03 | 2.26E-02 |
| p-Xylene | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Ethylbenzene | 0.00E+00 | 1.96E-03 | 9.80E-04 | 4.29E-03 |
| Isopropylbenzene | 0.00E+00 | 9.78E-05 | 4.89E-05 | 2.14E-04 |
| n-Propylbenzene | 0.00E+00 | 9.65E-05 | 4.82E-05 | 2.11E-04 |
| 1,3,5-Trimethylbenzene | 0.00E+00 | 9.21E-05 | 4.61E-05 | 2.02E-04 |
| 1,2,4-Trimethylbenzene | 0.00E+00 | 1.75E-04 | 8.76E-05 | 3.84E-04 |
| sec-Butylbenzene | 0.00E+00 | 8.41E-06 | 4.20E-06 | 1.84E-05 |
| p-Isopropyltoluene | 0.00E+00 | 7.25E-06 | 3.63E-06 | 1.59E-05 |
| n-Butylbenzene | 0.00E+00 | 3.30E-06 | 1.65E-06 | 7.23E-06 |
| Ethylcyclohexane | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Water | 0.00E+00 | 4.22E-02 | 2.11E-02 | 9.25E-02 |
| CHEMTHERM 550 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| UCARSOL™ AP-814 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| MDEA | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Piperazine | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **VOC** | **-** | **0.43** | **0.22** | **0.95** |
| **Total HAPS** | **-** | **0.43** | **0.22** | **0.95** |
| **$H_2S$** | **-** | **-** | **-** | **-** |

[1] Emissions are calculated using BR&E ProMax.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RH, METHANOL STORAGE TANKS

| | |
|---|---|
| Unit: | RH-TK-METHANOL |
| Source Description: | RH, METHANOL STORAGE TANKS |
| Annual Operating Hours: | 8760 |
| Number of Tanks: | 41 |
| Capacity of Tanks: | 350, 500, 1000, 1500, and 2000 gallons |
| Maximum Usage[1]: | 2,000 gal/hr |

| Methanol Storage Tank Emissions[2,3] | | |
|---|---|---|
| | **Total Hourly (lb/hr)** | **Average Annual Emissions (tpy)** |
| Methanol | 0.92 | 4.02 |
| **VOC** | **0.92** | **4.02** |
| **HAPs** | **0.92** | **4.02** |

[1] Maximum usage between all tank capacities.

[2] Emissions are the cumulative total from all methanol storage tanks.

[3] Emissions are calculated using BR&E ProMax.

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*
**Liquid Loading Emission Calculation Inputs**

| RHA, TK-6100-6200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | | | |
|---|---|---|---|
| **Parameter** | **Value** | **Unit** | **Notes** |
| Material Loaded | Sour Slop | - | 2-T tank contents |
| Loading Method | Submerged | - | Assumed |
| Saturation Factor | 0.6 | - | AP-42 Table 5.2-1 *Saturation Factors for Calculating Petroleum Liquid Loading Losses* |
| Capture Efficiency | 70% | % | Engineering Estimate |
| DRE | 98% | % | Manufacturer Specification |
| Controlled By | RHA-FL-5850 | - | |
| Hourly Throughput | 7,560 | gal/hr | Maximum 1 truck loaded per hour |
| Annual Throughput | 2,000,000 | gal/yr | Full capacity of 2-T tanks |

| RH1, TK-20107-20112, WEST CONDENSATE STORAGE TANKS, TRUCK LOADING | | | |
|---|---|---|---|
| **Parameter** | **Value** | **Unit** | **Notes** |
| Material Loaded | Condensate | | 3-T contents |
| Loading Method | Submerged | - | Assumed |
| Saturation Factor | 0.6 | - | AP-42 Table 5.2-1 *Saturation Factors for Calculating Petroleum Liquid Loading Losses* |
| Capture Efficiency | 70% | % | Engineering Estimate |
| DRE | 98% | % | Manufacturer Specification |
| Controlled By | RH1-FL-2850 | - | |
| Hourly Throughput | 30,240 | gal/hr | Maximum 2 trucks loaded per hour |
| Annual Throughput | 89,451 | gal/yr | 2 weeks of emergency loading per year |

| RA2, TK-26100-26200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | | | |
|---|---|---|---|
| **Parameter** | **Value** | **Unit** | **Notes** |
| Material Loaded | Sour Slop | - | 4-T tank contents |
| Loading Method | Submerged | - | |
| Saturation Factor | 0.6 | - | AP-42 Table 5.2-1 *Saturation Factors for Calculating Petroleum Liquid Loading Losses* |
| Capture Efficiency | 70% | % | Engineering Estimate |
| DRE | 98% | % | Manufacturer Specification |
| Controlled By | RA2-FL-25850 | - | |
| Hourly Throughput | 15,120 | gal/hr | Maximum 2 trucks loaded per hour |
| Annual Throughput | 3,500,000 | gal/yr | Full capacity of 4-T tanks |

| RH4, TK-46200-46230, SLOP WATER STORAGE TANKS, TRUCK LOADING | | | |
|---|---|---|---|
| **Parameter** | **Value** | **Unit** | **Notes** |
| Material Loaded | Contact Water | - | 5-T tank contents |
| Loading Method | Submerged | - | |
| Saturation Factor | 0.6 | - | AP-42 Table 5.2-1 *Saturation Factors for Calculating Petroleum Liquid Loading Losses* |
| Capture Efficiency | - | % | Uncontrolled |
| DRE | - | % | Uncontrolled |
| Controlled By | - | - | Uncontrolled |
| Hourly Throughput | 15,120 | gal/hr | Maximum 2 trucks loaded per hour |
| Annual Throughput | 5,999,183.69 | gal/yr | Full capacity of 5-T tanks |

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

**Liquid Loading Emission Calculation Inputs**

**RH2, TK-6200, SLOP WATER STORAGE TANK, TRUCK LOADING**

| Parameter | Value | Unit | Notes |
|---|---|---|---|
| Material Loaded | Contact Water | - | 6-T tank contents |
| Loading Method | Submerged | - | |
| Saturation Factor | 0.6 | - | AP-42 Table 5.2-1 *Saturation Factors for Calculating Petroleum Liquid Loading Losses* |
| Capture Efficiency | - | % | Uncontrolled |
| DRE | - | % | Uncontrolled |
| Controlled By | - | - | Uncontrolled |
| Hourly Throughput | 15,120 | gal/hr | Maximum 2 trucks loaded per hour |
| Annual Throughput | 3,999,698.11 | gal/yr | Full capacity of 6-T tanks |

**RH1, TK-33-001-33-002, SLOP WATER STORAGE TANKS, TRUCK LOADING**

| Parameter | Value | Unit | Notes |
|---|---|---|---|
| Material Loaded | Contact Water | - | 7-T tank contents |
| Loading Method | Submerged | - | |
| Saturation Factor | 0.6 | - | AP-42 Table 5.2-1 *Saturation Factors for Calculating Petroleum Liquid Loading Losses* |
| Capture Efficiency | - | % | Uncontrolled |
| DRE | - | % | Uncontrolled |
| Controlled By | - | - | Uncontrolled |
| Hourly Throughput | 15,120 | gal/hr | Maximum 2 trucks loaded per hour |
| Annual Throughput | 3,999,439.46 | gal/yr | Full capacity of 7-T tanks |

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## RHA, TK-6100-6200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING

**Equation[1]:**

$$L_L = \frac{12.46 * SPM}{T}$$

**Variables[1]:**

$L_L$ - Loading Loss (lbs/1000 gal loaded)
S - Saturation Factor (From Table 5.2-1 of AP-42, Section 5.2)
P - True Vapor Pressure of Loaded Liquid (psia)
M - Molecular Weight of Vapor (lb/lb mol)
T- Temperature of Bulk Liquid ( °R = [°F + 460] )

| | | | | | | | | | | | | | | | RHA, TK-6100-6200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit[7]** | **Material Loaded [2]** | **Loading Method** | **S** | **$P_{max}$[6] (psia)** | **M[6] (lb/lbmol)** | **$T_{max}$[4] (°R)** | **$L_L$ (lbs/1000 gal)** | **Hourly Throughput[5] (gal/hr)** | **Capture Efficiency (%)** | **VOC Wt %** | **HAP Wt %** | **$H_2S$ Wt %** | **VOC Vapor Loading Losses (lb/hr)** | **HAP Vapor Loading Losses (lb/hr)** | **$H_2S$ Vapor Loading Losses (lb/hr)** | **Hourly VOC Emissions (lb/hr)** | **Hourly HAP Emissions (lb/hr)** | **Hourly $H_2S$ Emissions[3] (lb/hr)** | **DRE[3] (%)** |
| RHA, TK-6100-6200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | Sour Slop | Submerged | 0.60 | 0.71 | 29.52 | 555.00 | 0.28 | 7,560 | 70% | 8.77E-07 | 7.87E-05 | 12.06% | 1.87E-06 | 1.68E-04 | 0.26 | 1.87E-06 | 1.68E-04 | 0.26 | 98% |
| | | | | | | | | | | | | | **UNCAPTURED TOTAL** | | | **5.62E-07** | **5.04E-05** | **0.077** | |
| | | | | | | | | | | | | | **CAPTURED TOTAL** | | | **1.31E-06** | **1.18E-04** | **0.18** | |

| | | | | | | | | | | | | | | | RHA, TK-6100-6200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit[7]** | **Material Loaded [2]** | **Loading Method** | **S** | **$P_{avg}$ (psia)** | **M (lb/lbmol)** | **$T_{avg}$[4] (°R)** | **$L_L$ (lbs/1000 gal)** | **Annual Throughput (gal/yr)** | **Capture Efficiency (%)** | **VOC Wt %** | **HAP Wt %** | **$H_2S$ Wt %** | **VOC Vapor Loading Losses (tpy)** | **HAP Vapor Loading Losses (tpy)** | **$H_2S$ Vapor Loading Losses (tpy)** | **Annual VOC Emissions (tpy)** | **Annual HAP Emissions (tpy)** | **Annual $H_2S$ Emissions[3] (tpy)** | **DRE[3] (%)** |
| RHA, TK-6100-6200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | Sour Slop | Submerged | 0.60 | 0.71 | 29.52 | 527.64 | 0.30 | 2,000,000 | 70.00% | 8.77E-07 | 7.87E-05 | 12.06% | 2.48E-07 | 2.22E-05 | 0.034 | 2.48E-07 | 2.22E-05 | 0.034 | 98% |
| | | | | | | | | | | | | | **UNCAPTURED TOTAL** | | | **7.43E-08** | **6.67E-06** | **0.010** | |
| | | | | | | | | | | | | | **CAPTURED TOTAL** | | | **1.73E-07** | **1.56E-05** | **0.024** | |

[1] Loading loss equation and variables are from AP-42, Section 5.2, Transportation and Marketing of Petroleum Liquids.
[2] Material loaded is 100% sour slop.
[3] Sour slop loading emissions are sent to the sour gas flare (RHA-FL-5850) with a 70% capture effiency and a 98% DRE. Controlled emissions will be represented at that unit.
[4] Maximum temperature is 95° F and the average temperature is 67.97° F.
[5] The maximum hourly throughput is based on the assumption that one truck with a 180 bbl capacity can be loaded in an hour.
[6] The max TVP and MW are pulled from the sour tank alternative scenarios.
[7] Unit 2-Load is associated with tank battery 2-T.

| **Greenhouse Gas Emissions** | | | | | | | |
|---|---|---|---|---|---|---|---|
| | **$CO_2$ Wt %** | **$CH_4$ Wt %** | **$CO_2$ Vapor Loading Losses** | **$CH_4$ Vapor Loading Losses** | **Uncaptured $CO_2$ Emissions** | **Uncaptured Hourly $CH_4$ Emissions** | |
| Hourly | 54.26% | 0.00012% | 1.16 | 2.61E-06 | **0.35** | **7.83E-07** | **lb/hr** |
| Annually | 54.26% | 0.00012% | 0.15 | 3.45E-07 | **0.046** | **1.04E-07** | **tpy** |

| **HAP** | **WT%** | **Vapor Loading** | **Hourly (lb/hr)** | | **Vapor Loading** | **Annual (tpy)** | |
|---|---|---|---|---|---|---|---|
| | | **Losses (lb/hr)** | **Uncaptured** | **Captured** | **Losses (tpy)** | **Uncaptured** | **Captured** |
| Benzene | 7.50E-05 | 1.60E-04 | 4.80E-05 | 1.12E-04 | 2.12E-05 | 6.35E-06 | 1.48E-05 |
| Hexane | 3.75E-11 | 7.99E-11 | 2.40E-11 | 5.59E-11 | 1.06E-11 | 3.17E-12 | 7.40E-12 |
| Toluene | 3.51E-06 | 7.50E-06 | 2.25E-06 | 5.25E-06 | 9.92E-07 | 2.98E-07 | 6.94E-07 |
| Ethylbenzene | 0.00E+00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Xylene | 2.25E-07 | 4.80E-07 | 1.44E-07 | 3.36E-07 | 6.35E-08 | 1.90E-08 | 4.44E-08 |
| 2,2,4- Trimethylpentane | 4.32E-15 | 9.22E-15 | 2.77E-15 | 6.46E-15 | 1.22E-15 | 3.66E-16 | 8.54E-16 |

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## RH1, TK-20107-20112, WEST CONDENSATE STORAGE TANKS, TRUCK LOADING

**Equation[1]:**

$$L_L = \frac{12.46 * SPM}{T}$$

**Variables[1]:**

$L_L$ - Loading Loss (lbs/1000 gal loaded)
S - Saturation Factor (From Table 5.2-1 of AP-42, Section 5.2)
P - True Vapor Pressure of Loaded Liquid (psia)
M - Molecular Weight of Vapor (lb/lb mol)
T- Temperature of Bulk Liquid ( °R = [°F + 460] )

| | | | | | | | | | | | | | | | RH1, TK-20107-20112, WEST CONDENSATE STORAGE TANKS, TRUCK LOADING | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit[8]** | **Material Loaded [2]** | **Loading Method** | **S** | **$P_{max}$[6] (psia)** | **M[6] (lb/lbmol)** | **$T_{max}$[4] (°R)** | **$L_L$ (lbs/1000 gal)** | **Hourly Throughput[5] (gal/hr)** | **Capture Efficiency (%)** | **VOC Wt %** | **HAP Wt %** | **$H_2S$ Wt %[3]** | **VOC Vapor Loading Losses (lb/hr)** | **HAP Vapor Loading Losses (lb/hr)** | **$H_2S$ Vapor Loading Losses (lb/hr)** | **Hourly VOC Emissions (lb/hr)** | **Hourly HAP Emissions (lb/hr)** | **Hourly $H_2S$ Emissions[3] (lb/hr)** | **DRE (%)** |
| RH1, TK-20107-20112, WEST CONDENSATE STORAGE TANKS, TRUCK LOADING | Condensate | Submerged | 0.60 | 6.43 | 72.72 | 555.00 | 6.30 | 30,240 | 70.00% | 95.47% | 9.78% | - | 181.98 | 18.64 | 0.00 | 181.98 | 18.64 | - | 98% |
| | | | | | | | | | | | | | **UNCAPTURED TOTAL** | | | 54.59 | 5.59 | - | |
| | | | | | | | | | | | | | **CAPTURED TOTAL** | | | **127.38** | **13.04** | **-** | |

| | | | | | | | | | | | | | | | RH1, TK-20107-20112, WEST CONDENSATE STORAGE TANKS, TRUCK LOADING | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit[8]** | **Material Loaded [2]** | **Loading Method** | **S** | **$P_{avg}$[7] (psia)** | **M[7] (lb/lbmol)** | **$T_{avg}$[4] (°R)** | **$L_L$ (lbs/1000 gal)** | **Annual Throughput (gal/yr)[6]** | **Capture Efficiency (%)** | **VOC Wt %** | **HAP Wt %** | **$H_2S$ Wt %[3]** | **VOC Vapor Loading Losses (tpy)** | **HAP Vapor Loading Losses (tpy)** | **$H_2S$ Vapor Loading Losses (tpy)** | **Annual VOC Emissions (tpy)** | **Annual HAP Emissions (tpy)** | **Annual $H_2S$ Emissions[3] (tpy)** | **DRE (%)** |
| RH1, TK-20107-20112, WEST CONDENSATE STORAGE TANKS, TRUCK LOADING | Condensate | Submerged | 0.60 | 4.10 | 69.60 | 527.97 | 4.04 | 10,160,640 | 70.00% | 95.47% | 9.78% | 0.00% | 19.60 | 2.01 | 0.00 | 19.60 | 2.01 | - | 98% |
| | | | | | | | | | | | | | **UNCAPTURED TOTAL** | | | 5.88 | 0.60 | - | |
| | | | | | | | | | | | | | **CAPTURED TOTAL** | | | **13.72** | **1.40** | **-** | |

[1] Loading loss equation and variables are from AP-42, Section 5.2, Transportation and Marketing of Petroleum Liquids.
[2] Material loaded is 100% condensate.
[3] $H_2S$ content is conservatively assumed.
[4] Maximum temperature is 95° F and the average temperature is 67.97° F.
[5] The maximum hourly throughput is based on the assumption that two trucks with a 180 bbl capacity can be loaded in an hour.
[6] TVP and MW pulled from Max Hourly promax.
[7] TVP and MW pulled from Annual Average promax.
[8] Unit 3-Load is associated with tank battery 3-T

| **Greenhouse Gas Emissions** | | | | | | | |
|---|---|---|---|---|---|---|---|
| | **$CO_2$ Wt %** | **$CH_4$ Wt %** | **$CO_2$ Vapor Loading Losses** | **$CH_4$ Vapor Loading Losses** | **Uncaptured $CO_2$ Emissions** | **Uncaptured Hourly $CH_4$ Emissions** | |
| Hourly | 0% | 0% | 0.00E+00 | 0.00E+00 | **0.00E+00** | **0.00E+00** | **lb/hr** |
| Annually | 0% | 0% | 0.00E+00 | 0.00E+00 | **0.00E+00** | **0.00E+00** | **tpy** |

| **HAP** | **WT%** | **Vapor Loading** | **Hourly (lb/hr)** | | **Vapor Loading** | **Annual (tpy)** | |
|---|---|---|---|---|---|---|---|
| | | | **Uncaptured** | **Captured** | | **Uncaptured** | **Captured** |
| Benzene | 0.9136% | 1.74E+00 | 5.22E-01 | 1.22E+00 | 2.93E-01 | 8.78E-02 | 2.05E-01 |
| Hexane | 8.2800% | 1.58E+01 | 4.73E+00 | 1.10E+01 | 2.65E+00 | 7.95E-01 | 1.86E+00 |
| Toluene | 0.4914% | 9.37E-01 | 2.81E-01 | 6.56E-01 | 1.57E-01 | 4.72E-02 | 1.10E-01 |
| Ethylbenzene | 0.0216% | 0.04 | 0.01 | 0.03 | 6.91E-03 | 2.07E-03 | 4.83E-03 |
| Xylene | 0.0704% | 1.34E-01 | 4.02E-02 | 9.39E-02 | 2.25E-02 | 6.76E-03 | 1.58E-02 |
| 2,2,4- Trimethylpentane | 0.0000% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

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## RA2, TK-26100-26200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING

**Equation[1]:**

$$L_L = \frac{12.46 * SPM}{T}$$

**Variables[1]:**

$L_L$ - Loading Loss (lbs/1000 gal loaded)
S - Saturation Factor (From Table 5.2-1 of AP-42, Section 5.2)
P - True Vapor Pressure of Loaded Liquid (psia)
M - Molecular Weight of Vapor (lb/lb mol)
T- Temperature of Bulk Liquid ( °R = [°F + 460] )

| | | | | | | | | | | | | | | | RA2, TK-26100-26200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit[7]** | **Material Loaded[2]** | **Loading Method** | **S** | **$P_{max}$[6] (psia)** | **M[6] (lb/lbmol)** | **$T_{max}$[4] (°R)** | **$L_L$ (lbs/1000 gal)** | **Hourly Throughput[5] (gal/hr)** | **Capture Efficiency (%)** | **VOC Wt %** | **HAP Wt %** | **$H_2S$ Wt %** | **VOC Vapor Loading Losses (lb/hr)** | **HAP Vapor Loading Losses (lb/hr)** | **$H_2S$ Vapor Loading Losses (lb/hr)** | **Hourly VOC Emissions (lb/hr)** | **Hourly HAP Emissions (lb/hr)** | **Hourly $H_2S$ Emissions (lb/hr)** | **DRE[4] (%)** |
| RA2, TK-26100-26200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | Sour Slop | Submerged | 0.60 | 0.71 | 29.46 | 555.00 | 0.28 | 7,560 | 70% | 8.38E-05 | 7.14E-05 | 14.70% | 1.78E-04 | 1.51E-04 | 0.31 | 1.78E-04 | 1.51E-04 | 0.31 | 98% |
| | | | | | | | | | | | | | **UNCAPTURED TOTAL** | | | **5.33E-05** | **4.54E-05** | **0.093** | |
| | | | | | | | | | | | | | **CAPTURED TOTAL** | | | **1.24E-04** | **1.06E-04** | **0.22** | |

| | | | | | | | | | | | | | | | RA2, TK-26100-26200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit[7]** | **Material Loaded[2]** | **Loading Method** | **S** | **$P_{avg}$ (psia)** | **M (lb/lbmol)** | **$T_{avg}$[4] (°R)** | **$L_L$ (lbs/1000 gal)** | **Annual Throughput (gal/yr)** | **Capture Efficiency (%)** | **VOC Wt %** | **HAP Wt %** | **$H_2S$ Wt %** | **VOC Vapor Loading Losses (tpy)** | **HAP Vapor Loading Losses (tpy)** | **$H_2S$ Vapor Loading Losses (tpy)** | **Annual VOC Emissions (tpy)** | **Annual HAP Emissions (tpy)** | **Annual $H_2S$ Emissions (tpy)** | **DRE[3] (%)** |
| RA2, TK-26100-26200, SOUR SLOP WATER STORAGE TANKS, TRUCK LOADING | Sour Slop | Submerged | 0.60 | 0.71 | 29.46 | 527.64 | 0.29 | 3,500,000 | 70.00% | 8.38E-05 | 7.14E-05 | 14.70% | 4.32E-05 | 3.68E-05 | 0.076 | 4.32E-05 | 3.68E-05 | 0.076 | 98% |
| | | | | | | | | | | | | | **UNCAPTURED TOTAL** | | | **1.30E-05** | **1.11E-05** | **0.023** | |
| | | | | | | | | | | | | | **CAPTURED TOTAL** | | | **3.03E-05** | **2.58E-05** | **0.053** | |

[1] Loading loss equation and variables are from AP-42, Section 5.2, Transportation and Marketing of Petroleum Liquids.
[2] Material loaded is 100% sour slop.
[3] Sour slop loading emissions are sent to the sour gas flare (RA2-FL-25850) with a 70% capture effiency and a 98% DRE. Controlled emissions will be represented at that unit.
[4] Maximum temperature is 95° F and the average temperature is 67.97° F.
[5] The maximum hourly throughput is based on the assumption that one truck with a 180 bbl capacity can be loaded in an hour.
[6] The max TVP and MW are pulled from the sour tank alternative scenarios.
[7] Unit 4-Load is associated with tank battery 4-T.

| **4-LOAD Greenhouse Gas Emissions** | | | | | | | |
|---|---|---|---|---|---|---|---|
| | **$CO_2$ Wt %** | **$CH_4$ Wt %** | **$CO_2$ Vapor Loading Losses** | **$CH_4$ Vapor Loading Losses** | **Uncaptured $CO_2$ Emissions** | **Uncaptured Hourly $CH_4$ Emissions** | |
| Hourly | 54.11% | 0.00018% | 1.15 | 3.78E-06 | **0.34** | **1.13E-06** | **lb/hr** |
| Annually | 54.11% | 0.00018% | 0.27 | 8.75E-07 | **0.080** | **2.63E-07** | **tpy** |

| **HAP** | **WT%** | **Vapor Loading Losses (lb/hr)** | **Hourly (lb/hr)** | | **Vapor Loading Losses (tpy)** | **Annual (tpy)** | |
|---|---|---|---|---|---|---|---|
| | | | **Uncaptured** | **Captured** | | **Uncaptured** | **Captured** |
| Benzene | 6.80E-05 | 1.44E-04 | 4.32E-05 | 1.01E-04 | 3.33E-05 | 1.00E-05 | 2.33E-05 |
| Hexane | 4.86E-11 | 1.03E-10 | 3.09E-11 | 7.20E-11 | 2.38E-11 | 7.15E-12 | 1.67E-11 |
| Toluene | 3.22E-06 | 6.82E-06 | 2.04E-06 | 4.77E-06 | 1.58E-06 | 4.73E-07 | 1.10E-06 |
| Ethylbenzene | 0.00E+00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Xylene | 2.18E-07 | 4.62E-07 | 1.39E-07 | 3.23E-07 | 1.07E-07 | 3.21E-08 | 7.48E-08 |
| 2,2,4- Trimethylpentane | 1.95E-20 | 4.14E-20 | 1.24E-20 | 2.90E-20 | 9.58E-21 | 2.87E-21 | 6.71E-21 |

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## RH4, TK-46200-46230, SLOP WATER STORAGE TANKS, TRUCK LOADING

**Equation[1]:**

$$L_L = \frac{12.46 * SPM}{T}$$

**Variables[1]:**

$L_L$ - Loading Loss (lbs/1000 gal loaded)
S - Saturation Factor (From Table 5.2-1 of AP-42, Section 5.2)
P - True Vapor Pressure of Loaded Liquid (psia)
M - Molecular Weight of Vapor (lb/lb mol)
T- Temperature of Bulk Liquid ( °R = [°F + 460] )

| | | | | | | | | | | | | | | | RH4, TK-46200-46230, SLOP WATER STORAGE TANKS, TRUCK LOADING | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit[8]** | **Material Loaded [2]** | **Loading Method** | **S** | **$P_{max}$[6] (psia)** | **M[6] (lb/lbmol)** | **$T_{max}$[4] (°R)** | **$L_L$ (lbs/1000 gal)** | **Hourly Throughput[5] (gal/hr)** | **Capture Efficiency (%)** | **VOC Wt %** | **HAP Wt %** | **$H_2S$ Wt %[3]** | **VOC Vapor Loading Losses (lb/hr)** | **HAP Vapor Loading Losses (lb/hr)** | **$H_2S$ Vapor Loading Losses (lb/hr)** | **Hourly VOC Emissions (lb/hr)** | **Hourly HAP Emissions (lb/hr)** | **Hourly $H_2S$ Emissions[3] (lb/hr)** |
| RH4, TK-46200-46230, SLOP WATER STORAGE TANKS, TRUCK LOADING | Slop Water | Submerged | 0.6 | 1.11 | 62.59 | 555.00 | 0.93 | 15,120 | 70.00% | 91.60% | 3.06% | 0.00% | 12.93 | 0.43 | - | 3.88 | 0.13 | - |
| | | | | | | | | | | | | | **UNCAPTURED TOTAL** | | | **3.88** | **0.13** | **-** |
| | | | | | | | | | | | | | **CAPTURED TOTAL** | | | **9.05** | **0.30** | **-** |

| | | | | | | | | | | | | | | | RH4, TK-46200-46230, SLOP WATER STORAGE TANKS, TRUCK LOADING | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit[8]** | **Material Loaded [2]** | **Loading Method** | **S** | **$P_{avg}$[7] (psia)** | **M[7] (lb/lbmol)** | **$T_{avg}$[4] (°R)** | **$L_L$ (lbs/1000 gal)** | **Annual Throughput (gal/yr)[6]** | **Capture Efficiency (%)** | **VOC Wt %** | **HAP Wt %** | **$H_2S$ Wt %[3]** | **VOC Vapor Loading Losses (tpy)** | **HAP Vapor Loading Losses (tpy)** | **$H_2S$ Vapor Loading Losses (tpy)** | **Annual VOC Emissions (tpy)** | **Annual HAP Emissions (tpy)** | **Annual $H_2S$ Emissions[3] (tpy)** |
| RH4, TK-46200-46230, SLOP WATER STORAGE TANKS, TRUCK LOADING | Slop Water | Submerged | 0.6 | 1.11 | 62.59 | 538.88 | 0.96 | 5,999,184 | 70.00% | 91.60% | 3.06% | 0.00% | 2.64 | 0.09 | - | 0.79 | 0.03 | - |
| | | | | | | | | | | | | | **UNCAPTURED TOTAL** | | | **0.79** | **0.03** | **-** |
| | | | | | | | | | | | | | **CAPTURED TOTAL** | | | **1.85** | **0.06** | **-** |

[1] Loading loss equation and variables are from AP-42, Section 5.2, Transportation and Marketing of Petroleum Liquids.
[2] Material loaded is 100% slop water.
[3] $H_2S$ content is conservatively assumed.
[4] Maximum temperature is 95° F and the average temperature is 78.88° F.
[5] The maximum hourly throughput is based on the assumption that two trucks with a 180 bbl capacity can be loaded in an hour.
[6] TVP and MW pulled from Max Hourly promax.
[7] TVP and MW pulled from Annual Average promax.
[8] Unit 5-Load is associated with tank battery 5-T.

| **Greenhouse Gas Emissions** | | | | | | | |
|---|---|---|---|---|---|---|---|
| | **$CO_2$ Wt %** | **$CH_4$ Wt %** | **$CO_2$ Vapor Loading Losses** | **$CH_4$ Vapor Loading Losses** | **Uncaptured $CO_2$ Emissions** | **Uncaptured Hourly $CH_4$ Emissions** | |
| Hourly | 0% | 25% | 2.33E-02 | 3.50E+00 | **2.26E-02** | **3.39E+00** | **lb/hr** |
| Annually | 0% | 25% | 4.76E-03 | 7.15E-01 | **4.62E-03** | **6.94E-01** | **tpy** |

| **HAP** | **WT%** | **Vapor Loading** | **Hourly (lb/hr)** | | **Vapor Loading Losses (tpy)** | **Annual (tpy)** | |
|---|---|---|---|---|---|---|---|
| | | | **Uncaptured** | **Captured** | | **Uncaptured** | **Captured** |
| Benzene | 0.55% | 7.70E-02 | 2.31E-02 | 5.39E-02 | 1.53E-02 | 4.58E-03 | 1.07E-02 |
| Hexane | 2.26% | 3.19E-01 | 9.57E-02 | 2.23E-01 | 6.33E-02 | 1.90E-02 | 4.43E-02 |
| Toluene | 0.22% | 3.15E-02 | 9.45E-03 | 2.20E-02 | 6.25E-03 | 1.87E-03 | 4.37E-03 |
| Ethylbenzene | 0.00% | 6.59E-04 | 1.98E-04 | 4.61E-04 | 1.31E-04 | 3.92E-05 | 9.15E-05 |
| Xylene | 0.03% | 4.12E-03 | 1.24E-03 | 2.88E-03 | 8.17E-04 | 2.45E-04 | 5.72E-04 |
| 2,2,4- Trimethylpentane | 0.00% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

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# RH2, TK-6200, SLOP WATER STORAGE TANK, TRUCK LOADING

**Equation[1]:**

$$L_L = \frac{12.46 * SPM}{T}$$

**Variables[1]:**

$L_L$ - Loading Loss (lbs/1000 gal loaded)
S - Saturation Factor (From Table 5.2-1 of AP-42, Section 5.2)
P - True Vapor Pressure of Loaded Liquid (psia)
M - Molecular Weight of Vapor (lb/lb mol)
T- Temperature of Bulk Liquid ( °R = [°F + 460] )

| | | | | | | | | | | | | | | | RH2, TK-6200, SLOP WATER STORAGE TANK, TRUCK LOADING | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit[8]** | **Material Loaded [2]** | **Loading Method** | **S** | **$P_{max}$[6] (psia)** | **M[6] (lb/lbmol)** | **$T_{max}$[4] (°R)** | **$L_L$ (lbs/1000 gal)** | **Hourly Throughput[5] (gal/hr)** | **Capture Efficiency (%)** | **VOC Wt %** | **HAP Wt %** | **$H_2S$ Wt %[3]** | **VOC Vapor Loading Losses (lb/hr)** | **HAP Vapor Loading Losses (lb/hr)** | **$H_2S$ Vapor Loading Losses (lb/hr)** | **Uncaptured Hourly VOC Emissions (lb/hr)** | **Uncaptured Hourly HAP Emissions (lb/hr)** | **Uncaptured Hourly $H_2S$ Emissions[3] (lb/hr)** |
| RH2, TK-6200, SLOP WATER STORAGE TANK, TRUCK LOADING | Slop Water | Submerged | 0.6 | 1.11 | 62.59 | 555.00 | 0.93 | 15,120 | 0.00% | 91.12% | 91.02% | 0.00% | 12.87 | 12.85 | - | 12.87 | 12.85 | - |
| | | | | | | | | | | | | | **UNCAPTURED TOTAL** | | | **12.87** | **12.85** | **-** |
| | | | | | | | | | | | | | **CAPTURED TOTAL** | | | **-** | **-** | **-** |

| | | | | | | | | | | | | | | | RH2, TK-6200, SLOP WATER STORAGE TANK, TRUCK LOADING | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit[8]** | **Material Loaded [2]** | **Loading Method** | **S** | **$P_{avg}$[7] (psia)** | **M[7] (lb/lbmol)** | **$T_{avg}$[4] (°R)** | **$L_L$ (lbs/1000 gal)** | **Annual Throughput (gal/yr)[6]** | **Capture Efficiency (%)** | **VOC Wt %** | **HAP Wt %** | **$H_2S$ Wt %[3]** | **VOC Vapor Loading Losses (tpy)** | **HAP Vapor Loading Losses (tpy)** | **$H_2S$ Vapor Loading Losses (tpy)** | **Uncaptured Annual VOC Emissions (tpy)** | **Uncaptured Annual HAP Emissions (tpy)** | **Uncaptured Annual $H_2S$ Emissions[3] (tpy)** |
| RH2, TK-6200, SLOP WATER STORAGE TANK, TRUCK LOADING | Slop Water | Submerged | 0.6 | 1.11 | 62.59 | 538.88 | 0.96 | 3,999,698 | 0.00% | 91.12% | 91.02% | 0.00% | 1.75 | 1.75 | - | 1.75 | 1.75 | - |
| | | | | | | | | | | | | | **UNCAPTURED TOTAL** | | | **1.75** | **1.75** | **-** |
| | | | | | | | | | | | | | **CAPTURED TOTAL** | | | **-** | **-** | **-** |

[1] Loading loss equation and variables are from AP-42, Section 5.2, Transportation and Marketing of Petroleum Liquids.
[2] Material loaded is 100% slop water.
[3] $H_2S$ content is conservatively assumed.
[4] Maximum temperature is 95° F and the average temperature is 78.88° F.
[5] The maximum hourly throughput is based on the assumption that two trucks with a 180 bbl capacity can be loaded in an hour.
[6] TVP and MW pulled from Max Hourly promax.
[7] TVP and MW pulled from Annual Average promax.
[8] Unit 6-Load is associated with tank battery 6-T

| **Greenhouse Gas Emissions** | | | | | | | |
|---|---|---|---|---|---|---|---|
| | **$CO_2$ Wt %** | **$CH_4$ Wt %** | **$CO_2$ Vapor Loading Losses** | **$CH_4$ Vapor Loading Losses** | **Uncaptured $CO_2$ Emissions** | **Uncaptured Hourly $CH_4$ Emissions** | |
| Hourly | 0% | 0% | 0.00E+00 | 0.00E+00 | **0.00E+00** | **0.00E+00** | **lb/hr** |
| Annually | 0% | 0% | 0.00E+00 | 0.00E+00 | **0.00E+00** | **0.00E+00** | **tpy** |

| **HAP** | **WT%** | **Vapor Loading** | **Hourly (lb/hr)** | | **Vapor Loading** | **Annual (tpy)** | |
|---|---|---|---|---|---|---|---|
| | | | **Uncaptured** | **Captured** | | **Uncaptured** | **Captured** |
| Benzene | 61.46% | 8.68E+00 | 8.68E+00 | 0.00E+00 | 1.15E+00 | 1.15E+00 | 0.00E+00 |
| Hexane | 0.00% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Toluene | 26.98% | 3.81E+00 | 3.81E+00 | 0.00E+00 | 5.04E-01 | 5.04E-01 | 0.00E+00 |
| Ethylbenzene | 0.41% | 5.82E-02 | 5.82E-02 | 0.00E+00 | 7.70E-03 | 7.70E-03 | 0.00E+00 |
| Xylene | 2.17% | 3.06E-01 | 3.06E-01 | 0.00E+00 | 4.05E-02 | 4.05E-02 | 0.00E+00 |
| 2,2,4- Trimethylpentane | 0.00% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

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## RH1, TK-33-001-33-002, SLOP WATER STORAGE TANKS, TRUCK LOADING

**Equation[1]:**

$$L_L = \frac{12.46 * SPM}{T}$$

**Variables[1]:**

$L_L$ - Loading Loss (lbs/1000 gal loaded)
S - Saturation Factor (From Table 5.2-1 of AP-42, Section 5.2)
P - True Vapor Pressure of Loaded Liquid (psia)
M - Molecular Weight of Vapor (lb/lb mol)
T- Temperature of Bulk Liquid ( °R = [°F + 460] )

| | | | | | | | | | | | | | | | RH1, TK-33-001-33-002, SLOP WATER STORAGE TANKS, TRUCK LOADING | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit[8]** | **Material Loaded [2]** | **Loading Method** | **S** | **$P_{max}$[6] (psia)** | **M[6] (lb/lbmol)** | **$T_{max}$[4] (°R)** | **$L_L$ (lbs/1000 gal)** | **Hourly Throughput[5] (gal/hr)** | **Capture Efficiency (%)** | **VOC Wt %** | **HAP Wt %** | **$H_2S$ Wt %[3]** | **VOC Vapor Loading Losses (lb/hr)** | **HAP Vapor Loading Losses (lb/hr)** | **$H_2S$ Vapor Loading Losses (lb/hr)** | **Uncaptured Hourly VOC Emissions (lb/hr)** | **Uncaptured Hourly HAP Emissions (lb/hr)** | **Uncaptured Hourly $H_2S$ Emissions[3] (lb/hr)** |
| RH1, TK-33-001-33-002, SLOP WATER STORAGE TANKS, TRUCK LOADING | Slop Water | Submerged | 0.6 | 1.11 | 62.56 | 555.00 | 0.93 | 15,120 | 0.00% | 91.10% | 91.00% | 0.00% | 12.86 | 12.84 | - | 12.86 | 12.84 | - |
| | | | | | | | | | **TOTAL** | | | | **12.86** | **12.84** | **-** | **12.86** | **12.84** | **-** |

| | | | | | | | | | | | | | | | RH1, TK-33-001-33-002, SLOP WATER STORAGE TANKS, TRUCK LOADING | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit[8]** | **Material Loaded [2]** | **Loading Method** | **S** | **$P_{avg}$[7] (psia)** | **M[7] (lb/lbmol)** | **$T_{avg}$[4] (°R)** | **$L_L$ (lbs/1000 gal)** | **Annual Throughput (gal/yr)[6]** | **Capture Efficiency (%)** | **VOC Wt %** | **HAP Wt %** | **$H_2S$ Wt %[3]** | **VOC Vapor Loading Losses (tpy)** | **HAP Vapor Loading Losses (tpy)** | **$H_2S$ Vapor Loading Losses (tpy)** | **Uncaptured Annual VOC Emissions (tpy)** | **Uncaptured Annual HAP Emissions (tpy)** | **Uncaptured Annual $H_2S$ Emissions[3] (tpy)** |
| RH1, TK-33-001-33-002, SLOP WATER STORAGE TANKS, TRUCK LOADING | Slop Water | Submerged | 0.6 | 1.11 | 62.56 | 539.17 | 0.96 | 3,999,439 | 0.00% | 91.10% | 91.00% | 0.00% | 1.75 | 1.75 | - | 1.75 | 1.75 | - |
| | | | | | | | | | **TOTAL** | | | | **1.75** | **1.75** | **-** | **1.75** | **1.75** | **-** |

[1] Loading loss equation and variables are from AP-42, Section 5.2, Transportation and Marketing of Petroleum Liquids.
[2] Material loaded is 100% slop water.
[3] $H_2S$ content is conservatively assumed.
[4] Maximum temperature is 95° F and the average temperature is 78.88° F.
[5] The maximum hourly throughput is based on the assumption that two trucks with a 180 bbl capacity can be loaded in an hour.
[6] TVP and MW pulled from Max Hourly promax.
[7] TVP and MW pulled from Annual Average promax.
[8] Unit 7-Load is associated with tank battery 7-T.

| **Greenhouse Gas Emissions** | | | | | | | |
|---|---|---|---|---|---|---|---|
| | **$CO_2$ Wt %** | **$CH_4$ Wt %** | **$CO_2$ Vapor Loading Losses** | **$CH_4$ Vapor Loading Losses** | **Uncaptured $CO_2$ Emissions** | **Uncaptured Hourly $CH_4$ Emissions** | |
| Hourly | 0% | 0% | 0.00E+00 | 0.00E+00 | **0.00E+00** | **0.00E+00** | **lb/hr** |
| Annually | 0% | 0% | 0.00E+00 | 0.00E+00 | **0.00E+00** | **0.00E+00** | **tpy** |

| **HAP** | **WT%** | **Vapor Loading** | **Hourly (lb/hr)** | | **Vapor Loading** | **Annual (tpy)** | |
|---|---|---|---|---|---|---|---|
| | | | **Uncaptured** | **Captured** | | **Uncaptured** | **Captured** |
| Benzene | 61.42% | 8.67E+00 | 8.67E+00 | 0.00E+00 | 1.15E+00 | 1.15E+00 | 0.00E+00 |
| Hexane | 0.00% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Toluene | 26.99% | 3.81E+00 | 3.81E+00 | 0.00E+00 | 5.04E-01 | 5.04E-01 | 0.00E+00 |
| Ethylbenzene | 0.41% | 5.83E-02 | 5.83E-02 | 0.00E+00 | 7.71E-03 | 7.71E-03 | 0.00E+00 |
| Xylene | 2.17% | 3.06E-01 | 3.06E-01 | 0.00E+00 | 4.05E-02 | 4.05E-02 | 0.00E+00 |
| 2,2,4- Trimethylpentane | 0.00% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

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**Thermal Oxidizer Emission Calculation Inputs**

**RH2-TO-5500**

| Parameter | Value | Unit | Notes |
|---|---|---|---|
| Unit ID | RH2-TO-5500 | - | |
| Units Controlled | RH1-TEG, RH2-TEG, RH1-AMINE, RH2-AMINE | - | Plant Design |
| DRE | 99% | % | Manufacturer specification |
| Operating Hours | 8760 | hours/year | Engineering Estimate |
| Max Burner Heat Release | 90 | MMBtu/hr | Manufacturer specification |
| SSM Unit ID | RH2-TO-5500 SSM | | |
| Annual Downtime | 109.5 | hours/yr | Engineering Estimate |

**RH4-TO-45500**

| Parameter | Value | Unit | Notes |
|---|---|---|---|
| Unit ID | RH4-TO-45500 | - | |
| Units Controlled | RH3-TEG and RH4-AMINE | - | Plant Design |
| DRE | 99% | % | Manufacturer specification |
| Operating Hours | 8760 | hours/year | Engineering Estimate |
| Max Burner Heat Release | 80 | MMBtu/hr | Manufacturer specification |
| SSM Unit ID | RH4-TO-45500 SSM | | |
| Annual Downtime | 109.5 | hours/yr | Engineering Estimate |

**RH5-TO-55500**

| Parameter | Value | Unit | Notes |
|---|---|---|---|
| Unit ID | RH5-TO-55500 | - | |
| Units Controlled | RH5-TEG, RH6-TEG, RH5-AMINE | - | Plant Design |
| DRE | 99% | % | Manufacturer specification |
| Operating Hours | 8760 | hours/year | Engineering Estimate |
| Max Burner Heat Release | 56.74 | MMBtu/hr | Manufacturer specification |
| SSM Unit ID | RH5-TO-55500-SSM | | |
| Annual Downtime | 175.2 | hours/yr | Engineering Estimate |

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## RH2, TO-5500, THERMAL OXIDIZER

Emission Unit: RH2-TO-5500
Source Description: RH2, TO-5500, THERMAL OXIDIZER
Associate Trains: RH2-TEG Regenerator Overheads, and RH1-AMINE and RH2-AMINE Regeneration Overheads.
Operating Hours: 8760 hrs/yr

***VOC Heat Input and Flow Rate Calculation***

| Parameters | Value | Unit | Notes |
|---|---|---|---|
| RH2-TEG Dehy Still Vent VOC Emissions | 599.71 | tpy | RH2-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH2-TEG Dehy Still Vent HAP Emissions | 165.38 | tpy | RH2-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH2-TEG Dehy Still Vent H2S Emissions | 0.00E+00 | tpy | RH2-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH1-AMINE Amine Still Vent VOC Emissions | 75.68 | tpy | RH1-AMINE Uncontrolled Regenerator Overheads |
| RH1-AMINE Amine Still Vent HAP Emissions | 46.71 | tpy | RH1-AMINE Uncontrolled Regenerator Overheads |
| RH1-AMINE Amine Still Vent H2S Emissions | 4.88 | tpy | RH1-AMINE Uncontrolled Regenerator Overheads |
| RH2-AMINE Amine Still Vent VOC Emissions | 328.39 | tpy | RH2-AMINE Uncontrolled Regenerator Overheads |
| RH2-AMINE Amine Still Vent HAP Emissions | 219.79 | tpy | RH2-AMINE Uncontrolled Regenerator Overheads |
| RH2-AMINE Amine Still Vent H2S Emissions | 37.84 | tpy | RH2-AMINE Uncontrolled Regenerator Overheads |
| RH3-TEG Dehy Still Vent VOC Emissions | 866.63 | tpy | RH3-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH3-TEG Dehy Still Vent HAP Emissions | 228.36 | tpy | RH3-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH3-TEG Dehy Still Vent H2S Emissions | 0.00E+00 | tpy | RH3-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH2-TEG Dehy Still Vent Heating Value | 2681.63 | Btu/scf | RH3-TEG Dehydration ProMax PStream |
| RH1-AMINE Amine Still Vent Heating Value | 9.00 | Btu/scf | RH1-AMINE Max Flowrate ProMax PStream |
| RH2-AMINE Amine Still Vent Heating Value | 7.66 | Btu/scf | RH2-AMINE Max Flowrate ProMax PStream |
| RH3-TEG Still Vent Heating Value | 2698.74 | Btu/scf | RH3-TEG Dehydration PStreams |
| RH2-TEG Dehy Still Vent Gas Flow rate | 1102.30 | scf/hr | RH3-TEG Dehydration ProMax PStream |
| RH1-AMINE Amine Still Vent Flow Rate | 148917.06 | scf/hr | RH1-AMINE Max Flowrate ProMax PStream |
| RH2-AMINE Amine Still Vent Flow Rate | 708434.79 | scf/hr | RH2-AMINE Max Flowrate ProMax PStream |
| RH3-TEG Dehy Still Vent Gas Flow rate | 1608.71 | scf/hr | RH3-TEG Dehydration PStreams |
| Total Heating Value | 16.35 | Btu/scf | Weighted average heating value of all streams routed to RH2-TO-5500 |
| Total Flow | 860062.86 | scf/hr | Combined flow rate of all streams routed to RH2-TO-5500 |
| Total Heating Value | 14.06 | MMBtu/hr | |
| Flow Rate with Safety Factor | 10% | % | Safety Factor |
| Hourly Flow Rate with Safety Factor | 946069.14 | scf/hr | Flow Rate with Safety Factor |
| Annual Flow Rate with Safety Factor | 8287.57 | MMscf/yr | Flow Rate with Safety Factor |
| Heating Rate | 15.47 | MMBtu/hr | |
| **Pilot/Fuel Gas** | **Value** | **Unit** | **Notes** |
| Supplemental Fuel | 71424 | scf/hr | Calculated flow rate based on maximum burner heat release |
| | 7.14E-02 | MMScf/hr | |
| Natural Gas Heat Value | 1043.50 | Btu/scf | Facility Fuel Gas Specification |
| Hourly Heat Rate | 74.53 | MMBtu/hr | Maximum Hourly Fuel Rate |
| Annual Heat Rate | 652887.30 | MMBtu/yr | |

| Parameter | VOC | HAPs | H2S | Units |
|---|---|---|---|---|
| RH2-TEG Dehy Still Vent | 599.71 | 165.38 | 0.00 | ton/yr |
| RH1-AMINE Still Vent | 75.68 | 46.71 | 4.88 | ton/yr |
| RH2-AMINE Still Vent | 328.39 | 219.79 | 37.84 | ton/yr |
| RH3-TEG Dehy Still Vent | 866.63 | 228.36 | 0.00 | ton/yr |
| **Total** | **1870.41** | **660.24** | **42.72** | **tons/yr** |

***Emission Rates***

| | $NO_x$[3] | CO[3] | VOC[1] | $SO_2$[2] | $H_2S$ | PM | HAPs[1] | Units | Notes |
|---|---|---|---|---|---|---|---|---|---|
| Emission Factors | | | 5.50 | | | 7.60 | | lb/MMscf | AP 42: Chapter 1.4 Table:1.4-1[3] |
| | | | 5.63 | | | 7.78 | | lb/MMscf | Adjusted for Pilot, Purge, and Assist Gas |
| | | | | | | 0.12 | | lb/MMscf | Adjusted for Streams Controlled |
| | 50.00 | 50.00 | | | | | | ppm | BACT limit |
| | 46 | 28 | | | | | | lb/lb-mol | molecular weight |
| | | | | | 0.25 | | | gr/100 scf | |
| | | | 10% | | 10% | | 10% | % | Safetey Factor |
| | | | 2057.45 | | 46.99 | | 726.26 | tpy | Emissions with Safety Factor |
| Pilot/Fuel Emissions | 0.10 | 0.06 | 0.40 | 0.048 | 2.55E-04 | 0.56 | - | lb/hr | hourly rate |
| | 0.44 | 0.27 | 1.76 | 0.21 | 1.12E-03 | 2.43 | - | tpy | 8760 hr/yr/2000 lb/ton |
| Process Emissions | 1.32 | 0.80 | 4.27 | 19.31 | 0.11 | 0.115 | 1.6581 | lb/hr | hourly rate |
| | 5.78 | 3.52 | 18.70 | 84.59 | 0.47 | 0.50 | 7.26 | tpy | 8760 hr/yr/2000 lb/ton |
| *SSM Emissions* | *1.71* | *6.27* | *16.75* | *1.54E+00* | *8.28E-03* | *0.092* | *0.1022* | *lb/hr* | *Referenced from SSM Workbook Section* |
| | *4.50E-01* | *2.81E-01* | *2.44E-02* | *7.72E-04* | *4.14E-06* | *1.21E-05* | *5.11E-05* | *tpy* | *Referenced from SSM Workbook Section* |
| Total Emissions | **1.71** | **6.27** | **16.75** | **19.36** | **0.11** | **0.67** | **1.66** | lb/hr | Maximum of Steady State and SSM |
| | **6.66** | **4.06** | **20.49** | **84.80** | **0.47** | **2.94** | **7.26** | tpy | Pilot + Process + SSM Emissions |

[1] Efficiency for combustion of VOC, $H_2S$ and HAPs for TO is: 99% lb/hr emission rate based on DRE of TO: lb/hr * (1 - DRE)

[2] Fuel $H_2S$ content is assumed to be: 0.25 gr/100 Scf

[3] $NO_x$ & CO emission factors are based on BACT limit and manufacturer guarantee.

[4] PV= nRT = n = PV/RT

| | | | | | | |
|---|---|---|---|---|---|---|
| P= | 1.00 | ATM | | | | |
| Gas Constant, R= | 1.31 | (atm*ft3)/(lb-mole*K) | | | | |
| T= | 1800.00 | °F = | 982.222 | °C = | 1255.3722 | K |

"-" Indicates emissions of this pollutant are not expected

| Greenhouse Emissions | | | | | | |
|---|---|---|---|---|---|---|
| | $CO_2$ | $CH_4$ | $N_2O$ | $CO_{2e}$[4] | Units | Notes |
| Emission Factors | 1 | 28 | 265 | - | - | GWP |
| | 53.06 | 1.00E-03 | 1.00E-04 | - | kg/MMBtu | 40 CFR 98 Subpart C, Table C-1 & C-2 |
| Total Emissions | 10,527.95 | 0.20 | 0.020 | - | lb/hr | EF (kg/MMBtu) * (2.20 lb/kg) * Heat Input (MMBtu/hr) |
| | 46,112.44 | 0.87 | 0.087 | 46,159.81 | tpy | GHG (lb/hr) * Operating Hours (hr/yr) / (2000 lb/ton) |

[4] $CO_2e$ (tpy) = $CO_2$ (tpy) * $GWP_{CO2}$ + $CH_4$ (tpy) * $GWP_{CH4}$ + $N_2O$ (tpy) * $GWP_{N2O}$

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# Thermal Oxidizer Downtime

Emission Unit: RH2-TO-5500 SSM
Source Description: Thermal Oxidizer downtime during scheduled maintenance events.
Annual Downtime: 109.5 hrs/yr

| | Uncontrolled Emissions RH1-AMINE, RH2-AMINE |
|---|---|
| **Components** | **lb/hr** |
| H2S | 9.75 |
| Helium | 0.00 |
| Oxygen | 0.00 |
| Argon | 0.00 |
| N2 | 0.53 |
| CO2 | 92,899.86 |
| C1 | 81.68 |
| C2 | 43.70 |
| C3 | 18.83 |
| iC4 | 1.75 |
| nC4 | 7.80 |
| iC5 | 0.52 |
| nC5 | 0.86 |
| Neopentane | 0.00 |
| 2,2-Dimethylbutane | 0.00 |
| 2,3-Dimethylbutane | 0.01 |
| Cyclopentane | 0.18 |
| 2-Methylpentane | 0.00 |
| 3-Methylpentane | 0.00 |
| Benzene | 37.12 |
| Cyclohexane | 1.26 |
| Methylcyclopentane | 0.00 |
| C6 | 0.34 |
| 3-Methylhexane | 0.00 |
| 2,2-Dimethylpentane | 0.00 |
| 2,3-Dimethylpentane | 0.00 |
| 2,4-Dimethylhexane | 0.00 |
| Ethylcyclopentane | 0.00 |
| 2,4-Dimethylpentane | 0.00 |
| 2-Methylhexane | 0.00 |
| 3-3-Dimethylpentane | 0.00 |
| 1,cis-3-Dimethylcyclopentan | 0.00 |
| 3-Ethylpentane | 0.00 |
| Cycloheptane | 0.00 |
| Methylcyclohexane | 0.17 |
| 2,2-Dimethylhexane | 0.00 |
| n-Heptane | 0.02 |
| Toluene | 20.35 |
| trans-1,2-Dimethylcyclopent | 0.00 |
| cis-1,2-Dimethylcyclopentan | 0.00 |
| trans-1,3-Dimethylcyclopent | 0.00 |
| 1-Ethyl-1-Methylcyclopentan | 0.00 |
| 2,2,3-Trimethylpentane | 0.00 |
| 2,3,4-Trimethylpentane | 0.00 |
| 2,5-Dimethylhexane | 0.00 |
| 2-Methylheptane | 0.00 |
| 4-Methylheptane | 0.00 |
| 3,3-Dimethylhexane | 0.00 |
| 3-Methylheptane | 0.00 |
| cis-1,2-Dimethylcyclohexane | 0.00 |
| cis-1,3-Dimethylcyclohexane | 0.00 |
| Cyclooctane | 0.00 |
| Ethylbenzene | 0.60 |
| Ethylcyclohexane | 0.00 |
| m-Xylene | 1.01 |
| p-Xylene | 1.03 |
| n-Octane | 0.01 |
| o-Xylene | 0.39 |
| trans-1,3-Dimethylcyclohexa | 0.00 |
| 1,1,2-Trimethylcyclohexane | 0.00 |
| 1,2,3-Trimethylbenzene | 0.00 |
| 1,2,4-Trimethylbenzene | 0.00 |
| tert-Butylbenzene | 0.00 |
| 1,3,5-Trimethylbenzene | 0.00 |
| 2,2,3-Trimethylhexane | 0.00 |
| 2,2,4-Trimethylhexane | 0.00 |
| 2,2-Dimethylheptane | 0.00 |
| 2,3,4-Trimethylhexane | 0.00 |
| 2,4,4-Trimethylhexane | 0.00 |
| 2,5-Dimethylheptane | 0.00 |
| 2-Methyloctane | 0.00 |
| 3,4-Dimethylheptane | 0.00 |
| Isopropylbenzene | 0.00 |
| 1,1,3-Trimethylcyclopentane | 0.00 |
| m-Ethyltoluene | 0.00 |
| p-Ethyltoluene | 0.00 |
| n-Nonane | 0.00 |
| Propylbenzene | 0.00 |
| Propylcyclohexane | 0.00 |
| 1,2-Diethylbenzene | 0.00 |
| 4-Methylnonane | 0.00 |
| n-Decane | 0.00 |
| nC11 | 0.00 |
| nC12 | 0.00 |
| nC13 | 0.00 |
| nC14 | 0.00 |
| nC15 | 0.00 |
| H2O | 2,524.72 |
| CHEMTHERM 550 | 0.00 |
| UCARSOL™ AP-814 | 0.00 |
| MDEA | 0.00 |
| Piperazine | 0.00 |
| **Total VOC:** | 92.25 |
| **Total HAPs:** | 60.84 |
| **Total H2S:** | 9.75 |

| | Thermal Oxidizer Downtime Total | |
|---|---|---|
| | **lb/hr** | **ton/yr** |
| **Total VOC:** | 92.25 | 5.05 |
| **Total HAPs:** | 60.84 | 3.33 |
| **Total $H_2S$:** | 9.75 | 0.53 |
| | **lb/hr** | **ton/yr** |
| **Total $CO_2$:** | 92,899.86 | 5086.27 |
| **Total $CH_4$:** | 81.68 | 4.47 |

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# Thermal Oxidizer

Emission Unit: RH4-TO-45500
Source Description: RH4 Thermal Oxidizer
Trains Associated: RH4-AMINE and RH4-TEG Regenerator Overheads
Operating Hours: 8760 hrs/yr

***VOC Heat Input and Flow Rate Calculation***

| Parameters | Value | Unit | Notes |
|---|---|---|---|
| RH4-TEG Dehy Still Vent VOC Emissions | 552.22 | tpy | RH4-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH4-TEG Dehy Still Vent HAP Emissions | 151.49 | tpy | RH4-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH4-TEG Dehy Still Vent H2S Emissions | 0 | tpy | RH4-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH4-AMINE Amine Still Vent VOC Emissions | 319.26 | tpy | RH4-AMINE Uncontrolled Regenerator Overheads |
| RH4-AMINE Amine Still Vent HAP Emissions | 202.17 | tpy | RH4-AMINE Uncontrolled Regenerator Overheads |
| RH4-AMINE Amine Still Vent H2S Emissions | 28.21 | tpy | RH4-AMINE Uncontrolled Regenerator Overheads |
| RH4-TEG Still Vent Heating Value | 2631.26 | Btu/scf | TEG Dehydration PStreams |
| RH4-AMINE Amine Still Vent Heating Value | 7.99 | Btu/scf | RH4-AMINE Max Flowrate Pstream |
| RH4-TEG Still Vent Heating Value | 1044.85 | scf/hr | RH4-TEG Dehydration PStreams |
| RH4-AMINE Amine Still Vent Gas Flow rate | 679846.53 | scf/hr | RH4-AMINE Max Flowrate Pstream |
| Total Heating Value | 12.01 | Btu/scf | Weighted average heating value of all streams routed to RH4-TO-45500 |
| Total Flow | 680891.38 | scf/hr | Combined flow rate of all streams routed to RH4-TO-45500 |
| Total Heating Value | 8.18 | MMBtu/hr | |
| Flow Rate with Safety Factor | 10% | % | Safety Factor |
| Hourly Flow rate with Safety Factor | 748980.52 | scf/hr | Flow with safety factor |
| Annual Flow rate with Safety factor | 6561.07 | MMscf/yr | |
| Heating Rate | 9.00 | MMBtu/hr | |
| **Pilot/Fuel Gas** | **Value** | **Unit** | **Notes** |
| Hourly Heat Rate | 71.00 | MMBtu/hr | Maximum burner heat release minus heating value of combusted stream |
| Supplemental Fuel | 68041.38<br>0.068 | scf/hr<br>MMScf/hr | Calculated flow rate based on maximum burner heat release |
| Natural Gas Heat Value | 1043.5 | Btu/scf | Facility Specification |
| Annual Heat Rate | 621970.37 | MMBtu/yr | |

| Parameter | VOC | HAPs | H2S | Units |
|---|---|---|---|---|
| RH4-TEG Dehy Still Vent | 552.22 | 151.49 | 0 | ton/yr |
| RH4-AMINE Still Vent | 319.26 | 202.17 | 28.21 | ton/yr |
| **Total** | **871.48** | **353.67** | **28.21** | **tons/yr** |

***Emission Rates***

| | $NO_x$[3] | CO[3] | VOC[1] | $SO_2$[2] | $H_2S$ | PM | HAPs[1] | Units | Notes |
|---|---|---|---|---|---|---|---|---|---|
| Emission Factors | | | 5.50 | | | 7.60 | | lb/MMscf | AP 42: Chapter 1.4 Table:1.4-1. [3] |
| | | | 5.63 | | | 7.78 | | lb/MMscf | Adjusted for Purge, Pilot, and Assist Gas |
| | | | | | | 0.09 | | lb/MMscf | Adjusted for Streams Controlled. |
| | 50.00 | 50.00 | | | | | | ppm | BACT limit |
| | 46 | 28 | | | | | | lb/lb-mol | molecular weight |
| | | | | | 0.25 | | | gr S/ 100 Scf | |
| | | | 10% | | 10% | | 10% | % | Safety Factor |
| | | | 958.63 | | 31.03 | | 389.03 | tpy | Uncontrolled Emissions with Safety Factor |
| Fuel Emissions | 0.10 | 0.06 | 0.38 | 0.045 | 2.43E-04 | 0.53 | - | lb/hr | hourly rate |
| | 0.46 | 0.28 | 1.68 | 0.20 | 1.06E-03 | 2.32 | - | tpy | 8760 hr/yr/2000 lb/ton |
| Process Emissions | 1.15 | 0.70 | 2.19 | 14.03 | 0.07 | 0.067 | 0.89 | lb/hr | hourly rate |
| | 5.02 | 3.05 | 9.59 | 61.45 | 0.31 | 0.29 | 3.89 | tpy | 8760 hr/yr/2000 lb/ton |
| *SSM Emissions* | *0.16* | *0.09* | *0.13* | *1.55E+00* | *8.33E-03* | *8.40E-03* | *7.93E-02* | *lb/hr* | *Referenced from SSM Workbook Section* |
| | *4.50E-01* | *2.74E-01* | *2.05E-04* | *7.77E-04* | *4.17E-06* | *1.22E-05* | *3.96E-05* | *tpy* | *Referenced from SSM Workbook Section* |
| Total Emissions | **1.25** | **0.76** | **2.57** | **14.07** | **0.07** | **0.60** | **0.89** | lb/hr | Maximum of Steady State and SSM |
| | **5.92** | **3.61** | **11.26** | **61.65** | **0.31** | **2.61** | **3.89** | tpy | Pilot + Process + SSM Emissions |

[1] Efficiency for combustion of VOC, $H_2S$ and HAPs for TO is: 99% lb/hr emission rate based on DRE of flare: lb/hr * (1 - DRE)

[2] Fuel $H_2S$ content is assumed to be: 0.25 gr/100 Scf

[3] $NO_X$ & CO emission factors are based on BACT limit and manufacturer guarantee.

[4] PV= nRT = n = PV/RT 0.157

P= 1.00 ATM

Gas Constant, R= 1.31 (atm*ft3)/(lb-mole*K)

T= 1600.00 °F = 871.111 °C = 1144.2611 K

"-" Indicates emissions of this pollutant are not expected

| Greenhouse Emissions | | | | | | |
|---|---|---|---|---|---|---|
| | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$[5] | Units | Notes |
| Emission Factors | 1 | 28 | 265 | - | - | GWP |
| | 53.06 | 1.00E-03 | 0.0001 | - | kg/MMBtu | 40 CFR 98 Subpart C, Table C-1 & C-2 |
| Total Emissions | 9,358.18 | 0.18 | 0.018 | - | lb/hr | EF (kg/MMBtu) * (2.20 lb/kg) * Heat Input (MMBtu/hr) |
| | 40,988.84 | 0.77 | 0.077 | 41,030.94 | tpy | GHG (lb/hr) * Operating Hours (hr/yr) / (2000 lb/ton) |

[5] $CO_2e$ (tpy) = $CO_2$ (tpy) * $GWP_{CO2}$ + $CH_4$ (tpy) * $GWP_{CH4}$ + $N_2O$ (tpy) * $GWP_{N2O}$

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# Thermal Oxidizer Downtime

Emission Unit: RH4-TO-45500 SSM
Source Description: Thermal Oxidizer downtime during scheduled maintenance events.
Annual Downtime: 109.5 hrs/yr

| | Uncontrolled Emissions |
|---|---|
| | RH4-AMINE |
| **Components** | **lb/hr** |
| H2S | 6.44 |
| Helium | 0.00 |
| Oxygen | 0.01 |
| Argon | 0.00 |
| N2 | 0.31 |
| CO2 | 73,670.13 |
| C1 | 63.86 |
| C2 | 35.02 |
| C3 | 15.11 |
| iC4 | 1.52 |
| nC4 | 6.99 |
| iC5 | 0.47 |
| nC5 | 0.80 |
| Neopentane | 0.00 |
| 2,2-Dimethylbutane | 0.01 |
| 2,3-Dimethylbutane | 0.01 |
| Cyclopentane | 0.21 |
| 2-Methylpentane | 0.11 |
| 3-Methylpentane | 0.05 |
| Benzene | 35.17 |
| Cyclohexane | 1.03 |
| Methylcyclopentane | 0.30 |
| C6 | 0.10 |
| 3-Methylhexane | 0.00 |
| 2,2-Dimethylpentane | 0.00 |
| 2,3-Dimethylpentane | 0.00 |
| 2,4-Dimethylhexane | 0.00 |
| Ethylcyclopentane | 0.00 |
| 2,4-Dimethylpentane | 0.00 |
| 2-Methylhexane | 0.00 |
| 3-3-Dimethylpentane | 0.00 |
| 1,cis-3-Dimethylcyclopentan | 0.01 |
| 3-Ethylpentane | 0.00 |
| Cycloheptane | 0.01 |
| Methylcyclohexane | 0.04 |
| 2,2-Dimethylhexane | 0.00 |
| n-Heptane | 0.00 |
| Toluene | 10.00 |
| trans-1,2-Dimethylcyclopent | 0.00 |
| cis-1,2-Dimethylcyclopentan | 0.00 |
| trans-1,3-Dimethylcyclopent | 0.01 |
| 1-Ethyl-1-Methylcyclopentan | 0.03 |
| 2,2,3-Trimethylpentane | 0.00 |
| 2,3,4-Trimethylpentane | 0.00 |
| 2,5-Dimethylhexane | 0.00 |
| 2-Methylheptane | 0.00 |
| 4-Methylheptane | 0.00 |
| 3,3-Dimethylhexane | 0.00 |
| 3-Methylheptane | 0.00 |
| cis-1,2-Dimethylcyclohexane | 0.00 |
| cis-1,3-Dimethylcyclohexane | 0.00 |
| Cyclooctane | 0.00 |
| Ethylbenzene | 0.21 |
| Ethylcyclohexane | 0.00 |
| m-Xylene | 0.26 |
| p-Xylene | 0.27 |
| n-Octane | 0.00 |
| o-Xylene | 0.16 |
| trans-1,3-Dimethylcyclohexa | 0.00 |
| 1,1,2-Trimethylcyclohexane | 0.00 |
| 1,2,3-Trimethylbenzene | 0.00 |
| 1,2,4-Trimethylbenzene | 0.00 |
| tert-Butylbenzene | 0.00 |
| 1,3,5-Trimethylbenzene | 0.00 |
| 2,2,3-Trimethylhexane | 0.00 |
| 2,2,4-Trimethylhexane | 0.00 |
| 2,2-Dimethylheptane | 0.00 |
| 2,3,4-Trimethylhexane | 0.00 |
| 2,4,4-Trimethylhexane | 0.00 |
| 2,5-Dimethylheptane | 0.00 |
| 2-Methyloctane | 0.00 |
| 3,4-Dimethylheptane | 0.00 |
| Isopropylbenzene | 0.00 |
| 1,1,3-Trimethylcyclopentane | 0.00 |
| m-Ethyltoluene | 0.00 |
| p-Ethyltoluene | 0.00 |
| n-Nonane | 0.00 |
| Propylbenzene | 0.00 |
| Propylcyclohexane | 0.00 |
| 4-Methylnonane | 0.00 |
| n-Decane | 0.00 |
| nC11 | 0.00 |
| nC12 | 0.00 |
| nC13 | 0.00 |
| nC14 | 0.00 |
| nC15 | 0.00 |
| H2O | 2,001.49 |
| CHEMTHERM 550 | 0.00 |
| UCARSOL™ AP-814 | 0.00 |
| MDEA | 0.00 |
| Piperazine | 0.00 |
| **Total VOC:** | 72.89 |
| **Total HAPs:** | 46.16 |
| **Total H2S:** | 6.44 |

| | Thermal Oxidizer Downtime | |
|---|---|---|
| | Total | |
| | **lb/hr** | **ton/yr** |
| **Total VOC:** | 72.89 | 3.99 |
| **Total HAPs:** | 46.16 | 2.53 |
| **Total H2S:** | 6.44 | 0.35 |
| | **lb/hr** | **ton/yr** |
| **Total $CO_2$:** | 73,670.131 | 4033.44 |
| **Total $CH_4$:** | 63.86 | 3.50 |

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# RH5 Thermal Oxidizer

Emission Unit: RH5-TO-55500
Source Description: RH5 Thermal Oxidizer
Train Associated: RH5-AMINE and RH5-TEG, RH6-TEG
Operating Hours: 8760 hrs/yr

***VOC Heat Input and Flow Rate Calculation***

| Parameters | Value | Unit | Notes |
|---|---|---|---|
| RH5-TEG Dehy Still Vent VOC Emissions | 1067.00 | tpy | RH5-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH5-TEG Dehy Still Vent HAP Emissions | 308.52 | tpy | RH5-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH5-TEG Dehy Still Vent H2S Emissions | 0 | tpy | RH5-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH6-TEG Dehy Still Vent VOC Emissions | 991.80 | tpy | RH6-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH6-TEG Dehy Still Vent HAP Emissions | 326.78 | tpy | RH6-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH6-TEG Dehy Still Vent H2S Emissions | 0.039 | tpy | RH6-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH5-AMINE Still Vent VOC Emissions | 387.40 | tpy | RH5-AMINE Uncontrolled Regenerator Overheads |
| RH5-AMINE Still Vent HAP Emissions | 248.41 | tpy | RH5-AMINE Uncontrolled Regenerator Overheads |
| RH5-AMINE Still Vent H2S Emissions | 28.34 | tpy | RH5-AMINE Uncontrolled Regenerator Overheads |
| RH5-TEG Still Vent Heating Value | 2746.79 | Btu/scf | RH5-TEG Dehydration PStreams |
| RH6-TEG Dehy Still Vent Heating Value | 2162.03 | Btu/scf | RH6-TEG Dehydration Pstreams |
| RH5-AMINE Amine Still Vent Heating Value | 9.27 | Btu/scf | RH5-AMINE Max Flowrate Pstream |
| RH5-TEG Dehy Still Vent Gas Flow rate | 1955.69 | scf/hr | RH5-TEG Dehydration PStreams |
| RH6-TEG Dehy Still Vent Gas Flow rate | 2264.01 | scf/hr | RH6-TEG Dehydration Pstreams |
| RH5-AMINE Amine Still Vent Gas Flow rate | 683156.41 | scf/hr | RH5-AMINE Max Flowrate Pstream |
| Total Heating Value | 24.15 | Btu/scf | Calculated |
| Total Flow | 687376.11 | scf/hr | Calculated |
| Total Heating Value | 16.60 | MMBtu/hr | Calculated |
| Flow Rate with Safety Factor | 10% | % | Safety Factor |
| Hourly Flow Rate with Safety Factor | 756113.72 | scf/hr | Flow with safety factor |
| Annual Flow Rate with Safety Factor | 6623.56 | MMscf/yr | |
| Heating Rate | 18.26 | MMBtu/hr | |
| **Pilot** | **Value** | **Unit** | **Notes** |
| Hourly Volume Flow Rate | 54376.81 | scf/hr | Calculated Flow Rate (Goal Seek) |
| | 0.054 | MMscf/hr | |
| Natural Gas Heat Value | 1043.50 | Btu/scf | Facility Specification |
| Hourly Heat Rate | 56.74 | MMBtu/hr | Maximum burner heat release minus heating value of combusted stream |
| Annual Heat Rate | 497061.71 | MMBtu/yr | |

| Parameter | VOC | HAPs | $H_2S$ | Units |
|---|---|---|---|---|
| RH5-TEG Dehy Still Vent | 1067.00 | 308.52 | 0 | ton/yr |
| RH6-TEG Dehy Still Vent | 991.80 | 326.78 | 0.039 | ton/yr |
| RH5-AMINE Still Vent | 387.40 | 248.41 | 28.34 | ton/yr |
| **Total** | **2446.20** | **883.71** | **28.38** | **tons/yr** |

***Emission Rates***

| | $NO_x$[3] | CO[3] | VOC[1,2] | $SO_2$[2] | $H_2S$ | PM | HAPs[1,2] | Units | Notes |
|---|---|---|---|---|---|---|---|---|---|
| Emission Factors | | | 5.50 | | | 7.60 | | lb/MMscf | AP 42: Chapter 1.4 Table 1.4-1. Flare Factors[4] |
| | | | 5.63 | | | 7.78 | | lb/MMscf | Adjusted for Pilot, Purge, and Assist |
| | | | | | | 0.18 | | lb/MMscf | Adjusted for Streams Controlled |
| | 50.00 | 50.00 | | | | | | ppm | BACT limit |
| | 46 | 28 | | | | | | lb/lb-mol | molecular weight |
| | | | | | 0.25 | | | gr S/ 100 Scf | |
| | | | 10% | | 10% | | 10% | % | Safety Factor |
| | | | 2690.82 | | 31.22 | | 972.08 | tpy | Emission with Safety Factor |
| Pilot Emissions | 0.08 | 0.05 | 0.31 | 0.036 | 1.94E-04 | 0.42 | - | lb/hr | hourly rate |
| | 0.36 | 0.22 | 1.34 | 0.16 | 8.51E-04 | 1.85 | - | tpy | 8760 hr/yr/2000 lb/ton |
| Process Emissions | 1.16 | 0.70 | 6.14 | 14.11 | 0.07 | 0.14 | 2.22 | lb/hr | hourly rate |
| | 5.07 | 3.08 | 26.91 | 61.82 | 0.31 | 0.60 | 9.72 | tpy | 8760 hr/yr/2000 lb/ton |
| *SSM Emissions* | *0.16* | *0.10* | *0.13* | *1.59E+00* | *8.54E-03* | *8.61E-03* | *8.12E-02* | *lb/hr* | *Referenced from SSM Workbook Section* |
| | *4.61E-01* | *2.81E-01* | *2.09E-04* | *7.95E-04* | *4.27E-06* | *1.25E-05* | *4.06E-05* | *tpy* | *Referenced from SSM Workbook Section* |
| Total Emissions | **1.24** | **0.75** | **6.45** | **14.15** | **0.07** | **0.56** | **2.22** | lb/hr | Maximum of Steady State and SSM |
| | **5.89** | **3.59** | **28.25** | **61.98** | **0.31** | **2.45** | **9.72** | tpy | Pilot + Process + SSM Emissions |

[1] Efficiency for combustion of VOC, $H_2S$ and HAPs for TO is: 99% lb/hr emission rate based on DRE of flare: lb/hr * (1 - DRE)

[2] Fuel $H_2S$ content is assumed to be: 0.25 gr/100 Scf

[3] $NO_X$ & CO emission factors are based on BACT limit and manufacturer guarantee.

[4] PV= nRT = n = PV/RT

P= 1.00 ATM
Gas Constant, R= 1.31 (atm*ft3)/(lb-mole*K)
T= 1600.00 °F = 871.111 °C = 1144.2611 K

"-" Indicates emissions of this pollutant are not expected

| Greenhouse Emissions | | | | | | |
|---|---|---|---|---|---|---|
| | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$[5] | Units | Notes |
| Emission Factors | 1 | 28 | 265 | - | - | GWP |
| | 53.06 | 1.00E-03 | 0.0001 | - | kg/MMBtu | 40 CFR 98 Subpart C, Table C-1 & C-2 |
| Total Emissions | 8,773.30 | 0.17 | 0.017 | - | lb/hr | EF (kg/MMBtu) * (2.20 lb/kg) * Heat Input (MMBtu/hr) |
| | 38,427.04 | 0.72 | 0.072 | 38,466.51 | tpy | GHG (lb/hr) * Operating Hours (hr/yr) / (2000 lb/ton) |

[5] $CO_2e$ (tpy) = $CO_2$ (tpy) * $GWP_{CO2}$ + $CH_4$ (tpy) * $GWP_{CH4}$ + $N_2O$ (tpy) * $GWP_{N2O}$

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# Thermal Oxidizer Downtime

Emission Unit: RH5-TO-55500-SSM
Source Description: RH5 Thermal Oxidizer (RH5-TO-55500) - SSM Atmospheric Venting
Annual Downtime: 175.2 hrs/yr

| | Uncontrolled Emissions |
|---|---|
| | RH5-AMINE |
| **Components** | **lb/hr** |
| H2S | 6.47 |
| Helium | 0.00 |
| Oxygen | 0.00 |
| Argon | 0.00 |
| N2 | 0.31 |
| CO2 | 74,373.71 |
| C1 | 74.92 |
| C2 | 42.01 |
| C3 | 18.24 |
| iC4 | 1.89 |
| nC4 | 7.96 |
| iC5 | 0.46 |
| nC5 | 0.80 |
| Neopentane | 0.00 |
| 2,2-Dimethylbutane | 0.01 |
| 2,3-Dimethylbutane | 0.01 |
| Cyclopentane | 0.21 |
| 2-Methylpentane | 0.11 |
| 3-Methylpentane | 0.05 |
| Benzene | 40.68 |
| Cyclohexane | 1.18 |
| Methylcyclopentane | 0.31 |
| C6 | 0.10 |
| 3-Methylhexane | 0.00 |
| 2,2-Dimethylpentane | 0.00 |
| 2,3-Dimethylpentane | 0.00 |
| 2,4-Dimethylhexane | 0.00 |
| Ethylcyclopentane | 0.00 |
| 2,4-Dimethylpentane | 0.00 |
| 2-Methylhexane | 0.00 |
| 3-3-Dimethylpentane | 0.00 |
| 1,cis-3-Dimethylcyclopentan | 0.01 |
| 3-Ethylpentane | 0.00 |
| Cycloheptane | 0.02 |
| Methylcyclohexane | 0.05 |
| 2,2-Dimethylhexane | 0.00 |
| n-Heptane | 0.00 |
| Toluene | 14.43 |
| trans-1,2-Dimethylcyclopent | 0.00 |
| cis-1,2-Dimethylcyclopentan | 0.00 |
| trans-1,3-Dimethylcyclopent | 0.01 |
| 1-Ethyl-1-Methylcyclopentan | 0.04 |
| 2,2,3-Trimethylpentane | 0.00 |
| 2,3,4-Trimethylpentane | 0.00 |
| 2,5-Dimethylhexane | 0.00 |
| 2-Methylheptane | 0.00 |
| 4-Methylheptane | 0.00 |
| 3,3-Dimethylhexane | 0.00 |
| 3-Methylheptane | 0.00 |
| cis-1,2-Dimethylcyclohexane | 0.00 |
| cis-1,3-Dimethylcyclohexane | 0.00 |
| Cyclooctane | 0.00 |
| Ethylbenzene | 0.40 |
| Ethylcyclohexane | 0.00 |
| m-Xylene | 0.42 |
| p-Xylene | 0.43 |
| n-Octane | 0.00 |
| o-Xylene | 0.24 |
| trans-1,3-Dimethylcyclohexa | 0.00 |
| 1,1,2-Trimethylcyclohexane | 0.00 |
| 1,2,3-Trimethylbenzene | 0.13 |
| 1,2,4-Trimethylbenzene | 0.00 |
| tert-Butylbenzene | 0.00 |
| 1,3,5-Trimethylbenzene | 0.07 |
| 2,2,3-Trimethylhexane | 0.00 |
| 2,2,4-Trimethylhexane | 0.00 |
| 2,2-Dimethylheptane | 0.00 |
| 2,3,4-Trimethylhexane | 0.00 |
| 2,4,4-Trimethylhexane | 0.00 |
| 2,5-Dimethylheptane | 0.00 |
| 2-Methyloctane | 0.00 |
| 3,4-Dimethylheptane | 0.00 |
| Isopropylbenzene | 0.00 |
| 1,1,3-Trimethylcyclopentane | 0.00 |
| m-Ethyltoluene | 0.02 |
| p-Ethyltoluene | 0.03 |
| n-Nonane | 0.00 |
| Propylbenzene | 0.10 |
| Propylcyclohexane | 0.00 |
| 4-Methylnonane | 0.00 |
| n-Decane | 0.00 |
| nC11 | 0.00 |
| nC12 | 0.00 |
| nC13 | 0.00 |
| nC14 | 0.00 |
| nC15 | 0.00 |
| H2O | 2,022.17 |
| CHEMTHERM 550 | 0.00 |
| UCARSOL™ AP-814 | 0.00 |
| MDEA | 0.00 |
| Piperazine | 0.00 |
| **Total VOC:** | 88.47 |
| **Total HAPs:** | 56.71 |
| **Total H2S:** | 6.47 |

| | Thermal Oxidizer Downtime | |
|---|---|---|
| | Total | |
| **Components** | **lb/hr** | **ton/yr** |
| **Total VOC:** | 88.47 | 7.75 |
| **Total HAPs:** | 56.71 | 4.97 |
| **Total $H_2S$:** | 6.47 | 0.57 |
| | **lb/hr** | **ton/yr** |
| **Total $CO_2$:** | 74,373.71 | 6515.14 |
| **Total $CH_4$:** | 74.92 | 6.56 |

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**Flare Calculation Inputs**

| **RH1, FLARE** | | | | |
|---|---|---|---|---|
| **Parameter** | **Value** | **Unit** | | **Notes** |
| Unit ID | RH1-FL-29-1003 | | | |
| Control Efficiency | 98% | % | DRE | |
| Pilot Flow Rate | 291.00 | scf/hr | Flare Design | |
| Purge Flow Rate | 2000.00 | scf/hr | Flare Design | |

| **RH2, FLARE** | | | | |
|---|---|---|---|---|
| **Parameter** | **Value** | **Unit** | | **Notes** |
| Unit ID | RH2-FL-5100 | | | |
| Control Efficiency | 98% | % | DRE | |
| Pilot Flow Rate | 65.00 | scf/hr | Flare Design | |
| Purge Flow Rate | 2500.00 | scf/hr | Flare Design | |

| **RHA, FLARE** | | | | |
|---|---|---|---|---|
| **Parameter** | **Value** | **Unit** | | **Notes** |
| Unit ID | RHA-FL-5100 | | | |
| Control Efficiency | 98% | % | DRE | |
| Pilot Flow Rate | 1065.00 | scf/hr | Flare Design | |

| **RH3, FLARE** | | | | |
|---|---|---|---|---|
| **Parameter** | **Value** | **Unit** | | **Notes** |
| Unit ID | RH3-FL-5100 | | | |
| Manufacturer's Capacity | 200 | MMSCFD | Flare Design | |
| Control Efficiency | 98% | % | DRE | |
| Pilot Flow Rate | 65.00 | scf/hr | Flare Design | |
| Purge Flow Rate | 2500.00 | scf/hr | Flare Design | |

| **RH4, FLARE** | | | | |
|---|---|---|---|---|
| **Parameter** | **Value** | **Unit** | | **Notes** |
| Unit ID | RH4-FL-45100 | | | |
| Manufacturer's Capacity | 200 | MMSCFD | Flare Design | |
| Control Efficiency | 98% | % | DRE | |
| Pilot Flow Rate | 65.00 | scf/hr | Flare Design | |
| Purge Flow Rate | 2500.00 | scf/hr | Flare Design | |

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*
**Flare Calculation Inputs**

| RHA, SOUR SLOP WATER STORAGE TANKS FLARE | | | |
|---|---|---|---|
| **Parameter** | **Value** | **Unit** | **Notes** |
| Unit ID | RHA-FL-5850 | | |
| Control Efficiency | 98% | % | DRE |
| Pilot Flow Rate | 100.00 | scf/hr | Flare Design |
| Streams Controlled | A-TK-SLOP, RHA-TK-SLOP-LOAD | | |

| RH5, FLARE | | | |
|---|---|---|---|
| **Parameter** | **Value** | **Unit** | **Notes** |
| Unit ID | RA2-FL-25100 | | |
| Control Efficiency | 98% | % | DRE |
| Pilot Flow Rate | 244.00 | scf/hr | Flare Design |
| Purge Flow Rate | 4500.00 | scf/hr | Flare Design |

| RHA, FLARE | | | |
|---|---|---|---|
| **Parameter** | **Value** | **Unit** | **Notes** |
| Unit ID | RHA-FL-5100 | | |
| Control Efficiency | 98% | % | DRE |
| Pilot Flow Rate | 65.00 | scf/hr | Flare Design |

| RA2, SOUR SLOP WATER STORAGE TANKS FLARE | | | |
|---|---|---|---|
| **Parameter** | **Value** | **Unit** | **Notes** |
| Unit ID | RA2-FL-25850 | | |
| Control Efficiency | 98% | % | DRE |
| Pilot Flow Rate | 100.00 | scf/hr | Flare Design |
| Streams Controlled | 2-TK-SLOP, RA2-TK-SLOP-LOAD | | |

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# RH1, FLARE

Emission Unit: RH1-FL-29-1003
Source Description: RH1, FLARE
Destruction Efficiency: 98%

| Flare Information | |
|---|---|
| Unit(s): | RH1-FL-29-1003 |
| Unit Count: | 1 |
| Annual Operating Hours: | 8,760 |
| Combustion Efficiency (%): | 98% |

**Pilot and Purge Input Information**

| Activity | Parameters | Value | Unit | Notes: |
|---|---|---|---|---|
| Pilot | Hourly Volume Flow Rate | 291.00 | scf/hr | Design Specification |
| | Natural Gas Heat Value | 1043.50 | BTU/scf | Inlet Gas Analysis |
| | Annual Volume Flow Rate | 2.55 | MMscf/yr | |
| | Hourly Heat Rate | 0.30 | MMBtu/hr | |
| | Annual Heat Rate | 2660.05 | MMBtu/yr | |
| Purge | Hourly Volume Flow Rate | 2000.00 | scf/hr | Design Specification |
| | Natural Gas Heat Value | 1043.50 | BTU/scf | Inlet Gas Analysis |
| | Annual Volume Flow Rate | 17.52 | MMscf/yr | |
| | Hourly Heat Rate | 2.09 | MMBtu/hr | |
| | Annual Heat Rate | 18282.12 | MMBtu/yr | |

***VOC Heat Input and Flow Rate Calculation***

| Parameters | Value | Unit | Notes |
|---|---|---|---|
| RH1-TEG Dehy Still Vent VOC Emissions | 279.95 | tpy | RH1-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH1-TEG Dehy Still Vent HAP Emissions | 61.46 | tpy | RH1-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH1-TEG Dehy Still Vent H2S Emissions | 0.33 | tpy | RH1-TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH1-TEG Dehy Still Vent Heating Value | 2100.84 | Btu/scf | RH1-TEG Dehydration ProMax PStream |
| RH1-TEG Dehy Still Vent Gas Flow rate | 731.86 | scf/hr | RH1-TEG Dehydrator Uncontrolled Regenerator Overheads |
| Total Heating Value | 2100.84 | Btu/scf | Heating value of stream routed to RH1-FL-29-1003 |
| Total Flow | 731.86 | scf/hr | Combined flow rate of all streams routed to RH1-FL-29-1003 |
| Total Heating Value | 1.54 | MMBtu/hr | |
| Flow Rate with Safety Factor | 10% | % | Safety Factor |
| Hourly Flow Rate with Safety Factor | 805.05 | scf/hr | Flow with safety factor |
| Annual Flow Rate with Safety Factor | 7.05 | MMscf/yr | |
| Heating Rate | 1.69 | MMBtu/hr | |

***AOS SSM VOC Heat Input and Flow Rate Calculation***

| Parameters | Value | Unit | Notes |
|---|---|---|---|
| RH1-AMINE Amine Flash Gas VOC Emissions | 145.29 | tpy | RH1-AMINE Flash Gas |
| RH1-AMINE Amine Flash Gas HAP Emissions | 5.82 | tpy | RH1-AMINE Flash Gas |
| RH1-AMINE Amine Flash Gas H2S Emissions | 0.017 | tpy | RH1-AMINE Flash Gas |
| RH1-AMINE Amine Flash Gas Heating Value | 1018.22 | Btu/scf | RH1-AMINE ProMax Streams |
| RH1-AMINE Amine Flash Gas Flow rate | 4157.48 | scf/hr | RH1-AMINE Flash Gas |
| Total Heating Value | 4.23 | MMBtu/hr | |
| Flow Rate with Safety Factor | 10% | % | Safety Factor |
| Hourly Flow Rate with Safety Factor | 4573.23 | scf/hr | Flow with Safety Factor |
| Annual Flow Rate with Safety Factor | 1.54 | MMscf/yr | 336 hr/yr |
| Heating Rate | 4.66 | MMBtu/hr | |

**Emission Rate Calculations**

| Description | $NO_x$[1] | CO[1] | VOC | $SO_2$[1] | $H_2S$[1] | HAPs | Units | Notes |
|---|---|---|---|---|---|---|---|---|
| Emission Factors | 0.138 | 0.2755 | | | | | lb/MMBtu | TNRCC RG-109 (high Btu; other) |
| | | | 5.5 | | | | lb/MMscf | Ap-42 Chapter 1.4 Table 1.4-1 |
| | | | 5.63 | | | | lb/MMscf | Adjusted for Pilot/Purge |
| | | | 10% | | 10% | 10% | | Process and AOS SSM Safety Factor |
| Fuel Sulfur and $H_2S$ Content | | | | | 0.25 | | gr $H_2S$ /100scf | Pilot gas $H_2S$ content |
| | | | | | 3.57E-04 | | lb $H_2S$/Mscf | |
| Pilot Emissions | 0.042 | 0.084 | 1.64E-03 | 1.92E-04 | 3.83E-06 | - | lb/hr | |
| | 0.18 | 0.37 | 7.17E-03 | 8.40E-04 | 1.68E-05 | - | tpy | |
| Purge Emissions | 0.29 | 0.57 | 0.011 | 1.318E-03 | 2.64E-05 | - | lb/hr | |
| | 1.26 | 2.52 | 0.049 | 5.771E-03 | 1.15E-04 | - | tpy | |
| RH1-TEG Dehy Still Vent Emissions | 0.23 | 0.47 | 1.41 | 0.15 | 1.66E-03 | 0.31 | lb/hr | |
| | 1.02 | 2.04 | 6.16 | 0.65 | 7.27E-03 | 1.35 | tpy | |
| *SSM Emissions* | *211.12* | *1810.15* | *291.07* | *1.88* | *0.022* | *4.17* | *lb/hr* | *Referenced from SSM calculation workbook.* |
| | *1.46* | *11.61* | *0.89* | *0.01* | *1.44E-04* | *6.72E-03* | *tpy* | *Referenced from SSM calculation workbook.* |
| AOS SSM Emissions | 0.64 | 1.28 | 0.73 | 7.75E-03 | 8.40E-05 | 0.029 | lb/hr | RH1-AMINE routed to flare during AOS |
| | 0.11 | 0.22 | 0.12 | 1.30E-03 | 1.41E-05 | 4.91E-03 | tpy | 336 hr/yr |
| **Total Process Emissions** | **0.56** | **1.12** | **1.42** | **0.15** | **1.69E-03** | **0.31** | lb/hr | Pilot + Purge + Dehy |
| | **2.47** | **4.93** | **6.22** | **0.65** | **7.40E-03** | **1.35** | tpy | Pilot + Purge + Dehy |
| **Total SSM Emissions** | **211.12** | **1810.15** | **291.07** | **1.88** | **0.022** | **4.17** | lb/hr | (Maximum of SSM and AOS SSM) |
| | **1.56** | **11.83** | **1.01** | **0.013** | **1.59E-04** | **0.012** | tpy | (Sum of SSM and AOS SSM) |
| **Total Emissions** | **211.68** | **1811.27** | **292.49** | **2.02** | **0.024** | **4.48** | lb/hr | Maximum of Process and SSM Emissions |
| | **4.03** | **16.76** | **7.22** | **0.67** | **7.56E-03** | **1.36** | tpy | Sum of All Process and SSM Emissions |

Notes:

(1) Flare $NO_x$ and CO emission factors: TNRCC RG-109 (high Btu; other). $SO_2$: Mass balance assuming 98% combustion of $H_2S$ and 100% conversion of combusted $H_2S$ to $SO_2$:
Pilot Gas $SO_2$ Emissions (lb/hr) = [(Pilot Gas Flow (Mscf/hr) * Fuel Gas Sulfur Content (lb S/Mscf)*(64 lb/lbmol $SO_2$ / 32 lb/lbmol S)) + ( Pilot Gas Flow (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf)*(64 lb/lbmol $SO_2$ /34 lb/lbmol $H_2S$)*(DRE))]
Pilot Gas $H_2S$ Emissions (lb/hr) = [ Pilot Gas Flow Rate (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf) * (1 - DRE) ]
Process $SO_2$ Emissions (lb/hr) = [ $H_2S$ Mass Flow Rate (lb/hr) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$) ]
Process $SO_2$ Emissions (tpy) = [ $H_2S$ Mass Flow Rate (tpy) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$) ]

(2) VOC, HAP and $H_2S$ emissions estimated based on event stream routed to flare and 98% efficiency. A 10% safety factor is applied to VOC, HAP and $H_2S$ emissions.

(3) Flare stream includes pipeline gas sent to the flare.

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## Flare GHG Emisssions

**§98.233(n) Flare stack GHG emissions.**

**Step 1. If necessary, convert volume of gas sent to flare from actual to standard conditions using Equation W-33**

$$E_{s,n} = \frac{E_{a,n} * (459.67 + T_s) * P_a}{(459.67 + T_a) * P_s * Z_a}$$ *(Equation W-33)*

where:

$E_{s,n}$ = Natural gas volumetric emissions at standard temperature and pressure (STP) conditions in cubic feet

$E_{a,n}$ = Natural gas volumetric emissions at actual conditions in cubic feet

| | | | |
|---|---|---|---|
| $T_s$ = Temperature at standard conditions (F) = | 60 | °F | |
| $T_a$ = Temperature at actual conditions (F) = | 75.8 | °F | (Based on Annual Avg Max Tempurature for Roswell, NM from AP-42 Chapter 7) |
| $P_s$ = Absolute pressure at standard conditions (psia) = | 14.7 | psia | |
| $P_a$ = Absolute pressure at actual conditions (psia) = | 12.88 | psia | (Based on Avg Atmospheric Pressure for Roswell, NM from AP-42 Chapter 7) |
| $Z_a$ = Compressibility factor at actual conditions for natural gas | 1 | (default value) | |

**Step 2. Calculate $CO_2$ and $CH_4$ Emissions from Flaring at standard conditions using Equations W-19 & W-20**

$E_{s,CH4} = V_s * X_{CH4} * [ (1 - \eta) * Z_L + Z_U ]$ (Equation W-19)

$E_{s,CO2} = V_s * X_{CO2} * \Sigma (\eta * V_s * Y_j * R_j * Z_L)$ (Equation W-20)

where:

$E_{s,CH4}$ = Annual $CH_4$ emissions from flare stack in cubic feet, at standard conditions

$E_{s,CO2}$ = Annual $CO_2$ emissions from flare stack in cubic feet, at standard conditions

$V_s$ = Volume of gas sent to flare in standard cubic feet

$\eta$ = Flare combustion efficiency, expressed as fraction of gas combusted by a burning flare 0.98 (default value)

$X_{CH4}$ = Mole fraction of $CH_4$ in the feed gas to the flare

| Pilot Gas | Purge Gas | Process Gas | AOS SSM |
|---|---|---|---|
| 0.8467 | 0.8467 | 0.084 | 0.628 |

$X_{CO2}$ = Mole fraction of $CO_2$ in the feed gas to the flare

| Pilot Gas | Purge Gas | Process Gas | AOS SSM |
|---|---|---|---|
| 0.0344 | 0.0344 | 0.143 | 0.201 |

$Z_U$ = Fraction of the feed gas sent to an un-lit flare determined by engineering estimate and process knowledge based on best available data and operating records

$Z_L$ = Fraction of the feed gas sent to a burning flare (equal to 1 − $Z_U$) 1 (assumes all gas is sent to burning flare)

$Y_j$ = Mole fraction of hydrocarbon constituents j in the feed gas to the flare

| | Pilot Gas | Purge Gas | Process Gas | AOS SSM |
|---|---|---|---|---|
| Constituent j, Methane = | 0.8467 | 0.8467 | 0.0837 | 0.6280 |
| Constituent j, Ethane = | 0.0896 | 0.0896 | 0.1264 | 0.1131 |
| Constituent j, Propane = | 0.0090 | 0.0090 | 0.1610 | 0.0426 |
| Constituent j, Butane = | 0.0003 | 0.0003 | 0.1402 | 0.0163 |
| Constituent j, Pentanes Plus = | 0.0002 | 0.0002 | 0.2246 | 0.0051 |

$R_j$ = Number of carbon atoms in the hydrocarbon constituent j in the feed gas to the flare

| | |
|---|---|
| Constituent j, Methane = | 1 |
| Constituent j, Ethane = | 2 |
| Constituent j, Propane = | 3 |
| Constituent j, Butane = | 4 |
| Constituent j, Pentanes Plus = | 5 |

**Step 3. Calculate $CO_2$ and $CH_4$ mass emissions using Equation W-36 (98.233(v))**

$Mass_i = E_{s,i} * \rho_i * 10^{-3}$ (Equation W-36)

where:

$Mass_i$ = $GHG_i$ (either $CH_4$ or $CO_2$) mass emissions in metric tons

$E_{s,i}$ = $GHG_i$ (either $CH_4$ or $CO_2$) volumetric emissions at standard conditions, in cubic feet.

$\rho_i$ = Density of $GHG_i$

| | | |
|---|---|---|
| $CO_2$ = | 0.0526 | $kg/ft^3$ |
| $CH_4$ = | 0.0192 | $kg/ft^3$ |

**Step 4. Calculate N2O mass emissions using Equation W-40 (98.233(z))**

$Mass_{N2O} = (1* 10^{-3}) * Fuel * HHV * EF$ *(Equation W-40)*

where:

$Mass_{N2O}$ = Annual $N_2O$ emissions from the combustion of a particular type of fuel (metric tons)

Fuel = Annual mass or volume of the fuel combusted (mass or volume per year, choose appropriately to be consistent with the units of HHV).

HHV = high heat value of the fuel

| Pilot Gas | Purge Gas | Process Gas | AOS SSM | |
|---|---|---|---|---|
| 0.0010 | 0.0010 | 0.0021 | 0.0010 | MMBtu/scf |

**Step 5. Calculate total annual emission from flare by summing Equations W-36 and W-40.**

| Gas Sent to Flare | Gas Sent to Flare (acf/yr) | Gas Sent to Flare (scf/yr) | Annual $CO_2$ Emissions (scf) | Annual $CH_4$ Emissions (scf) | Combusted $CO_2$ Mass Emissions (mtpy) | Uncombusted $CH_4$ Mass Emissions (mtpy) | $N_2O$ Mass Emissions (mtpy) | Combusted $CO_2$ Mass Emissions (tpy) | Uncombusted $CH_4$ Mass Emissions (tpy) | $N_2O$ Mass Emissions (tpy) | $CO_2e$ Mass Emissions (tpy) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pilot Gas** | 2,997,823.54 | 2,549,160.00 | 2,723,983.25 | 43,165.997 | 143.28 | 0.83 | 2.66E-04 | 157.94 | 0.91 | 2.93E-04 | 183.60 |
| **Purge Gas** | 20,603,598.19 | 17,520,000.00 | 18,721,534.35 | 296,673.518 | 984.75 | 5.70 | 1.83E-03 | 1,085.50 | 6.28 | 2.02E-03 | 1,261.85 |
| **Process Gas** | 8,293,434.15 | 7,052,213.16 | 18,313,236 | 11,812.30 | 963.28 | 0.23 | 1.48E-03 | 1,061.83 | 0.25 | 1.63E-03 | 1,069.26 |
| **AOS SSM** | 1,807,053.94 | 1,536,604.66 | 1,924,443 | 19,299.31 | 101.23 | 0.37 | 1.56E-04 | 111.58 | 0.41 | 1.72E-04 | 123.06 |
| | | | | | | | **Total** | **2,416.85** | **7.85** | **4.11E-03** | **2,637.77** |
| | | | | | | | GWP | 1 | 28 | 265 | |

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## RH2, FLARE

Emission Unit: RH2-FL-5100
Source Description: RH2, FLARE
Destruction Efficiency: 98%

| Flare Information | |
|---|---|
| Unit(s): | RH2-FL-5100 |
| Unit Count: | 1 |
| Annual Operating Hours: | 8,760 |
| Combustion Efficiency (%): | 98% |

| Pilot Input Information | | | | |
|---|---|---|---|---|
| **Activity** | **Parameters** | **Value** | **Unit** | **Notes:** |
| Pilot | Hourly Volume Flow Rate | 65.00 | scf/hr | Design Specification |
| | Natural Gas Heat Value | 1043.5 | BTU/scf | Inlet Gas Analysis |
| | Annual Volume Flow Rate | 0.5694 | MMscf/yr | |
| | Hourly Heat Rate | 0.07 | MMBtu/hr | |
| | Annual Heat Rate | 594.17 | MMBtu/yr | |
| Purge | Hourly Volume Flow Rate | 2500.00 | scf/hr | Design Specification |
| | Natural Gas Heat Value | 1043.5 | BTU/scf | Inlet Gas Analysis |
| | Annual Volume Flow Rate | 21.9 | MMscf/yr | |
| | Hourly Heat Rate | 2.61 | MMBtu/hr | |
| | Annual Heat Rate | 22852.65 | MMBtu/yr | |

***AOS SSM VOC Heat Input and Flow Rate Calculation***

| Parameters | Value | Unit | Notes |
|---|---|---|---|
| RH2-AMINE Amine Flash Gas VOC Emissions | 671.98 | tpy | RH2-AMINE Flash Gas |
| RH2-AMINE Amine Flash Gas HAP Emissions | 28.42 | tpy | RH2-AMINE Flash Gas |
| RH2-AMINE Amine Flash Gas H2S Emissions | 0.11 | tpy | RH2-AMINE Flash Gas |
| RH2-AMINE Amine Flash Gas Heating Value | 1087.00 | Btu/scf | RH2-AMINE ProMax Streams |
| RH2-AMINE Amine Flash Gas Flow rate | 22040.71 | scf/hr | RH2-AMINE Flash Gas |
| Total Heating Value | 23.96 | MMBtu/hr | |
| Flow Rate with Safety Factor | 10% | % | Safety Factor |
| Hourly Flow Rate with Safety Factor | 24244.78 | scf/hr | Flow with safety factor |
| Annual Flow Rate with Safety Factor | 8.15 | MMscf/yr | (336 hr/yr) |
| Heating Rate | 26.35 | MMBtu/hr | |

***Dehy AOS SSM VOC Heat Input and Flow Rate Calculation***

| Parameters | Value | Unit | Notes |
|---|---|---|---|
| TO Downtime | 336.00 | hours/yr | Assumed 2 weeks per year (336 hr/yr) |
| RH2-TEG & RH3-TEG Dehy Regen VOC Emissions | 25.83 | tpy | Train 2 and Train 3 TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH2-TEG & RH3-TEG Dehy Regen HAP Emissions | 7.09 | tpy | Train 2 and Train 3 TEG Dehydrator Uncontrolled Regenerator Overheads |
| RH2-TEG & RH3-TEG Dehy Regen Heating Value | 2690.18 | Btu/scf | Average of both TEG Dehydration ProMax Pstreams |
| RH2-TEG & RH3-TEG Dehy Regen Flow rate | 2711.01 | scf/hr | TEG Dehydration ProMax Pstream |
| Total Heating Value | 7.29 | MMBtu/hr | |
| Flow Rate with Safety Factor | 10% | % | Safety Factor |
| Hourly Flow Rate with Safety Factor | 2982.11 | scf/hr | Flow with safety factor |
| Annual Flow Rate with Safety Factor | 1.00 | MMscf/yr | Assumed 2 weeks per year (336 hr/yr) |
| Heating Rate | 8.02 | MMBtu/hr | |

**Emission Rate Calculations**

| Description | $NO_x$[1] | CO[1] | VOC | $SO_2$[1] | $H_2S$[1] | HAPs | Units | Notes |
|---|---|---|---|---|---|---|---|---|
| Emission Factors | 0.138 | 0.2755 | | | | | lb/MMBTU | TNRCC RG-109 (high Btu; other) |
| | | | 5.5 | | | | lb/MMscf | Ap-42 Chapter 1.4 Table 1.4-1 |
| | | | 5.63 | | | | lb/MMscf | Adjusted for Pilot/Purge |
| | | | 10% | | | 10% | | AOS SSM Safety Factor |
| Fuel Sulfur and $H_2S$ Content | | | | | 2.50E-01 | | gr $H_2S$ /100scf | Pilot gas $H_2S$ content |
| | | | | | 3.57E-04 | | lb $H_2S$/Mscf | |
| Pilot Emissions | 9.36E-03 | 0.019 | 3.66E-04 | 4.28E-05 | 3.25E-04 | - | lb/hr | |
| | 0.041 | 0.082 | 1.60E-03 | 1.88E-04 | 1.42E-03 | - | tpy | |
| Purge Emissions | 0.36 | 0.72 | 0.014 | 1.65E-03 | 1.79E-05 | - | lb/hr | |
| | 1.58 | 3.15 | 0.062 | 7.21E-03 | 7.82E-05 | - | tpy | |
| *SSM Emissions* | *562.98* | *4,827.06* | *243.60* | *5.000* | *0.06* | *0.904* | *lb/hr* | *Referenced from SSM calculation workbook.* |
| | *3.59* | *29.82* | *0.99* | *0.03* | *3.61E-04* | *4.12E-03* | *tpy* | *Referenced from SSM calculation workbook.* |
| AOS SSM Emissions | 3.64 | 7.26 | 3.38 | 0.050 | 5.37E-04 | 0.143 | lb/hr | RH2-AMINE routed to flare during AOS |
| | 0.61 | 1.22 | 0.57 | 8.33E-03 | 9.03E-05 | 0.02 | tpy | Assumed 2 weeks per year (336 hr/yr) |
| Dehy AOS SSM Emissions | 1.11 | 2.21 | 0.13 | - | - | 0.04 | lb/hr | RH2-TEG & RH3-TEG routed to flare during AOS |
| | 0.19 | 0.37 | 0.02 | - | - | 0.024 | tpy | Assumed 2 weeks per year (336 hr/yr) |
| **Total Emissions** | **563.35** | **4,827.80** | **243.62** | **5.00** | **0.06** | **0.90** | lb/hr | Pilot + Purge + (Maximum of SSM and AOS SSM) + Dehy AOS SSM |
| | **6.01** | **34.64** | **1.64** | **0.046** | **1.95E-03** | **0.052** | tpy | Pilot + Purge + (SUM SSM and AOS SSM) + Dehy AOS SSM |

Notes:

(1) Flare $NO_x$ and CO emission factors: TNRCC RG-109 (high Btu; other). $SO_2$: Mass balance assuming 98% combustion of $H_2S$ and 100% conversion of combusted $H_2S$ to $SO_2$:

Pilot Gas $SO_2$ Emissions (lb/hr) = [(Pilot Gas Flow (Mscf/hr) * Fuel Gas Sulfur Content (lb S/Mscf)*(64 lb/lbmol $SO_2$ / 32 lb/lbmol S)) + ( Pilot Gas Flow (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf)*(64 lb/lbmol $SO_2$ /34 lb/lbmol $H_2S$)*(DRE))]

Pilot Gas $H_2S$ Emissions (lb/hr) = [ Pilot Gas Flow Rate (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf) * (1 - DRE) ]

Process $SO_2$ Emissions (lb/hr) = [ $H_2S$ Mass Flow Rate (lb/hr) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$) ]

Process $SO_2$ Emissions (tpy) = [ $H_2S$ Mass Flow Rate (tpy) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$) ]

(2) VOC, HAP and $H_2S$ emissions estimated based on event stream routed to flare and 98% efficiency.

(3) Flare stream includes pipeline gas sent to the flare.

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## Flare GHG Emisssions

**§98.233(n) Flare stack GHG emissions.**

**Step 1. If necessary, convert volume of gas sent to flare from actual to standard conditions using Equation W-33**

$$E_{s,n} = \frac{E_{a,n} * (459.67 + T_s) * P_a}{(459.67 + T_a) * P_s * Z_a}$$ *(Equation W-33)*

where:

$E_{s,n}$ = Natural gas volumetric emissions at standard temperature and pressure (STP) conditions in cubic feet

$E_{a,n}$ = Natural gas volumetric emissions at actual conditions in cubic feet

| | | | |
|---|---|---|---|
| $T_s$ = Temperature at standard conditions (F) = | 60 | °F | |
| $T_a$ = Temperature at actual conditions (F) = | 75.8 | °F | (Based on Annual Avg Max Tempurature for Roswell, NM from AP-42 Chapter 7) |
| $P_s$ = Absolute pressure at standard conditions (psia) = | 14.7 | psia | |
| $P_a$ = Absolute pressure at actual conditions (psia) = | 12.88 | psia | (Based on Avg Atmospheric Pressure for Roswell, NM from AP-42 Chapter 7) |
| $Z_a$ = Compressibility factor at actual conditions for natural gas | 1 | (default value) | |

**Step 2. Calculate $CO_2$ and $CH_4$ Emissions from Flaring at standard conditions using Equations W-19 & W-20**

$E_{s,CH4} = V_s * X_{CH4} * [ (1 - \eta) * Z_L + Z_U ]$ (Equation W-19)

$E_{s,CO2} = V_s * X_{CO2} * \Sigma (\eta * V_s * Y_i * R_i * Z_L)$ (Equation W-20)

where:

$E_{s,CH4}$ = Annual $CH_4$ emissions from flare stack in cubic feet, at standard conditions

$E_{s,CO2}$ = Annual $CO_2$ emissions from flare stack in cubic feet, at standard conditions

$V_s$ = Volume of gas sent to flare in standard cubic feet

$\eta$ = Flare combustion efficiency, expressed as fraction of gas combusted by a burning flare 0.98 (default value)

$X_{CH4}$ = Mole fraction of $CH_4$ in the feed gas to the flare

| Pilot Gas | Purge Gas | AOS SSM |
|---|---|---|
| 0.8467 | 0.8467 | 0.6860 |

$X_{CO2}$ = Mole fraction of $CO_2$ in the feed gas to the flare

| Pilot Gas | Purge Gas | AOS SSM |
|---|---|---|
| 0.0344 | 0.0344 | 0.2459 |

$Z_U$ = Fraction of the feed gas sent to an un-lit flare determined by engineering estimate and process knowledge based on best available data and operating records

$Z_L$ = Fraction of the feed gas sent to a burning flare (equal to $1 - Z_U$) 1 (assumes all gas is sent to burning flare)

$Y_i$ = Mole fraction of hydrocarbon constituents j in the feed gas to the flare

| | Pilot Gas | Purge Gas | AOS SSM |
|---|---|---|---|
| Constituent j, Methan | 0.8467 | 0.8467 | 0.6860 |
| Constituent j, Ethane | 0.0896 | 0.0896 | 0.1213 |
| Constituent j, Propane | 0.0090 | 0.0090 | 0.0427 |
| Constituent j, Butane | 0.0003 | 0.0003 | 0.0154 |
| Constituent j, Pentane | 0.0002 | 0.0002 | 0.0049 |

$R_j$ = Number of carbon atoms in the hydrocarbon constituent j in the feed gas to the flare

| | |
|---|---|
| Constituent j, Methan | 1 |
| Constituent j, Ethane | 2 |
| Constituent j, Propane | 3 |
| Constituent j, Butane | 4 |
| Constituent j, Pentane | 5 |

**Step 3. Calculate $CO_2$ and $CH_4$ mass emissions using Equation W-36 (98.233(v))**

$Mass_i = E_{s,i} * \rho_i * 10^{-3}$ (Equation W-36)

where:

$Mass_i$ = $GHG_i$ (either $CH_4$ or $CO_2$) mass emissions in metric tons

$E_{s,i}$ = $GHG_i$ (either $CH_4$ or $CO_2$) volumetric emissions at standard conditions, in cubic feet.

$\rho_i$ = Density of $GHG_i$

| | | |
|---|---|---|
| $CO_2$ = | 0.0526 | $kg/ft^3$ |
| $CH_4$ = | 0.0192 | $kg/ft^3$ |

**Step 4. Calculate N2O mass emissions using Equation W-40 (98.233(z))**

$Mass_{N2O} = (1* 10^{-3}) * Fuel * HHV * EF$ *(Equation W-40)*

where:

$Mass_{N2O}$ = Annual $N_2O$ emissions from the combustion of a particular type of fuel (metric tons)

Fuel = Annual mass or volume of the fuel combusted (mass or volume per year, choose appropriately to be consistent with the units of HHV).

$1 * 10^{-3}$ = Conversion factor from kilograms to metric tons.

**Step 5. Calculate total annual emission from flare by summing Equations W-36 and W-40.**

| Gas Sent to Flare | Gas Sent to Flare (acf/yr) | Gas Sent to Flare (scf/yr) | Annual $CO_2$ Emissions (scf) | Annual $CH_4$ Emissions (scf) | Combusted $CO_2$ Mass Emissions (mtpy) | Uncombusted $CH_4$ Mass Emissions (mtpy) | $N_2O$ Mass Emissions (mtpy) | Combusted $CO_2$ Mass Emissions (tpy) | Uncombusted $CH_4$ Mass Emissions (tpy) | $N_2O$ Mass Emissions (tpy) | $CO_2e$ Mass Emissions (tpy) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pilot Gas** | 669,616.94 | 569,400.00 | 608,449.87 | 9,641.889 | 32.00 | 0.19 | 5.94E-05 | 35.28 | 0.20 | 6.55E-05 | 41.01 |
| **Purge Gas** | 25,754,497.73 | 21,900,000.00 | 23,401,917.94 | 370,841.898 | 1,230.94 | 7.12 | 2.29E-03 | 1,356.88 | 7.85 | 2.52E-03 | 1,577.31 |
| **AOS SSM** | 10,758,368.02 | 9,148,237.41 | 12,495,363 | 125,513.96 | 657.26 | 2.41 | 9.94E-04 | 724.50 | 2.66 | 1.10E-03 | 799.17 |
| | | | | | | | **Total** | **2,116.66** | **10.71** | **3.68E-03** | **2,417.49** |
| | | | | | | | GWP | 1 | 28 | 265 | |

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## RH3, FLARE

Emission Unit: RH3-FL-5100
Source Description: RH3, FLARE
Destruction Efficiency: 98%

| Flare Information | |
|---|---|
| Unit(s): | RH3-FL-5100 |
| Unit Count: | 1 |
| Annual Operating Hours: | 8,760 |
| Combustion Efficiency (%): | 98% |

| Pilot and Purge Input Information | | | | |
|---|---|---|---|---|
| **Activity** | **Parameters** | **Value** | **Unit** | **Notes:** |
| Pilot | Hourly Volume Flow Rate | 65.00 | scf/hr | Design Specification |
| | Natural Gas Heat Value | 1043.50 | BTU/scf | Inlet Gas Analysis |
| | Annual Volume Flow Rate | 0.57 | MMscf/yr | |
| | Hourly Heat Rate | 0.07 | MMBtu/hr | |
| | Annual Heat Rate | 594.17 | MMBtu/yr | |
| Purge | Hourly Volume Flow Rate | 2500.00 | scf/hr | Design Specification |
| | Natural Gas Heat Value | 1043.50 | BTU/scf | Inlet Gas Analysis |
| | Annual Volume Flow Rate | 21.90 | MMscf/yr | |
| | Hourly Heat Rate | 2.61 | MMBtu/hr | |
| | Annual Heat Rate | 22852.65 | MMBtu/yr | |

**Emission Rate Calculations**

| Description | $NO_x$[1] | CO[1] | VOC | $SO_2$[1] | $H_2S$[1] | HAPs | Units | Notes |
|---|---|---|---|---|---|---|---|---|
| Emission Factors | 0.138 | 0.2755 | | | | | lb/MMBTU | TNRCC RG-109 (high Btu; other) |
| | | | 5.5 | | | | lb/MMscf | Ap-42 Chapter 1.4 Table 1.4-1 |
| | | | 5.63 | | | | lb/MMscf | Adjusted for Pilot/Purge |
| Fuel Sulfur and $H_2S$ Content | | | | | | | gr S/100scf | Fuel sulfur content (gr/100scf) |
| | | | | | | | lb S/ Mscf | Gr S/100 scf * (1 lb/7000 gr) * (1000scf/Mscf) |
| | | | | | | | ppm | Conservative Assumption |
| | | | | | 2.50E-01 | | gr $H_2S$ /100scf | Pilot gas $H_2S$ content |
| | | | | | 3.57E-04 | | lb $H_2S$/Mscf | |
| Pilot Emissions | 9.36E-03 | 0.019 | 3.66E-04 | 4.28E-05 | 4.64E-07 | - | lb/hr | |
| | 0.041 | 0.082 | 1.60E-03 | 1.88E-04 | 2.03E-06 | - | tpy | |
| Purge Emissions | 0.36 | 0.72 | 0.014 | 1.65E-03 | 1.79E-05 | - | lb/hr | |
| | 1.58 | 3.15 | 0.062 | 7.21E-03 | 7.82E-05 | - | tpy | |
| *SSM Emissions* | *562.98* | *4,827.06* | *210.474* | *5.00* | *0.060* | *0.42* | *lb/hr* | *Referenced from SSM calculation workbook.* |
| | *3.50* | *29.44* | *0.80* | *5.00* | *0.060* | *0.42* | *tpy* | *Referenced from SSM calculation workbook.* |
| **Total Emissions** | **563.35** | **4,827.80** | **210.49** | **5.00** | **0.060** | **0.42** | lb/hr | |
| | **5.12** | **32.67** | **0.86** | **5.01** | **0.060** | **0.42** | tpy | |

Notes:

(1) Flare $NO_x$ and CO emission factors: TNRCC RG-109 (high Btu; other). $SO_2$: Mass balance assuming 98% combustion of $H_2S$ and 100% conversion of combusted $H_2S$ to $SO_2$:
Pilot Gas $SO_2$ Emissions (lb/hr) = [(Pilot Gas Flow (Mscf/hr) * Fuel Gas Sulfur Content (lb S/Mscf)*(64 lb/lbmol $SO_2$ / 32 lb/lbmol S)) + ( Pilot Gas Flow (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf)*(64 lb/lbmol $SO_2$ /34 lb/lbmol $H_2S$)*(DRE))]
Pilot Gas $H_2S$ Emissions (lb/hr) = [ Pilot Gas Flow Rate (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf) * (1 - DRE) ]
Process $SO_2$ Emissions (lb/hr) = [ $H_2S$ Mass Flow Rate (lb/hr) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$) ]
Process $SO_2$ Emissions (tpy) = [ $H_2S$ Mass Flow Rate (tpy) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$) ]

(2) VOC, HAP and $H_2S$ emissions estimated based on event stream routed to flare and 98% efficiency.

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## Flare GHG Emisssions

**§98.233(n) Flare stack GHG emissions.**

**Step 1. If necessary, convert volume of gas sent to flare from actual to standard conditions using Equation W-33**

$$E_{s,n} = \frac{E_{a,n} * (459.67 + T_s) * P_a}{(459.67 + T_a) * P_s * Z_a}$$ *(Equation W-33)*

where:

$E_{s,n}$ = Natural gas volumetric emissions at standard temperature and pressure (STP) conditions in cubic feet

$E_{a,n}$ = Natural gas volumetric emissions at actual conditions in cubic feet

| | | | |
|---|---|---|---|
| $T_s$ = Temperature at standard conditions (F) = | 60 | °F | |
| $T_a$ = Temperature at actual conditions (F) = | 75.8 | °F | (Based on Annual Avg Max Tempurature for Roswell, NM from AP-42 Chapter 7) |
| $P_s$ = Absolute pressure at standard conditions (psia) = | 14.7 | psia | |
| $P_a$ = Absolute pressure at actual conditions (psia) = | 12.88 | psia | (Based on Avg Atmospheric Pressure for Roswell, NM from AP-42 Chapter 7) |
| $Z_a$ = Compressibility factor at actual conditions for natural gas | 1 | (default value) | |

**Step 2. Calculate $CO_2$ and $CH_4$ Emissions from Flaring at standard conditions using Equations W-19 & W-20**

$E_{s,CH4} = V_s * X_{CH4} * [ (1 - \eta) * Z_L + Z_U ]$ (Equation W-19)

$E_{s,CO2} = V_s * X_{CO2} * \Sigma (\eta * V_s * Y_j * R_j * Z_L)$ (Equation W-20)

where:

$E_{s,CH4}$ = Annual $CH_4$ emissions from flare stack in cubic feet, at standard conditions

$E_{s,CO2}$ = Annual $CO_2$ emissions from flare stack in cubic feet, at standard conditions

$V_s$ = Volume of gas sent to flare in standard cubic feet

$\eta$ = Flare combustion efficiency, expressed as fraction of gas combusted by a burning flare 0.98 (default value)

$X_{CH4}$ = Mole fraction of $CH_4$ in the feed gas to the flare

| Pilot Gas | Purge Gas |
|---|---|
| 0.8467 | 0.8467 |

$X_{CO2}$ = Mole fraction of $CO_2$ in the feed gas to the flare

| Pilot Gas | Purge Gas |
|---|---|
| 0.0344 | 0.0344 |

$Z_U$ = Fraction of the feed gas sent to an un-lit flare determined by engineering estimate and process knowledge based on best available data and operating records

$Z_L$ = Fraction of the feed gas sent to a burning flare (equal to $1 - Z_U$) 1 (assumes all gas is sent to burning flare)

$Y_j$ = Mole fraction of hydrocarbon constituents j in the feed gas to the flare

| | Pilot Gas | Purge Gas |
|---|---|---|
| Constituent j, Methane = | 0.8467 | 0.8467 |
| Constituent j, Ethane = | 0.0896 | 0.0896 |
| Constituent j, Propane = | 0.0090 | 0.0090 |
| Constituent j, Butane = | 0.0003 | 0.0003 |
| Constituent j, Pentanes = | 0.0002 | 0.0002 |

$R_j$ = Number of carbon atoms in the hydrocarbon constituent j in the feed gas to the flare

| | |
|---|---|
| Constituent j, Methane = | 1 |
| Constituent j, Ethane = | 2 |
| Constituent j, Propane = | 3 |
| Constituent j, Butane = | 4 |
| Constituent j, Pentanes = | 5 |

**Step 3. Calculate $CO_2$ and $CH_4$ mass emissions using Equation W-36 (98.233(v))**

$Mass_i = E_{s,J} * \rho_i * 10^{-3}$ (Equation W-36)

where:

$Mass_i$ = $GHG_i$ (either $CH_4$ or $CO_2$) mass emissions in metric tons

$E_{s,J}$ = $GHG_i$ (either $CH_4$ or $CO_2$) volumetric emissions at standard conditions, in cubic feet.

$\rho_i$ = Density of $GHG_i$

| | | |
|---|---|---|
| $CO_2$ = | 0.0526 | $kg/ft^3$ |
| $CH_4$ = | 0.0192 | $kg/ft^3$ |

**Step 4. Calculate N2O mass emissions using Equation W-40 (98.233(z))**

$Mass_{N2O} = (1 * 10^{-3}) * Fuel * HHV * EF$ *(Equation W-40)*

Fuel = Annual mass or volume of the fuel combusted (mass or volume per year, choose appropriately to be consistent with the units of HHV).

HHV = high heat value of the fuel

| Pilot Gas | Purge Gas | |
|---|---|---|
| 0.0010 | 0.0010 | MMBtu/scf |

EF = Use $1.0 \times 10^{-4}$ kg $N_2O$/mmBtu.

$1 * 10^{-3}$ = Conversion factor from kilograms to metric tons.

**Step 5. Calculate total annual emission from flare by summing Equations W-36 and W-40.**

| Gas Sent to Flare | Gas Sent to Flare (acf/yr) | Gas Sent to Flare (scf/yr) | Annual $CO_2$ Emissions (scf) | Annual $CH_4$ Emissions (scf) | Combusted $CO_2$ Mass Emissions (mtpy) | Uncombusted $CH_4$ Mass Emissions (mtpy) | $N_2O$ Mass Emissions (mtpy) | Combusted $CO_2$ Mass Emissions (tpy) | Uncombusted $CH_4$ Mass Emissions (tpy) | $N_2O$ Mass Emissions (tpy) | $CO_2e$ Mass Emissions (tpy) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pilot Gas** | 669,616.94 | 569,400.00 | 608,449.867 | 9,641.889 | 32.00 | 0.19 | 5.94E-05 | 35.28 | 0.20 | 6.55E-05 | 41.01 |
| **Purge Gas** | 25,754,497.73 | 21,900,000.00 | 23,401,917.94 | 370,841.90 | 1,230.94 | 7.12 | 2.29E-03 | 1,356.88 | 7.85 | 2.52E-03 | 1,577.31 |
| | | | | | | | **Total** | **1,392.16** | **8.05** | **2.58E-03** | **1,618.32** |
| | | | | | | | GWP | 1 | 28 | 265 | |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## RH4, FLARE

Emission Unit: RH4-FL-45100
Source Description: RH4, FLARE
Destruction Efficiency: 98%

| Flare Information | |
|---|---|
| Unit(s): | RH4-FL-45100 |
| Unit Count: | 1 |
| Annual Operating Hours: | 8,760 |
| Combustion Efficiency (%): | 98% |

| Pilot and Purge Input Information | | | | |
|---|---|---|---|---|
| **Activity** | **Parameters** | **Value** | **Unit** | **Notes:** |
| Pilot | Hourly Volume Flow Rate | 65.00 | scf/hr | Design Specification |
| | Natural Gas Heat Value | 1043.50 | BTU/scf | Inlet Gas Analysis |
| | Annual Volume Flow Rate | 0.57 | MMscf/yr | |
| | Hourly Heat Rate | 0.07 | MMBtu/hr | |
| | Annual Heat Rate | 594.17 | MMBtu/yr | |
| Purge | Hourly Volume Flow Rate | 2500.00 | scf/hr | Design Specification |
| | Natural Gas Heat Value | 1043.50 | BTU/scf | Inlet Gas Analysis |
| | Annual Volume Flow Rate | 21.90 | MMscf/yr | |
| | Hourly Heat Rate | 2.61 | MMBtu/hr | |
| | Annual Heat Rate | 22852.65 | MMBtu/yr | |

***AOS SSM VOC Heat Input and Flow Rate Calculation***

| Parameters | Value | Unit | Notes |
|---|---|---|---|
| RH4-AMINE Amine Flash Gas VOC Emissions | 728.94 | tpy | RH4-AMINE Flash Gas |
| RH4-AMINE Amine Flash Gas HAP Emissions | 20.96 | tpy | RH4-AMINE Flash Gas |
| RH4-AMINE Amine Flash Gas H2S Emissions | 0.10 | tpy | RH4-AMINE Flash Gas |
| RH5-AMINE Amine Flash Gas VOC Emissions | 839.84 | tpy | RH5-AMINE Flash Gas |
| RH5-AMINE Amine Flash Gas HAP Emissions | 24.28 | tpy | RH5-AMINE Flash Gas |
| RH5-AMINE Amine Flash Gas H2S Emissions | 0.10 | tpy | RH5-AMINE Flash Gas |
| Emissions with Safety factor | 10% | % | Safety Factor |
| Total VOC Emissions | 1725.66 | tpy | RH4-AMINE Flash Gas and RH5-AMINE Flash Gas emissions with Safety Factor |
| Total HAP Emissions | 49.77 | tpy | RH4-AMINE Flash Gas and RH5-AMINE Flash Gas emissions with Safety Factor |
| Total $H_2S$ Emissions | 0.22 | tpy | RH4-AMINE Flash Gas and RH5-AMINE Flash Gas emissions with Safety Factor |
| RH4-AMINE Amine Flash Gas Heating Value | 1062.07 | Btu/scf | RH4-AMINE ProMax Streams |
| RH4-AMINE Amine Flash Gas Flow rate | 21813.60 | scf/hr | RH4-AMINE Flash Gas |
| RH5-AMINE Amine Flash Gas Heating Value | 1050.49 | Btu/scf | RH5-AMINE ProMax Streams |
| RH5-AMINE Amine Flash Gas Flow rate | 24377.99 | scf/hr | RH5-AMINE Flash Gas |
| Total Heating Value | 1055.96 | Btu/scf | Weighted average from Flash Gases |
| Total Flow | 46191.59 | scf/hr | |
| Total Heating Value | 48.776 | MMBtu/hr | |
| Flow Rate with Safety Factor | 10% | % | Safety Factor |
| Hourly Flow Rate with Safety Factor | 23994.96 | scf/hr | Flow with safety factor |
| Annual Flow Rate with Safety Factor | 8.06 | MMscf/yr | (336 hr/yr) |
| Heating Rate | 25.48 | MMBtu/hr | |

***Dehy AOS SSM VOC Heat Input and Flow Rate Calculation***

| Parameters | Value | Unit | Notes |
|---|---|---|---|
| TO Downtime | 336.00 | hours/yr | Assumed 2 weeks per year (336 hr/yr) |
| RH4-TEG Dehy Regen VOC Emissions | 21.20 | tpy | RH4-TEG Uncontrolled Regenerator Overheads |
| RH4-TEG Dehy Regen HAP Emissions | 5.81 | tpy | RH4-TEG Uncontrolled Regenerator Overheads |
| RH4-TEG Dehy Regen Heating Value | 2631.26 | Btu/scf | RH4-TEG Dehydration ProMax Pstream |
| RH4-TEG Dehy Regen Flow rate | 1044.85 | scf/hr | RH4-TEG Dehydration ProMax Pstream |
| Total Heating Value | 2.75 | MMBtu/hr | |
| Flow Rate with Safety Factor | 10% | % | Safety Factor |
| Hourly Flow Rate with Safety Factor | 1149.34 | scf/hr | Flow with safety factor |
| Annual Flow Rate with Safety Factor | 0.39 | MMscf/yr | Assumed 2 weeks per year (336 hr/yr) |
| Heating Rate | 3.02 | MMBtu/hr | |

**Emission Rate Calculations**

| Description | $NO_X$[1] | CO[1] | VOC | $SO_2$[1] | $H_2S$[1] | HAPs | Units | Notes |
|---|---|---|---|---|---|---|---|---|
| Emission Factors | 0.138 | 0.2755 | | | | | lb/MMBTU | TNRCC RG-109 (high Btu; other) |
| | | | 5.5 | | | | lb/MMscf | Ap-42 Chapter 1.4 Table 1.4-1 |
| | | | 5.63 | | | | lb/MMscf | Adjusted for Pilot/Purge |
| Fuel Sulfur and $H_2S$ Content | | | | | 2.50E-01 | | gr $H_2S$ /100scf | Pilot gas $H_2S$ content |
| | | | | | 3.57E-04 | | lb $H_2S$/Mscf | |
| Pilot Emissions | 9.36E-03 | 0.019 | 3.66E-04 | 4.28E-05 | 3.25E-04 | - | lb/hr | |
| | 0.041 | 0.082 | 1.60E-03 | 1.88E-04 | 1.42E-03 | - | tpy | |
| Purge Emissions | 0.36 | 0.72 | 0.014 | 1.65E-03 | 1.79E-05 | - | lb/hr | |
| | 1.58 | 3.15 | 0.062 | 7.21E-03 | 7.82E-05 | - | tpy | |
| Pigging Emissions | 0.51 | 1.02 | 3.63 | 2.80E-03 | 3.03E-05 | 0.090 | lb/hr | Hourly emissions associated with pig launchers. |
| | 0.040 | 0.079 | 0.071 | 5.46E-05 | 5.92E-07 | 1.75E-03 | tpy | Annual emissions associated with pig launchers. |
| *SSM Emissions* | *647.43* | *5,551.12* | *287.41* | *5.75* | *0.069* | *1.81* | *lb/hr* | *Referenced from SSM calculation workbook.* |
| | *4.25* | *34.75* | *1.25* | *0.035* | *4.17E-04* | *6.77E-03* | *tpy* | *Referenced from SSM calculation workbook.* |
| AOS SSM Emissions | 3.52 | 7.02 | 7.88 | 0.094 | 1.02E-03 | 0.23 | lb/hr | RH4-AMINE and RH5-AMINE routed to flare during AOS |
| | 0.59 | 1.18 | 1.32 | 0.016 | 1.72E-04 | 0.038 | tpy | Assumed 2 weeks per year (336 hr/yr) |
| Dehy AOS SSM Emissions | 0.42 | 0.83 | 0.10 | - | - | 0.027 | lb/hr | RH4-TEG routed to flare during AOS |
| | 0.07 | 0.14 | 0.016 | - | - | 4.46E-03 | tpy | Assumed 2 weeks per year (336 hr/yr) |
| **Total Emissions** | **648.31** | **5,552.87** | **291.05** | **5.75** | **0.069** | **1.90** | lb/hr | Pilot + Purge + Pigging + (Maximum of SSM and AOS SSM) + Dehy AOS SSM |
| | **6.56** | **39.38** | **2.72** | **0.058** | **2.09E-03** | **0.051** | tpy | Sum of all flaring on an annual basis. |

Notes:

(1) Flare $NO_X$ and CO emission factors: TNRCC RG-109 (high Btu; other). $SO_2$: Mass balance assuming 98% combustion of $H_2S$ and 100% conversion of combusted $H_2S$ to $SO_2$:
Pilot Gas $SO_2$ Emissions (lb/hr) = [(Pilot Gas Flow (Mscf/hr) * Fuel Gas Sulfur Content (lb S/Mscf)*(64 lb/lbmol $SO_2$ / 32 lb/lbmol S)) + ( Pilot Gas Flow (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf)*(64 lb/lbmol $SO_2$ /34 lb/lbmol $H_2S$)*(DRE))]
Pilot Gas $H_2S$ Emissions (lb/hr) = [ Pilot Gas Flow Rate (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf) * (1 - DRE) ]
Process $SO_2$ Emissions (lb/hr) = [ $H_2S$ Mass Flow Rate (lb/hr) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$) ]
Process $SO_2$ Emissions (tpy) = [ $H_2S$ Mass Flow Rate (tpy) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$) ]

(2) VOC, HAP and $H_2S$ emissions estimated based on event stream routed to flare and 98% efficiency.
(3) Flare stream includes pipeline gas sent to the flare.

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## Flare GHG Emisssions

**§98.233(n) Flare stack GHG emissions.**

**Step 1. If necessary, convert volume of gas sent to flare from actual to standard conditions using Equation W-33**

$$E_{s,n} = \frac{E_{a,n} * (459.67 + T_s) * P_a}{(459.67 + T_a) * P_s * Z_a}$$ *(Equation W-33)*

where:

$E_{s,n}$ = Natural gas volumetric emissions at standard temperature and pressure (STP) conditions in cubic feet

$E_{a,n}$ = Natural gas volumetric emissions at actual conditions in cubic feet

| | | | |
|---|---|---|---|
| $T_s$ = Temperature at standard conditions (F) = | 60 | °F | |
| $T_a$ = Temperature at actual conditions (F) = | 75.8 | °F | (Based on Annual Avg Max Tempurature for Roswell, NM from AP-42 Chapter 7) |
| $P_s$ = Absolute pressure at standard conditions (psia) = | 14.7 | psia | |
| $P_a$ = Absolute pressure at actual conditions (psia) = | 12.88 | psia | (Based on Avg Atmospheric Pressure for Roswell, NM from AP-42 Chapter 7) |
| $Z_a$ = Compressibility factor at actual conditions for natural gas | 1 | (default value) | |

**Step 2. Calculate $CO_2$ and $CH_4$ Emissions from Flaring at standard conditions using Equations W-19 & W-20**

$E_{s,CH4} = V_s * X_{CH4} * [ (1 - \eta) * Z_L + Z_U ]$ (Equation W-19)

$E_{s,CO2} = V_s * X_{CO2} * \Sigma (\eta * V_s * Y_j * R_j * Z_L)$ (Equation W-20)

where:

$E_{s,CH4}$ = Annual $CH_4$ emissions from flare stack in cubic feet, at standard conditions

$E_{s,CO2}$ = Annual $CO_2$ emissions from flare stack in cubic feet, at standard conditions

$V_s$ = Volume of gas sent to flare in standard cubic feet

$\eta$ = Flare combustion efficiency, expressed as fraction of gas combusted by a burning flare 0.98 (default value)

$X_{CH4}$ = Mole fraction of $CH_4$ in the feed gas to the flare

| Pilot Gas | Purge Gas | Pigging | AOS SSM |
|---|---|---|---|
| 0.8467 | 0.8467 | 0.737 | 0.652 |

$X_{CO2}$ = Mole fraction of $CO_2$ in the feed gas to the flare

| Pilot Gas | Purge Gas | Pigging | AOS SSM |
|---|---|---|---|
| 0.0344 | 0.0344 | 0.032 | 0.204 |

$Z_U$ = Fraction of the feed gas sent to an un-lit flare determined by engineering estimate and process knowledge based on best available data and operating records

$Z_L$ = Fraction of the feed gas sent to a burning flare (equal to $1 - Z_U$) 1 (assumes all gas is sent to burning flare)

$Y_j$ = Mole fraction of hydrocarbon constituents j in the feed gas to the flare

| | Pilot Gas | Purge Gas | Pigging | AOS SSM |
|---|---|---|---|---|
| Constituent j, Methane | 0.8467 | 0.8467 | 0.7371 | 0.6522 |
| Constituent j, Ethane | 0.0896 | 0.0896 | 0.1102 | 0.1197 |
| Constituent j, Propane | 0.0090 | 0.0090 | 0.0582 | 0.0424 |
| Constituent j, Butane | 0.0003 | 0.0003 | 0.0275 | 0.0167 |
| Constituent j, Pentane | 0.0002 | 0.0002 | 0.0153 | 0.0305 |

$R_j$ = Number of carbon atoms in the hydrocarbon constituent j in the feed gas to the flare

| | |
|---|---|
| Constituent j, Methane | 1 |
| Constituent j, Ethane | 2 |
| Constituent j, Propane | 3 |
| Constituent j, Butane | 4 |
| Constituent j, Pentane | 5 |

**Step 3. Calculate $CO_2$ and $CH_4$ mass emissions using Equation W-36 (98.233(v))**

$Mass_i = E_{s,i} * \rho_i * 10^{-3}$ (Equation W-36)

where:

$Mass_i$ = $GHG_i$ (either $CH_4$ or $CO_2$) mass emissions in metric tons

$E_{s,i}$ = $GHG_i$ (either $CH_4$ or $CO_2$) volumetric emissions at standard conditions, in cubic feet.

$\rho_i$ = Density of $GHG_i$

| | | |
|---|---|---|
| $CO_2$ = | 0.0526 | $kg/ft^3$ |
| $CH_4$ = | 0.0192 | $kg/ft^3$ |

**Step 4. Calculate N2O mass emissions using Equation W-40 (98.233(z))**

$Mass_{N2O} = (1* 10^{-3}) * Fuel * HHV * EF$ *(Equation W-40)*

where:

$Mass_{N2O}$ = Annual $N_2O$ emissions from the combustion of a particular type of fuel (metric tons)

Fuel = Annual mass or volume of the fuel combusted (mass or volume per year, choose appropriately to be consistent with the units of HHV).

HHV = high heat value of the fuel

| Pilot Gas | Purge Gas | Pigging | AOS SSM | |
|---|---|---|---|---|
| 0.0010 | 0.0010 | 0.0012 | 0.0011 | MMBtu/scf |

EF = Use $1.0 \times 10^{-4}$ kg $N_2O$/mmBtu.

$1 * 10^{-3}$ = Conversion factor from kilograms to metric tons.

**Step 5. Calculate total annual emission from flare by summing Equations W-36 and W-40.**

| Gas Sent to Flare | Gas Sent to Flare (acf/yr) | Gas Sent to Flare (scf/yr) | Annual $CO_2$ Emissions (scf) | Annual $CH_4$ Emissions (scf) | Combusted $CO_2$ Mass Emissions (mtpy) | Uncombusted $CH_4$ Mass Emissions (mtpy) | $N_2O$ Mass Emissions (mtpy) | Combusted $CO_2$ Mass Emissions (tpy) | Uncombusted $CH_4$ Mass Emissions (tpy) | $N_2O$ Mass Emissions (tpy) | $CO_2e$ Mass Emissions (tpy) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pilot Gas** | 669,616.94 | 569,400.00 | 608,449.867 | 9,641.889 | 32.00 | 0.19 | 5.94E-05 | 35.28 | 0.20 | 6.55E-05 | 41.01 |
| **Purge Gas** | 25,754,497.73 | 21,900,000.00 | 1,534,309.75 | 370,841.90 | 80.70 | 7.12 | 2.29E-03 | 88.96 | 7.85 | 2.52E-03 | 309.39 |
| **Pigging** | 578,195.57 | 491,661.03 | 36,116 | 7,248.18 | 1.90 | 0.14 | 5.75E-05 | 2.09 | 0.15 | 6.34E-05 | 6.41 |
| **AOS SSM** | 9,481,309.76 | 8,062,307.63 | 11,425,471 | 105,169.35 | 600.98 | 2.02 | 8.51E-04 | 662.47 | 2.23 | 9.38E-04 | 725.04 |
| | | | | | | | **Total** | **788.80** | **10.43** | **3.59E-03** | **1,081.85** |
| | | | | | | | GWP | 1 | 28 | 265 | |

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## RH5, FLARE

Emission Unit: RA2-FL-25100
Source Description: RH5, FLARE
Destruction Efficiency: 98%

| Flare Information | |
|---|---|
| Unit(s): | RA2-FL-25100 |
| Unit Count: | 1 |
| Annual Operating Hours: | 8,760 |
| Combustion Efficiency (%): | 98% |

| Pilot and Purge Input Information | | | | |
|---|---|---|---|---|
| **Activity** | **Parameters** | **Value** | **Unit** | **Notes:** |
| Pilot | Hourly Volume Flow Rate | 244.00 | scf/hr | Design Specification |
| | Natural Gas Heat Value | 1043.50 | BTU/scf | Inlet Gas Analysis |
| | Annual Volume Flow Rate | 2.14 | MMscf/yr | |
| | Hourly Heat Rate | 0.25 | MMBtu/hr | |
| | Annual Heat Rate | 2230.42 | MMBtu/yr | |
| Purge | Hourly Volume Flow Rate | 5000.00 | scf/hr | Design Specification |
| | Natural Gas Heat Value | 1043.50 | BTU/scf | Inlet Gas Analysis |
| | Annual Volume Flow Rate | 43.80 | MMscf/yr | |
| | Hourly Heat Rate | 5.22 | MMBtu/hr | |
| | Annual Heat Rate | 45705.30 | MMBtu/yr | |

***Dehy AOS VOC Heat Input and Flow Rate Calculation***

| Parameters | Value | Unit | Notes |
|---|---|---|---|
| TO Downtime | 336.00 | hours/yr | Assumed 2 weeks per year (336 hr/yr) |
| RH5-TEG Dehy Regen VOC Emissions | 243.61 | tpy | RH5-TEG Uncontrolled Regenerator Overheads |
| RH5-TEG Dehy Regen HAP Emissions | 70.44 | tpy | RH5-TEG Uncontrolled Regenerator Overheads |
| RH6-TEG Dehy Regen VOC Emissions | 226.75 | tpy | RH6-TEG Uncontrolled Regenerator Overheads |
| RH6-TEG Dehy Regen HAP Emissions | 74.70 | tpy | RH6-TEG Uncontrolled Regenerator Overheads |
| RH5-TEG Dehy Regen Heating Value | 2746.79 | Btu/scf | RH5-TEG Dehydration ProMax Pstream |
| RH5-TEG Dehy Regen Flow rate | 1955.69 | scf/hr | RH5-TEG Dehydration ProMax Pstream |
| RH6-TEG Dehy Regen Heating Value | 2162.03 | Btu/scf | RH6-TEG Dehydration ProMax Pstream |
| RH6-TEG Dehy Regen Flow rate | 2264.01 | scf/hr | RH6-TEG Dehydration ProMax Pstream |
| Total Heating Value | 2433.05 | Btu/scf | Calculated |
| Total Flow | 4219.70 | scf/hr | Calculated |
| Total Heating Value | 10.27 | MMBtu/hr | Calculated |
| Flow Rate with Safety Factor | 10% | % | Safety Factor |
| Hourly Flow Rate with Safety Factor | 4641.67 | scf/hr | Flow with safety factor |
| Annual Flow Rate with Safety Factor | 1.56 | MMscf/yr | Assumed 2 weeks per year (336 hr/yr) |
| Heating Rate | 11.29 | MMBtu/hr | |

**Emission Rate Calculations**

| Description | $NO_x$[1] | CO[1] | VOC | $SO_2$[1] | $H_2S$[1] | HAPs | Units | Notes |
|---|---|---|---|---|---|---|---|---|
| Emission Factors | 0.138 | 0.2755 | | | | | lb/MMBTU | TNRCC RG-109 (high Btu; other) |
| | | | 5.5 | | | | lb/MMscf | Ap-42 Chapter 1.4 Table 1.4-1 |
| | | | 5.63 | | | | lb/MMscf | Adjusted for Pilot/Purge |
| Fuel Sulfur and $H_2S$ Content | | | | | 2.50E-01 | | gr $H_2S$ /100scf | Pilot gas $H_2S$ content |
| | | | | | 3.57E-04 | | lb $H_2S$/Mscf | |
| Pilot Emissions | 0.035 | 0.070 | 1.37E-03 | 1.61E-04 | 1.74E-06 | - | lb/hr | |
| | 0.15 | 0.31 | 6.01E-03 | 7.04E-04 | 7.63E-06 | - | tpy | |
| Purge Emissions | 0.72 | 1.44 | 0.028 | 3.29E-03 | 3.57E-05 | - | lb/hr | |
| | 3.15 | 6.30 | 0.12 | 0.014 | 1.56E-04 | - | tpy | |
| *SSM Emissions* | *647.43* | *5,551.12* | *419.419* | *5.75* | *0.07* | *0.48* | *lb/hr* | *Referenced from SSM calculation workbook.* |
| | *8.03* | *67.64* | *1.62* | *0.069* | *8.27E-04* | *6.25E-03* | *tpy* | *Referenced from SSM calculation workbook.* |
| Dehy AOS SSM Emissions | 1.56 | 3.11 | 2.15 | - | - | 0.66 | lb/hr | RH5-TEG and RH6-TEG routed to flare during AOS |
| | 0.26 | 0.52 | 0.36 | - | - | 0.02 | tpy | Assumed 2 weeks per year (336 hr/yr) |
| **Total Emissions** | **648.18** | **5,552.63** | **419.45** | **5.75** | **0.07** | **0.66** | lb/hr | |
| | **11.60** | **74.76** | **2.11** | **0.084** | **9.91E-04** | **0.03** | tpy | |

Notes:

(1) Flare $NO_x$ and CO emission factors: TNRCC RG-109 (high Btu; other). $SO_2$: Mass balance assuming 98% combustion of $H_2S$ and 100% conversion of combusted $H_2S$ to $SO_2$:
Pilot Gas $SO_2$ Emissions (lb/hr) = [(Pilot Gas Flow (Mscf/hr) * Fuel Gas Sulfur Content (lb S/Mscf)*(64 lb/lbmol $SO_2$ / 32 lb/lbmol S)) + ( Pilot Gas Flow (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf)*(64 lb/lbmol $SO_2$ /34 lb/lbmol $H_2S$)*(DRE))]
Pilot Gas $H_2S$ Emissions (lb/hr) = [ Pilot Gas Flow Rate (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf) * (1 - DRE) ]
Process $SO_2$ Emissions (lb/hr) = [ $H_2S$ Mass Flow Rate (lb/hr) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$) ]
Process $SO_2$ Emissions (tpy) = [ $H_2S$ Mass Flow Rate (tpy) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$) ]

(2) VOC, HAP and $H_2S$ emissions estimated based on event stream routed to flare and 98% efficiency.

(3) Flare stream includes pipeline gas sent to the flare.

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## Flare GHG Emisssions

**§98.233(n) Flare stack GHG emissions.**

**Step 1. If necessary, convert volume of gas sent to flare from actual to standard conditions using Equation W-33**

$$E_{s,n} = \frac{E_{a,n} * (459.67 + T_s) * P_a}{(459.67 + T_a) * P_s * Z_a}$$ *(Equation W-33)*

where:

$E_{s,n}$ = Natural gas volumetric emissions at standard temperature and pressure (STP) conditions in cubic feet

$E_{a,n}$ = Natural gas volumetric emissions at actual conditions in cubic feet

| | | | |
|---|---|---|---|
| $T_s$ = Temperature at standard conditions (F) = | 60 | °F | |
| $T_a$ = Temperature at actual conditions (F) = | 75.8 | °F | (Based on Annual Avg Max Tempurature for Roswell, NM from AP-42 Chapter 7) |
| $P_s$ = Absolute pressure at standard conditions (psia) = | 14.7 | psia | |
| $P_a$ = Absolute pressure at actual conditions (psia) = | 12.88 | psia | (Based on Avg Atmospheric Pressure for Roswell, NM from AP-42 Chapter 7) |
| $Z_a$ = Compressibility factor at actual conditions for natural gas | 1 | (default value) | |

**Step 2. Calculate $CO_2$ and $CH_4$ Emissions from Flaring at standard conditions using Equations W-19 & W-20**

$E_{s,CH4} = V_s * X_{CH4} * [ (1 - \eta) * Z_L + Z_U ]$ (Equation W-19)

$E_{s,CO2} = V_s * X_{CO2} * \Sigma (\eta * V_s * Y_i * R_i * Z_L)$ (Equation W-20)

where:

$E_{s,CH4}$ = Annual $CH_4$ emissions from flare stack in cubic feet, at standard conditions

$E_{s,CO2}$ = Annual $CO_2$ emissions from flare stack in cubic feet, at standard conditions

$V_s$ = Volume of gas sent to flare in standard cubic feet

$\eta$ = Flare combustion efficiency, expressed as fraction of gas combusted by a burning flare 0.98 (default value)

$X_{CH4}$ = Mole fraction of $CH_4$ in the feed gas to the flare

| Pilot Gas | Purge Gas |
|---|---|
| 0.8467 | 0.8467 |

$X_{CO2}$ = Mole fraction of $CO_2$ in the feed gas to the flare

| Pilot Gas | Purge Gas |
|---|---|
| 0.0344 | 0.0344 |

$Z_U$ = Fraction of the feed gas sent to an un-lit flare determined by engineering estimate and process knowledge based on best available data and operating records

$Z_L$ = Fraction of the feed gas sent to a burning flare (equal to 1 – $Z_U$) 1 (assumes all gas is sent to burning flare)

$Y_i$ = Mole fraction of hydrocarbon constituents j in the feed gas to the flare

| | Pilot Gas | Purge Gas |
|---|---|---|
| Constituent j, Methane = | 0.8467 | 0.8467 |
| Constituent j, Ethane = | 0.0896 | 0.0896 |
| Constituent j, Propane = | 0.0090 | 0.0090 |
| Constituent j, Butane = | 0.0003 | 0.0003 |
| Constituent j, Pentanes Pl | 0.0002 | 0.0002 |

$R_i$ = Number of carbon atoms in the hydrocarbon constituent j in the feed gas to the flare

| | |
|---|---|
| Constituent j, Methane = | 1 |
| Constituent j, Ethane = | 2 |
| Constituent j, Propane = | 3 |
| Constituent j, Butane = | 4 |
| Constituent j, Pentanes Pl | 5 |

**Step 3. Calculate $CO_2$ and $CH_4$ mass emissions using Equation W-36 (98.233(v))**

$Mass_i = E_{s,i} * \rho_i * 10^{-3}$ (Equation W-36)

where:

$Mass_i$ = $GHG_i$ (either $CH_4$ or $CO_2$) mass emissions in metric tons

$E_{s,i}$ = $GHG_i$ (either $CH_4$ or $CO_2$) volumetric emissions at standard conditions, in cubic feet.

$\rho_i$ = Density of $GHG_i$

| | | |
|---|---|---|
| $CO_2$ = | 0.0526 | $kg/ft^3$ |
| $CH_4$ = | 0.0192 | $kg/ft^3$ |

where:

$Mass_{N2O}$ = Annual $N_2O$ emissions from the combustion of a particular type of fuel (metric tons)

Fuel = Annual mass or volume of the fuel combusted (mass or volume per year, choose appropriately to be consistent with the units of HHV).

HHV = high heat value of the fuel

| Pilot Gas | Purge Gas | |
|---|---|---|
| 0.0010 | 0.0010 | MMBtu/scf |

EF = Use 1.0 × $10^{-4}$ kg $N_2O$/mmBtu.

1 * $10^{-3}$ = Conversion factor from kilograms to metric tons.

**Step 5. Calculate total annual emission from flare by summing Equations W-36 and W-40.**

| Gas Sent to Flare | Gas Sent to Flare (acf/yr) | Gas Sent to Flare (scf/yr) | Annual $CO_2$ Emissions (scf) | Annual $CH_4$ Emissions (scf) | Combusted $CO_2$ Mass Emissions (mtpy) | Uncombusted $CH_4$ Mass Emissions (mtpy) | $N_2O$ Mass Emissions (mtpy) | Combusted $CO_2$ Mass Emissions (tpy) | Uncombusted $CH_4$ Mass Emissions (tpy) | $N_2O$ Mass Emissions (tpy) | $CO_2e$ Mass Emissions (tpy) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pilot Gas** | 2,513,638.98 | 2,137,440.00 | 2,284,027.191 | 36,194.169 | 120.14 | 0.69 | 2.23E-04 | 132.43 | 0.77 | 2.46E-04 | 153.95 |
| **Purge Gas** | 51,508,995.47 | 43,800,000.00 | 46,803,835.89 | 741,683.80 | 2,461.88 | 14.24 | 4.57E-03 | 2,713.76 | 15.70 | 5.04E-03 | 3,154.62 |
| | | | | | | | **Total** | **2,846.19** | **16.46** | **5.28E-03** | **3,308.56** |
| | | | | | | | GWP | 1 | 28 | 265 | |

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## RHA, FLARE

Emission Unit: RHA-FL-5100
Source Description: RHA, FLARE
Destruction Efficiency: 98%
Units being controlled: RHA-AMINE during AGI 1 downtime, Inlet Gas, SSM
Operating Hours: 8760 hrs/yr

The two AGI flares, RHA-FL-5100 and RA2-FL-25100, have three possible operating scenarios. In Scenario 1, both units operate at a reduced capacity. In Scenario 2, only RHA-FL-5100 is operating, and in Scenario 3, only RA2-FL-25100 is operating. Pilot and purge gas are combusted at both flares in all scenarios.

***VOC Heat Input and Flow Rate Calculation***

| Parameters | Scenario #1 | Scenario #2 | Unit | Notes |
|---|---|---|---|---|
| RHA-AMINE VOC Emissions | 0.84 | 1.69 | lb/hr | Amine regenerator still vent emissions determined by ProMax |
| RHA-AMINE HAP Emissions | 0.14 | 0.28 | lb/hr | Amine regenerator still vent emissions determined by ProMax |
| RHA-AMINE H2S Emissions | 63.19 | 127.89 | lb/hr | Amine regenerator still vent emissions determined by ProMax |
| Emissions with Safety Factor | 10% | 10% | % | Safety Factor |
| Total VOC Emissions with Safety Factor | 0.92 | 1.86 | lb/hr | RHA-AMINE Emissions with Safety Factor |
| Total HAP Emissions with Safety Factor | 0.15 | 0.30 | lb/hr | RHA-AMINE Emissions with Safety Factor |
| Total $H_2S$ Emissions with Safety Factor | 69.51 | 140.67 | lb/hr | RHA-AMINE Emissions with Safety Factor |
| RHA-AMINE Still Vent Heating Value | 50.67 | 50.67 | Btu/scf | Maximum from all scenarios |
| RHA-AMINE Still Vent Flow Rate | 10727.13 | 21709.66 | scf/hr | Maximum from all scenarios |
| Total Heating Value | 50.67 | 50.67 | Btu/scf | Weighted average from flash and still vent |
| Total Flow | 10727.13 | 21709.66 | scf/hr | |
| Total Heating Value | 0.544 | 1.100 | MMBtu/hr | |
| Flow Rate with Safety Factor | 10% | 10% | % | Safety Factor |
| | 11799.84 | 23880.63 | scf/hr | Flow with safety factor |
| | 103.37 | 209.19 | MMscf/yr | |
| Heating Rate | 0.598 | 1.210 | MMBtu/hr | Hourly volume (scf/hr) * Heat rate (Btu/scf) * 1 MMBtu/1,000,000 Btu |
| **Pilot and Sweep Gas** | **Scenario #1** | **Scenario #2** | **Unit** | **Notes** |
| Hourly Volume Flow Rate | 1065 | 1065 | scf/hr | Pilot and Sweep Gas Flow Rate |
| | 1.07E-03 | 1.07E-03 | MMscf/hr | |
| Natural Gas Heat Value | 1043.50 | 1043.50 | Btu/scf | Facility Specification |
| Hourly Heat Rate | 1.111 | 1.111 | MMBtu/hr | Hourly volume (MMscf/hr) * Heat rate (Btu/scf) |
| | 9.33 | 9.33 | MMscf/yr | Hourly volume (MMscf/hr) * 8760 hr/yr |
| **Assist Gas** | **Scenario #1** | **Scenario #2** | **Unit** | **Notes** |
| Hourly Volume Flow Rate | 250000.00 | 250000.00 | scf/hr | Assist flow with safety factor; assumed to be five times the acid gas flow rate |
| | 0.250 | 0.250 | MMscf/hr | |
| Natural gas heat value | 1043.50 | 1043.50 | Btu/scf | Facility Specification |
| Minimum combustion BTU | 998.75 | 956.93 | Btu/scf | |
| Hourly Heat Rate | 260.88 | 260.88 | MMBtu/hr | Hourly volume (MMscf/hr) * Heat rate (Btu/scf) |
| | 150.00 | 150.00 | MMscf/yr | Hourly volume (MMscf/hr) * 129 hr/yr |
| **Inlet Gas** | **Scenario #1** | **Scenario #2** | **Unit** | **Notes** |
| Inlet VOC wt.% | 1682.65 | 3405.37 | lb/hr | Hourly Volume (scf/hr) / (379.5 scf/lb-mol) * Molecular Weight (lb/lb-mol) * VOC wt.% |
| Inlet Gas HAP wt.% | 20.08 | 40.63 | lb/hr | Hourly Volume (scf/hr) / (379.5 scf/lb-mol) * Molecular Weight (lb/lb-mol) * HAP wt.% |
| Inlet Gas $H_2S$ wt.% | 55.81 | 112.96 | lb/hr | Hourly Volume (scf/hr) / (379.5 scf/lb-mol) * Molecular Weight (lb/lb-mol) * $H_2S$ wt.% |
| Hourly Volume Flow Rate | 122500.00 | 247916.67 | scf/hr | Assumed AGI inlet flaring volume of 70 MMscfd |
| | 0.123 | 0.248 | MMscf/hr | |
| Natural gas heat value | 1163.38 | 1163.38 | Btu/scf | Facility Specification |
| Hourly Heat Rate | 142.51 | 288.42 | MMBtu/hr | Hourly volume (MMscf/hr) * Heat rate (Btu/scf) |
| Annual Flow Rate | 2.94 | 5.95 | MMscf/yr | Annual volume (MMscf/hr) * 24 hr/yr |

**Emission Rate Calculations**

| | NOx [1] | CO [1] | VOC | $SO_2$ [2] | $H_2S$ [2] | HAPs | Units | Notes |
|---|---|---|---|---|---|---|---|---|
| Emission Factors | 0.064 | 0.55 | | | | | lb/MMBtu | TNRCC RG-109 (low Btu; other) |
| | | | 5.50 | | | | lb/MMscf | Ap-42 Chapter 1.4 Table 1.4-1 |
| | | | 5.63 | | | | lb/MMscf | EF adjusted for Pilot/ Assist Gas |
| Fuel Sulfur and $H_2S$ Content | | | | 0.25 | | | gr S/100scf | Fuel sulfur content (gr/100scf) |
| | | | | 0.36 | | | lb S/MMscf | gr S/100 scf * (1 lb/7000 gr) * (10^6 scf/MMscf) |
| | | | | | 1.5 | | ppm | Conservative assumption |
| | | | | | 0.09 | | gr $H_2S$ /100scf | Pilot gas $H_2S$ content (gr/100scf) |
| | | | | | 0.13 | | lb $H_2S$/MMscf | gr $H_2S$/100 scf * (1 lb/7000 gr) * (10^6 scf/MM scf) |
| **Steady State:** Pilot Emissions | 0.07 | 0.611 | 5.99E-03 | 1.02E-03 | 2.86E-06 | - | lb/hr | hourly rate |
| | 0.31 | 2.68 | 0.03 | 4.49E-03 | 1.25E-05 | - | tpy | (8760 hr/yr) / (2000 lb/ton) |
| **Scenario 1:** Assist Gas Emissions | 16.72 | 143.38 | 1.41 | 0.06 | 6.71E-04 | - | lb/hr | hourly rate |
| **Scenario 1:** Acid Gas Emissions | 0.04 | 0.33 | 0.02 | 128.22 | 1.39 | 3.00E-03 | lb/hr | hourly rate |
| **Scenario 1:** Inlet Gas Emissions | 9.14 | 78.33 | 33.65 | 102.96 | 1.12 | 0.40 | lb/hr | hourly rate |
| **Scenario 1:** SSM Emissions | - | - | - | - | - | - | *lb/hr* | *SSM cannot occur when both flares are operating.* |
| **Scenario 1:** Pigging Emissions | 0.11 | 0.23 | 0.39 | 1.49 | 0.016 | 5.88E-03 | lb/hr | Hourly emissions associated with pig launchers. |
| **Scenario 2:** Assist Gas Emissions | 16.72 | 143.38 | 1.41 | 0.06 | 0.03 | - | lb/hr | hourly rate |
| **Scenario 2:** Acid Gas Emissions | 0.08 | 0.67 | 1.86 | 259.50 | 2.81 | 6.07E-03 | lb/hr | hourly rate |
| **Scenario 2:** SSM Emissions | *3.51* | *13.99* | *6.37* | *123.76* | *1.34* | *0.611* | *lb/hr* | *Referenced from SSM calculation workbook.* |
| **Scenario 2:** Pigging Emissions | 0.11 | 0.23 | 0.39 | 1.49 | 0.016 | 5.88E-03 | lb/hr | Hourly emissions associated with pig launchers. |
| **Scenario 1:** Maximum Hourly Emissions | **16.83** | **144.32** | **33.66** | **128.29** | **1.39** | **0.40** | lb/hr | Pilot + Max of Acid Gas Flaring and SSM Flaring |
| **Scenario 2:** Maximum Hourly Emissions | **16.87** | **144.65** | **6.76** | **259.57** | **2.85** | **0.62** | lb/hr | Pilot + Max of Acid Gas Flaring and SSM Flaring |
| **Scenario 3:** Maximum Hourly Emissions | **0.071** | **0.611** | **5.99E-03** | **1.02E-03** | **2.86E-06** | **-** | lb/hr | Pilot Only |
| **Scenario 1:** Maximum Daily Emissions | **269.31** | **2,309.06** | **538.54** | **2,052.62** | **22.25** | **6.42** | lb/day | |
| **Scenario 2:** Maximum Daily Emissions | **269.93** | **2,314.44** | **108.18** | **4,153.05** | **45.55** | **9.88** | lb/day | |
| **Scenario 3:** Maximum Daily Emissions | **1.71** | **14.66** | **0.14** | **0.025** | **6.86E-05** | **-** | lb/day | Pilot Only, Operating Continuously |
| Annual Total Emissions[4] | **6.33** | **54.24** | **12.62** | **97.34** | **1.07** | **0.23** | tpy | Sum of all flaring on an annual basis. |

[1] Flare $NO_X$ and CO emission factors: TNRCC RG-109 (high Btu; other).

[2] Fuel sulfur content is assumed to be 2 gr/100 Scf
Mass balance assuming 98% combustion of $H_2S$ and 100% conversion of combusted $H_2S$ to $SO_2$:

[3] Hourly emissions for this unit assume that SSM flaring does not occur at the same time as acid gas flaring or inlet gas flaring. Assist gas emissions are directly associated with acid gas flaring events. The maximum of both scenarios was used to determine the maximum hourly emissions for each pollutant.

"-" Indicates emissions of this pollutant are not expected

[4] The annual total emissions apply a 25% safety factor for NOx, CO, VOC, and HAP emissions to account for any fluctuations in composition throughout the year.

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## Flare GHG Emisssions

**§98.233(n) Flare stack GHG emissions.**

**Step 1. If necessary, convert volume of gas sent to flare from actual to standard conditions using Equation W-33**

$$E_{s,n} = \frac{E_{a,n} * (459.67 + T_s) * P_a}{(459.67 + T_a) * P_s * Z_a}$$ *(Equation W-33)*

where:

$E_{s,n}$ = Natural gas volumetric emissions at standard temperature and pressure (STP) conditions in cubic feet

$E_{a,n}$ = Natural gas volumetric emissions at actual conditions in cubic feet

| | | | |
|---|---|---|---|
| $T_s$ = Temperature at standard conditions (F) = | 60 | °F | |
| $T_a$ = Temperature at actual conditions (F) = | 75.8 | °F | (Based on Annual Avg Max Tempurature for Roswell, NM from AP-42 Chapter 7) |
| $P_s$ = Absolute pressure at standard conditions (psia) = | 14.7 | psia | |
| $P_a$ = Absolute pressure at actual conditions (psia) = | 12.88 | psia | (Based on Avg Atmospheric Pressure for Roswell, NM from AP-42 Chapter 7) |
| $Z_a$ = Compressibility factor at actual conditions for natural gas | 1 | (default value) | |

**Step 2. Calculate $CO_2$ and $CH_4$ Emissions from Flaring at standard conditions using Equations W-19 & W-20**

$E_{s,CH4} = V_s * X_{CH4} * [ (1 - \eta) * Z_L + Z_U ]$ (Equation W-19)

$E_{s,CO2} = V_s * X_{CO2} * \Sigma (\eta * V_s * Y_j * R_j * Z_L)$ (Equation W-20)

where:

$V_s$ = Volume of gas sent to flare in standard cubic feet

$\eta$ = Flare combustion efficiency, expressed as fraction of gas combusted by a burning flare 0.98 (default value)

$X_{CH4}$ = Mole fraction of $CH_4$ in the feed gas to the flare

| Pilot Gas | Assist Gas | Acid Gas | Inlet Gas | Pigging |
|---|---|---|---|---|
| 0.8467 | 0.8467 | 0.004 | 0.749 | 0.749 |

$X_{CO2}$ = Mole fraction of $CO_2$ in the feed gas to the flare

| Pilot Gas | Assist Gas | Acid Gas | Inlet Gas | Pigging |
|---|---|---|---|---|
| 0.0344 | 0.0344 | 0.870 | 0.053 | 0.053 |

$Z_U$ = Fraction of the feed gas sent to an un-lit flare determined by engineering estimate and process knowledge based on best available data and operating records

$Z_L$ = Fraction of the feed gas sent to a burning flare (equal to 1 – $Z_U$) 1 (assumes all gas is sent to burning flare)

$Y_j$ = Mole fraction of hydrocarbon constituents j in the feed gas to the flare

| | Pilot Gas | Assist Gas | Acid Gas | Inlet Gas | Pigging |
|---|---|---|---|---|---|
| Constituent j, Methane = | 0.8467 | 0.8467 | 0.0038 | 0.7494 | 0.7494 |
| Constituent j, Ethane = | 0.0896 | 0.0896 | 0.0013 | 0.0949 | 0.0949 |
| Constituent j, Propane = | 0.0090 | 0.0090 | 0.0005 | 0.0457 | 0.0457 |
| Constituent j, Butane = | 0.0003 | 0.0003 | 0.0003 | 0.0229 | 0.0229 |
| Constituent j, Pentanes Plus = | 0.0002 | 0.0002 | 0.0001 | 0.0107 | 0.0106 |

$R_j$ = Number of carbon atoms in the hydrocarbon constituent j in the feed gas to the flare

| | |
|---|---|
| Constituent j, Methane = | 1 |
| Constituent j, Ethane = | 2 |
| Constituent j, Propane = | 3 |
| Constituent j, Butane = | 4 |
| Constituent j, Pentanes Plus = | 5 |

**Step 3. Calculate $CO_2$ and $CH_4$ mass emissions using Equation W-36 (98.233(v))**

$Mass_i = E_{s,i} * \rho_i * 10^{-3}$ (Equation W-36)

where:

$Mass_i$ = $GHG_i$ (either $CH_4$ or $CO_2$) mass emissions in metric tons

$E_{s,i}$ = $GHG_i$ (either $CH_4$ or $CO_2$) volumetric emissions at standard conditions, in cubic feet.

$\rho_i$ = Density of $GHG_i$

| | | |
|---|---|---|
| $CO_2$ = | 0.0526 | $kg/ft^3$ |
| $CH_4$ = | 0.0192 | $kg/ft^3$ |

**Step 4. Calculate N2O mass emissions using Equation W-40 (98.233(z))**

$Mass_{N2O} = (1* 10^{-3}) * Fuel * HHV * EF$ *(Equation W-40)*

where:

$Mass_{N2O}$ = Annual $N_2O$ emissions from the combustion of a particular type of fuel (metric tons)

Fuel = Annual mass or volume of the fuel combusted (mass or volume per year, choose appropriately to be consistent with the units of HHV).

HHV = high heat value of the fuel

| Pilot Gas | Assist Gas | Acid Gas | Inlet Gas | Pigging | |
|---|---|---|---|---|---|
| 0.0010 | 0.0010 | 0.000051 | 0.0012 | 0.0012 | MMBtu/scf |

EF = Use 1.0 × $10^{-4}$ kg $N_2O$/mmBtu.

1 * $10^{-3}$ = Conversion factor from kilograms to metric tons.

**Step 5. Calculate total annual emission from flare by summing Equations W-36 and W-40.**

| Gas Sent to Flare | Gas Sent to Flare (acf/yr) | Gas Sent to Flare (scf/yr) | Annual $CO_2$ Emissions (scf) | Annual $CH_4$ Emissions (scf) | Combusted $CO_2$ Mass Emissions (mtpy) | Uncombusted $CH_4$ Mass Emissions (mtpy) | $N_2O$ Mass Emissions (mtpy) | Combusted $CO_2$ Mass Emissions (tpy) | Uncombusted $CH_4$ Mass Emissions (tpy) | $N_2O$ Mass Emissions (tpy) | $CO_2e$ Mass Emissions (tpy) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pilot Gas** | 10,971,416.03 | 9,329,400.00 | 9,969,217.04 | 157,978.649 | 524.38 | 3.03 | 9.74E-04 | 578.03 | 3.34 | 1.07E-03 | 671.93 |
| **Assist Gas** | 176,400,669.40 | 150,000,000.00 | 160,287,109.20 | 2,540,013.000 | 8,431.10 | 48.77 | 0.02 | 9,293.69 | 53.76 | 0.02 | 10,803.48 |
| **Acid Gas** | 121,559,571.85 | 103,366,590.61 | 90,928,806.04 | 7,830.71 | 4,782.86 | 0.15 | 5.24E-04 | 5,272.19 | 0.17 | 5.77E-04 | 5,276.98 |
| **Inlet Gas** | 3,457,453.12 | 2,940,000.00 | 3,676,415 | 44,064.37 | 193.38 | 0.85 | 3.42E-04 | 213.16 | 0.93 | 3.77E-04 | 239.38 |
| **Pigging** | 60,291.15 | 51,267.79 | 64,077 | 768.40 | 3.37 | 0.01 | 6.00E-06 | 3.72 | 0.02 | 6.61E-06 | 4.17 |
| | | | | | | | **Total** | **15,360.79** | **58.22** | **0.02** | **16,995.94** |
| | | | | | | | GWP | 1 | 28 | 265 | |

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## RA2, FLARE

| | |
|---|---|
| Emission Unit: | RA2-FL-25100 |
| Source Description: | RA2, FLARE |
| Destruction Efficiency: | 98% |
| Units being controlled: | RA2-AMINE during AGI 2 downtime, Inlet Gas, SSM |
| Operating Hours: | 8760 hrs/yr |

The two AGI flares, RHA-FL-5100 and RA2-FL-25100, have three possible operating scenarios. In Scenario 1, both units operate at a reduced capacity. In Scenario 2, only RHA-FL-5100 is operating, and in Scenario 3, only RA2-FL-25100 is operating. Pilot and purge gas are combusted at both flares in all scenarios.

***VOC Heat Input and Flow Rate Calculation***

| Parameters | Scenario #1 | Scenario #3 | Unit | Notes |
|---|---|---|---|---|
| Amine VOC Emissions | 0.21 | 0.43 | lb/hr | Amine Regenerator still vent stream calculated by ProMax |
| Amine HAP Emissions | 0.07 | 0.14 | lb/hr | Amine Regenerator still vent stream calculated by ProMax |
| Amine $H_2S$ Emissions | 68.88 | 139.91 | lb/hr | Amine Regenerator still vent stream calculated by ProMax |
| Emissions with Safety Factor: | 0% | 0% | % | Safety Factor |
| Total VOC Emissions | 0.21 | 0.43 | lb/hr | Amine Regenerator still vent stream calculated by ProMax with safety factor |
| Total HAP Emissions | 0.07 | 0.14 | lb/hr | Amine Regenerator still vent stream calculated by ProMax with safety factor |
| Total $H_2S$ Emissions | 68.88 | 139.91 | lb/hr | Amine Regenerator still vent stream calculated by ProMax with safety factor |
| Amine Still Vent Heating Value | 75.39 | 75.39 | Btu/scf | Minimum from all scenarios |
| Amine Still Vent Flow Rate | 5471.31 | 11113.59 | scf/hr | Maximum from all scenarios |
| Total Heating Value | 75.39 | 75.39 | Btu/scf | Weighted average from flash and still vent |
| Total Flow | 5471.31 | 11113.59 | scf/hr | |
| Total Heating Value | 0.412 | 0.838 | MMBtu/hr | |
| Flow Rate with Safety Factor | 0% | 0% | % | Safety Factor |
| | 5471.31 | 11113.59 | scf/hr | Flow with safety factor |
| | 3.28 | 6.67 | MMscf/yr | |
| Heating Rate | 0.412 | 0.838 | MMBtu/hr | Hourly volume (MMscf/hr) * Heat rate (Btu/scf) |
| **Pilot and Sweep Gas** | **Scenario #1** | **Scenario #3** | **Unit** | **Notes** |
| Hourly Volume Flow Rate | 2565 | 2565 | scf/hr | Pilot and Sweep Gas |
| | 2.57E-03 | 2.57E-03 | MMscf/hr | |
| Natural gas heat value | 1043.50 | 1043.50 | Btu/scf | Facility Specification |
| Hourly Heat Rate | 2.677 | 2.677 | MMBtu/hr | Hourly volume (MMscf/hr) * Heat rate (Btu/scf) |
| | 22.47 | 22.47 | MMscf/yr | Hourly volume (MMscf/hr) * 129 hr/yr |
| **Assist Gas** | **Scenario #1** | **Scenario #3** | **Unit** | **Notes** |
| Hourly Volume Flow Rate | 250000.00 | 250000.00 | scf/hr | Assist flow with safety factor |
| | 0.250 | 0.250 | MMscf/hr | |
| Natural gas heat value | 1043.50 | 1043.50 | Btu/scf | Facility Specification |
| Minimum combustion BTU | 1022.77 | 1002.30 | Btu/scf | |
| Hourly Heat Rate | 260.88 | 260.88 | MMBtu/hr | Hourly volume (MMscf/hr) * Heat rate (Btu/scf) |
| | 150.00 | 150.00 | MMscf/yr | Hourly volume (MMscf/hr) * 129 hr/yr |
| **Inlet Gas** | **Scenario #1** | **Scenario #3** | **Unit** | **Notes** |
| Inlet VOC Emissions | 1957.37 | 3863.23 | lb/hr | Hourly Volume (scf/hr) / (379.5 scf/lb-mol) * Molecular Weight (lb/lb-mol) * VOC wt.% |
| Inlet Gas HAP Emissions | 23.35 | 46.10 | lb/hr | Hourly Volume (scf/hr) / (379.5 scf/lb-mol) * Molecular Weight (lb/lb-mol) * HAP wt.% |
| Inlet Gas $H_2S$ Emissions | 64.93 | 128.14 | lb/hr | Hourly Volume (scf/hr) / (379.5 scf/lb-mol) * Molecular Weight (lb/lb-mol) * $H_2S$ wt.% |
| Hourly Volume Flow Rate | 142500.00 | 281250.00 | scf/hr | Assumed AGI inlet flaring volume of 184 MMscfd |
| | 0.143 | 0.281 | MMscf/hr | |
| Natural gas heat value | 1163.38 | 1163.38 | Btu/scf | Facility Specification |
| Hourly Heat Rate | 165.78 | 327.20 | MMBtu/hr | Hourly volume (MMscf/hr) * Heat rate (Btu/scf) |
| | 3.42 | 6.75 | MMscf/yr | Hourly volume (MMscf/hr) * 24 hr/yr |

**Emission Rate Calculations**

| | NOx [1] | CO [1] | VOC | $SO_2$ [2] | $H_2S$ [2] | HAPs | Units | Notes |
|---|---|---|---|---|---|---|---|---|
| Emission Factors | 0.064 | 0.55 | | | | | lb/MMBtu | TNRCC RG-109 (low Btu; other) |
| | | | 5.50 | | | | lb/MMscf | Ap-42 Chapter 1.4 Table 1.4-1 |
| | | | 5.63 | | | | lb/MMscf | EF adjusted for Pilot/ Assist Gas |
| Fuel Sulfur and $H_2S$ Content | | | | 0.25 | | | gr S/100scf | Fuel sulfur content (gr/100scf) |
| | | | | 0.36 | | | lb S/MMscf | gr S/100 scf * (1 lb/7000 gr) * (10^6 scf/MMscf) |
| | | | | | 1.5 | | ppm | Conservative assumption |
| | | | | | 0.094 | | gr $H_2S$ /100scf | Pilot gas $H_2S$ content (gr/100scf) |
| | | | | | 0.13 | | lb $H_2S$/MMscf | gr $H_2S$/100 scf * (1 lb/7000 gr) * (10^6 scf/MM scf) |
| **Steady State:** Pilot Emissions | 0.17 | 1.471 | 0.01 | 1.83E-03 | 6.88E-06 | - | lb/hr | hourly rate |
| | 0.751 | 6.44 | 0.06 | 8.02E-03 | 3.02E-05 | - | tpy | (8760 hr/yr) / (2000 lb/ton) |
| **Scenario 1:** Assist Gas Emissions | 16.72 | 143.38 | 1.41 | 0.06 | 6.71E-04 | - | lb/hr | hourly rate |
| **Scenario 1:** Acid Gas Emissions | 0.03 | 0.23 | <0.01 | 127.06 | 1.38 | 1.352E-03 | lb/hr | hourly rate |
| **Scenario 1:** Inlet Gas Emissions | 10.63 | 91.11 | 39.15 | 119.77 | 1.30 | 0.47 | lb/hr | hourly rate |
| **Scenario 1:** SSM Emissions | - | - | - | - | - | - | *lb/hr* | *SSM cannot occur when both flares are operating.* |
| **Scenario 1:** Pigging Emissions | 0.15 | 0.29 | 0.50 | 1.91 | 0.021 | 7.55E-03 | lb/hr | Hourly emissions associated with pig launchers. |
| **Scenario 3:** Assist Gas Emissions | 16.72 | 143.38 | 1.41 | 0.06 | 6.71E-04 | - | lb/hr | hourly rate |
| **Scenario 3:** Acid Gas Emissions | 0.05 | 0.46 | 8.53E-03 | 258.10 | 2.80 | 2.747E-03 | lb/hr | hourly rate |
| **Scenario 3:** Inlet Gas Emissions | 20.97 | 179.83 | 77.26 | 236.39 | 2.56 | 0.92 | lb/hr | hourly rate |
| **Scenario 3:** SSM Emissions | - | - | - | - | - | - | *lb/hr* | *Referenced from SSM calculation workbook.* |
| **Scenario 3:** Pigging Emissions | 0.15 | 0.29 | 0.50 | 1.91 | 0.021 | 7.55E-03 | lb/hr | Hourly emissions associated with pig launchers. |
| **Scenario 1:** Maximum Hourly Emissions | **16.92** | **145.07** | **39.16** | **127.13** | **1.38** | **0.47** | lb/hr | Pilot + Max of Acid Gas, Inlet Gas, or SSM |
| **Scenario 2:** Maximum Hourly Emissions | **0.17** | **1.471** | **0.014** | **1.83E-03** | **6.88E-06** | **-** | lb/hr | Pilot Only |
| **Scenario 3:** Maximum Hourly Emissions | **21.15** | **181.30** | **77.28** | **258.17** | **2.80** | **0.92** | lb/hr | Pilot + Max of Acid Gas, Inlet Gas, or SSM |
| **Scenario 1:** Maximum Daily Emissions | **270.72** | **2,321.19** | **626.59** | **2,034.08** | **22.05** | **7.47** | lb/day | |
| **Scenario 2:** Maximum Daily Emissions | **2.75** | **23.54** | **0.23** | **0.029** | **1.10E-04** | **-** | lb/day | Pilot Only, Operating Continuously |
| **Scenario 3:** Maximum Daily Emissions | **338.32** | **2,900.81** | **1,236.47** | **4,130.65** | **44.78** | **14.75** | lb/day | |
| Annual Total Emissions[4] | **7.93** | **67.99** | **28.98** | **96.81** | **1.05** | **0.35** | tpy | Sum of all flaring on an annual basis. |

[1] Flare $NO_X$ and CO emission factors: TNRCC RG-109 (high Btu; other).

[2] Fuel sulfur content is assumed to be 0.25 gr/100 Scf

Mass balance assuming 98% combustion of $H_2S$ and 100% conversion of combusted $H_2S$ to $SO_2$:

Pilot Gas $SO_2$ Emissions (lb/hr) = (Pilot Gas Flow (Mscf/hr) * Fuel Gas Sulfur Content (lb S/Mscf)*(64 lb/lbmol $SO_2$ / 32 lb/lbmol S)) + (Pilot Gas Flow (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf)*(64 lb/lbmol $SO_2$ /34 lb/lbmol $H_2S$)*(DRE))

Pilot Gas $H_2S$ Emissions (lb/hr) = Pilot Gas Flow Rate (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf) * (1 - DRE)

Process $SO_2$ Emissions (lb/hr) = $H_2S$ Mass Flow Rate (lb/hr) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$)

[3] Hourly emissions for this unit assume that SSM flaring does not occur at the same time as acid gas flaring or inlet gas flaring. Assist gas emissions are directly associated with acid gas flaring events. The maximum of both

[4] The annual total emissions apply a 25% safety factor for NOx, CO, VOC, and HAP emissions to account for any fluctuations in composition throughout the year.

"-" Indicates emissions of this pollutant are not expected

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## Flare GHG Emisssions

**§98.233(n) Flare stack GHG emissions.**

**Step 1. If necessary, convert volume of gas sent to flare from actual to standard conditions using Equation W-33**

$$E_{s,n} = \frac{E_{a,n} * (459.67 + T_s) * P_a}{(459.67 + T_a) * P_s * Z_a}$$ *(Equation W-33)*

where:

$E_{s,n}$ = Natural gas volumetric emissions at standard temperature and pressure (STP) conditions in cubic feet

$E_{a,n}$ = Natural gas volumetric emissions at actual conditions in cubic feet

| | | | |
|---|---|---|---|
| $T_s$ = Temperature at standard conditions (F) = | 60 | °F | |
| $T_a$ = Temperature at actual conditions (F) = | 75.8 | °F | (Based on Annual Avg Max Tempurature for Roswell, NM from AP-42 Chapter 7) |
| $P_s$ = Absolute pressure at standard conditions (psia) = | 14.7 | psia | |
| $P_a$ = Absolute pressure at actual conditions (psia) = | 12.88 | psia | (Based on Avg Atmospheric Pressure for Roswell, NM from AP-42 Chapter 7) |
| $Z_a$ = Compressibility factor at actual conditions for natural gas | 1 | (default value) | |

**Step 2. Calculate $CO_2$ and $CH_4$ Emissions from Flaring at standard conditions using Equations W-19 & W-20**

$E_{s,CH4} = V_s * X_{CH4} * [ (1 - \eta) * Z_L + Z_U ]$ (Equation W-19)

$E_{s,CO2} = V_s * X_{CO2} * \sum (\eta * V_s * Y_j * R_j * Z_L)$ (Equation W-20)

where:

$E_{s,CH4}$ = Annual $CH_4$ emissions from flare stack in cubic feet, at standard conditions

$\eta$ = Flare combustion efficiency, expressed as fraction of gas combusted by a burning flare 0.98 (default value)

$X_{CH4}$ = Mole fraction of $CH_4$ in the feed gas to the flare

| Pilot Gas | Assist Gas | Process Gas | Inlet Gas | Pigging |
|---|---|---|---|---|
| 0.8467 | 0.8467 | 0.251 | 0.749 | 0.737 |

$X_{CO2}$ = Mole fraction of $CO_2$ in the feed gas to the flare

| Pilot Gas | Assist Gas | Process Gas | Inlet Gas | Pigging |
|---|---|---|---|---|
| 0.0344 | 0.0344 | 82.610 | 0.053 | 0.032 |

$Z_U$ = Fraction of the feed gas sent to an un-lit flare determined by engineering estimate and process knowledge based on best available data and operating records

$Z_L$ = Fraction of the feed gas sent to a burning flare (equal to 1 − $Z_U$) 1 (assumes all gas is sent to burning flare)

$Y_j$ = Mole fraction of hydrocarbon constituents j in the feed gas to the flare

| | Pilot Gas | Assist Gas | Process Gas | Inlet Gas | Pigging |
|---|---|---|---|---|---|
| Constituent j, Methane = | 0.8467 | 0.8467 | 0.2508 | 0.7494 | 0.7371 |
| Constituent j, Ethane = | 0.0896 | 0.0896 | 0.0822 | 0.0949 | 0.1102 |
| Constituent j, Propane = | 0.0090 | 0.0090 | 0.0298 | 0.0457 | 0.0582 |
| Constituent j, Butane = | 0.0003 | 0.0003 | 0.0153 | 0.0229 | 0.0275 |
| Constituent j, Pentanes Plus = | 0.0002 | 0.0002 | 0.0071 | 0.0107 | 0.0153 |

$R_j$ = Number of carbon atoms in the hydrocarbon constituent j in the feed gas to the flare

| | |
|---|---|
| Constituent j, Methane = | 1 |
| Constituent j, Ethane = | 2 |
| Constituent j, Propane = | 3 |
| Constituent j, Butane = | 4 |
| Constituent j, Pentanes Plus = | 5 |

**Step 3. Calculate $CO_2$ and $CH_4$ mass emissions using Equation W-36 (98.233(v))**

$Mass_i = E_{s,i} * \rho_i * 10^{-3}$ (Equation W-36)

where:

$Mass_i$ = $GHG_i$ (either $CH_4$ or $CO_2$) mass emissions in metric tons

$E_{s,i}$ = $GHG_i$ (either $CH_4$ or $CO_2$) volumetric emissions at standard conditions, in cubic feet.

$\rho_i$ = Density of $GHG_i$

| | | |
|---|---|---|
| $CO_2$ = | 0.0526 | $kg/ft^3$ |
| $CH_4$ = | 0.0192 | $kg/ft^3$ |

**Step 4. Calculate N2O mass emissions using Equation W-40 (98.233(z))**

$Mass_{N2O} = (1* 10^{-3}) * Fuel * HHV * EF$ *(Equation W-40)*

where:

$Mass_{N2O}$ = Annual $N_2O$ emissions from the combustion of a particular type of fuel (metric tons)

Fuel = Annual mass or volume of the fuel combusted (mass or volume per year, choose appropriately to be consistent with the units of HHV).

HHV = high heat value of the fuel

| Pilot Gas | Assist Gas | Process Gas | Inlet Gas | Pigging | |
|---|---|---|---|---|---|
| 0.0010 | 0.0010 | 0.000075 | 0.0012 | 0.0012 | MMBtu/scf |

EF = Use 1.0 × $10^{-4}$ kg $N_2O$/mmBtu.

1 * $10^{-3}$ = Conversion factor from kilograms to metric tons.

**Step 5. Calculate total annual emission from flare by summing Equations W-36 and W-40.**

| Gas Sent to Flare | Gas Sent to Flare (acf/yr) | Gas Sent to Flare (scf/yr) | Annual $CO_2$ Emissions (scf) | Annual $CH_4$ Emissions (scf) | Combusted $CO_2$ Mass Emissions (mtpy) | Uncombusted $CH_4$ Mass Emissions (mtpy) | $N_2O$ Mass Emissions (mtpy) | Combusted $CO_2$ Mass Emissions (tpy) | Uncombusted $CH_4$ Mass Emissions (tpy) | $N_2O$ Mass Emissions (tpy) | $CO_2e$ Mass Emissions (tpy) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pilot Gas** | 26,424,114.67 | 22,469,400.00 | 24,010,367.810 | 380,483.787 | 1,262.95 | 7.31 | 2.34E-03 | 1,392.16 | 8.05 | 2.58E-03 | 1,618.32 |
| **Assist Gas** | 176,400,669.40 | 150,000,000.00 | 160,287,109.20 | 2,540,013.00 | 8,431.10 | 48.77 | 0.02 | 9,293.69 | 53.76 | 0.02 | 10,803.48 |
| **Process Gas** | 3,860,567.82 | 3,282,783.31 | 273,126,469.69 | 16,465.82 | 14,366.45 | 0.32 | 2.47E-05 | 15,836.28 | 0.35 | 2.73E-05 | 15,846.05 |
| **Inlet Gas** | 4,021,935.26 | 3,420,000.00 | 4,276,646 | 51,258.55 | 224.95 | 0.98 | 3.98E-04 | 247.97 | 1.08 | 4.39E-04 | 278.46 |
| **Pigging** | 55,689.56 | 47,354.89 | 62,719 | 698.12 | 3.30 | 0.01 | 5.54E-06 | 3.64 | 0.01 | 6.11E-06 | 4.05 |
| | | | | | | | **Total** | **26,773.73** | **63.26** | **0.02** | **28,550.35** |
| | | | | | | | GWP | 1 | 28 | 265 | |

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## RHA, SOUR SLOP WATER STORAGE TANKS FLARE

Emission Unit: RHA-FL-5850
Source Description: RHA, SOUR SLOP WATER STORAGE TANKS FLARE
Destruction Efficiency: 98%
Units being controlled: RHA-TK-SLOP, RHA-TK-SLOP-LOAD
Operating Hours: 8760 hrs/yr

***VOC Heat Input and Flow Rate Calculation***

| Parameters | Value | Unit | Notes |
|---|---|---|---|
| RHA-TK-SLOP Sour Tank VOC Emissions | 0.0022 | tpy | Emissions determined by ProMax |
| RHA-TK-SLOP Sour Tank HAP Emissions | 0.0017 | tpy | Emissions determined by ProMax |
| RHA-TK-SLOP Sour Tank H2S Emissions | 3.217 | tpy | Emissions determined by ProMax |
| RHA-TK-SLOP-LOAD Sour Loading VOC Emissions | 1.31E-06 | lb/hr | Emissions determined by ProMax |
| | 1.73E-07 | tpy | Emissions determined by ProMax |
| RHA-TK-SLOP-LOAD Sour Loading HAP Emissions | 1.18E-04 | lb/hr | Emissions determined by ProMax |
| | 1.56E-05 | tpy | Emissions determined by ProMax |
| RHA-TK-SLOP-LOAD Sour Loading H2S Emissions | 0.18 | lb/hr | Emissions determined by ProMax |
| | 0.02 | tpy | Emissions determined by ProMax |
| Emissions with Safety Factor | 10% | % | Safety Factor |
| Total VOC Emissions | 5.43E-04 | lb/hr | RHA-TK-SLOP and RHA-TK-SLOP-LOAD emissions with Safety Factor |
| | 2.37E-03 | tpy | RHA-TK-SLOP and RHA-TK-SLOP-LOAD emissions with Safety Factor |
| Total HAP Emissions | 5.68E-04 | lb/hr | RHA-TK-SLOP and RHA-TK-SLOP-LOAD emissions with Safety Factor |
| | 1.94E-03 | tpy | RHA-TK-SLOP and RHA-TK-SLOP-LOAD emissions with Safety Factor |
| Total $H_2S$ Emissions | 1.01 | lb/hr | RHA-TK-SLOP and RHA-TK-SLOP-LOAD emissions with Safety Factor |
| | 3.56 | tpy | RHA-TK-SLOP and RHA-TK-SLOP-LOAD emissions with Safety Factor |
| RHA-TK-SLOP Sour Tank Heating Value | 143.77 | Btu/scf | Stream Heating Value determined by ProMax |
| RHA-TK-SLOP-LOAD Sour Loading Heating Value | 92.34 | Btu/scf | Emission Flow Rate determined by ProMax |
| RHA-TK-SLOP Sour Tank Flow Rate | 37.29 | scf/hr | Stream Heating Value determined by ProMax |
| RHA-TK-SLOP-LOAD Sour Loading Flow Rate | 0.46 | scf/hr | Emission Flow Rate determined by ProMax |
| Total Heating Value | 143.14 | Btu/scf | Weighted average |
| Total Flow | 37.76 | scf/hr | |
| Total Heating Value | 0.005 | MMBtu/hr | |
| Flow Rate with Safety Factor | 10% | % | Safety Factor |
| | 41.53 | scf/hr | Flow with safety factor |
| | 0.36 | MMscf/yr | |
| Heating Rate | 0.006 | MMBtu/hr | |
| **Pilot** | **Value** | **Unit** | **Notes** |
| Hourly Volume Flow Rate | 100.00 | scf/hr | Engineering Estimate |
| | 0 | % | Safety Factor |
| | 100 | scf/hr | Pilot flow with safety factor |
| | 0.0001 | MMScf/hr | |
| Natural gas heat value | 1043.5 | Btu/scf | Facility Specification |
| Hourly Heat Rate | 0.10435 | MMBtu/hr | |
| | 0.876 | MMScf/yr | |

**Emission Rate Calculations**

| | NOx [1] | CO [1] | VOC | $SO_2$ [2] | $H_2S$ [2] | HAPs | Units | Notes |
|---|---|---|---|---|---|---|---|---|
| Emission Factors | 0.064 | 0.55 | | | | | lb/MMBtu | TNRCC RG-109 (low Btu; other) |
| | | | 5.5 | | | | lb/MMscf | Ap-42 Chapter 1.4 Table 1.4-1 |
| | | | 5.63 | | | | lb/MMscf | Adjusted for Pilot/Purge |
| Fuel Sulfur and $H_2S$ Content | | | | | 2.50E-01 | | gr $H_2S$ /100scf | Pilot gas $H_2S$ content (gr/100scf) |
| | | | | | 3.57E-04 | | lb $H_2S$/Mscf | gr $H_2S$/100 scf * (1 lb/7000 gr) * (1000scf/Mscf) |
| Pilot Emissions | 6.69E-03 | 0.057 | 5.63E-04 | 7.00E-05 | 7.14E-07 | - | lb/hr | hourly rate |
| | 0.029 | 0.25 | 2.46E-03 | 3.07E-04 | 3.13E-06 | - | tpy | 8760 hr/yr/2000 lb/ton |
| Process Emissions | 3.81E-04 | 3.27E-03 | 1.09E-05 | 1.60 | 0.020 | 1.14E-05 | lb/hr | hourly rate |
| | 1.67E-03 | 0.014 | 4.74E-05 | 6.99 | 0.071 | 3.87E-05 | tpy | 8760 hr/yr/2000 lb/ton |
| *SSM Emissions* | *0.04* | *0.17* | *5.58E-07* | *0.05* | *5.756E-04* | *5.27E-07* | *lb/hr* | *Referenced from SSM Workbook Section* |
| | *2.07E-05* | *8.255E-05* | *2.79E-10* | *7.57E-03* | *2.878E-07* | *2.63E-10* | *tpy* | *Referenced from SSM Workbook Section* |
| Total Emissions | **0.05** | **0.22** | **5.74E-04** | **1.60** | **0.020** | **1.14E-05** | lb/hr | Maximum of Steady State and SSM |
| | **0.031** | **0.27** | **2.51E-03** | **6.99** | **0.071** | **3.87E-05** | tpy | Pilot + Process + SSM Emissions |

[1] Flare $NO_X$ and CO emission factors: TNRCC RG-109 (high Btu; other).
[2] Fuel $H_2S$ content is assumed to be 0.25 gr/100 Scf

Mass balance assuming 98% combustion of $H_2S$ and 100% conversion of combusted $H_2S$ to $SO_2$:
Pilot Gas $SO_2$ Emissions (lb/hr) = (Pilot Gas Flow (Mscf/hr) * Fuel Gas Sulfur Content (lb S/Mscf)*(64 lb/lbmol $SO_2$ / 32 lb/lbmol S)) + (Pilot Gas Flow (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf)*(64 lb/lbmol $SO_2$ /34 lb/lbmol $H_2S$)*(DRE))
Pilot Gas $H_2S$ Emsions (lb/hr) = Pilot Gas Flow Rate (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf) * (1 - DRE)
Process $SO_2$ Emsions (lb/hr) = $H_2S$ Mass Flow Rate (lb/hr) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$)

"-" Indicates emissions of this pollutant are not expected

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## Flare GHG Emisssions

**§98.233(n) Flare stack GHG emissions.**

**Step 1. If necessary, convert volume of gas sent to flare from actual to standard conditions using Equation W-33**

$$E_{s,n} = \frac{E_{a,n} * (459.67 + T_s) * P_a}{(459.67 + T_a) * P_s * Z_a}$$ *(Equation W-33)*

where:

$E_{s,n}$ = Natural gas volumetric emissions at standard temperature and pressure (STP) conditions in cubic feet

$E_{a,n}$ = Natural gas volumetric emissions at actual conditions in cubic feet

| | | | |
|---|---|---|---|
| $T_s$ = Temperature at standard conditions (F) = | 60 | °F | |
| $T_a$ = Temperature at actual conditions (F) = | 75.8 | °F | (Based on Annual Avg Max Tempurature for Roswell, NM from AP-42 Chapter 7) |
| $P_s$ = Absolute pressure at standard conditions (psia) = | 14.7 | psia | |
| $P_a$ = Absolute pressure at actual conditions (psia) = | 12.88 | psia | (Based on Avg Atmospheric Pressure for Roswell, NM from AP-42 Chapter 7) |
| $Z_a$ = Compressibility factor at actual conditions for natural gas | 1 | (default value) | |

**Step 2. Calculate $CO_2$ and $CH_4$ Emissions from Flaring at standard conditions using Equations W-19 & W-20**

$E_{s,CH4} = V_s * X_{CH4} * [ (1 - \eta) * Z_L + Z_U ]$ (Equation W-19)

$E_{s,CO2} = V_s * X_{CO2} * \Sigma (\eta * V_s * Y_j * R_j * Z_L)$ (Equation W-20)

where:

$E_{s,CH4}$ = Annual $CH_4$ emissions from flare stack in cubic feet, at standard conditions

$E_{s,CO2}$ = Annual $CO_2$ emissions from flare stack in cubic feet, at standard conditions

$V_s$ = Volume of gas sent to flare in standard cubic feet

$\eta$ = Flare combustion efficiency, expressed as fraction of gas combusted by a burning flare: 0.98 (default value)

$X_{CH4}$ = Mole fraction of $CH_4$ in the feed gas to the flare

| Pilot Gas | Process Gas |
|---|---|
| 0.8467 | 0.00012 |

$X_{CO2}$ = Mole fraction of $CO_2$ in the feed gas to the flare

| Pilot Gas | Process Gas |
|---|---|
| 0.0344 | 0.739 |

$Z_U$ = Fraction of the feed gas sent to an un-lit flare determined by engineering estimate and process knowledge based on best available data and operating records

$Z_L$ = Fraction of the feed gas sent to a burning flare (equal to $1 - Z_U$): 1 (assumes all gas is sent to burning flare)

$Y_j$ = Mole fraction of hydrocarbon constituents j in the feed gas to the flare

| | Pilot Gas | Process Gas |
|---|---|---|
| Constituent j, Methar | 0.8467 | 0.000124 |
| Constituent j, Ethane | 0.0896 | 0.000047 |
| Constituent j, Propan | 0.0090 | 0.000013 |
| Constituent j, Butane | 0.0003 | 0.000006 |
| Constituent j, Pentan | 0.0002 | 0.000050 |

$R_j$ = Number of carbon atoms in the hydrocarbon constituent j in the feed gas to the flare

| |
|---|
| Constituent j, Methar 1 |
| Constituent j, Ethane 2 |
| Constituent j, Propan 3 |
| Constituent j, Butane 4 |
| Constituent j, Pentan 5 |

**Step 3. Calculate $CO_2$ and $CH_4$ mass emissions using Equation W-36 (98.233(v))**

$Mass_i = E_{s,i} * \rho_i * 10^{-3}$ (Equation W-36)

where:

$Mass_i$ = $GHG_i$ (either $CH_4$ or $CO_2$) mass emissions in metric tons

$E_{s,i}$ = $GHG_i$ (either $CH_4$ or $CO_2$) volumetric emissions at standard conditions, in cubic feet.

$\rho_i$ = Density of $GHG_i$

$CO_2$ = 0.0526 $kg/ft^3$

$Mass_{N2O} = (1* 10^{-3}) * Fuel * HHV * EF$ *(Equation W-40)*

where:

$Mass_{N2O}$ = Annual $N_2O$ emissions from the combustion of a particular type of fuel (metric tons)

Fuel = Annual mass or volume of the fuel combusted (mass or volume per year, choose appropriately to be consistent with the units of HHV).

HHV = high heat value of the fuel

| Pilot Gas | Process Gas | |
|---|---|---|
| 0.0010 | 0.00014 | MMBtu/scf |

EF = Use $1.0 \times 10^{-4}$ kg $N_2O$/mmBtu.

$1 * 10^{-3}$ = Conversion factor from kilograms to metric tons.

**Step 5. Calculate total annual emission from flare by summing Equations W-36 and W-40.**

| Gas Sent to Flare | Gas Sent to Flare (acf/yr) | Gas Sent to Flare (scf/yr) | Annual $CO_2$ Emissions (scf) | Annual $CH_4$ Emissions (scf) | Combusted $CO_2$ Mass Emissions (mtpy) | Uncombusted $CH_4$ Mass Emissions (mtpy) | $N_2O$ Mass Emissions (mtpy) | Combusted $CO_2$ Mass Emissions (tpy) | Uncombusted $CH_4$ Mass Emissions (tpy) | $N_2O$ Mass Emissions (tpy) | $CO_2e$ Mass Emissions (tpy) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pilot Gas** | 427,853.31 | 363,819.46 | 388,770.466 | 6,160.708 | 20.45 | 0.12 | 3.80E-05 | 22.54 | 0.13 | 4.18E-05 | 26.20 |
| **Process Gas** | 427,853.31 | 363,819.46 | 269,069.21 | 0.91 | 14.15 | 1.74E-05 | 5.21E-06 | 15.60 | 1.92E-05 | 5.74E-06 | 15.60 |
| | | | | | | | **Total** | **38.14** | **0.13** | **4.76E-05** | **41.81** |
| | | | | | | | GWP | 1 | 28 | 265 | |

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## RA2, FLARE

| | | |
|---|---|---|
| Emission Unit: | RA2-FL-25850 | |
| Source Description: | RA2, FLARE | |
| Destruction Efficiency: | 98% | |
| Units being controlled: | -TK-SLOP, RA2-TK-SLOP-LOAD | |
| Operating Hours: | 8760 | hrs/yr |

***VOC Heat Input and Flow Rate Calculation***

| Parameters | Value | Unit | Notes |
|---|---|---|---|
| RA2-TK-SLOP Sour Tank VOC Emissions | 2.10E-03 | tpy | Emissions determined by ProMax |
| RA2-TK-SLOP Sour Tank HAP Emissions | 1.56E-03 | tpy | Emissions determined by ProMax |
| RA2-TK-SLOP Sour Tank H2S Emissions | 3.63 | tpy | Emissions determined by ProMax |
| RA2-TK-SLOP-LOAD Sour Loading VOC Emissions | 1.24E-04 | lb/hr | Emissions determined by ProMax |
| | 3.03E-05 | tpy | Emissions determined by ProMax |
| RA2-TK-SLOP-LOAD Sour Loading HAP Emissions | 1.06E-04 | lb/hr | Emissions determined by ProMax |
| | 2.58E-05 | tpy | Emissions determined by ProMax |
| RA2-TK-SLOP-LOAD Sour Loading H2S Emissions | 0.22 | lb/hr | Emissions determined by ProMax |
| | 0.05 | tpy | Emissions determined by ProMax |
| Emissions with Safety Factor | 10% | % | Safety Factor |
| Total VOC Emissions | 6.65E-04 | lb/hr | RA2-TK-SLOP and RA2-TK-SLOP-LOAD emissions with Safety Factor |
| | 2.35E-03 | tpy | RA2-TK-SLOP and RA2-TK-SLOP-LOAD emissions with Safety Factor |
| Total HAP Emissions | 5.09E-04 | lb/hr | RA2-TK-SLOP and RA2-TK-SLOP-LOAD emissions with Safety Factor |
| | 1.75E-03 | tpy | RA2-TK-SLOP and RA2-TK-SLOP-LOAD emissions with Safety Factor |
| Total $H_2S$ Emissions | 1.15 | lb/hr | RA2-TK-SLOP and RA2-TK-SLOP-LOAD emissions with Safety Factor |
| | 4.05 | tpy | RA2-TK-SLOP and RA2-TK-SLOP-LOAD emissions with Safety Factor |
| RA2-TK-SLOP Sour Tank Heating Value | 126.66 | Btu/scf | Stream Heating Value determined by ProMax |
| RA2-TK-SLOP-LOAD Sour Loading Heating Value | 58.63 | Btu/scf | Emission Flow Rate determined by ProMax |
| RA2-TK-SLOP Sour Tank Flow Rate | 36.76 | scf/hr | Stream Heating Value determined by ProMax |
| RA2-TK-SLOP-LOAD Sour Loading Flow Rate | 15.34 | scf/hr | Emission Flow Rate determined by ProMax |
| Total Heating Value | 106.63 | Btu/scf | Weighted average |
| Total Flow | 52.10 | scf/hr | |
| Total Heating Value | 0.0056 | MMBtu/hr | |
| | 10% | % | Safety Factor |
| Flow Rate with Safety Factor | 57.31 | scf/hr | Flow with safety factor |
| | 0.50 | MMscf/yr | |
| Heating Rate | 0.0061 | MMBtu/hr | |

| Pilot | Value | Unit | Notes |
|---|---|---|---|
| | 100.00 | scf/hr | Engineering Estimate |
| Hourly Volume Flow Rate | | % | Safety Factor |
| | 100 | scf/hr | Pilot flow with safety factor |
| | 0.0001 | MMScf/hr | |
| Natural Gas Heat Value | 1043.5 | Btu/scf | Facility Specification |
| Hourly Heat Rate | 0.10435 | MMBtu/hr | |
| Annual Flow Rate | 0.876 | MMScf/yr | |

**Emission Rate Calculations**

| | NOx [1] | CO [1] | VOC | $SO_2$ [2] | $H_2S$ [2] | HAPs | Units | Notes |
|---|---|---|---|---|---|---|---|---|
| Emission Factors | 0.064 | 0.55 | | | | | lb/MMBtu | TNRCC RG-109 (low Btu; other) |
| | | | 5.5 | | | | lb/MMscf | Ap-42 Chapter 1.4 Table 1.4-1 |
| | | | 5.63 | | | | lb/MMscf | Adjusted for Pilot/Purge |
| Fuel Sulfur and $H_2S$ Content | | | | | 2.50E-01 | | gr $H_2S$ /100scf | Pilot gas $H_2S$ content (gr/100scf) |
| | | | | | 3.57E-04 | | lb $H_2S$/Mscf | gr $H_2S$/100 scf * (1 lb/7000 gr) * (1000scf/Mscf) |
| Pilot Emissions | 6.69E-03 | 0.057 | 5.63E-04 | 7.00E-05 | 5.00E-04 | - | lb/hr | hourly rate |
| | 0.029 | 0.25 | 2.46E-03 | 3.07E-04 | 2.19E-03 | - | tpy | 8760 hr/yr/2000 lb/ton |
| Process Emissions | 3.92E-04 | 3.36E-03 | 1.33E-05 | 1.81 | 0.023 | 1.02E-05 | lb/hr | hourly rate |
| | 1.72E-03 | 0.015 | 4.69E-05 | 7.94 | 0.023 | 3.50E-05 | tpy | 8760 hr/yr/2000 lb/ton |
| *SSM Emissions* | *0.23* | *0.92* | *0.04* | *0.30* | *3.20E-03* | *0.031* | *lb/hr* | *Referenced from SSM Workbook Section* |
| | *2.59E-04* | *1.03E-03* | *7.65E-05* | *7.74E-03* | *2.20E-06* | *6.31E-05* | *tpy* | *Referenced from SSM Workbook Section* |
| Total Emissions | **0.24** | **0.98** | **0.04** | **1.81** | **0.024** | **0.031** | lb/hr | Maximum of Steady State and SSM |
| | **0.031** | **0.27** | **######** | **7.95** | **0.025** | **9.80E-05** | tpy | Pilot + Process + SSM Emissions |

[1] Flare $NO_X$ and CO emission factors: TNRCC RG-109 (low Btu; other).

[2] Fuel $H_2S$ content is assumed to be 0.25 gr/100 Scf

Mass balance assuming 98% combustion of $H_2S$ and 100% conversion of combusted $H_2S$ to $SO_2$:

Pilot Gas $SO_2$ Emissions (lb/hr) = (Pilot Gas Flow (Mscf/hr) * Fuel Gas Sulfur Content (lb S/Mscf)*(64 lb/lbmol $SO_2$ / 32 lb/lbmol S)) + (Pilot Gas Flow (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf)*(64 lb/lbmol $SO_2$ /34 lb/lbmol $H_2S$)*(DRE))

Pilot Gas $H_2S$ Emissions (lb/hr) = Pilot Gas Flow Rate (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf) * (1 - DRE)

Process $SO_2$ Emissions (lb/hr) = $H_2S$ Mass Flow Rate (lb/hr) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$)

"-" Indicates emissions of this pollutant are not expected

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## Flare GHG Emisssions

**§98.233(n) Flare stack GHG emissions.**

**Step 1. If necessary, convert volume of gas sent to flare from actual to standard conditions using Equation W-33**

$$E_{s,n} = \frac{E_{a,n} * (459.67 + T_s) * P_a}{(459.67 + T_a) * P_s * Z_a}$$ *(Equation W-33)*

where:

$E_{s,n}$ = Natural gas volumetric emissions at standard temperature and pressure (STP) conditions in cubic feet

$E_{a,n}$ = Natural gas volumetric emissions at actual conditions in cubic feet

| | | | |
|---|---|---|---|
| $T_s$ = Temperature at standard conditions (F) = | 60 | °F | |
| $T_a$ = Temperature at actual conditions (F) = | 75.8 | °F | (Based on Annual Avg Max Tempurature for Roswell, NM from AP-42 Chapter 7) |
| $P_s$ = Absolute pressure at standard conditions (psia) = | 14.7 | psia | |
| $P_a$ = Absolute pressure at actual conditions (psia) = | 12.88 | psia | (Based on Avg Atmospheric Pressure for Roswell, NM from AP-42 Chapter 7) |
| $Z_a$ = Compressibility factor at actual conditions for natural gas | 1 | (default value) | |

**Step 2. Calculate $CO_2$ and $CH_4$ Emissions from Flaring at standard conditions using Equations W-19 & W-20**

$E_{s,CH4} = V_s * X_{CH4} * [ (1 - \eta) * Z_L + Z_U ]$ (Equation W-19)

$E_{s,CO2} = V_s * X_{CO2} * \Sigma (\eta * V_s * Y_i * R_i * Z_L)$ (Equation W-20)

where:

$E_{s,CH4}$ = Annual $CH_4$ emissions from flare stack in cubic feet, at standard conditions

$E_{s,CO2}$ = Annual $CO_2$ emissions from flare stack in cubic feet, at standard conditions

$V_s$ = Volume of gas sent to flare in standard cubic feet

$\eta$ = Flare combustion efficiency, expressed as fraction of gas combusted by a burning flare 0.98 (default value)

$X_{CH4}$ = Mole fraction of $CH_4$ in the feed gas to the flare

| Pilot Gas | Process Gas |
|---|---|
| 0.8467 | 0.00019 |

$X_{CO2}$ = Mole fraction of $CO_2$ in the feed gas to the flare

| Pilot Gas | Process Gas |
|---|---|
| 0.0344 | 0.764 |

$Z_U$ = Fraction of the feed gas sent to an un-lit flare determined by engineering estimate and process knowledge based on best available data and operating records

$Z_L$ = Fraction of the feed gas sent to a burning flare (equal to 1 – $Z_U$) 1 (assumes all gas is sent to burning flare)

$Y_i$ = Mole fraction of hydrocarbon constituents j in the feed gas to the flare

| | Pilot Gas | Process Gas |
|---|---|---|
| Constituent j, Methane = | 0.8467 | 0.000192 |
| Constituent j, Ethane = | 0.0896 | 0.000070 |
| Constituent j, Propane = | 0.0090 | 0.000019 |
| Constituent j, Butane = | 0.0003 | 0.000009 |
| Constituent j, Pentanes P | 0.0002 | 0.000050 |

$R_j$ = Number of carbon atoms in the hydrocarbon constituent j in the feed gas to the flare

| | |
|---|---|
| Constituent j, Methane = | 1 |
| Constituent j, Ethane = | 2 |
| Constituent j, Propane = | 3 |
| Constituent j, Butane = | 4 |
| Constituent j, Pentanes P | 5 |

**Step 3. Calculate $CO_2$ and $CH_4$ mass emissions using Equation W-36 (98.233(v))**

$Mass_i = E_{s,i} * \rho_i * 10^{-3}$ (Equation W-36)

where:

$Mass_i$ = $GHG_i$ (either $CH_4$ or $CO_2$) mass emissions in metric tons

$E_{s,i}$ = $GHG_i$ (either $CH_4$ or $CO_2$) volumetric emissions at standard conditions, in cubic feet.

$\rho_i$ = Density of $GHG_i$

$CO_2$ = 0.0526 $kg/ft^3$

$Mass_{N2O} = (1* 10^{-3}) * Fuel * HHV * EF$ *(Equation W-40)*

where:

$Mass_{N2O}$ = Annual $N_2O$ emissions from the combustion of a particular type of fuel (metric tons)

Fuel = Annual mass or volume of the fuel combusted (mass or volume per year, choose appropriately to be consistent with the units of HHV).

HHV = high heat value of the fuel

| Pilot Gas | Process Gas | |
|---|---|---|
| 0.0010 | 0.0001 | MMBtu/scf |

EF = Use 1.0 × $10^{-4}$ kg $N_2O$/mmBtu.

1 * $10^{-3}$ = Conversion factor from kilograms to metric tons.

**Step 5. Calculate total annual emission from flare by summing Equations W-36 and W-40.**

| Gas Sent to Flare | Gas Sent to Flare (acf/yr) | Gas Sent to Flare (scf/yr) | Annual $CO_2$ Emissions (scf) | Annual $CH_4$ Emissions (scf) | Combusted $CO_2$ Mass Emissions (mtpy) | Uncombusted $CH_4$ Mass Emissions (mtpy) | $N_2O$ Mass Emissions (mtpy) | Combusted $CO_2$ Mass Emissions (tpy) | Uncombusted $CH_4$ Mass Emissions (tpy) | $N_2O$ Mass Emissions (tpy) | $CO_2e$ Mass Emissions (tpy) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pilot Gas** | 1,030,179.91 | 876,000.00 | 936,076.718 | 14,833.676 | 49.24 | 0.28 | 9.14E-05 | 54.28 | 0.31 | 1.01E-04 | 63.09 |
| **Process Gas** | 590,426.36 | 502,061.32 | 383,750.27 | 1.93 | 20.19 | 3.70E-05 | 5.35E-06 | 22.25 | 4.08E-05 | 5.90E-06 | 22.25 |
| | | | | | | | **Total** | **76.53** | **0.31** | **1.07E-04** | **85.35** |
| | | | | | | | GWP | 1 | 28 | 265 | |

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# RH1, CONDENSATE STORAGE TANKS FLARE

| | |
|---|---|
| Emission Unit: | RH1-FL-2850 |
| Source Description: | RH1, CONDENSATE STORAGE TANKS FLARE |
| Destruction Efficiency: | 98% |
| Units being controlled: | Units RH1-TK-COND-EAST, RH1-TK-COND-WEST, and RH1-TK-COND-WEST-LOAD |
| Operating Hours: | 8760 hrs/yr |

***VOC Heat Input and Flow Rate Calculation***

| Parameters | Value | Unit | Notes |
|---|---|---|---|
| RH1-TK-COND-EAST VOC Emissions | 15.09 | tpy | Flashing, working, and standing emissions derived by ProMax |
| RH1-TK-COND-EAST, HAP Emissions | 1.55 | tpy | Flashing, working, and standing emissions derived by ProMax |
| RH1-TK-COND-EAST H2S Emissions | 0.00 | tpy | Flashing, working, and standing emissions derived by ProMax |
| RH1-TK-COND-WEST and RH1-TK-COND-WEST-LOAD VOC | 34.69 | tpy | Flashing, working, standing, and loading emissions derived by ProMax |
| RH1-TK-COND-WEST and RH1-TK-COND-WEST-LOAD HAP | 3.55 | tpy | Flashing, working, standing, and loading emissions derived by ProMax |
| RH1-TK-COND-WEST and RH1-TK-COND-WEST-LOAD H2S | 0.00 | tpy | Flashing, working, standing, and loading emissions derived by ProMax |
| Emissions with Safety Factor: | 10% | % | Safety Factor |
| Total VOC Emissions | 54.76 | tpy | RH1-TK-COND-EAST, RH1-TK-COND-WEST, and RH1-TK-COND-WEST-LOAD emissions with Safety Factor |
| Total HAP Emissions | 5.61 | tpy | |
| Total $H_2S$ Emissions | 0.00 | tpy | |
| RH1-TK-COND-EAST Heating Value | 3395.00 | Btu/scf | Flashing, working, and standing emissions derived by ProMax |
| RH1-TK-COND-EAST Flow rate | 19.83 | scf/hr | Flashing, working, and standing emissions derived by ProMax |
| RH1-TK-COND-WEST and RH1-TK-COND-WEST-LOAD Heat | 3395.00 | Btu/scf | Flashing, working, standing, and loading emissions derived by ProMax |
| RH1-TK-COND-WEST and RH1-TK-COND-WEST-LOAD Gas | 37.81 | scf/hr | Flashing, working, standing, and loading emissions derived by ProMax |
| Total Heating Value | 3395.00 | Btu/scf | Weighted average from flash and still vent |
| Total Flow | 57.64 | scf/hr | |
| Total Heating Value | 0.196 | MMBtu/hr | |
| Flow Rate with Safety Factor | 100% | % | Safety Factor |
| | 115.28 | scf/hr | Flow with safety factor |
| | 1.01 | MMscf/yr | |
| Heating Rate | 0.39 | MMBtu/hr | |
| **Pilot** | **Value** | **Unit** | **Notes** |
| Hourly Volume Flow Rate | 100 | scf/hr | Engineering Estimate |
| | 1.00E-04 | MMscf/hr | |
| Natural gas heat value | 1043.50 | Btu/scf | Facility Specification |
| Hourly Heat Rate | 0.10 | MMBtu/hr | |
| | 0.88 | MMscf/yr | |

**Emission Rate Calculations**

| | $NO_x$ [1] | CO [1] | VOC | $SO_2$ [2] | $H_2S$ [2] | HAPs | Units | Notes |
|---|---|---|---|---|---|---|---|---|
| Emission Factors | 0.138 | 0.28 | | | | | lb/MMBtu | TNRCC RG-109 (high Btu; other) |
| Fuel Sulfur and $H_2S$ Content | | | | | 0.25 | | gr $H_2S$ /100scf | Pilot gas $H_2S$ content (gr/100scf) |
| | | | | | 0.36 | | lb $H_2S$/MMscf | gr $H_2S$/100 scf * (1 lb/7000 gr) * (10^6 scf/MM scf) |
| Pilot Emissions | 0.01 | 0.029 | 0.12 | 6.59E-05 | 7.14E-07 | - | lb/hr | hourly rate |
| | 0.063 | 0.13 | 0.52 | 2.89E-04 | 3.13E-06 | - | tpy | (8760 hr/yr) / (2000 lb/ton) |
| Process Emissions | 0.05 | 0.11 | 0.25 | - | - | 0.026 | lb/hr | hourly rate |
| | 0.24 | 0.47 | 1.10 | - | - | 0.11 | tpy | (8760 hr/yr) / (2000 lb/ton) |
| *SSM Emissions* | *7.72* | *30.73* | *77.62* | - | - | *7.95* | *lb/hr* | *Referenced from SSM Workbook Section* |
| | *0.02* | *0.065* | *0.16* | - | - | *9.99E-03* | *tpy* | *Referenced from SSM Workbook Section* |
| Total Emissions | **7.73** | **30.76** | **77.74** | **6.59E-05** | **7.14E-07** | **7.95** | lb/hr | Maximum of Steady State and SSM |
| | **0.32** | **0.66** | **1.78** | **2.89E-04** | **3.13E-06** | **0.12** | tpy | Pilot + Process + SSM Emissions |

[1] Flare $NO_x$ and CO emission factors: TNRCC RG-109 (high Btu; other).

[2] Fuel sulfur content is assumed to be 2 gr/100 Scf

Mass balance assuming 98% combustion of $H_2S$ and 100% conversion of combusted $H_2S$ to $SO_2$:

Pilot Gas $SO_2$ Emissions (lb/hr) = (Pilot Gas Flow (Mscf/hr) * Fuel Gas Sulfur Content (lb S/Mscf)*(64 lb/lbmol $SO_2$ / 32 lb/lbmol S)) + (Pilot Gas Flow (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf)*(64 lb/lbmol $SO_2$ /34 lb/lbmol $H_2S$)*(DRE))

Pilot Gas $H_2S$ Emissions (lb/hr) = Pilot Gas Flow Rate (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf) * (1 - DRE)

Process $SO_2$ Emissions (lb/hr) = $H_2S$ Mass Flow Rate (lb/hr) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$)

"-" Indicates emissions of this pollutant are not expected

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## Flare GHG Emisssions

**§98.233(n) Flare stack GHG emissions.**

**Step 1. If necessary, convert volume of gas sent to flare from actual to standard conditions using Equation W-33**

$$E_{s,n} = \frac{E_{a,n} * (459.67 + T_s) * P_a}{(459.67 + T_a) * P_s * Z_a}$$ *(Equation W-33)*

where:

$E_{s,n}$ = Natural gas volumetric emissions at standard temperature and pressure (STP) conditions in cubic feet

$E_{a,n}$ = Natural gas volumetric emissions at actual conditions in cubic feet

| | | | |
|---|---|---|---|
| $T_s$ = Temperature at standard conditions (F) = | 60 | °F | |
| $T_a$ = Temperature at actual conditions (F) = | 75.8 | °F | (Based on Annual Avg Max Tempurature for Roswell, NM from AP-42 Chapter 7) |
| $P_s$ = Absolute pressure at standard conditions (psia) = | 14.7 | psia | |
| $P_a$ = Absolute pressure at actual conditions (psia) = | 12.88 | psia | (Based on Avg Atmospheric Pressure for Roswell, NM from AP-42 Chapter 7) |
| $Z_a$ = Compressibility factor at actual conditions for natural gas | 1 | (default value) | |

**Step 2. Calculate $CO_2$ and $CH_4$ Emissions from Flaring at standard conditions using Equations W-19 & W-20**

$E_{s,CH4} = V_s * X_{CH4} * [ (1 - \eta) * Z_L + Z_U ]$ (Equation W-19)

$E_{s,CO2} = V_s * X_{CO2} * \Sigma (\eta * V_s * Y_j * R_j * Z_L)$ (Equation W-20)

where:

$E_{s,CH4}$ = Annual $CH_4$ emissions from flare stack in cubic feet, at standard conditions

$E_{s,CO2}$ = Annual $CO_2$ emissions from flare stack in cubic feet, at standard conditions

$V_s$ = Volume of gas sent to flare in standard cubic feet

$\eta$ = Flare combustion efficiency, expressed as fraction of gas combusted by a burning flare 0.98 (default value)

$X_{CH4}$ = Mole fraction of $CH_4$ in the feed gas to the flare

| Pilot Gas | Process Gas |
|---|---|
| 0.8467 | 0.000 |

$X_{CO2}$ = Mole fraction of $CO_2$ in the feed gas to the flare

| Pilot Gas | Process Gas |
|---|---|
| 0.0344 | 0.000 |

$Z_U$ = Fraction of the feed gas sent to an un-lit flare determined by engineering estimate and process knowledge based on best available data and operating records

$Z_L$ = Fraction of the feed gas sent to a burning flare (equal to $1 - Z_U$) 1 (assumes all gas is sent to burning flare)

$Y_j$ = Mole fraction of hydrocarbon constituents j in the feed gas to the flare

| | Pilot Gas | Process Gas |
|---|---|---|
| Constituent j, Methane = | 0.8467 | 0.0000 |
| Constituent j, Ethane = | 0.0896 | 0.0441 |
| Constituent j, Propane = | 0.0090 | 0.2199 |
| Constituent j, Butane = | 0.0003 | 0.3829 |
| Constituent j, Pentanes P | 0.0002 | 2.0654 |

$R_j$ = Number of carbon atoms in the hydrocarbon constituent j in the feed gas to the flare

Constituent j, Methane = 1

Constituent j, Ethane = 2

Constituent j, Propane = 3

**Step 3. Calculate $CO_2$ and $CH_4$ mass emissions using Equation W-36 (98.233(v))**

$Mass_i = E_{s,i} * \rho_i * 10^{-3}$ (Equation W-36)

where:

$Mass_i$ = $GHG_i$ (either $CH_4$ or $CO_2$) mass emissions in metric tons

$E_{s,i}$ = $GHG_i$ (either $CH_4$ or $CO_2$) volumetric emissions at standard conditions, in cubic feet.

$\rho_i$ = Density of $GHG_i$

| | | |
|---|---|---|
| $CO_2$ = | 0.0526 | $kg/ft^3$ |
| $CH_4$ = | 0.0192 | $kg/ft^3$ |

**Step 4. Calculate N2O mass emissions using Equation W-40 (98.233(z))**

$Mass_{N2O} = (1* 10^{-3}) * Fuel * HHV * EF$ *(Equation W-40)*

where:

$Mass_{N2O}$ = Annual $N_2O$ emissions from the combustion of a particular type of fuel (metric tons)

Fuel = Annual mass or volume of the fuel combusted (mass or volume per year, choose appropriately to be consistent with the units of HHV).

HHV = high heat value of the fuel

| Pilot Gas | Process Gas | |
|---|---|---|
| 0.0010 | 0.0034 | MMBtu/scf |

EF = Use $1.0 \times 10^{-4}$ kg $N_2O$/mmBtu.

$1 * 10^{-3}$ = Conversion factor from kilograms to metric tons.

**Step 5. Calculate total annual emission from flare by summing Equations W-36 and W-40.**

| Gas Sent to Flare | Gas Sent to Flare (acf/yr) | Gas Sent to Flare (scf/yr) | Annual $CO_2$ Emissions (scf) | Annual $CH_4$ Emissions (scf) | Combusted $CO_2$ Mass Emissions (mtpy) | Uncombusted $CH_4$ Mass Emissions (mtpy) | $N_2O$ Mass Emissions (mtpy) | Combusted $CO_2$ Mass Emissions (tpy) | Uncombusted $CH_4$ Mass Emissions (tpy) | $N_2O$ Mass Emissions (tpy) | $CO_2e$ Mass Emissions (tpy) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pilot Gas** | 1,030,179.91 | 876,000.00 | 936,076.718 | 14,833.676 | 49.24 | 0.28 | 9.14E-05 | 54.28 | 0.31 | 1.01E-04 | 63.09 |
| **Process Gas** | 1,187,565.04 | 1,009,830.39 | 12,475,706.06 | - | 656.22 | - | 3.43E-04 | 723.36 | - | 3.78E-04 | 723.46 |
| | | | | | | | **Total** | **777.64** | **0.31** | **4.79E-04** | **786.55** |
| | | | | | | | GWP | 1 | 28 | 265 | |

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# RH4, SLOP WATER STORAGE TANKS FLARE

| | |
|---|---|
| Emission Unit: | RH4-FL-46200 |
| Source Description: | RH4, SLOP WATER STORAGE TANKS FLARE |
| Destruction Efficiency: | 98% |
| Units being controlled: | Units RH4-TK SLOP, RH4, TK-46200-46230, SLOP WATER STORAGE TANKS, TRUCK LOADING |
| Operating Hours: | 8760 hrs/yr |

***VOC Heat Input and Flow Rate Calculation***

| Parameters | Value | Unit | Notes |
|---|---|---|---|
| RH4-TK-SLOP, VOC Emissions | 1174.93 | tpy | Flashing, working, and standing emissions derived by ProMax |
| RH4-TK-SLOP, HAP Emissions | 56.64 | tpy | Flashing, working, and standing emissions derived by ProMax |
| RH4-TK-SLOP, $H_2S$ Emissions | 0.00 | tpy | Flashing, working, and standing emissions derived by ProMax |
| RH4-TK-SLOP-LOAD, VOC Emissions | 1.85 | tpy | Flashing, working, standing, and loading emissions derived by ProMax |
| RH4-TK-SLOP-LOAD, HAP Emissions | 0.06 | tpy | Flashing, working, standing, and loading emissions derived by ProMax |
| RH4-TK-SLOP-LOAD, $H_2S$ Emissions | 0.00 | tpy | Flashing, working, standing, and loading emissions derived by ProMax |
| Emissions with Safety Factor: | 10% | % | Safety Factor |
| Total VOC Emissions | 1294.46 | tpy | RH1-TK-COND-EAST, RH1-TK-COND-WEST, and RH1-TK-COND-WEST-LOAD emissions with Safety Factor |
| Total HAP Emissions | 62.37 | tpy | |
| Total $H_2S$ Emissions | 0.00 | tpy | |
| RH4-TK-SLOP Heating Value | 2978.26 | Btu/scf | Flashing, working, and standing emissions derived by ProMax |
| RH4-TK-SLOP Flow rate | 2060.42 | scf/hr | Flashing, working, and standing emissions derived by ProMax |
| RH4-TK-SLOP-LOAD Heating Value | 3172.21 | Btu/scf | Loading parameters derived by ProMax |
| RH4-TK-SLOP-LOAD Gas Flow rate | 92.89 | scf/hr | Loading parameters derived by ProMax |
| Total Heating Value | 2986.63 | Btu/scf | Weighted average from flash and still vent |
| Total Flow | 2153.30 | scf/hr | |
| Total Heating Value | 6.431 | MMBtu/hr | |
| Flow Rate with Safety Factor | 10% | % | Safety Factor |
| | 2368.64 | scf/hr | Flow with safety factor |
| | 20.75 | MMscf/yr | |
| Heating Rate | 7.07 | MMBtu/hr | |
| **Pilot** | **Value** | **Unit** | **Notes** |
| Hourly Volume Flow Rate | 100 | scf/hr | Engineering Estimate |
| | 1.00E-04 | MMscf/hr | |
| Natural gas heat value | 1043.50 | Btu/scf | Facility Specification |
| Hourly Heat Rate | 0.10 | MMBtu/hr | |
| | 0.88 | MMscf/yr | |

**Emission Rate Calculations**

| | $NO_x$ [1] | CO [1] | VOC | $SO_2$ [2] | $H_2S$ [2] | HAPs | Units | Notes |
|---|---|---|---|---|---|---|---|---|
| Emission Factors | 0.138 | 0.28 | | | | | lb/MMBtu | TNRCC RG-109 (high Btu; other) |
| Fuel Sulfur and $H_2S$ Content | | | | | 0.25 | | gr $H_2S$ /100scf | Pilot gas $H_2S$ content (gr/100scf) |
| | | | | | 0.36 | | lb $H_2S$/MMscf | gr $H_2S$/100 scf * (1 lb/7000 gr) * (10^6 scf/MM scf) |
| Pilot Emissions | 0.01 | 0.029 | 0.12 | 6.59E-05 | 7.14E-07 | - | lb/hr | hourly rate |
| | 0.063 | 0.13 | 0.52 | 2.89E-04 | 3.13E-06 | - | tpy | (8760 hr/yr) / (2000 lb/ton) |
| Process Emissions | 0.98 | 1.95 | 5.91 | - | - | 0.285 | lb/hr | hourly rate |
| | 4.28 | 8.54 | 25.89 | - | - | 1.25 | tpy | (8760 hr/yr) / (2000 lb/ton) |
| Total Emissions | **0.99** | **1.98** | **6.03** | **6.59E-05** | **7.14E-07** | **0.28** | lb/hr | Maximum of Steady State and SSM |
| | **4.34** | **8.66** | **26.41** | **2.89E-04** | **3.13E-06** | **1.25** | tpy | Pilot + Process + SSM Emissions |

[1] Flare $NO_X$ and CO emission factors: TNRCC RG-109 (high Btu; other).

[2] Fuel sulfur content is assumed to be 2 gr/100 Scf

Mass balance assuming 98% combustion of $H_2S$ and 100% conversion of combusted $H_2S$ to $SO_2$:

Pilot Gas $SO_2$ Emissions (lb/hr) = (Pilot Gas Flow (Mscf/hr) * Fuel Gas Sulfur Content (lb S/Mscf)*(64 lb/lbmol $SO_2$ / 32 lb/lbmol S)) + (Pilot Gas Flow (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf)*(64 lb/lbmol $SO_2$ /34 lb/lbmol $H_2S$)*(DRE))

Pilot Gas $H_2S$ Emissions (lb/hr) = Pilot Gas Flow Rate (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf) * (1 - DRE)

Process $SO_2$ Emissions (lb/hr) = $H_2S$ Mass Flow Rate (lb/hr) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$)

"-" Indicates emissions of this pollutant are not expected

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## Flare GHG Emisssions

**§98.233(n) Flare stack GHG emissions.**

**Step 1. If necessary, convert volume of gas sent to flare from actual to standard conditions using Equation W-33**

$$E_{s,n} = \frac{E_{a,n} * (459.67 + T_s) * P_a}{(459.67 + T_a) * P_s * Z_a}$$ *(Equation W-33)*

where:

$E_{s,n}$ = Natural gas volumetric emissions at standard temperature and pressure (STP) conditions in cubic feet

$E_{a,n}$ = Natural gas volumetric emissions at actual conditions in cubic feet

| | | | |
|---|---|---|---|
| $T_s$ = Temperature at standard conditions (F) = | 60 | °F | |
| $T_a$ = Temperature at actual conditions (F) = | 75.8 | °F | (Based on Annual Avg Max Tempurature for Roswell, NM from AP-42 Chapter 7) |
| $P_s$ = Absolute pressure at standard conditions (psia) = | 14.7 | psia | |
| $P_a$ = Absolute pressure at actual conditions (psia) = | 12.88 | psia | (Based on Avg Atmospheric Pressure for Roswell, NM from AP-42 Chapter 7) |
| $Z_a$ = Compressibility factor at actual conditions for natural gas | 1 | (default value) | |

**Step 2. Calculate $CO_2$ and $CH_4$ Emissions from Flaring at standard conditions using Equations W-19 & W-20**

$E_{s,CH4} = V_s * X_{CH4} * [ (1 - \eta) * Z_L + Z_U ]$ (Equation W-19)

$E_{s,CO2} = V_s * X_{CO2} * \Sigma (\eta * V_s * Y_j * R_j * Z_L)$ (Equation W-20)

where:

$E_{s,CH4}$ = Annual $CH_4$ emissions from flare stack in cubic feet, at standard conditions

$E_{s,CO2}$ = Annual $CO_2$ emissions from flare stack in cubic feet, at standard conditions

$V_s$ = Volume of gas sent to flare in standard cubic feet

$\eta$ = Flare combustion efficiency, expressed as fraction of gas combusted by a burning flare 0.98 (default value)

$X_{CH4}$ = Mole fraction of $CH_4$ in the feed gas to the flare

| Pilot Gas | Process Gas |
|---|---|
| 0.8467 | 0.031 |

$X_{CO2}$ = Mole fraction of $CO_2$ in the feed gas to the flare

| Pilot Gas | Process Gas |
|---|---|
| 0.0344 | 0.006 |

$Z_U$ = Fraction of the feed gas sent to an un-lit flare determined by engineering estimate and process knowledge based on best available data and operating records

$Z_L$ = Fraction of the feed gas sent to a burning flare (equal to $1 - Z_U$) 1 (assumes all gas is sent to burning flare)

$Y_j$ = Mole fraction of hydrocarbon constituents j in the feed gas to the flare

| | Pilot Gas | Process Gas |
|---|---|---|
| Constituent j, Methane = | 0.8467 | 0.0306 |
| Constituent j, Ethane = | 0.0896 | 0.1071 |
| Constituent j, Propane = | 0.0090 | 0.2519 |
| Constituent j, Butane = | 0.0003 | 0.2873 |
| Constituent j, Pentanes Plus = | 0.0002 | 0.1772 |

$R_j$ = Number of carbon atoms in the hydrocarbon constituent j in the feed gas to the flare

| | |
|---|---|
| Constituent j, Methane = | 1 |
| Constituent j, Ethane = | 2 |
| Constituent j, Propane = | 3 |

**Step 3. Calculate $CO_2$ and $CH_4$ mass emissions using Equation W-36 (98.233(v))**

$Mass_i = E_{s,i} * \rho_i * 10^{-3}$ (Equation W-36)

where:

$Mass_i$ = $GHG_i$ (either $CH_4$ or $CO_2$) mass emissions in metric tons

$E_{s,i}$ = $GHG_i$ (either $CH_4$ or $CO_2$) volumetric emissions at standard conditions, in cubic feet.

$\rho_i$ = Density of $GHG_i$

| | | |
|---|---|---|
| $CO_2$ = | 0.0526 | $kg/ft^3$ |
| $CH_4$ = | 0.0192 | $kg/ft^3$ |

**Step 4. Calculate N2O mass emissions using Equation W-40 (98.233(z))**

$Mass_{N2O} = (1* 10^{-3}) * Fuel * HHV * EF$ *(Equation W-40)*

where:

$Mass_{N2O}$ = Annual $N_2O$ emissions from the combustion of a particular type of fuel (metric tons)

Fuel = Annual mass or volume of the fuel combusted (mass or volume per year, choose appropriately to be consistent with the units of HHV).

HHV = high heat value of the fuel

| Pilot Gas | Process Gas | |
|---|---|---|
| 0.0010 | 0.0030 | MMBtu/scf |

EF = Use $1.0 \times 10^{-4}$ kg $N_2O$/mmBtu.

$1 * 10^{-3}$ = Conversion factor from kilograms to metric tons.

**Step 5. Calculate total annual emission from flare by summing Equations W-36 and W-40.**

| Gas Sent to Flare | Gas Sent to Flare (acf/yr) | Gas Sent to Flare (scf/yr) | Annual $CO_2$ Emissions (scf) | Annual $CH_4$ Emissions (scf) | Combusted $CO_2$ Mass Emissions (mtpy) | Uncombusted $CH_4$ Mass Emissions (mtpy) | $N_2O$ Mass Emissions (mtpy) | Combusted $CO_2$ Mass Emissions (tpy) | Uncombusted $CH_4$ Mass Emissions (tpy) | $N_2O$ Mass Emissions (tpy) | $CO_2e$ Mass Emissions (tpy) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pilot Gas** | 1,030,179.91 | 876,000.00 | 936,076.718 | 14,833.676 | 49.24 | 0.28 | 9.14E-05 | 54.28 | 0.31 | 1.01E-04 | 63.09 |
| **Process Gas** | 24,401,203.35 | 20,749,243.83 | 61,859,254.24 | 12,698.12 | 3,253.80 | 0.24 | 6.20E-03 | 3,586.69 | 0.27 | 6.83E-03 | 3,596.03 |
| | | | | | | | **Total** | **3,640.97** | **0.58** | **6.93E-03** | **3,659.12** |

**Targa Northern Delaware LLC - Red Hills Gas Processing Plant**
**RH1-FL-29-1003 - Flare Malfunction Calculations**

Emission Unit: RH1-FL-29-1003
Source Description: Train 1 Flare
Destruction Efficiency: 98%

**Annual Flared Gas Volume:[1]**

| Max Hourly Flared Gas (MSCF/hr): | 52.7 |
|---|---|

| Component | Mol Wt (lb/lb-mol) [2] | Component Net Heating Value (BTU/scf) [2] | Red Hills North (mol%) |
|---|---|---|---|
| Helium | 4.003 | 0 | 0.023% |
| Nitrogen | 28.013 | 0 | 2.070% |
| Carbon Dioxide | 44.010 | 0 | 3.329% |
| Oxygen and Argon | 31.999 | 0 | 0.000% |
| H2S | 34.081 | 587 | <0.001% |
| Methane | 16.043 | 909 | 74.513% |
| Ethane | 30.069 | 1,619 | 11.049% |
| Propane | 44.096 | 2,315 | 5.537% |
| i-Butane | 58.122 | 3,000 | 0.716% |
| n-Butane | 58.122 | 3,011 | 1.626% |
| i-Pentane | 72.149 | 3,699 | 0.360% |
| n-Pentane | 72.149 | 3,707 | 0.368% |
| benzene | 78.112 | 3,591 | 0.021% |
| cyclohexane | 84.160 | 4,180 | 0.041% |
| methylcyclopentane | 84.160 | 4,198 | 0.035% |
| n-hexane | 86.175 | 4,404 | 0.078% |
| Other Hexanes | 86.175 | 4,404 | 0.134% |
| n-heptane | 100.202 | 5,100 | 0.071% |
| toluene | 92.138 | 4,273 | 0.011% |
| ethylbenzene | 106.165 | 4,971 | <0.001% |
| m-xylene+p-xylene | 106.165 | 4,905 | 0.001% |
| n-octane | 114.229 | 5,796 | 0.015% |
| o-xylene | 106.165 | 4,958 | <0.001% |
| n-nonane | 128.255 | 6,493 | 0.003% |
| n-decane | 142.282 | 7,190 | <0.001% |
| n-undecane | 156.308 | 7,886 | <0.001% |
| n-dodecane | 170.335 | 8,583 | <0.001% |
| n-tridecane | 184.361 | 9,279 | 0.000% |
| **TOTAL =** | **22.02** | **1100.56** | **100.00%** |

**Stream Emission Calculation:**

| Components | Hourly Emissions (pph)[3] | Hourly MMBTU Rate [4] MMBTU/hr |
|---|---|---|
| Helium | 0.13 | 0.00 |
| Nitrogen | 80.48 | 0.00 |
| Carbon Dioxide | 203.34 | 0.00 |
| Oxygen and Argon | 0.00 | 0.00 |
| H2S | 0.01 | 6.18E-05 |
| Methane | 1659.24 | 35.69 |
| Ethane | 461.16 | 9.42 |
| Propane | 338.91 | 6.75 |
| i-Butane | 57.76 | 1.13 |
| n-Butane | 131.16 | 2.58 |
| i-Pentane | 36.07 | 0.70 |
| n-Pentane | 36.82 | 0.72 |
| benzene | 2.32 | 0.04 |
| cyclohexane | 4.78 | 0.09 |
| methylcyclopentane | 4.11 | 0.08 |
| n-hexane | 9.34 | 0.18 |
| Other Hexanes | 15.98 | 0.31 |
| n-heptane | 9.84 | 0.19 |
| toluene | 1.39 | 0.02 |
| ethylbenzene | 0.06 | 0.00 |
| m-xylene+p-xylene | 0.14 | 0.00 |
| n-octane | 2.34 | 0.05 |
| o-xylene | 0.04 | 0.00 |
| n-nonane | 0.53 | 0.01 |
| n-decane | 0.01 | 0.00 |
| n-undecane | 0.01 | 0.00 |
| n-dodecane | 0.01 | 0.00 |
| n-tridecane | 0.00 | 0.00 |
| **Total BTU Values =** | | **57.96** |

| Malfunction Flaring Summary | |
|---|---|
| | **pph** |
| **Total =** | 3,055.98 |
| **Total VOC =** | 651.63 |
| **Total HAP =** | 10.97 |
| **Total $H_2S$ =** | 0.01 |

| Controlled Flaring Stream[5] | |
|---|---|
| | **pph** |
| **VOC =** | 13.03 |
| **HAP =** | 0.22 |
| **$H_2S$ =** | 0.0002 |

Notes:
(1) Conservatively estimated annual gas volume. Hourly volume determined from historical site data.
(2) Component Molecular Weights from the following source: BR&E Promax
Component Net Heating Values from the following source: BR&E Promax
(3) Hourly and Annual Event gas emissions calculated as follows:
Hourly Emissions (lb/hr) = Hourly Gas Volume (scf/hr) * Component Mol Wt (lb/lb-mol) * Component Mole% / 379.4 $ft^3$/lb mol
Annual Emissions (tpy) = Annual Gas Volume (scf/yr) * Component Mol Wt (lb/lb-mol) * Component Mole% / 379.4 $ft^3$/lb mol / 2000 lb/ton
(4) Component BTU/hr = [ Component Hourly Emissions (pph) * Component Net Heating Value (BTU/scf) * 379.4 $ft^3$/lb-mol ] / Component Mol Wt (lb/lb-mol)
Component BTU/yr = [ Component Annual Emissions (tpy) * 2000 lb/ton * Component Net Heating Value (BTU/scf) * 379.4 $ft^3$/lb-mol ] / Component Mol Wt (lb/lb-mol)
Total Net BTU/event = Sum of all Individual Component BTU/event
(5) VOC, HAP and $H_2S$ emissions estimated based on event stream routed to flare and 98% efficiency.

**Gas Flaring Emissions Calculations**

| Unit ID | Pollutant | Emission Factors (lb/MMBTU)[1] | Emissions lb/hr |
|---|---|---|---|
| RH1-FL-29-1003 | $NO_X$ | 0.138 | 8.00 |
| | CO | 0.2755 | 15.97 |
| | VOC | Mass Balance [2] | 13.03 |
| | HAP | Mass Balance [2] | 0.22 |
| | $H_2S$ | Mass Balance [2] | <0.01 |
| | $SO_2$ | Stoichiometric[1] | <0.01 |

Flare Stream: 57.96 Max Net Hourly MMBTU Value (MMBTU/hr)

Notes:
(1) Flare $NO_X$ and CO emission factors: TNRCC RG-109 (high Btu; other). $SO_2$: Mass balance assuming 98% combustion of $H_2S$ and 100% conversion of combusted $H_2S$ to $SO_2$:
Pilot Gas $SO_2$ Emissions (lb/hr) = [(Pilot Gas Flow (Mscf/hr) * Fuel Gas Sulfur Content (lb S/Mscf)*(64 lb/lbmol $SO_2$ / 32 lb/lbmol S)) + ( Pilot Gas Flow (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf)*(64 lb/lbmol $SO_2$ /34
(2) VOC, HAP and $H_2S$ emissions estimated based on event stream routed to flare and 98% efficiency.

**Targa Northern Delaware LLC - Red Hills Gas Processing Plant**
**RH2-FL-5100, RH3-FL-5100, RH4-FL-45100 - Flare Malfunction Calculations**

Emission Unit: RH2-FL-5100, RH3-FL-5100, and RH4-FL-45100
Source Description: Trains 2, 3, and 4 Flares
Destruction Efficiency: 98%

**Annual Flared Gas Volume:[1]**

| Max Hourly Flared Gas (MSCF/hr): | 32.9 |
|---|---|

| Component | Mol Wt (lb/lb-mol) [2] | Component Net Heating Value (BTU/scf) [2] | Red Hills North (mol%) |
|---|---|---|---|
| Helium | 4.003 | 0 | 0.023% |
| Nitrogen | 28.013 | 0 | 2.070% |
| Carbon Dioxide | 44.010 | 0 | 3.329% |
| Oxygen and Argon | 31.999 | 0 | 0.000% |
| H2S | 34.081 | 587 | <0.001% |
| Methane | 16.043 | 909 | 74.513% |
| Ethane | 30.069 | 1,619 | 11.049% |
| Propane | 44.096 | 2,315 | 5.537% |
| i-Butane | 58.122 | 3,000 | 0.716% |
| n-Butane | 58.122 | 3,011 | 1.626% |
| i-Pentane | 72.149 | 3,699 | 0.360% |
| n-Pentane | 72.149 | 3,707 | 0.368% |
| benzene | 78.112 | 3,591 | 0.021% |
| cyclohexane | 84.160 | 4,180 | 0.041% |
| methylcyclopentane | 84.160 | 4,198 | 0.035% |
| n-hexane | 86.175 | 4,404 | 0.078% |
| Other Hexanes | 86.175 | 4,404 | 0.134% |
| n-heptane | 100.202 | 5,100 | 0.071% |
| toluene | 92.138 | 4,273 | 0.011% |
| ethylbenzene | 106.165 | 4,971 | <0.001% |
| m-xylene+p-xylene | 106.165 | 4,905 | 0.001% |
| n-octane | 114.229 | 5,796 | 0.015% |
| o-xylene | 106.165 | 4,958 | <0.001% |
| n-nonane | 128.255 | 6,493 | 0.003% |
| n-decane | 142.282 | 7,190 | <0.001% |
| n-undecane | 156.308 | 7,886 | <0.001% |
| n-dodecane | 170.335 | 8,583 | <0.001% |
| n-tridecane | 184.361 | 9,279 | 0.000% |
| **TOTAL =** | **22.02** | **1100.56** | **100.00%** |

**Stream Emission Calculation:**

| Components | Hourly Emissions (pph)[3] | Hourly MMBTU Rate [4] MMBTU/hr |
|---|---|---|
| Helium | 0.08 | 0.00 |
| Nitrogen | 50.30 | 0.00 |
| Carbon Dioxide | 127.09 | 0.00 |
| Oxygen and Argon | 0.00 | 0.00 |
| H2S | 0.01 | 3.86E-05 |
| Methane | 1037.02 | 22.30 |
| Ethane | 288.22 | 5.89 |
| Propane | 211.82 | 4.22 |
| i-Butane | 36.10 | 0.71 |
| n-Butane | 81.98 | 1.61 |
| i-Pentane | 22.55 | 0.44 |
| n-Pentane | 23.01 | 0.45 |
| benzene | 1.45 | 0.03 |
| cyclohexane | 2.99 | 0.06 |
| methylcyclopentane | 2.57 | 0.05 |
| n-hexane | 5.84 | 0.11 |
| Other Hexanes | 9.99 | 0.19 |
| n-heptane | 6.15 | 0.12 |
| toluene | 0.87 | 0.02 |
| ethylbenzene | 0.04 | 0.00 |
| m-xylene+p-xylene | 0.09 | 0.00 |
| n-octane | 1.47 | 0.03 |
| o-xylene | 0.02 | 0.00 |
| n-nonane | 0.33 | 0.01 |
| n-decane | 0.01 | 0.00 |
| n-undecane | 0.01 | 0.00 |
| n-dodecane | 0.01 | 0.00 |
| n-tridecane | 0.00 | 0.00 |
| | **Total BTU Values =** | **36.22** |

| Malfunction Flaring Summary | |
|---|---|
| | **pph** |
| **Total =** | 1,909.99 |
| **Total VOC =** | 407.27 |
| **Total HAP =** | 6.86 |
| **Total $H_2S$ =** | 0.01 |

| Controlled Flaring Stream[5] | |
|---|---|
| | **pph** |
| **VOC =** | 8.15 |
| **HAP =** | 0.14 |
| **$H_2S$ =** | 0.0001 |

Notes:
(1) Conservatively estimated annual gas volume. Hourly volume determined from historical site data.
(2) Component Molecular Weights from the following source: BR&E Promax
Component Net Heating Values from the following source: BR&E Promax
(3) Hourly and Annual Event gas emissions calculated as follows:
Hourly Emissions (lb/hr) = Hourly Gas Volume (scf/hr) * Component Mol Wt (lb/lb-mol) * Component Mole% / 379.4 $ft^3$/lb mol
Annual Emissions (tpy) = Annual Gas Volume (scf/yr) * Component Mol Wt (lb/lb-mol) * Component Mole% / 379.4 $ft^3$/lb mol / 2000 lb/ton
(4) Component BTU/hr = [ Component Hourly Emissions (pph) * Component Net Heating Value (BTU/scf) * 379.4 $ft^3$/lb-mol ] / Component Mol Wt (lb/lb-mol)
Component BTU/yr = [ Component Annual Emissions (tpy) * 2000 lb/ton * Component Net Heating Value (BTU/scf) * 379.4 $ft^3$/lb-mol ] / Component Mol Wt (lb/lb-mol)
Total Net BTU/event = Sum of all Individual Component BTU/event
(5) VOC, HAP and $H_2S$ emissions estimated based on event stream routed to flare and 98% efficiency.

**Gas Flaring Emissions Calculations**

| Unit ID | Pollutant | Emission Factors (lb/MMBTU)[1] | Emissions lb/hr |
|---|---|---|---|
| -FL-5100, RH3-FL-5100, and RH4-FL-4 | $NO_X$ | 0.138 | 5.00 |
| | CO | 0.2755 | 9.98 |
| | VOC | Mass Balance [2] | 8.15 |
| | HAP | Mass Balance [2] | 0.14 |
| | $H_2S$ | Mass Balance [2] | <0.01 |
| | $SO_2$ | Stoichiometric[1] | <0.01 |

Flare Stream: 36.22 Max Net Hourly MMBTU Value (MMBTU/hr)

Notes:
(1) Flare $NO_X$ and CO emission factors: TNRCC RG-109 (high Btu; other). $SO_2$: Mass balance assuming 98% combustion of $H_2S$ and 100% conversion of combusted $H_2S$ to $SO_2$:
Pilot Gas $SO_2$ Emissions (lb/hr) = [(Pilot Gas Flow (Mscf/hr) * Fuel Gas Sulfur Content (lb S/Mscf)*(64 lb/lbmol $SO_2$ / 32 lb/lbmol S)) + ( Pilot Gas Flow (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf)*(64 lb/lbmol $SO_2$
(2) VOC, HAP and $H_2S$ emissions estimated based on event stream routed to flare and 98% efficiency.

**Targa Northern Delaware LLC - Red Hills Gas Processing Plant**
**RH5-FL-55100 Flare Malfunction Calculations**

Emission Unit: RH5-FL-55100
Source Description: Train 5 Flare
Destruction Efficiency: 98%

**Annual Flared Gas Volume:[1]**

| Max Hourly Flared Gas (MSCF/hr): | 32.9 |
|---|---|

| Component | Mol Wt (lb/lb-mol) [2] | Component Net Heating Value (BTU/scf) [2] | Red Hills North (mol%) |
|---|---|---|---|
| Helium | 4.003 | 0 | 0.023% |
| Nitrogen | 28.013 | 0 | 2.070% |
| Carbon Dioxide | 44.010 | 0 | 3.329% |
| Oxygen and Argon | 31.999 | 0 | 0.000% |
| H2S | 34.081 | 587 | <0.001% |
| Methane | 16.043 | 909 | 74.513% |
| Ethane | 30.069 | 1,619 | 11.049% |
| Propane | 44.096 | 2,315 | 5.537% |
| i-Butane | 58.122 | 3,000 | 0.716% |
| n-Butane | 58.122 | 3,011 | 1.626% |
| i-Pentane | 72.149 | 3,699 | 0.360% |
| n-Pentane | 72.149 | 3,707 | 0.368% |
| benzene | 78.112 | 3,591 | 0.021% |
| cyclohexane | 84.160 | 4,180 | 0.041% |
| methylcyclopentane | 84.160 | 4,198 | 0.035% |
| n-hexane | 86.175 | 4,404 | 0.078% |
| Other Hexanes | 86.175 | 4,404 | 0.134% |
| n-heptane | 100.202 | 5,100 | 0.071% |
| toluene | 92.138 | 4,273 | 0.011% |
| ethylbenzene | 106.165 | 4,971 | <0.001% |
| m-xylene+p-xylene | 106.165 | 4,905 | 0.001% |
| n-octane | 114.229 | 5,796 | 0.015% |
| o-xylene | 106.165 | 4,958 | <0.001% |
| n-nonane | 128.255 | 6,493 | 0.003% |
| n-decane | 142.282 | 7,190 | <0.001% |
| n-undecane | 156.308 | 7,886 | <0.001% |
| n-dodecane | 170.335 | 8,583 | <0.001% |
| n-tridecane | 184.361 | 9,279 | 0.000% |
| **TOTAL =** | **22.02** | **1100.56** | **100.00%** |

**Stream Emission Calculation:**

| Components | Hourly Emissions (pph)[3] | Hourly MMBTU Rate [4] MMBTU/hr |
|---|---|---|
| Helium | 0.08 | 0.00 |
| Nitrogen | 50.30 | 0.00 |
| Carbon Dioxide | 127.09 | 0.00 |
| Oxygen and Argon | 0.00 | 0.00 |
| H2S | 0.01 | 3.86E-05 |
| Methane | 1037.02 | 22.30 |
| Ethane | 288.22 | 5.89 |
| Propane | 211.82 | 4.22 |
| i-Butane | 36.10 | 0.71 |
| n-Butane | 81.98 | 1.61 |
| i-Pentane | 22.55 | 0.44 |
| n-Pentane | 23.01 | 0.45 |
| benzene | 1.45 | 0.03 |
| cyclohexane | 2.99 | 0.06 |
| methylcyclopentane | 2.57 | 0.05 |
| n-hexane | 5.84 | 0.11 |
| Other Hexanes | 9.99 | 0.19 |
| n-heptane | 6.15 | 0.12 |
| toluene | 0.87 | 0.02 |
| ethylbenzene | 0.04 | 0.00 |
| m-xylene+p-xylene | 0.09 | 0.00 |
| n-octane | 1.47 | 0.03 |
| o-xylene | 0.02 | 0.00 |
| n-nonane | 0.33 | 0.01 |
| n-decane | 0.01 | 0.00 |
| n-undecane | 0.01 | 0.00 |
| n-dodecane | 0.01 | 0.00 |
| n-tridecane | 0.00 | 0.00 |
| | **Total BTU Values =** | **36.22** |

| Malfunction Flaring Summary | |
|---|---|
| | **pph** |
| **Total =** | 1,909.99 |
| **Total VOC =** | 407.27 |
| **Total HAP =** | 6.86 |
| **Total $H_2S$ =** | 0.01 |

| Controlled Flaring Stream[5] | |
|---|---|
| | **pph** |
| **VOC =** | 8.15 |
| **HAP =** | 0.14 |
| **$H_2S$ =** | 0.0001 |

Notes:
(1) Conservatively estimated annual gas volume. Hourly volume determined from historical site data.
(2) Component Molecular Weights from the following source: BR&E Promax
Component Net Heating Values from the following source: BR&E Promax
(3) Hourly and Annual Event gas emissions calculated as follows:
Hourly Emissions (lb/hr) = Hourly Gas Volume (scf/hr) * Component Mol Wt (lb/lb-mol) * Component Mole% / 379.4 $ft^3$/lb mol
Annual Emissions (tpy) = Annual Gas Volume (scf/yr) * Component Mol Wt (lb/lb-mol) * Component Mole% / 379.4 $ft^3$/lb mol / 2000 lb/ton
(4) Component BTU/hr = [ Component Hourly Emissions (pph) * Component Net Heating Value (BTU/scf) * 379.4 $ft^3$/lb-mol ] / Component Mol Wt (lb/lb-mol)
Component BTU/yr = [ Component Annual Emissions (tpy) * 2000 lb/ton * Component Net Heating Value (BTU/scf) * 379.4 $ft^3$/lb-mol ] / Component Mol Wt (lb/lb-mol)
Total Net BTU/event = Sum of all Individual Component BTU/event
(5) VOC, HAP and $H_2S$ emissions estimated based on event stream routed to flare and 98% efficiency.

**Gas Flaring Emissions Calculations**

| Unit ID | Pollutant | Emission Factors (lb/MMBTU)[1] | Emissions lb/hr |
|---|---|---|---|
| RH5-FL-55100 | $NO_X$ | 0.138 | 5.00 |
| | CO | 0.2755 | 9.98 |
| | VOC | Mass Balance [2] | 8.15 |
| | HAP | Mass Balance [2] | 0.14 |
| | $H_2S$ | Mass Balance [2] | <0.01 |
| | $SO_2$ | Stoichiometric[1] | <0.01 |

Flare Stream: 36.22 Max Net Hourly MMBTU Value (MMBTU/hr)

Notes:
(1) Flare $NO_X$ and CO emission factors: TNRCC RG-109 (high Btu; other). $SO_2$: Mass balance assuming 98% combustion of $H_2S$ and 100% conversion of combusted $H_2S$ to $SO_2$:
Pilot Gas $SO_2$ Emissions (lb/hr) = [(Pilot Gas Flow (Mscf/hr) * Fuel Gas Sulfur Content (lb S/Mscf)*(64 lb/lbmol $SO_2$ / 32 lb/lbmol S)) + ( Pilot Gas Flow (Mscf/yr) * Fuel Gas $H_2S$ Content (lb $H_2S$/Mscf)*(64 lb/lbmol $SO_2$
(2) VOC, HAP and $H_2S$ emissions estimated based on event stream routed to flare and 98% efficiency.

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

**Emission Summary**

| Facility-Wide Malfunction Emissions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Unit ID | Equipment Description | $NO_X$ lb/hr | CO lb/hr | VOC lb/hr | $SO_2$ lb/hr | TSP lb/hr | $PM_{10}$ lb/hr | $PM_{2.5}$ lb/hr | $H_2S$ lb/hr | Total HAP lb/hr |
| RH1-FL-29-1003 M | RH1-FL-29-1003 Malfunction Flaring | 8.00 | 15.97 | 13.03 | 0.000 | - | - | - | 0.000 | 0.22 |
| RH2-FL-5100 M | RH2-FL-5100 Malfunction Flaring | 5.00 | 9.98 | 8.15 | 0.000 | - | - | - | 0.000 | 0.14 |
| RH3-FL-5100 M | RH3-FL-5100 Malfunction Flaring | 5.00 | 9.98 | 8.15 | 0.000 | - | - | - | 0.000 | 0.14 |
| RH4-FL-45100 M | RH4-FL-45100 Malfunction Flaring | 5.00 | 9.98 | 8.15 | 0.000 | - | - | - | 0.000 | 0.14 |
| RH5-FL-55100 M | RH5-FL-55100 Malfunction Flaring | 5.00 | 9.98 | 8.15 | 0.00 | - | - | - | 0.000 | 0.14 |
| TOTAL | | 27.99 | 55.89 | 45.61 | 0.00 | - | - | - | 0.00 | 0.77 |

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## RH, FUGITIVE EMISSIONS

Emission unit number(s): RH-FUG-1
Source description: RH. FUGITIVE EMISSIONS
Total Operating Hours: 8,760
Number of Treatment Trains: 3

| Component | | Emission factor[1] (lb/hr/source) | VOC Content[2] (wt%) | HAP Content[2] (wt%) | Hexane[2] (wt%) | $H_2S$ Content[2] (wt%) | $CO_2$ Content[2] (wt%) | $CH_4$ Content[2] (wt%) | Subcomponent Count[3] | VOC Emissions[4,5] lb/hr | VOC Emissions[4,5] tpy | HAP Emissions[4,5] lb/hr | HAP Emissions[4,5] tpy | Hexane Emissions[4,5] lb/hr | Hexane Emissions[4,5] tpy | $H_2S$ Emissions[4,5] lb/hr | $H_2S$ Emissions[4,5] tpy | $CO_2$ Emissions[4,5] lb/hr | $CO_2$ Emissions[4,5] tpy | $CH_4$ Emissions[4,5] lb/hr | $CH_4$ Emissions[4,5] tpy |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Valves | Gas | 9.92E-03 | 42.04% | 0.73% | 0.57% | 0.00057% | 3.52% | 40.86% | 5260 | 21.93 | 96.07 | 0.38 | 1.66 | 0.30 | 1.31 | 2.96E-04 | 1.30E-03 | 1.84 | 8.05 | 21.32 | 93.38 |
| | Heavy Liquid | 1.85E-05 | 100.00% | 10.00% | 0% | 1.00% | 0% | 0% | 1 | 2.59E-05 | 1.14E-04 | 2.59E-06 | 1.14E-05 | 0.00E+00 | 0.00E+00 | 2.59E-07 | 1.14E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Light Liquid | 5.51E-03 | 99.97% | 31.31% | 23.70% | 0% | 0% | 0% | 4269 | 23.52 | 103.02 | 7.37 | 32.26 | 5.58 | 24.42 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Connectors | Gas | 4.41E-04 | 42.04% | 0.73% | 0.57% | 0.00057% | 3.52% | 40.86% | 9800 | 1.82 | 7.96 | 0.03 | 0.14 | 0.02 | 0.11 | 2.45E-05 | 1.07E-04 | 0.15 | 0.67 | 1.77 | 7.73 |
| | Heavy Liquid | 1.65E-05 | 100.00% | 10.00% | 0% | 1.00% | 0% | 0% | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Light Liquid | 4.63E-04 | 99.97% | 31.31% | 23.70% | 0% | 0% | 0% | 7596 | 3.52 | 15.40 | 1.10 | 4.82 | 0.83 | 3.65 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Flanges | Gas | 8.60E-04 | 42.04% | 0.73% | 0.57% | 0.00057% | 3.52% | 40.86% | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Heavy Liquid | 8.60E-07 | 100.00% | 10.00% | 0% | 1.00% | 0% | 0% | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Light Liquid | 2.43E-04 | 99.97% | 31.31% | 23.70% | 0% | 0% | 0% | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Pump Seals | Gas | 5.29E-03 | 42.04% | 0.73% | 0.57% | 0.00057% | 3.52% | 40.86% | 1 | 0.00 | 0.01 | 5.39E-05 | 2.36E-04 | 4.25E-05 | 1.86E-04 | 4.20E-08 | 1.84E-07 | 0.00 | 0.00 | 0.00 | 0.01 |
| | Heavy Liquid | 0.00E+00 | 100.00% | 10.00% | 0% | 1.00% | 0% | 0% | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Light Liquid | 2.87E-02 | 99.97% | 31.31% | 23.70% | 0% | 0% | 0% | 59 | 1.68 | 7.38 | 0.53 | 2.31 | 0.40 | 1.75 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Other | Gas | 1.94E-02 | 42.04% | 0.73% | 0.57% | 0.00057% | 3.52% | 40.86% | 1908 | 15.56 | 68.16 | 0.27 | 1.18 | 0.21 | 0.93 | 2.10E-04 | 9.19E-04 | 1.30 | 5.71 | 15.12 | 66.25 |
| | Heavy Liquid | 7.05E-05 | 100.00% | 10.00% | 0% | 1.00% | 0% | 0% | 0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Light Liquid | 1.65E-02 | 99.97% | 31.31% | 23.70% | 0% | 0% | 0% | 169 | 2.80 | 12.26 | 0.88 | 3.84 | 0.66 | 2.91 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | | | | | | ***Total:*** | **70.84** | **310.26** | **10.55** | **46.22** | **8.01** | **35.08** | **5.30E-04** | **2.32E-03** | **3.29** | **14.42** | **38.21** | **167.37** |

[1] Emission factors from Table 2-4 of EPA Protocol for Equipment Leak Emission Estimates, 1995.
[2] Weight percent of gas and liquid components from averaged site specific liquids and gas analyses of Trains I through III. Heavy oil is conservatively assumed to be 100% VOC, 10% HAPs, and 1% H2S
[3] Component counts are based on facility design. Safety factor applied to component count.
[4] Hourly Emissions [lb/hr] = Emissions Factor [lb/hr/component] * Weight Content of Chemical Component [%] * Subcomponent Count.
[5] Annual Emissions [ton/yr] = Hourly Emissions [lb/hr] * Operating Hours [hr/yr] * 1/2000 [ton/lb].

| | | | BTEX Fugitives | | | | | Benzene Emissions[4,5] | | Toluene Emissions[4,6] | | Ethylbenzene Emissions[4,7] | | Xylenes Emissions[4,8] | | 2,2,4-Trimethylpentane Emissions[4,9] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Component | | Emission factor[1] (lb/hr/source) | Benzene Content[2] (wt%) | Toluene Content[2] (wt%) | Ethylbenzene[2] (wt%) | Xylenes[2] (wt%) | 2,2,4-Trimethylpentane[2] (wt%) | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Valves | Gas | 9.92E-03 | 0.1025% | 0.0438% | 0.0018% | 0.0051% | 0% | 5.35E-02 | 2.34E-01 | 2.29E-02 | 1.00E-01 | 9.42E-04 | 4.12E-03 | 2.64E-03 | 1.16E-02 | 0.00E+00 | 0.00E+00 |
| | Heavy Liquid | 1.85E-05 | 0% | 0% | 0% | 0% | 0% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Light Liquid | 5.51E-03 | 1.87% | 3.4840% | 0.4760% | 1.7800% | 0% | 4.41E-01 | 1.93E+00 | 8.20E-01 | 3.59E+00 | 1.12E-01 | 4.90E-01 | 4.19E-01 | 1.83E+00 | 0.00E+00 | 0.00E+00 |
| Connectors | Gas | 4.41E-04 | 0.1025% | 0.0438% | 0.0018% | 0.0051% | 0% | 4.43E-03 | 1.94E-02 | 1.89E-03 | 8.29E-03 | 7.80E-05 | 3.42E-04 | 2.18E-04 | 9.57E-04 | 0.00E+00 | 0.00E+00 |
| | Heavy Liquid | 1.65E-05 | 0% | 0% | 0% | 0% | 0% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Light Liquid | 4.63E-04 | 1.8730% | 3.4840% | 0.4760% | 1.7800% | 0% | 6.59E-02 | 2.89E-01 | 1.23E-01 | 5.37E-01 | 1.67E-02 | 7.33E-02 | 6.26E-02 | 2.74E-01 | 0.00E+00 | 0.00E+00 |
| Flanges | Gas | 8.60E-04 | 0.1025% | 0.0438% | 0.0018% | 0.0051% | 0% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Heavy Liquid | 8.60E-07 | 0% | 0% | 0% | 0% | 0% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Light Liquid | 2.43E-04 | 1.8730% | 3.4840% | 0.4760% | 1.7800% | 0% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Pump Seals | Gas | 5.29E-03 | 0.1025% | 0.0438% | 0.0018% | 0.0051% | 0% | 7.59E-06 | 3.33E-05 | 3.24E-06 | 1.42E-05 | 1.34E-07 | 5.86E-07 | 3.74E-07 | 1.64E-06 | 0.00E+00 | 0.00E+00 |
| | Heavy Liquid | 0.00E+00 | 0% | 0% | 0% | 0% | 0% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Light Liquid | 2.87E-02 | 1.8730% | 3.4840% | 0.4760% | 1.7800% | 0% | 3.16E-02 | 1.38E-01 | 5.87E-02 | 2.57E-01 | 8.02E-03 | 3.51E-02 | 3.00E-02 | 1.31E-01 | 0.00E+00 | 0.00E+00 |
| Other | Gas | 1.94E-02 | 0.1025% | 0.0438% | 0.0018% | 0.0051% | 0% | 3.79E-02 | 1.66E-01 | 1.62E-02 | 7.10E-02 | 6.68E-04 | 2.93E-03 | 1.87E-03 | 8.19E-03 | 0.00E+00 | 0.00E+00 |
| | Heavy Liquid | 7.05E-05 | 0% | 0% | 0% | 0% | 0% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Light Liquid | 1.65E-02 | 1.8730% | 3.4840% | 0.4760% | 1.7800% | 0% | 5.25E-02 | 2.30E-01 | 9.76E-02 | 4.27E-01 | 1.33E-02 | 5.84E-02 | 4.99E-02 | 2.18E-01 | 0.00E+00 | 0.00E+00 |
| | | | | | | | **Total:** | **0.69** | **3.01** | **1.14** | **4.99** | **0.15** | **0.66** | **0.57** | **2.48** | **0.00E+00** | **0.00E+00** |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## RH, FUGITIVE EMISSIONS

Emission unit number(s): RH-FUG-2
Source description: RH. FUGITIVE EMISSIONS
Total Operating Hours: 8,760
Number of Treatment Trains: 4

| Component | | Emission factor[1] (lb/hr/source) | VOC Content[2] (wt%) | HAP Content[2] (wt%) | Hexane[2] (wt%) | $H_2S$ Content[2] (wt%) | $CO_2$ Content[2] | $CH_4$ Content[2] | Subcomponent Count[3] | VOC Emissions[4,5] lb/hr | VOC Emissions[4,5] tpy | HAP Emissions[4,5] lb/hr | HAP Emissions[4,5] tpy | Hexane Emissions[4,5] lb/hr | Hexane Emissions[4,5] tpy | $H_2S$ Emissions[4,5] lb/hr | $H_2S$ Emissions[4,5] tpy | $CO_2$ Emissions[4,5] lb/hr | $CO_2$ Emissions[4,5] tpy | $CH_4$ Emissions[4,5] lb/hr | $CH_4$ Emissions[4,5] tpy |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Valves | Gas | 9.92E-03 | 23.25% | 0.49% | 0.10% | 0.00057% | 6.96% | 52.24% | 7197 | 16.60 | 72.72 | 0.35 | 1.55 | 0.07 | 0.31 | 4.05E-04 | 1.77E-03 | 4.97 | 21.77 | 37.30 | 163.36 |
| | Heavy Liquid | 1.85E-05 | 100.00% | 10.00% | 0% | 1.00% | 0% | 0% | 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.89E-07 | 2.14E-06 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Light Liquid | 5.51E-03 | 99.97% | 31.31% | 23.70% | 0% | 0% | 0% | 4822 | 26.57 | 116.37 | 8.32 | 36.45 | 6.30 | 27.59 | 0.00E+00 | 0.00E+00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Connectors | Gas | 4.41E-04 | 23.25% | 0.49% | 0.10% | 0.00057% | 6.96% | 52.24% | 17585 | 1.80 | 7.90 | 0.04 | 0.17 | 0.01 | 0.03 | 4.39E-05 | 1.92E-04 | 0.54 | 2.36 | 4.05 | 17.74 |
| | Heavy Liquid | 1.65E-05 | 100.00% | 10.00% | 0% | 1.00% | 0% | 0% | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00E+00 | 0.00E+00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Light Liquid | 4.63E-04 | 99.97% | 31.31% | 23.70% | 0% | 0% | 0% | 14884 | 6.89 | 30.17 | 2.16 | 9.45 | 1.63 | 7.15 | 0.00E+00 | 0.00E+00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Flanges | Gas | 8.60E-04 | 23.25% | 0.49% | 0.10% | 0.00057% | 6.96% | 52.24% | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00E+00 | 0.00E+00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Heavy Liquid | 8.60E-07 | 100.00% | 10.00% | 0% | 1.00% | 0% | 0% | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00E+00 | 0.00E+00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Light Liquid | 2.43E-04 | 99.97% | 31.31% | 23.70% | 0% | 0% | 0% | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00E+00 | 0.00E+00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pump Seals | Gas | 5.29E-03 | 23.25% | 0.49% | 0.10% | 0.00057% | 6.96% | 52.24% | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00E+00 | 0.00E+00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Heavy Liquid | 0.00E+00 | 100.00% | 10.00% | 0% | 1.00% | 0% | 0% | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00E+00 | 0.00E+00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Light Liquid | 2.87E-02 | 99.97% | 31.31% | 23.70% | 0% | 0% | 0% | 78 | 2.23 | 9.77 | 0.70 | 3.06 | 0.53 | 2.32 | 0.00E+00 | 0.00E+00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other | Gas | 1.94E-02 | 23.25% | 0.49% | 0.10% | 0.00057% | 6.96% | 52.24% | 944 | 4.26 | 18.65 | 0.09 | 0.40 | 0.02 | 0.08 | 1.04E-04 | 4.54E-04 | 1.27 | 5.58 | 9.57 | 41.90 |
| | Heavy Liquid | 7.05E-05 | 100.00% | 10.00% | 0% | 1.00% | 0% | 0% | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00E+00 | 0.00E+00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Light Liquid | 1.65E-02 | 99.97% | 31.31% | 23.70% | 0% | 0% | 0% | 123 | 2.03 | 8.89 | 0.64 | 2.78 | 0.48 | 2.11 | 0.00E+00 | 0.00E+00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | *Total:* | **60.38** | **264.47** | **12.30** | **53.86** | **9.04** | **39.59** | **5.53E-04** | **2.42E-03** | **6.79** | **29.72** | **50.91** | **223.00** |

[1] Emission factors from Table 2-4 of EPA Protocol for Equipment Leak Emission Estimates, 1995.
[2] Weight percent of gas and liquid components from averaged site specific liquids and gas analyses of Trains I through III. Heavy oil is conservatively assumed to be 100% VOC, 10% HAPs, and 1% H2S
[3] Component counts are based on facility design. Assume Train VII has the same component counts as Train VI. Safety factor applied to component count.
[4] Hourly Emissions [lb/hr] = Emissions Factor [lb/hr/component] * Weight Content of Chemical Component [%] * Subcomponent Count.
[5] Annual Emissions [ton/yr] = Hourly Emissions [lb/hr] * Operating Hours [hr/yr] * 1/2000 [ton/lb].

| | | | BTEX Fugitives | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Component | | Emission factor[1] (lb/hr/source) | Benzene Content[2] (wt%) | Toluene Content[2] (wt%) | Ethylbenzene[2] (wt%) | Xylenes[2] (wt%) | 2,2,4-Trimethylpentane[2] (wt%) | Benzene Emissions[4,5] lb/hr | Benzene Emissions[4,5] tpy | Toluene Emissions[4,6] lb/hr | Toluene Emissions[4,6] tpy | Ethylbenzene Emissions[4,7] lb/hr | Ethylbenzene Emissions[4,7] tpy | Xylenes Emissions[4,8] lb/hr | Xylenes Emissions[4,8] tpy | 2,2,4-Trimethylpentane Emissions[4,9] lb/hr | 2,2,4-Trimethylpentane Emissions[4,9] tpy |
| Valves | Gas | 9.92E-03 | 0.0767% | 0.0321% | 0.0015% | 0.0068% | 0% | 0.05 | 0.24 | 0.02 | 0.10 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 |
| | Heavy Liquid | 1.85E-05 | 0% | 0% | 0% | 0% | 0% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Light Liquid | 5.51E-03 | 1.87% | 3.4840% | 0.4760% | 1.7800% | 0% | 0.50 | 2.18 | 0.93 | 4.06 | 0.13 | 0.55 | 0.47 | 2.07 | 0.00 | 0.00 |
| Connectors | Gas | 4.41E-04 | 0.0767% | 0.0321% | 0.0015% | 0.0068% | 0% | 0.01 | 0.03 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Heavy Liquid | 1.65E-05 | 0% | 0% | 0% | 0% | 0% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Light Liquid | 4.63E-04 | 1.8730% | 3.4840% | 0.4760% | 1.7800% | 0% | 0.13 | 0.57 | 0.24 | 1.05 | 0.03 | 0.14 | 0.12 | 0.54 | 0.00 | 0.00 |
| Flanges | Gas | 8.60E-04 | 0.0767% | 0.0321% | 0.0015% | 0.0068% | 0% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Heavy Liquid | 8.60E-07 | 0% | 0% | 0% | 0% | 0% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Light Liquid | 2.43E-04 | 1.8730% | 3.4840% | 0.4760% | 1.7800% | 0% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pump Seals | Gas | 5.29E-03 | 0.0767% | 0.0321% | 0.0015% | 0.0068% | 0% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Heavy Liquid | 0.00E+00 | 0% | 0% | 0% | 0% | 0% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Light Liquid | 2.87E-02 | 1.8730% | 3.4840% | 0.4760% | 1.7800% | 0% | 0.04 | 0.18 | 0.08 | 0.34 | 0.01 | 0.05 | 0.04 | 0.17 | 0.00 | 0.00 |
| Other | Gas | 1.94E-02 | 0.0767% | 0.0321% | 0.0015% | 0.0068% | 0% | 0.01 | 0.06 | 0.01 | 0.03 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |
| | Heavy Liquid | 7.05E-05 | 0% | 0% | 0% | 0% | 0% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Light Liquid | 1.65E-02 | 1.8730% | 3.4840% | 0.4760% | 1.7800% | 0% | 0.04 | 0.17 | 0.07 | 0.31 | 0.01 | 0.04 | 0.04 | 0.16 | 0.00 | 0.00 |
| | | | | | | | **Total:** | **0.78** | **3.42** | **1.35** | **5.89** | **0.18** | **0.79** | **0.68** | **2.97** | **0.00** | **0.00** |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## RHA, FUGITIVE EMISSIONS

Emission unit number(s): RHA-FUG
Source description: RHA, FUGITIVE EMISSIONS
Total Operating Hours: 8,760

| Component | | Service Type | Emission factor[1] (lb/hr/source) | VOC Content[2] (wt%) | HAP Content[2] (wt%) | $H_2S$ Content[2] (wt%) | $CO_2$ Content[2] (wt%) | $CH_4$ Content[2] (wt%) | Subcomponent Count[3] | VOC Emissions[4,5] lb/hr | VOC Emissions[4,5] tpy | HAP Emissions[4,5] lb/hr | HAP Emissions[4,5] tpy | $H_2S$ Emissions[4,5] lb/hr | $H_2S$ Emissions[4,5] tpy | $CO_2$ Emissions[5,7] tpy | $CH_4$ Emissions[5,7] tpy | $CO_2e$ Emissions[5,7] tpy |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Valves | Sour Gas | Gas | 9.92E-03 | 20.00% | 2.00% | 3.86% | 10% | 100% | 148 | 0.29 | 1.29 | 0.029 | 0.129 | 0.057 | 0.249 | 0.64 | 6.44 | 161.64 |
| | Sour Condensate | Light Liquid | 5.51E-03 | 80.60% | 8.06% | 0.80% | 0% | 0% | 265 | 1.18 | 5.15 | 0.118 | 0.51 | 0.01 | 0.051 | - | - | - |
| | Flash Gas | Gas | 9.92E-03 | 43.20% | 4.32% | 1.90% | 10% | 100% | 112 | 0.48 | 2.11 | 0.048 | 0.21 | 0.021 | 0.093 | 0.49 | 4.88 | 122.37 |
| | Flashed Condensate | Light Liquid | 5.51E-03 | 95.60% | 9.56% | 0.35% | 0% | 0% | 121 | 0.64 | 2.78 | 0.064 | 0.28 | 2.33E-03 | 0.01 | - | - | - |
| | Stabilized Condensate | Light Liquid | 5.51E-03 | 100.00% | 10.00% | 0.00% | 0% | 0% | 32 | 0.18 | 0.77 | 0.018 | 0.077 | - | - | - | - | - |
| | Sour/Slop Water | Heavy Liquid | 1.85E-05 | 0.01% | 0.00% | 0.04% | 0% | 0% | 230 | 4.26E-07 | 1.86E-06 | 4.26E-08 | 1.86E-07 | 1.70E-06 | 7.46E-06 | - | - | - |
| | Treated Gas | Gas | 9.92E-03 | 18.00% | 1.80% | 0.00% | 10% | 100% | 34 | 0.060 | 0.26 | 6.00E-03 | 0.026 | 6.67E-06 | 2.92E-05 | 0.15 | 1.46 | 36.65 |
| | Rich Amine | Heavy Liquid | 1.85E-05 | 0.07% | 0.01% | 1.44% | 0% | 0% | 232 | 3.00E-06 | 1.31E-05 | 3.00E-07 | 1.31E-06 | 6.18E-05 | 2.71E-04 | - | - | - |
| | Amine Flash | Gas | 9.92E-03 | 10.25% | 1.03% | 3.20% | 10% | 100% | 86 | 0.088 | 0.385 | 8.79E-03 | 0.04 | 0.03 | 0.120 | 0.375 | 3.75 | 94.23 |
| | Lean Amine | Gas | 9.92E-03 | 0.00% | 0.00% | 0.02% | 10% | 100% | 127 | - | - | - | - | 2.52E-04 | 1.11E-03 | 0.55 | 5.53 | 138.73 |
| | Acid Gas | Gas | 9.92E-03 | 0.02% | 0.00% | 21.27% | 10% | 100% | 228 | 4.53E-04 | 1.98E-03 | 4.53E-05 | 1.98E-04 | 0.48 | 2.11 | 0.99 | 9.92 | 249.11 |
| | VRU Gas | Gas | 9.92E-03 | 82.60% | 8.26% | 0.55% | 10% | 100% | 25 | 0.21 | 0.90 | 0.021 | 0.090 | 1.38E-03 | 6.02E-03 | 0.110 | 1.10 | 27.48 |
| | Heat Medium Fluid | Light Liquid | 5.51E-03 | 0.00% | 0.00% | 0.00% | 0% | 0% | 116 | - | - | - | - | - | - | - | - | - |
| | Fuel Gas[6] | Gas | 9.92E-03 | 2.32% | 0.04% | 0.00% | 10% | 100% | 184 | 0.042 | 0.19 | 6.45E-04 | 2.83E-03 | - | - | 0.80 | 7.98 | 200.25 |
| | Flare Gas | Gas | 9.92E-03 | 82.60% | 8.26% | 0.55% | 10% | 100% | 136 | 1.11 | 4.87 | 0.111 | 0.49 | 7.40E-03 | 0.032 | 0.59 | 5.89 | 147.89 |
| | Lube Oil | Heavy Liquid | 1.85E-05 | 100.00% | 10.00% | 0.00% | 0% | 0% | 122 | 2.27E-03 | 9.93E-03 | 2.27E-04 | 9.93E-04 | - | - | - | - | - |
| | Methanol | Light Liquid | 5.51E-03 | 100.00% | 100.00% | 0% | 0% | 0% | 38 | 0.21 | 0.91 | 0.21 | 0.91 | - | - | - | - | - |
| Connectors / Flanges | Sour Gas | Gas | 8.60E-04 | 20.00% | 2.00% | 3.86% | 10% | 100% | 191 | 0.033 | 0.144 | 3.29E-03 | 0.01 | 6.35E-03 | 0.03 | 0.072 | 0.72 | 18.09 |
| | Sour Condensate | Light Liquid | 4.63E-04 | 80.60% | 8.06% | 0.80% | 0% | 0% | 504 | 0.188 | 0.82 | 0.02 | 0.082 | 1.87E-03 | 8.17E-03 | - | - | - |
| | Flash Gas | Gas | 8.60E-04 | 43.20% | 4.32% | 1.90% | 10% | 100% | 216 | 0.080 | 0.35 | 8.02E-03 | 0.035 | 3.53E-03 | 0.015 | 0.081 | 0.81 | 20.42 |
| | Flashed Condensate | Light Liquid | 4.63E-04 | 95.60% | 9.56% | 0.35% | 0% | 0% | 132 | 0.058 | 0.26 | 5.84E-03 | 0.026 | 2.14E-04 | 9.37E-04 | - | - | - |
| | Stabilized Condensate | Light Liquid | 4.63E-04 | 100.00% | 10.00% | 0.00% | 0% | 0% | 39 | 0.018 | 0.079 | 1.81E-03 | 7.91E-03 | - | - | - | - | - |
| | Sour/Slop Water | Heavy Liquid | 1.65E-05 | 0.01% | 0.00% | 0.04% | 0% | 0% | 480 | 7.94E-07 | 3.48E-06 | 7.94E-08 | 3.48E-07 | 3.17E-06 | 1.39E-05 | - | - | - |
| | Treated Gas | Gas | 8.60E-04 | 18.00% | 1.80% | 0.00% | 10% | 100% | 50 | 7.71E-03 | 0.034 | 7.71E-04 | 3.38E-03 | 8.56E-07 | 3.75E-06 | 0.019 | 0.19 | 4.71 |
| | Rich Amine | Heavy Liquid | 1.65E-05 | 0.07% | 0.01% | 1.44% | 0% | 0% | 181 | 2.09E-06 | 9.16E-06 | 2.09E-07 | 9.16E-07 | 4.30E-05 | 1.88E-04 | - | - | - |
| | Amine Flash | Gas | 8.60E-04 | 10.25% | 1.03% | 3.20% | 10% | 100% | 214 | 0.02 | 0.08 | 1.89E-03 | 8.28E-03 | 5.90E-03 | 0.03 | 0.08 | 0.807 | 20.27 |
| | Lean Amine | Gas | 8.60E-04 | 0.00% | 0.00% | 0.02% | 10% | 100% | 164 | - | - | - | - | 2.83E-05 | 1.24E-04 | 0.062 | 0.62 | 15.54 |
| | Acid Gas | Gas | 8.60E-04 | 0.02% | 0.00% | 21.27% | 10% | 100% | 431 | 7.41E-05 | 3.25E-04 | 7.41E-06 | 3.25E-05 | 0.079 | 0.345 | 0.16 | 1.62 | 40.76 |
| | VRU Gas | Gas | 8.60E-04 | 82.60% | 8.26% | 0.55% | 10% | 100% | 26 | 0.018 | 0.080 | 1.83E-03 | 8.03E-03 | 1.22E-04 | 5.34E-04 | 9.72E-03 | 0.097 | 2.44 |
| | Heat Medium Fluid | Light Liquid | 4.63E-04 | 0.00% | 0.00% | 0.00% | 0% | 0% | 143 | - | - | - | - | - | - | - | - | - |
| | Fuel Gas[6] | Gas | 8.60E-04 | 2.32% | 0.04% | 0.00% | 10% | 100% | 167 | 3.33E-03 | 0.015 | 5.08E-05 | 2.22E-04 | - | - | 0.063 | 0.63 | 15.77 |
| | Flare Gas | Gas | 8.60E-04 | 82.60% | 8.26% | 0.55% | 10% | 100% | 209 | 0.15 | 0.65 | 0.015 | 0.065 | 9.87E-04 | 4.32E-03 | 0.079 | 0.79 | 19.74 |
| | Lube Oil | Heavy Liquid | 1.65E-05 | 100.00% | 10.00% | 0.00% | 0% | 0% | 237 | 3.92E-03 | 0.017 | 3.92E-04 | 1.72E-03 | - | - | - | - | - |
| | Methanol | Light Liquid | 4.63E-04 | 100.00% | 100.00% | 0% | 0% | 0% | 29 | 0.014 | 0.060 | 0.014 | 0.060 | - | - | - | - | - |
| Pump Seals | Sour Gas | Gas | 5.29E-03 | 20.00% | 2.00% | 3.86% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Sour Condensate | Light Liquid | 2.87E-02 | 80.60% | 8.06% | 0.80% | 0% | 0% | 1 | 0.028 | 0.121 | 2.77E-03 | 0.01 | 2.75E-04 | 1.21E-03 | - | - | - |
| | Flash Gas | Gas | 5.29E-03 | 43.20% | 4.32% | 1.90% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Flashed Condensate | Light Liquid | 2.87E-02 | 95.60% | 9.56% | 0.35% | 0% | 0% | 0 | - | - | - | - | - | - | - | - | - |
| | Stabilized Condensate | Light Liquid | 2.87E-02 | 100.00% | 10.00% | 0.00% | 0% | 0% | 0 | - | - | - | - | - | - | - | - | - |
| | Sour/Slop Water | Heavy Liquid | 0.00E+00 | 0.01% | 0.00% | 0.04% | 0% | 0% | 2 | - | - | - | - | - | - | - | - | - |
| | Treated Gas | Gas | 5.29E-03 | 18.00% | 1.80% | 0.00% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Rich Amine | Heavy Liquid | 0.00E+00 | 0.07% | 0.01% | 1.44% | 0% | 0% | 1 | - | - | - | - | - | - | - | - | - |
| | Amine Flash | Gas | 5.29E-03 | 10.25% | 1.03% | 3.20% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Lean Amine | Gas | 5.29E-03 | 0.00% | 0.00% | 0.02% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Acid Gas | Gas | 5.29E-03 | 0.02% | 0.00% | 21.27% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | VRU Gas | Gas | 5.29E-03 | 82.60% | 8.26% | 0.55% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Heat Medium Fluid | Light Liquid | 2.87E-02 | 0.00% | 0.00% | 0.00% | 0% | 0% | 2 | - | - | - | - | - | - | - | - | - |
| | Fuel Gas[6] | Gas | 5.29E-03 | 2.32% | 0.04% | 0.00% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Flare Gas | Gas | 5.29E-03 | 82.60% | 8.26% | 0.55% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Lube Oil | Heavy Liquid | 0.00E+00 | 100.00% | 10.00% | 0.00% | 0% | 0% | 13 | - | - | - | - | - | - | - | - | - |
| | Methanol | Light Liquid | 2.87E-02 | 100.00% | 100.00% | 0% | 0% | 0% | 1 | 0.034 | 0.15 | 0.034 | 0.15 | - | - | - | - | - |
| Other | Sour Gas | Gas | 1.94E-02 | 20.00% | 2.00% | 3.86% | 10% | 100% | 1 | 4.66E-03 | 0.020 | 4.66E-04 | 2.04E-03 | 8.99E-04 | 3.94E-03 | 0.01 | 0.102 | 2.56 |
| | Sour Condensate | Light Liquid | 1.65E-02 | 80.60% | 8.06% | 0.80% | 0% | 0% | 1 | 0.016 | 0.070 | 1.60E-03 | 7.00E-03 | 1.59E-04 | 6.95E-04 | - | - | - |
| | Flash Gas | Gas | 1.94E-02 | 43.20% | 4.32% | 1.90% | 10% | 100% | 11 | 0.091 | 0.40 | 9.05E-03 | 0.040 | 3.98E-03 | 0.017 | 0.092 | 0.92 | 23.03 |
| | Flashed Condensate | Light Liquid | 1.65E-02 | 95.60% | 9.56% | 0.35% | 0% | 0% | 2 | 0.038 | 0.17 | 3.79E-03 | 0.017 | 1.39E-04 | 6.08E-04 | - | - | - |
| | Stabilized Condensate | Light Liquid | 1.65E-02 | 100.00% | 10.00% | 0.00% | 0% | 0% | 0 | - | - | - | - | - | - | - | - | - |
| | Sour/Slop Water | Heavy Liquid | 7.05E-05 | 0.01% | 0.00% | 0.04% | 0% | 0% | 12 | 8.47E-08 | 3.71E-07 | 8.47E-09 | 3.71E-08 | 3.39E-07 | 1.48E-06 | - | - | - |
| | Treated Gas | Gas | 1.94E-02 | 18.00% | 1.80% | 0.00% | 10% | 100% | 1 | 4.19E-03 | 0.018 | 4.19E-04 | 1.84E-03 | 4.66E-07 | 2.04E-06 | 0.01 | 0.102 | 2.56 |
| | Rich Amine | Heavy Liquid | 7.05E-05 | 0.07% | 0.01% | 1.44% | 0% | 0% | 5 | 2.37E-07 | 1.04E-06 | 2.37E-08 | 1.04E-07 | 4.88E-06 | 2.14E-05 | - | - | - |
| | Amine Flash | Gas | 1.94E-02 | 10.25% | 1.03% | 3.20% | 10% | 100% | 1 | 1.19E-03 | 5.23E-03 | 1.19E-04 | 5.23E-04 | 3.72E-04 | 1.63E-03 | 5.10E-03 | 0.051 | 1.28 |
| | Lean Amine | Gas | 1.94E-02 | 0.00% | 0.00% | 0.02% | 10% | 100% | 4 | - | - | - | - | 1.40E-05 | 6.12E-05 | 0.031 | 0.31 | 7.68 |
| | Acid Gas | Gas | 1.94E-02 | 0.02% | 0.00% | 21.27% | 10% | 100% | 17 | 6.52E-05 | 2.86E-04 | 6.52E-06 | 2.86E-05 | 0.069 | 0.304 | 0.14 | 1.43 | 35.83 |
| | VRU Gas | Gas | 1.94E-02 | 82.60% | 8.26% | 1.00% | 10% | 100% | 2 | 0.038 | 0.17 | 3.85E-03 | 0.017 | 4.66E-04 | 2.04E-03 | 0.020 | 0.20 | 5.12 |
| | Heat Medium Fluid | Light Liquid | 1.65E-02 | 0.00% | 0.00% | 0.00% | 0% | 0% | 3 | - | - | - | - | - | - | - | - | - |
| | Fuel Gas[6] | Gas | 1.94E-02 | 2.32% | 0.04% | 0.00% | 10% | 100% | 14 | 6.49E-03 | 0.028 | 9.89E-05 | 4.33E-04 | - | - | 0.122 | 1.22 | 30.71 |
| | Flare Gas | Gas | 1.94E-02 | 82.60% | 8.26% | 0.55% | 10% | 100% | 2 | 0.038 | 0.17 | 3.85E-03 | 0.017 | 2.56E-04 | 1.12E-03 | 0.020 | 0.20 | 5.12 |
| | Lube Oil | Heavy Liquid | 7.05E-05 | 100.00% | 10.00% | 0.00% | 0% | 0% | 6 | 4.23E-04 | 1.85E-03 | 4.23E-05 | 1.85E-04 | - | - | - | - | - |
| | Methanol | Light Liquid | 1.65E-02 | 100.00% | 100.00% | 0% | 0% | 0% | 1 | 9.92E-03 | 0.043 | 9.92E-03 | 0.043 | - | - | - | - | - |
| | | | | | | | | | ***Total:*** | **5.38** | **23.57** | **0.77** | **3.39** | **0.78** | **3.43** | **5.78** | **57.77** | **1449.97** |

[1] Emission factors from Table 2-4 of EPA Protocol for Equipment Leak Emission Estimates. 1995.
[2] Weight percent of gas and liquid components from Targa provided gas compositions for each stream. Heavy oil is conservatively assumed to be 100% VOC, 10% HAPs, and 1% $H_2S$. Methanol is assumed to be 100% VOC and 100% HAP.

[3] Component Counts provided by Targa. Safety factor applied to component count.

[4] Hourly Emissions [lb/hr] = Emissions Factor [lb/hr/component] * Weight Content of Chemical Component [%] * Subcomponent Count.
[5] Annual Emissions [ton/yr] = Hourly Emissions [lb/hr] * Operating Hours [hr/yr] * 1/2000 [ton/lb].
[6] Fuel gas compositions are based on the maximum fuel gas VOC and HAPs content from available analyses.
[7] $CO_2e$ emissions were calculated assuming gas streams to be 100 wt% methane + 10 wt% $CO_2$

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## RA2, FUGITIVE EMISSIONS

Emission unit number(s): RA2-FUG
Source description: RA2. FUGITIVE EMISSIONS
Total Operating Hours: 8,760

| Component | | Service | Emission factor[1] | VOC Content[2] (wt%) | HAP Content[2] (wt%) | $H_2S$ Content[2] (wt%) | $CO_2$ Content[2] (wt%) | $CH_4$ Content[2] (wt%) | Subcomponent Count[3] | VOC Emissions[4,5] | | HAP Emissions[4,5] | | $H_2S$ Emissions[4,5] | | $CO_2$ Emissions[5,7] | $CH_4$ Emissions[5,7] | $CO_2e$ Emissions[5,7] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Type | (lb/hr/source) | | | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | tpy | tpy | tpy |
| Valves | Sour Gas | Gas | 9.92E-03 | 20.00% | 2.00% | 3.86% | 10% | 100% | 284 | 0.56 | 2.47 | 0.056 | 0.25 | 0.109 | 0.48 | 1.23 | 12.34 | 309.80 |
| | Sour Condensate | Light Liquid | 5.51E-03 | 80.60% | 8.06% | 0.80% | 0% | 0% | 641 | 2.85 | 12.47 | 0.28 | 1.25 | 0.028 | 0.124 | - | - | - |
| | Flash Gas | Gas | 9.92E-03 | 43.20% | 4.32% | 1.90% | 10% | 100% | 215 | 0.92 | 4.04 | 0.092 | 0.40 | 0.041 | 0.18 | 0.93 | 9.34 | 234.55 |
| | Flashed Condensate | Light Liquid | 5.51E-03 | 95.60% | 9.56% | 0.35% | 0% | 0% | 231 | 1.22 | 5.33 | 0.12 | 0.53 | 4.46E-03 | 0.020 | - | - | - |
| | Stabilized Condensate | Light Liquid | 5.51E-03 | 100.00% | 10.00% | 0.00% | 0% | 0% | 61 | 0.34 | 1.47 | 0.034 | 0.15 | - | - | - | - | - |
| | Sour/Slop Water | Heavy Liquid | 1.85E-05 | 0.01% | 0.00% | 0.04% | 0% | 0% | 440 | 8.16E-07 | 3.57E-06 | 8.16E-08 | 3.57E-07 | 3.26E-06 | 1.43E-05 | - | - | - |
| | Treated Gas | Gas | 9.92E-03 | 18.00% | 1.80% | 0.00% | 10% | 100% | 64 | 0.12 | 0.50 | 0.012 | 0.050 | 1.28E-05 | 5.60E-05 | 0.28 | 2.80 | 70.24 |
| | Rich Amine | Heavy Liquid | 1.85E-05 | 0.07% | 0.01% | 1.44% | 0% | 0% | 444 | 5.75E-06 | 2.52E-05 | 5.75E-07 | 2.52E-06 | 1.18E-04 | 5.18E-04 | - | - | - |
| | Amine Flash | Gas | 9.92E-03 | 10.25% | 1.03% | 3.20% | 10% | 100% | 33 | 0.034 | 0.15 | 3.39E-03 | 0.015 | 0.011 | 0.046 | 0.14 | 1.45 | 36.37 |
| | Lean Amine | Gas | 9.92E-03 | 0.00% | 0.00% | 0.02% | 10% | 100% | 244 | - | - | - | - | 4.84E-04 | 2.12E-03 | 1.06 | 10.59 | 265.90 |
| | Acid Gas | Gas | 9.92E-03 | 0.02% | 0.00% | 21.27% | 10% | 100% | 384 | 7.62E-04 | 3.34E-03 | 7.62E-05 | 3.34E-04 | 0.81 | 3.55 | 1.67 | 16.69 | 418.92 |
| | VRU Gas | Gas | 9.92E-03 | 82.60% | 8.26% | 0.55% | 10% | 100% | 48 | 0.40 | 1.73 | 0.040 | 0.17 | 2.64E-03 | 0.012 | 0.21 | 2.10 | 52.68 |
| | Heat Medium Fluid | Light Liquid | 5.51E-03 | 0.00% | 0.00% | 0.00% | 0% | 0% | 222 | - | - | - | - | - | - | - | - | - |
| | Fuel Gas[6] | Gas | 9.92E-03 | 2.32% | 0.04% | 0.00% | 10% | 100% | 352 | 0.081 | 0.36 | 1.24E-03 | 5.42E-03 | - | - | 1.53 | 15.29 | 383.80 |
| | Flare Gas | Gas | 9.92E-03 | 82.60% | 8.26% | 0.55% | 10% | 100% | 260 | 2.13 | 9.33 | 0.21 | 0.93 | 0.014 | 0.062 | 1.13 | 11.29 | 283.46 |
| | Lube Oil | Heavy Liquid | 1.85E-05 | 100.00% | 10.00% | 0.00% | 0% | 0% | 235 | 4.34E-03 | 0.019 | 4.34E-04 | 1.90E-03 | - | - | - | - | - |
| | Methanol | Light Liquid | 5.51E-03 | 100.00% | 100.00% | 0% | 0% | 0% | 72 | 0.40 | 1.75 | 0.40 | 1.75 | - | - | - | - | - |
| Connectors / Flanges | Sour Gas | Gas | 8.60E-04 | 20.00% | 2.00% | 3.86% | 10% | 100% | 367 | 0.063 | 0.28 | 6.31E-03 | 0.028 | 0.01 | 0.053 | 0.14 | 1.38 | 34.68 |
| | Sour Condensate | Light Liquid | 4.63E-04 | 80.60% | 8.06% | 0.80% | 0% | 0% | 898 | 0.33 | 1.47 | 0.033 | 0.15 | 3.32E-03 | 0.015 | - | - | - |
| | Flash Gas | Gas | 8.60E-04 | 43.20% | 4.32% | 1.90% | 10% | 100% | 414 | 0.15 | 0.67 | 0.015 | 0.067 | 6.76E-03 | 0.030 | 0.16 | 1.56 | 39.13 |
| | Flashed Condensate | Light Liquid | 4.63E-04 | 95.60% | 9.56% | 0.35% | 0% | 0% | 253 | 0.11 | 0.49 | 0.011 | 0.049 | 4.10E-04 | 1.80E-03 | - | - | - |
| | Stabilized Condensate | Light Liquid | 4.63E-04 | 100.00% | 10.00% | 0.00% | 0% | 0% | 75 | 0.035 | 0.15 | 3.46E-03 | 0.015 | - | - | - | - | - |
| | Sour/Slop Water | Heavy Liquid | 1.65E-05 | 0.01% | 0.00% | 0.04% | 0% | 0% | 920 | 1.52E-06 | 6.66E-06 | 1.52E-07 | 6.66E-07 | 6.08E-06 | 2.67E-05 | - | - | - |
| | Treated Gas | Gas | 8.60E-04 | 18.00% | 1.80% | 0.00% | 10% | 100% | 95 | 0.015 | 0.065 | 1.48E-03 | 6.47E-03 | 1.64E-06 | 7.19E-06 | 0.036 | 0.36 | 9.02 |
| | Rich Amine | Heavy Liquid | 1.65E-05 | 0.07% | 0.01% | 1.44% | 0% | 0% | 346 | 4.01E-06 | 1.75E-05 | 4.01E-07 | 1.75E-06 | 8.24E-05 | 3.61E-04 | - | - | - |
| | Amine Flash | Gas | 8.60E-04 | 10.25% | 1.03% | 3.20% | 10% | 100% | 39 | 3.45E-03 | 0.015 | 3.45E-04 | 1.51E-03 | 1.08E-03 | 4.71E-03 | 0.015 | 0.15 | 3.70 |
| | Lean Amine | Gas | 8.60E-04 | 0.00% | 0.00% | 0.02% | 10% | 100% | 315 | - | - | - | - | 5.42E-05 | 2.37E-04 | 0.12 | 1.19 | 29.78 |
| | Acid Gas | Gas | 8.60E-04 | 0.02% | 0.00% | 21.27% | 10% | 100% | 721 | 1.24E-04 | 5.43E-04 | 1.24E-05 | 5.43E-05 | 0.132 | 0.58 | 0.27 | 2.72 | 68.16 |
| | VRU Gas | Gas | 8.60E-04 | 82.60% | 8.26% | 0.55% | 10% | 100% | 49 | 0.035 | 0.15 | 3.51E-03 | 0.015 | 2.34E-04 | 1.02E-03 | 0.019 | 0.19 | 4.67 |
| | Heat Medium Fluid | Light Liquid | 4.63E-04 | 0.00% | 0.00% | 0.00% | 0% | 0% | 275 | - | - | - | - | - | - | - | - | - |
| | Fuel Gas[6] | Gas | 8.60E-04 | 2.32% | 0.04% | 0.00% | 10% | 100% | 320 | 6.38E-03 | 0.028 | 9.74E-05 | 4.26E-04 | - | - | 0.12 | 1.20 | 30.22 |
| | Flare Gas | Gas | 8.60E-04 | 82.60% | 8.26% | 0.55% | 10% | 100% | 400 | 0.28 | 1.24 | 0.028 | 0.12 | 1.89E-03 | 8.29E-03 | 0.15 | 1.51 | 37.83 |
| | Lube Oil | Heavy Liquid | 1.65E-05 | 100.00% | 10.00% | 0.00% | 0% | 0% | 454 | 7.51E-03 | 0.033 | 7.51E-04 | 3.29E-03 | - | - | - | - | - |
| | Methanol | Light Liquid | 4.63E-04 | 100.00% | 100.00% | 0% | 0% | 0% | 56 | 0.026 | 0.11 | 0.026 | 0.11 | - | - | - | - | - |
| Pump Seals | Sour Gas | Gas | 5.29E-03 | 20.00% | 2.00% | 3.86% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Sour Condensate | Light Liquid | 2.87E-02 | 80.60% | 8.06% | 0.80% | 0% | 0% | 2 | 0.053 | 0.23 | 5.31E-03 | 0.023 | 5.27E-04 | 2.31E-03 | - | - | - |
| | Flash Gas | Gas | 5.29E-03 | 43.20% | 4.32% | 1.90% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Flashed Condensate | Light Liquid | 2.87E-02 | 95.60% | 9.56% | 0.35% | 0% | 0% | 0 | - | - | - | - | - | - | - | - | - |
| | Stabilized Condensate | Light Liquid | 2.87E-02 | 100.00% | 10.00% | 0.00% | 0% | 0% | 0 | - | - | - | - | - | - | - | - | - |
| | Sour/Slop Water | Heavy Liquid | 0.00E+00 | 0.01% | 0.00% | 0.04% | 0% | 0% | 5 | - | - | - | - | - | - | - | - | - |
| | Treated Gas | Gas | 5.29E-03 | 18.00% | 1.80% | 0.00% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Rich Amine | Heavy Liquid | 0.00E+00 | 0.07% | 0.01% | 1.44% | 0% | 0% | 2 | - | - | - | - | - | - | - | - | - |
| | Amine Flash | Gas | 5.29E-03 | 10.25% | 1.03% | 3.20% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Lean Amine | Gas | 5.29E-03 | 0.00% | 0.00% | 0.02% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Acid Gas | Gas | 5.29E-03 | 0.02% | 0.00% | 21.27% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | VRU Gas | Gas | 5.29E-03 | 82.60% | 8.26% | 0.55% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Heat Medium Fluid | Light Liquid | 2.87E-02 | 0.00% | 0.00% | 0.00% | 0% | 0% | 3 | - | - | - | - | - | - | - | - | - |
| | Fuel Gas[6] | Gas | 5.29E-03 | 2.32% | 0.04% | 0.00% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Flare Gas | Gas | 5.29E-03 | 82.60% | 8.26% | 0.55% | 10% | 100% | 0 | - | - | - | - | - | - | - | - | - |
| | Lube Oil | Heavy Liquid | 0.00E+00 | 100.00% | 10.00% | 0.00% | 0% | 0% | 24 | - | - | - | - | - | - | - | - | - |
| | Methanol | Light Liquid | 2.87E-02 | 100.00% | 100.00% | 0% | 0% | 0% | 2 | 0.066 | 0.29 | 0.066 | 0.29 | - | - | - | - | - |
| Other | Sour Gas | Gas | 1.94E-02 | 20.00% | 2.00% | 3.86% | 10% | 100% | 2 | 8.92E-03 | 0.039 | 8.92E-04 | 3.91E-03 | 1.72E-03 | 7.55E-03 | 0.020 | 0.20 | 4.91 |
| | Sour Condensate | Light Liquid | 1.65E-02 | 80.60% | 8.06% | 0.80% | 0% | 0% | 2 | 0.031 | 0.13 | 3.07E-03 | 0.013 | 3.04E-04 | 1.33E-03 | - | - | - |
| | Flash Gas | Gas | 1.94E-02 | 43.20% | 4.32% | 1.90% | 10% | 100% | 21 | 0.17 | 0.76 | 0.017 | 0.076 | 7.63E-03 | 0.033 | 0.18 | 1.76 | 44.15 |
| | Flashed Condensate | Light Liquid | 1.65E-02 | 95.60% | 9.56% | 0.35% | 0% | 0% | 5 | 0.073 | 0.32 | 7.27E-03 | 0.032 | 2.66E-04 | 1.17E-03 | - | - | - |
| | Stabilized Condensate | Light Liquid | 1.65E-02 | 100.00% | 10.00% | 0.00% | 0% | 0% | 0 | - | - | - | - | - | - | - | - | - |
| | Sour/Slop Water | Heavy Liquid | 7.05E-05 | 0.01% | 0.00% | 0.04% | 0% | 0% | 23 | 1.62E-07 | 7.11E-07 | 1.62E-08 | 7.11E-08 | 6.49E-07 | 2.84E-06 | - | - | - |
| | Treated Gas | Gas | 1.94E-02 | 18.00% | 1.80% | 0.00% | 0% | 100% | 2 | 8.03E-03 | 0.035 | 8.03E-04 | 3.52E-03 | 8.92E-07 | 3.91E-06 | - | 0.20 | 4.89 |
| | Rich Amine | Heavy Liquid | 7.05E-05 | 0.07% | 0.01% | 1.44% | 0% | 0% | 9 | 4.54E-07 | 1.99E-06 | 4.54E-08 | 1.99E-07 | 9.35E-06 | 4.09E-05 | - | - | - |
| | Amine Flash | Gas | 1.94E-02 | 10.25% | 1.03% | 3.20% | 10% | 100% | 1 | 2.29E-03 | 0.010 | 2.29E-04 | 1.00E-03 | 7.14E-04 | 3.13E-03 | 9.77E-03 | 0.098 | 2.45 |
| | Lean Amine | Gas | 1.94E-02 | 0.00% | 0.00% | 0.02% | 10% | 100% | 7 | - | - | - | - | 2.68E-05 | 1.17E-04 | 0.059 | 0.59 | 14.72 |
| | Acid Gas | Gas | 1.94E-02 | 0.02% | 0.00% | 21.27% | 10% | 100% | 32 | 1.25E-04 | 5.47E-04 | 1.25E-05 | 5.47E-05 | 0.133 | 0.58 | 0.27 | 2.74 | 68.68 |
| | VRU Gas | Gas | 1.94E-02 | 82.60% | 8.26% | 0.55% | 10% | 100% | 5 | 0.074 | 0.32 | 7.37E-03 | 0.032 | 4.91E-04 | 2.15E-03 | 0.039 | 0.39 | 9.81 |
| | Heat Medium Fluid | Light Liquid | 1.65E-02 | 0.00% | 0.00% | 0.00% | 0% | 0% | 6 | - | - | - | - | - | - | - | - | - |
| | Fuel Gas[6] | Gas | 1.94E-02 | 2.32% | 0.04% | 0.00% | 10% | 100% | 28 | 0.012 | 0.054 | 1.90E-04 | 8.31E-04 | - | - | 0.23 | 2.35 | 58.87 |
| | Flare Gas | Gas | 1.94E-02 | 82.60% | 8.26% | 0.55% | 10% | 100% | 5 | 0.074 | 0.32 | 7.37E-03 | 0.032 | 4.91E-04 | 2.15E-03 | 0.039 | 0.39 | 9.81 |
| | Lube Oil | Heavy Liquid | 7.05E-05 | 100.00% | 10.00% | 0.00% | 0% | 0% | 12 | 8.11E-04 | 3.55E-03 | 8.11E-05 | 3.55E-04 | - | - | - | - | - |
| | Methanol | Light Liquid | 1.65E-02 | 100.00% | 100.00% | 0% | 0% | 0% | 1 | 0.019 | 0.083 | 0.019 | 0.083 | - | - | - | - | - |
| | | | | | | | | | ***Total:*** | **10.72** | **46.94** | **1.52** | **6.67** | **1.32** | **5.80** | **10.07** | **100.85** | **2,531.20** |

[1] Emission factors from Table 2-4 of EPA Protocol for Equipment Leak Emission Estimates, 1995.

[2] Weight percent of gas and liquid components from Targa provided gas compositions for each stream. Heavy oil is conservatively assumed to be 100% VOC, 10% HAPs, and 1% $H_2S$. Methanol is assumed to be 100% VOC and 100% HAP.

0.34

[3] Component Counts provided by Targa. Safety factor applied to component count.
[4] Hourly Emissions [lb/hr] = Emissions Factor [lb/hr/component] * Weight Content of Chemical Component [%] * Subcomponent Count.
[5] Annual Emissions [ton/yr] = Hourly Emissions [lb/hr] * Operating Hours [hr/yr] * 1/2000 [ton/lb].
[6] Fuel gas compositions are based on the maximum fuel gas VOC and HAPs content from available analyses.
[7] $CO_2e$ emissions were calculated assuming gas streams to be 100 wt% methane + 10 wt% $CO_2$

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RH, HAUL ROAD EMISSIONS SUMMARY

**Uncontrolled Haul Road Emissions**

| Unit ID | Haul Road Route | TSP | | $PM_{10}$ | | $PM_{2.5}$ | |
|---|---|---|---|---|---|---|---|
| | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| RH-HAUL | Orange Route (RHA-TK-SLOP) | 0.42 | 1.50 | 0.11 | 0.38 | 0.011 | 0.038 |
| | Red Route (RH1-TK-COND-WEST) | 2.75 | 9.73 | 0.70 | 2.48 | 0.070 | 0.25 |
| | Orange Route (RA2-TK-SLOP) | 0.78 | 2.76 | 0.20 | 0.70 | 0.020 | 0.070 |
| | Blue Route (RH4-TK-SLOP) | 0.78 | 2.77 | 0.20 | 0.71 | 0.020 | 0.071 |
| | Green Route (RH2-TK-SLOP) | 0.48 | 1.69 | 0.12 | 0.43 | 0.012 | 0.043 |
| | Red Route (RH1-TK-SLOP) | 1.15 | 4.09 | 0.29 | 1.04 | 0.029 | 0.10 |
| **Total** | | **6.37** | **22.54** | **1.62** | **5.75** | **0.16** | **0.57** |

**Controlled Haul Road Emissions**

| Unit ID | Haul Road Route | TSP | | $PM_{10}$ | | $PM_{2.5}$ | |
|---|---|---|---|---|---|---|---|
| | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| RH-HAUL | Orange Route (RHA-TK-SLOP) | 0.09 | 0.34 | 0.024 | 0.086 | 2.42E-03 | 8.56E-03 |
| | Red Route (RH1-TK-COND-WEST) | 0.62 | 2.18 | 0.157 | 0.56 | 0.016 | 0.056 |
| | Orange Route (RA2-TK-SLOP) | 0.17 | 0.62 | 0.04 | 0.16 | 4.45E-03 | 0.016 |
| | Blue Route (RH4-TK-SLOP) | 0.18 | 0.62 | 0.045 | 0.16 | 4.47E-03 | 0.016 |
| | Green Route (RH2-TK-SLOP) | 0.11 | 0.38 | 0.027 | 0.10 | 2.73E-03 | 9.66E-03 |
| | Red Route (RH1-TK-SLOP) | 0.259 | 0.92 | 0.066 | 0.23 | 6.59E-03 | 0.02 |
| **Total** | | **1.43** | **5.05** | **0.36** | **1.29** | **0.036** | **0.13** |

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# Sour Water Haul Roads (RHA-TK-SLOP) - Orange Haul Route

*Site-Wide*

| Description | Value | Unit |
|---|---|---|
| Annual Operating Hours: | 8,760 | hr |
| Daily Operating Hours: | 24 | hr |

*Unpaved Haul Road*

| Parameter | Value | Unit |
|---|---|---|
| Empty Vehicle Weight[1] | 16 | ton |
| Load Size[2] | 31.43 | ton |
| Loaded Vehicle Weight[3] | 47.43 | ton |
| Mean Vehicle Weight[4] | 31.72 | ton |
| Vehicles Per Day[5] | 24 | VPD |
| Vehicles Per Year | 265 | VPY |
| Segment Length | 0.94 | mile |
| Trips per Segment | 2 | - |
| Effective Segment Length[6] | 1.88 | mile |
| Trips per Hour[7] | 2 | - |
| Wet Days[8] | 70 | day |
| Surface Silt Content[9] | 4.8 | % |
| Control Efficiency | 78% | % |

[1] Empty vehicle weight includes driver and occupants and full fuel load.

[2] Include cargo, transported materials, etc. (~62.21 lb/ft$^3$ / 7.48052 gal/ft$^3$ *7560 gal truck/ 2000lb/ton)

[3] Loaded vehicle weight = Empty + Load Size

[4] Mean Vehicle weight = (Loaded Weight + Empty Weight) / 2

[5] Vehicles per day = Condensate and produced water throughput / 7560 gal truck

[6] Effective segment length = trips per segment * segment length

[7] Trips per hour = Vehicles per day * Segments per trip ÷ Hours of Operation per Day

[8] Wet days is the NM default allowed by NMED without additional justification

[9] Surface silt content based on AP-42 Section 13.2.2.2, Table 13.2.2-1

***Unpaved Road Emission Factors***

| | Calculation Parameters[1] | | | | | | | | | | | | Hourly Emission Factors | | | Annual Emission Factors | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | s | W | P | k | | | a | | | b | | | E[2] | | | $E_{ext}$[5] | | |
| Route | Silt Content[1] % | Mean Vehicle Weight tons | Wet Days day | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT | TSP | $PM_{10}$ | $PM_{2.5}$ | TSP | $PM_{10}$ | $PM_{2.5}$ | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT |
| Sour Water Trucks | 4.8 | 31.72 | 70 | 4.9 | 1.5 | 0.15 | 0.7 | 0.9 | 0.9 | 0.45 | 0.45 | 0.45 | 7.46 | 1.90 | 0.19 | 6.03 | 1.54 | 0.15 |

[1] Constants are from AP-42 Table 13.2.2-2 in Section 13.2.2.2, and emission factors are calculated using equation 1a.

***Unpaved Road Emissions***

| | Calculation Inputs | | | | | | Uncontrolled Emissions | | | | | | Controlled Emissions[6] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Annual Operation | Segment Length | Trips per Segment | Number of Trucks per Year | Effective Segment Length | Average VMT/yr[4] | TSP | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | | $PM_{10}$ | | $PM_{2.5}$ | |
| Route | hr | mi | | trucks/yr | mi | mi/yr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Sour Water Trucks | 8,760 | 0.94 | 2 | 264.55 | 1.88 | 497 | 0.42 | 1.50 | 0.11 | 0.38 | 0.01 | 0.04 | 0.09 | 0.34 | 0.024 | 0.09 | 0.002 | 0.01 |
| ***Totals*** | | | | | | | ***0.42*** | ***1.50*** | ***0.11*** | ***0.38*** | ***0.01*** | ***0.04*** | ***0.09*** | ***0.34*** | ***0.02*** | ***0.09*** | ***0.002*** | ***0.01*** |

[1] Surface silt = % of 75 micron diameter and smaller particles

[2] E = k x (s/12)^a x (W/3)^b (AP-42 page 13.2.2-4 Equation 1a, November 2006)

E= Size Specific Emission Factor (lb/VMT)

s = surface material silt content (%)

k, a, b = constants from AP-42 Table 13.2.2-2

W = Weighted Mean Vehicle Weight from Haul Road Inputs (tons)

[3] $PM_{30}$ emission factor in equation is assumed as a surrogate for TSP emissions

[4] VMT/yr = Vehicle Miles Travelled per year= Trips per year * Segment Length

[5] Wet Day Emission Factor = E * (365 - Wet Days)/365. Wet days value is the NM default allowed by NMED without additional justification.

[6] Controlled Emissions = Uncontrolled Emissions * (1 - Control Factor/100%)

Control Efficiency = 78%

$Control_{AB} = Control_A + (1-Control_A) \times Control_B$

$Control_{AB}$ = 60% for Base Course+ (1-60% for Base Course) x 44% for Speed Limit

$Control_{AB}$ = 78%

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## Condensate Haul Roads (RH1-TK-COND-WEST) - Red Haul Route

*Site-Wide*

| Description | Value | Unit |
|---|---|---|
| Annual Operating Hours: | 8,760 | hr |
| Daily Operating Hours: | 24 | hr |

*Unpaved Haul Road*

| Parameter | Value | Unit |
|---|---|---|
| Empty Vehicle Weight[1] | 16 | ton |
| Load Size[2] | 18.62 | ton |
| Loaded Vehicle Weight[3] | 34.62 | ton |
| Mean Vehicle Weight[4] | 25.31 | ton |
| Vehicles Per Day[5] | 96 | VPD |
| Vehicles Per Year | 1,344 | VPY |
| Segment Length | 1.33 | mile |
| Trips per Segment | 2 | - |
| Effective Segment Length[6] | 2.66 | mile |
| Trips per Hour[7] | 8 | - |
| Wet Days[8] | 70 | day |
| Surface Silt Content[9] | 4.8 | % |
| Control Efficiency | 78% | % |

[1] Empty vehicle weight includes driver and occupants and full fuel load.

[2] Include cargo, transported materials, etc. (~55.65 lb/ft$^3$ / 7.48052 gal/ft$^3$ *7560 gal truck/ 2000lb/ton)

[3] Loaded vehicle weight = Empty + Load Size

[4] Mean Vehicle weight = (Loaded Weight + Empty Weight) / 2

[5] Vehicles per day = Condensate and produced water throughput / 7560 gal truck

[6] Effective segment length = trips per segment * segment length

[7] Trips per hour = Vehicles per day * Segments per trip ÷ Hours of Operation per Day

[8] Wet days is the NM default allowed by NMED without additional justification

[9] Surface silt content based on AP-42 Section 13.2.2.2, Table 13.2.2-1

***Unpaved Road Emission Factors***

| | Calculation Parameters[1] | | | | | | | | | | | | Hourly Emission Factors | | | Annual Emission Factors | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | s | W | P | k | | | a | | | b | | | E[2] | | | $E_{ext}$[5] | | |
| Route | Silt Content[1] % | Mean Vehicle Weight tons | Wet Days day | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT | TSP | $PM_{10}$ | $PM_{2.5}$ | TSP | $PM_{10}$ | $PM_{2.5}$ | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT |
| Condensate Trucks | 4.8 | 25.31 | 70 | 4.9 | 1.5 | 0.15 | 0.7 | 0.9 | 0.9 | 0.45 | 0.45 | 0.45 | 6.74 | 1.72 | 0.17 | 5.44 | 1.39 | 0.14 |

[1] Constants are from AP-42 Table 13.2.2-2 in Section 13.2.2.2, and emission factors are calculated using equation 1a.

***Unpaved Road Emissions***

| | Calculation Inputs | | | | | | Uncontrolled Emissions | | | | | | Controlled Emissions[6] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Annual Operation | Segment Length | Trips per Segment | Number of Trucks per Year | Effective Segment Length | Average VMT/yr[4] | TSP | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | | $PM_{10}$ | | $PM_{2.5}$ | |
| Route | hr | mi | | trucks/yr | mi | mi/yr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Condensate Trucks | 8,760 | 1.33 | 2 | 1344 | 2.66 | 3575 | 2.75 | 9.73 | 0.70 | 2.48 | 0.07 | 0.25 | 0.62 | 2.18 | 0.16 | 0.56 | 0.016 | 0.056 |
| ***Totals*** | | | | | | | ***2.75*** | ***9.73*** | ***0.70*** | ***2.48*** | ***0.07*** | ***0.25*** | ***0.62*** | ***2.18*** | ***0.16*** | ***0.56*** | ***0.016*** | ***0.056*** |

[1] Surface silt = % of 75 micron diameter and smaller particles

[2] E = k x (s/12)^a x (W/3)^b (AP-42 page 13.2.2-4 Equation 1a, November 2006)

E= Size Specific Emission Factor (lb/VMT)

s = surface material silt content (%)

k, a, b = constants from AP-42 Table 13.2.2-2

W = Weighted Mean Vehicle Weight from Haul Road Inputs (tons)

[3] $PM_{30}$ emission factor in equation is assumed as a surrogate for TSP emissions

[4] VMT/yr = Vehicle Miles Travelled per year= Trips per year * Segment Length

[5] Wet Day Emission Factor = E * (365 - Wet Days)/365. Wet days value is the NM default allowed by NMED without additional justification.

[6] Controlled Emissions = Uncontrolled Emissions * (1 - Control Factor/100%)

Control Efficiency = 78%

$Control_{AB} = Control_A + (1-Control_A) \times Control_B$

$Control_{AB}$ = 60% for Base Course+ (1-60% for Base Course) x 44% for Speed Limit

$Control_{AB}$ = 78%

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Sour Water Haul Roads (RA2-TK-SLOP) - Orange Haul Route

*Site-Wide*

| Description | Value | Unit |
|---|---|---|
| Annual Operating Hours: | 8,760 | hr |
| Daily Operating Hours: | 24 | hr |

*Unpaved Haul Road*

| Parameter | Value | Unit |
|---|---|---|
| Empty Vehicle Weight[1] | 16 | ton |
| Load Size[2] | 31.43 | ton |
| Loaded Vehicle Weight[3] | 47.43 | ton |
| Mean Vehicle Weight[4] | 31.71 | ton |
| Vehicles Per Day[5] | 24 | VPD |
| Vehicles Per Year | 463 | VPY |
| Segment Length | 0.99 | mile |
| Trips per Segment | 2 | - |
| Effective Segment Length[6] | 1.98 | mile |
| Trips per Hour[7] | 2 | - |
| Wet Days[8] | 70 | day |
| Surface Silt Content[9] | 4.8 | % |
| Control Efficiency | 78% | % |

[1] Empty vehicle weight includes driver and occupants and full fuel load.

[2] Include cargo, transported materials, etc. (~62.20 lb/ft$^3$ / 7.48052 gal/ft$^3$ *7560 gal truck/ 2000lb/ton)

[3] Loaded vehicle weight = Empty + Load Size

[4] Mean Vehicle weight = (Loaded Weight + Empty Weight) / 2

[5] Vehicles per day = Condensate and produced water throughput / 7560 gal truck

[6] Effective segment length = trips per segment * segment length

[7] Trips per hour = Vehicles per day * Segments per trip ÷ Hours of Operation per Day

[8] Wet days is the NM default allowed by NMED without additional justification

[9] Surface silt content based on AP-42 Section 13.2.2.2, Table 13.2.2-1

***Unpaved Road Emission Factors***

| | Calculation Parameters[1] | | | | | | | | | | | | Hourly Emission Factors | | | Annual Emission Factors | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | s | W | P | k | | | a | | | b | | | E[2] | | | $E_{ext}$[5] | | |
| Route | Silt Content[1] % | Mean Vehicle Weight tons | Wet Days day | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT | TSP | $PM_{10}$ | $PM_{2.5}$ | TSP | $PM_{10}$ | $PM_{2.5}$ | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT |
| Sour Water Trucks | 4.8 | 31.71 | 70 | 4.9 | 1.5 | 0.15 | 0.7 | 0.9 | 0.9 | 0.45 | 0.45 | 0.45 | 7.46 | 1.90 | 0.19 | 6.03 | 1.54 | 0.15 |

[1] Constants are from AP-42 Table 13.2.2-2 in Section 13.2.2.2, and emission factors are calculated using equation 1a.

***Unpaved Road Emissions***

| | Calculation Inputs | | | | | | Uncontrolled Emissions | | | | | | Controlled Emissions[6] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Annual Operation | Segment Length | Trips per Segment | Number of Trucks per Year | Effective Segment Length | Average VMT/yr[4] | TSP | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | | $PM_{10}$ | | $PM_{2.5}$ | |
| Route | hr | mi | | trucks/yr | mi | mi/yr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Sour Water Trucks | 8,760 | 0.99 | 2 | 462.963 | 1.98 | 917 | 0.78 | 2.76 | 0.20 | 0.70 | 0.020 | 0.07 | 0.17 | 0.62 | 0.04 | 0.16 | 4.45E-03 | 0.016 |
| ***Totals*** | | | | | | | ***0.78*** | ***2.76*** | ***0.20*** | ***0.70*** | ***0.020*** | ***0.07*** | ***0.17*** | ***0.62*** | ***0.04*** | ***0.16*** | ***4.45E-03*** | ***0.016*** |

[1] Surface silt = % of 75 micron diameter and smaller particles

[2] E = k x (s/12)^a x (W/3)^b (AP-42 page 13.2.2-4 Equation 1a, November 2006)

E= Size Specific Emission Factor (lb/VMT)

s = surface material silt content (%)

k, a, b = constants from AP-42 Table 13.2.2-2

W = Weighted Mean Vehicle Weight from Haul Road Inputs (tons)

[3] $PM_{30}$ emission factor in equation is assumed as a surrogate for TSP emissions

[4] VMT/yr = Vehicle Miles Travelled per year= Trips per year * Segment Length

[5] Wet Day Emission Factor = E * (365 - Wet Days)/365. Wet days value is the NM default allowed by NMED without additional justification.

[6] Controlled Emissions = Uncontrolled Emissions * (1 - Control Factor/100%)

Control Efficiency = 78%

$Control_{AB} = Control_A + (1-Control_A) \times Control_B$

$Control_{AB}$ = 60% for Base Course+ (1-60% for Base Course) x 44% for Speed Limit

$Control_{AB}$ = 78%

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Slop Water Haul Roads (RH4-TK-SLOP) - Blue Haul Route

*Site-Wide*

| Description | Value | Unit |
|---|---|---|
| Annual Operating Hours: | 8,760 | hr |
| Daily Operating Hours: | 24 | hr |

*Unpaved Haul Road*

| Parameter | Value | Unit |
|---|---|---|
| Empty Vehicle Weight[1] | 16 | ton |
| Load Size[2] | 31.36 | ton |
| Loaded Vehicle Weight[3] | 47.36 | ton |
| Mean Vehicle Weight[4] | 31.68 | ton |
| Vehicles Per Day[5] | 2 | VPD |
| Vehicles Per Year | 794 | VPY |
| Segment Length | 0.58 | mile |
| Trips per Segment | 2 | - |
| Effective Segment Length[6] | 1.16 | mile |
| Trips per Hour[7] | 1 | - |
| Wet Days[8] | 70 | day |
| Surface Silt Content[9] | 4.8 | % |
| Control Efficiency | 78% | % |

[1] Empty vehicle weight includes driver and occupants and full fuel load.

[2] Include cargo, transported materials, etc. (~62.0557 lb/ft$^3$ / 7.48052 gal/ft$^3$ *7560 gal truck/ 2000lb/ton)

[3] Loaded vehicle weight = Empty + Load Size

[4] Mean Vehicle weight = (Loaded Weight + Empty Weight) / 2

[5] Vehicles per day = Wastewater throughput / 7560 gal truck

[6] Effective segment length = trips per segment * segment length

[7] Trips per hour = Vehicles per day * Segments per trip ÷ Hours of Operation per Day

[8] Wet days is the NM default allowed by NMED without additional justification

[9] Surface silt content based on AP-42 Section 13.2.2.2, Table 13.2.2-1

***Unpaved Road Emission Factors***

| | Calculation Parameters[1] | | | | | | | | | | | | Hourly Emission Factors | | | Annual Emission Factors | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | s | W | P | k | | | a | | | b | | | $E^2$ | | | $E_{ext}$[5] | | |
| Route | Silt Content[1] % | Mean Vehicle Weight tons | Wet Days day | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT | TSP | $PM_{10}$ | $PM_{2.5}$ | TSP | $PM_{10}$ | $PM_{2.5}$ | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT |
| Slop Water Trucks | 4.8 | 31.68 | 70 | 4.9 | 1.5 | 0.15 | 0.7 | 0.9 | 0.9 | 0.45 | 0.45 | 0.45 | 7.45 | 1.90 | 0.19 | 6.02 | 1.54 | 0.15 |

[1] Constants are from AP-42 Table 13.2.2-2 in Section 13.2.2.2, and emission factors are calculated using equation 1a.

***Unpaved Road Emissions***

| | Calculation Inputs | | | | | | Uncontrolled Emissions | | | | | | Controlled Emissions[6] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Annual Operation | Segment Length | Trips per Segment | Number of Trucks per Year | Effective Segment Length | Average VMT/yr[4] | TSP | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | | $PM_{10}$ | | $PM_{2.5}$ | |
| Route | hr | mi | | trucks/yr | mi | mi/yr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Slop Water Trucks | 8,760 | 0.58 | 2 | 794.00 | 1.16 | 921 | 0.78 | 2.77 | 0.20 | 0.71 | 0.020 | 0.07 | 0.18 | 0.62 | 0.045 | 0.16 | 4.47E-03 | 0.016 |
| ***Totals*** | | | | | | | ***0.78*** | ***2.77*** | ***0.20*** | ***0.71*** | ***0.020*** | ***0.07*** | ***0.18*** | ***0.62*** | ***0.045*** | ***0.16*** | ***4.47E-03*** | ***0.016*** |

[1] Surface silt = % of 75 micron diameter and smaller particles

[2] E = k x (s/12)^a x (W/3)^b (AP-42 page 13.2.2-4 Equation 1a, November 2006)

E= Size Specific Emission Factor (lb/VMT)

s = surface material silt content (%)

k, a, b = constants from AP-42 Table 13.2.2-2

W = Weighted Mean Vehicle Weight from Haul Road Inputs (tons)

[3] $PM_{30}$ emission factor in equation is assumed as a surrogate for TSP emissions

[4] VMT/yr = Vehicle Miles Travelled per year= Trips per year * Segment Length

[5] Wet Day Emission Factor = E * (365 - Wet Days)/365. Wet days value is the NM default allowed by NMED without additional justification.

[6] Controlled Emissions = Uncontrolled Emissions * (1 - Control Factor/100%)

Control Efficiency = 78%

$Control_{AB} = Control_A + (1-Control_A) \times Control_B$

$Control_{AB}$ = 60% for Base Course+ (1-60% for Base Course) x 44% for Speed Limit

$Control_{AB}$ = 78%

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Slop Water Haul Roads (RH2-TK-SLOP) - Green Haul Route

*Site-Wide*

| Description | Value | Unit |
|---|---|---|
| Annual Operating Hours: | 8,760 | hr |
| Daily Operating Hours: | 24 | hr |

*Unpaved Haul Road*

| Parameter | Value | Unit |
|---|---|---|
| Empty Vehicle Weight[1] | 16 | ton |
| Load Size[2] | 31.36 | ton |
| Loaded Vehicle Weight[3] | 47.36 | ton |
| Mean Vehicle Weight[4] | 31.68 | ton |
| Vehicles Per Day[5] | 2 | VPD |
| Vehicles Per Year | 530 | VPY |
| Segment Length | 0.53 | mile |
| Trips per Segment | 2 | - |
| Effective Segment Length[6] | 1.06 | mile |
| Trips per Hour[7] | 1 | - |
| Wet Days[8] | 70 | day |
| Surface Silt Content[9] | 4.8 | % |
| Control Efficiency | 78% | % |

[1] Empty vehicle weight includes driver and occupants and full fuel load.

[2] Include cargo, transported materials, etc. (~62.0680 lb/ft$^3$ / 7.48052 gal/ft$^3$ *7560 gal truck/ 2000lb/ton)

[3] Loaded vehicle weight = Empty + Load Size

[4] Mean Vehicle weight = (Loaded Weight + Empty Weight) / 2

[5] Vehicles per day = Wastewater throughput / 7560 gal truck

[6] Effective segment length = trips per segment * segment length

[7] Trips per hour = Vehicles per day * Segments per trip ÷ Hours of Operation per Day

[8] Wet days is the NM default allowed by NMED without additional justification

[9] Surface silt content based on AP-42 Section 13.2.2.2, Table 13.2.2-1

***Unpaved Road Emission Factors***

| | Calculation Parameters[1] | | | | | | | | | | | | Hourly Emission Factors | | | Annual Emission Factors | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | s | W | P | k | | | a | | | b | | | $E^2$ | | | $E_{ext}$[5] | | |
| Route | Silt Content[1] % | Mean Vehicle Weight tons | Wet Days day | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT | TSP | $PM_{10}$ | $PM_{2.5}$ | TSP | $PM_{10}$ | $PM_{2.5}$ | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT |
| Slop Water Trucks | 4.8 | 31.68 | 70 | 4.9 | 1.5 | 0.15 | 0.7 | 0.9 | 0.9 | 0.45 | 0.45 | 0.45 | 7.45 | 1.90 | 0.19 | 6.02 | 1.54 | 0.15 |

[1] Constants are from AP-42 Table 13.2.2-2 in Section 13.2.2.2, and emission factors are calculated using equation 1a.

***Unpaved Road Emissions***

| | Calculation Inputs | | | | | | Uncontrolled Emissions | | | | | | Controlled Emissions[6] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Annual Operation | Segment Length | Trips per Segment | Number of Trucks per Year | Effective Segment Length | Average VMT/yr[4] | TSP | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | | $PM_{10}$ | | $PM_{2.5}$ | |
| Route | hr | mi | | trucks/yr | mi | mi/yr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Slop Water Trucks | 8,760 | 0.53 | 2 | 530 | 1.06 | 562 | 0.48 | 1.69 | 0.12 | 0.43 | 0.012 | 0.04 | 0.11 | 0.38 | 0.03 | 0.10 | 0.003 | 0.010 |
| ***Totals*** | | | | | | | ***0.48*** | ***1.69*** | ***0.12*** | ***0.43*** | ***0.012*** | ***0.04*** | ***0.11*** | ***0.38*** | ***0.03*** | ***0.10*** | ***0.003*** | ***0.010*** |

[1] Surface silt = % of 75 micron diameter and smaller particles

[2] E = k x (s/12)^a x (W/3)^b (AP-42 page 13.2.2-4 Equation 1a, November 2006)

E= Size Specific Emission Factor (lb/VMT)

s = surface material silt content (%)

k, a, b = constants from AP-42 Table 13.2.2-2

W = Weighted Mean Vehicle Weight from Haul Road Inputs (tons)

[3] $PM_{30}$ emission factor in equation is assumed as a surrogate for TSP emissions

[4] VMT/yr = Vehicle Miles Travelled per year= Trips per year * Segment Length

[5] Wet Day Emission Factor = E * (365 - Wet Days)/365. Wet days value is the NM default allowed by NMED without additional justification.

[6] Controlled Emissions = Uncontrolled Emissions * (1 - Control Factor/100%)

Control Efficiency = 78%

$Control_{AB} = Control_A + (1-Control_A) \times Control_B$

$Control_{AB}$ = 60% for Base Course+ (1-60% for Base Course) x 44% for Speed Limit

$Control_{AB}$ = 78%

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Slop Water Haul Roads (RH1-TK-SLOP) - Red Haul Route

*Site-Wide*

| Description | Value | Unit |
|---|---|---|
| Annual Operating Hours: | 8,760 | hr |
| Daily Operating Hours: | 24 | hr |

*Unpaved Haul Road*

| Parameter | Value | Unit |
|---|---|---|
| Empty Vehicle Weight[1] | 16 | ton |
| Load Size[2] | 31.36 | ton |
| Loaded Vehicle Weight[3] | 47.36 | ton |
| Mean Vehicle Weight[4] | 31.68 | ton |
| Vehicles Per Day[5] | 2 | VPD |
| Vehicles Per Year | 530 | VPY |
| Segment Length | 1.28 | mile |
| Trips per Segment | 2 | - |
| Effective Segment Length[6] | 2.56 | mile |
| Trips per Hour[7] | 1 | - |
| Wet Days[8] | 70 | day |
| Surface Silt Content[9] | 4.8 | % |
| Control Efficiency | 78% | % |

[1] Empty vehicle weight includes driver and occupants and full fuel load.

[2] Include cargo, transported materials, etc. (~62.0653 lb/ft$^3$ / 7.48052 gal/ft$^3$ *7560 gal truck/ 2000lb/ton)

[3] Loaded vehicle weight = Empty + Load Size

[4] Mean Vehicle weight = (Loaded Weight + Empty Weight) / 2

[5] Vehicles per day = Wastewater throughput / 7560 gal truck

[6] Effective segment length = trips per segment * segment length

[7] Trips per hour = Vehicles per day * Segments per trip ÷ Hours of Operation per Day

[8] Wet days is the NM default allowed by NMED without additional justification

[9] Surface silt content based on AP-42 Section 13.2.2.2, Table 13.2.2-1

***Unpaved Road Emission Factors***

| | Calculation Parameters[1] | | | | | | | | | | | | Hourly Emission Factors | | | Annual Emission Factors | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | s | W | P | k | | | a | | | b | | | E[2] | | | $E_{ext}$[5] | | |
| Route | Silt Content[1] % | Mean Vehicle Weight tons | Wet Days day | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT | TSP | $PM_{10}$ | $PM_{2.5}$ | TSP | $PM_{10}$ | $PM_{2.5}$ | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT | TSP lb/VMT | $PM_{10}$ lb/VMT | $PM_{2.5}$ lb/VMT |
| Contact Water Trucks | 4.8 | 31.68 | 70 | 4.9 | 1.5 | 0.15 | 0.7 | 0.9 | 0.9 | 0.45 | 0.45 | 0.45 | 7.45 | 1.90 | 0.19 | 6.02 | 1.54 | 0.15 |

[1] Constants are from AP-42 Table 13.2.2-2 in Section 13.2.2.2, and emission factors are calculated using equation 1a.

***Unpaved Road Emissions***

| | Calculation Inputs | | | | | | Uncontrolled Emissions | | | | | | Controlled Emissions[6] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Annual Operation | Segment Length | Trips per Segment | Number of Trucks per Year | Effective Segment Length | Average VMT/yr[4] | TSP | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | | $PM_{10}$ | | $PM_{2.5}$ | |
| Route | hr | mi | | trucks/yr | mi | mi/yr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Contact Water Trucks | 8,760 | 1.28 | 2 | 530 | 2.56 | 1357 | 1.15 | 4.09 | 0.29 | 1.04 | 0.029 | 0.10 | 0.26 | 0.92 | 0.07 | 0.23 | 0.007 | 0.023 |
| ***Totals*** | | | | | | | ***1.15*** | ***4.09*** | ***0.29*** | ***1.04*** | ***0.029*** | ***0.10*** | ***0.26*** | ***0.92*** | ***0.07*** | ***0.23*** | ***0.007*** | ***0.023*** |

[1] Surface silt = % of 75 micron diameter and smaller particles

[2] E = k x (s/12)^a x (W/3)^b (AP-42 page 13.2.2-4 Equation 1a, November 2006)

E= Size Specific Emission Factor (lb/VMT)

s = surface material silt content (%)

k, a, b = constants from AP-42 Table 13.2.2-2

W = Weighted Mean Vehicle Weight from Haul Road Inputs (tons)

[3] $PM_{30}$ emission factor in equation is assumed as a surrogate for TSP emissions

[4] VMT/yr = Vehicle Miles Travelled per year= Trips per year * Segment Length

[5] Wet Day Emission Factor = E * (365 - Wet Days)/365. Wet days value is the NM default allowed by NMED without additional justification.

[6] Controlled Emissions = Uncontrolled Emissions * (1 - Control Factor/100%)

Control Efficiency = 78%

$Control_{AB} = Control_A + (1-Control_A) \times Control_B$

$Control_{AB}$ = 60% for Base Course+ (1-60% for Base Course) x 44% for Speed Limit

$Control_{AB}$ = 78%

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# RH, DIESEL FIRED GENERATOR, WATER WELL

Emission Unit: RH-GEN-WELL
Source Description: RH, DIESEL FIRED GENERATOR, WATER WELL
Manufacturer: ISUZU Motors Limited
Model: BV-4LE1
Type: ASZXL02-2VNC

**Fuel Consumption**

| | | | |
|---|---|---|---|
| Site horsepower | 35 | hp | Manufacturer Rating |
| Site power (kW) | 26 | kW | Manufacturer Rating |
| Fuel heat value | 137000.00 | Btu/gal | Fuel heat value of typical diesel |
| Heat input | 0.28 | MMBtu/hr | Using gal/yr |
| Heat input | 0.28 | MMBtu/hr | Fuel consumption * Fuel heat value |
| Hours of Operation | 120.0 | hrs/yr | |
| Fuel Consumption | 8000 | Btu/hp-hr | Assumed Fuel Consumption @ Max Rating |

**Emission Calculations**

| *Uncontrolled* | $NO_x$[1] | CO[1] | VOC[1,2] | $SO_2$[2] | HCHO[2] | $PM_{10}$[2,3] | $PM_{2.5}$[2,3] | Total HAP | Units | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Emission Factors | 6.10 | 0.78 | 0.12 | | | | | | g/kW-hr | Certification Levels |
| | 8.18 | 1.05 | 0.16 | | | | | | g/hp-hr | |
| | | | | 0.29 | 1.80E-03 | 0.31 | 0.31 | | lb/MMBtu | AP-42 Table 3.3-1 and 3.3-2 |
| **Emissions** | **0.63** | **0.081** | **0.013** | **0.081** | **5.04E-04** | **0.087** | **0.087** | **1.21E-03** | lb/hr | |
| | **0.038** | **4.84E-03** | **7.75E-04** | **4.87E-03** | **3.02E-05** | **5.21E-03** | **5.21E-03** | **7.27E-05** | tpy | |

| Acetaldehyde[4] | Acrolein[4] | Benzene[4] | 1-3 Butadiene[4] | Toluene[4] | Xylene[4] | |
|---|---|---|---|---|---|---|
| 7.67E-04 | 9.25E-05 | 9.33E-04 | 3.91E-05 | 4.09E-04 | 2.85E-04 | lb/MMBtu |
| **2.15E-04** | **2.59E-05** | **2.61E-04** | **1.09E-05** | **1.15E-04** | **7.98E-05** | lb/hr |
| **1.29E-05** | **1.55E-06** | **1.57E-05** | **6.57E-07** | **6.87E-06** | **4.79E-06** | tpy |

| *Controlled* | $NO_x$ | CO | VOC[1] | $SO_2$[2] | HCHO[2] | $PM_{10}$[2,3] | $PM_{2.5}$[2,3] | Total HAP | Units | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Emission Factors | 6.10 | 0.78 | 0.12 | | | | | | g/kW-hr | Certification Levels |
| | 8.18 | 1.05 | 0.16 | | | | | | g/hp-hr | |
| | 0% | 0% | 0% | | | | | | | % Reduction |
| | | | | 0.29 | 1.80E-03 | 0.31 | 0.31 | | lb/MMBtu | AP-42 Table 3.3-1 and 3.3-2 |
| **Emissions** | **0.63** | **0.081** | **0.013** | **0.081** | **5.04E-04** | **0.087** | **0.087** | **1.21E-03** | lb/hr | |
| | **0.038** | **4.84E-03** | **7.75E-04** | **4.87E-03** | **3.02E-05** | **5.21E-03** | **5.21E-03** | **7.27E-05** | tpy | |

*NOTES*

[1] VOC emissions (lb/hr) are calculated by adding aldehyde emissions. % reduction is based on the total VOCs, including formaldehyde and acetaldehyde.
[2] $SO_2$, PM and HCHO emission factors are referenced from AP-42 Table 3.3-1
[3] Assumes PM (Filterable + Condensable) = $PM_{10}$ = $PM_{2.5}$

| GHG Emissions | | | | | | | |
|---|---|---|---|---|---|---|---|
| $CO_2$[1] | $CH_4$[2] | $N_2O$[2] | $CH_4$[3] | $N_2O$[3] | Total $CO_2e$ | | |
| 73.96 | 3.00E-03 | 6.00E-04 | | | 0.020 | kg $CO_2$/MMBtu | 40CFR Part 98, Tables C-1 and C-2 |
| 1 | | | 28 | 265 | | GWP Factor | 40CFR Part 98, Table A-1 |
| **45.66** | **1.85E-03** | **3.70E-04** | **0.052** | **0.10** | **45.81** | lb/hr | |
| **2.74** | **1.11E-04** | **2.22E-05** | **3.11E-03** | **5.89E-03** | **2.75** | tpy | |

*NOTES*

[1] $CO_2$ emission factor is referenced from Table C-1 of 40 CFR Part 98 for Distillate Oil No. 2.
[2] $CH_4$ and $N_2O$ emission factors are referenced from Table C-2 of 40 CFR Part 98.
[3] GWP is referenced from Table A-1 of 40 CFR Part 98.

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Diesel Fired Generator

Emission Unit: RH-GEN-1 through RH-GEN-10
Source Description: Diesel Fired Generator
Manufacturer: TBD
Model: TBD
Type: Compression Ignited

**Fuel Consumption**

| | | | |
|---|---|---|---|
| Site horsepower | 499 | hp | Maximum horsepower of generator engine |
| Site power (kW) | 210 | kW | Maximum kW of generator engine |
| Fuel heat value | 137000 | Btu/gal | Fuel heat value of typical diesel |
| Heat input | 3.99 | MMBtu/hr | Fuel consumption * Fuel heat value |
| Hours of Operation | 500 | hrs/yr | ~3 weeks/yr of runtime |
| Fuel Consumption | 8000 | Btu/hp-hr | Engineering Estimate |

**Emission Calculations**

| Uncontrolled | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **$NO_x$[1]** | **CO[1]** | **VOC[1,2]** | **$SO_2$[3]** | **HCHO[4]** | **$PM_{10}$[1,5]** | **$PM_{2.5}$[1,5]** | **Total HAPs[4]** | | |
| 0.30 | 2.60 | 0.14 | | | 0.015 | 0.015 | | g/hp-hr | Tier 4 Emissions Standards for Non-Road Engines |
| | | | 1.52E-03 | 1.18E-03 | | | | lb/MMBtu | AP-42 Table 3.3-1.2 |
| **0.33** | **2.86** | **0.16** | **6.05E-03** | **4.71E-03** | **0.017** | **0.017** | **0.015** | lb/hr | |
| **0.083** | **0.72** | **0.040** | **1.51E-03** | **1.18E-03** | **4.13E-03** | **4.13E-03** | **3.70E-03** | tpy | |

| **Acetaldehyde[4]** | **Acrolein[4]** | **Benzene[4]** | **1-3 Butadiene[4]** | **Toluene[4]** | **Xylene[4]** | |
|---|---|---|---|---|---|---|
| 7.67E-04 | 9.25E-05 | 9.33E-04 | 3.91E-05 | 4.09E-04 | 2.85E-04 | lb/MMBtu |
| **3.06E-03** | **3.69E-04** | **3.72E-03** | **1.56E-04** | **1.63E-03** | **1.14E-03** | lb/hr |
| **7.65E-04** | **9.23E-05** | **9.31E-04** | **3.90E-05** | **4.08E-04** | **2.84E-04** | tpy |

| Controlled | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **$NO_x$[1]** | **CO[1]** | **VOC[1,2]** | **$SO_2$[3]** | **HCHO[4]** | **$PM_{10}$[1,5]** | **$PM_{2.5}$[1,5]** | **Total HAPs[4]** | | |
| 0.30 | 2.60 | 0.14 | | | 0.015 | 0.015 | | g/hp-hr | Tier 4 Emissions Standards for Non-Road Engines |
| 0% | 0% | 0% | | | 0% | 0% | | % Reduction | |
| | | | 0.001515 | 1.18E-03 | | | | lb/MMBtu | AP-42 Table 3.3-1.2 |
| **0.33** | **2.86** | **0.16** | **6.05E-03** | **4.71E-03** | **0.017** | **0.017** | **0.015** | lb/hr | |
| **0.083** | **0.72** | **0.040** | **1.51E-03** | **1.18E-03** | **4.13E-03** | **4.13E-03** | **3.70E-03** | tpy | |

*NOTES*

[1] $NO_x$, CO, VOC, and PM emission factors are referenced from Final Tier 4 Emissions Standards for Non-Road Engines.

[2] Formaldehyde and acetaldehyde emissions conservatively included in VOC total.

[3] AP-42 Table 3.4-1 Gaseous Emission Factors for Large Stationary Diesel and All Stationary Duel-Fuel Engines. Sulfur percentage is assumed to be 15 ppm for Ultra-Low Sulfur Diesel (ULSD).

[4] HAPs emissions factors are referenced from AP-42 Table 3.3-2 Speciated Organic Compound Emission Factors for Uncontrolled Diesel Engines.

[5] Assumes PM (Filterable + Condensable) = $PM_{10}$ = $PM_{2.5}$

| GHG Emissions | | | | | | | |
|---|---|---|---|---|---|---|---|
| **$CO_2$[1]** | **$CH_4$[2]** | **$N_2O$[2]** | **$CH_4$[3]** | **$N_2O$[3]** | **Total $CO_2e$** | | |
| 73.96 | 3.00E-03 | 6.00E-04 | | | 0.020 | kg $CO_2$/MMBtu | 40CFR Part 98, Tables C-1 and C-2 |
| 1 | | | 28 | 265 | | GWP Factor | 40CFR Part 98, Table A-1 |
| **650.91** | **0.026** | **5.28E-03** | **0.74** | **1.40** | **653.05** | lb/hr | |
| **162.73** | **6.60E-03** | **1.32E-03** | **0.18** | **0.35** | **163.26** | tpy | |

*NOTES*

[1] $CO_2$ emission factor is referenced from Table C-1 of 40 CFR Part 98 for Distillate Oil No. 2.

[2] $CH_4$ and $N_2O$ emission factors are referenced from Table C-2 of 40 CFR Part 98.

[3] GWP is referenced from Table A-1 of 40 CFR Part 98.

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# RH, DIESEL FIRED HEATER TRAILER

| | | | |
|---|---|---|---|
| Unit: | RH-TRAILER | | |
| Description: | RH, DIESEL FIRED HEATER TRAILER | | |
| Rating: | 10.29 | kW | |
| Horsepower: | 13.8 | hp | Manufacturer Specs |
| Operating hours: | 40 | hrs/year | |
| Fuel consumption: | 3.2 | gal/hr | |
| Fuel consumption: | 0.43 | scf/hr | |
| Heating rate: | 1.00 | MMBtu/hr | Manufacturer Specs |

| *Uncontrolled* | $NO_x$ | CO | VOC | $SO_2$ | PM | HAP | Unit | Notes |
|---|---|---|---|---|---|---|---|---|
| Engine Emission Factors [1,2] | 5.32 | 4.9 | 0.28 | | 0.30 | | g/bhp-hr | NSPS IIII Tier IV Final Emission Factors |
| | | | | 0.29 | | | lb/MMBtu | AP-42 Table 3.3-1 |
| | | | | | | 3.79E-03 | lb/MMBtu | AP-42 Table 3.3-2 |
| Heater Emission Factors [3,4,5] | 20.00 | 5.0 | 0.34 | 42.6 | 2.0 | | lb/1000 gal | AP-42 Table 1.3-1 |
| | 0.14 | 0.036 | 2.43E-03 | 0.30 | 0.014 | | lb/MMBtu[6] | AP-42 Table 1.3-2(d) |
| | | | | | | | lb/MMBtu | AP-42 Table 1.3-9 |
| Engine Emissions | 0.16 | 0.15 | 8.52E-03 | 0.29 | 9.13E-03 | 3.79E-03 | lb/hr | |
| | 3.24E-03 | 2.98E-03 | 1.70E-04 | 5.80E-03 | 1.83E-04 | 7.58E-05 | tpy | Emissions based on operating hr/yr |
| Heater Emissions | 0.14 | 0.036 | 2.43E-03 | 0.30 | 0.014 | 0.040 | lb/hr | |
| | 2.86E-03 | 7.14E-04 | 4.86E-05 | 6.09E-03 | 2.86E-04 | 7.92E-04 | tpy | Emissions based on operating hr/yr |
| **Total Emissions** | **0.30** | **0.18** | **0.011** | **0.59** | **0.023** | **0.043** | **lb/hr** | |
| | **6.09E-03** | **3.70E-03** | **2.189E-04** | **0.012** | **4.68E-04** | **8.68E-04** | **tpy** | Emissions based on operating hr/yr |

| *Controlled* | $NO_x$ | CO | VOC | $SO_2$ | PM | HAP | Unit | Notes |
|---|---|---|---|---|---|---|---|---|
| Engine Emission Factors [1,2] | 5.32 | 4.9 | 0.28 | | 0.30 | | g/bhp-hr | NSPS IIII Tier IV Final Emission Factors |
| | | | | 0.29 | | | lb/MMBtu | AP-42 Table 3.3-1 |
| | | | | | | 3.79E-03 | lb/MMBtu | AP-42 Table 3.3-2 |
| Heater Emission Factors [3,4,5] | 20.00 | 5.0 | 0.34 | 42.6 | 2.0 | | lb/1000 gal | AP-42 Table 1.3-1 |
| | 0.14 | 0.036 | 2.43E-03 | 0.30 | 0.014 | | lb/MMBtu[6] | AP-42 Table 1.3-2(d) |
| | | | | | | | lb/MMBtu | AP-42 Table 1.3-9 |
| Engine Emissions | 0.16 | 0.15 | 8.52E-03 | 0.29 | 9.13E-03 | 3.79E-03 | lb/hr | |
| | 3.24E-03 | 2.98E-03 | 1.70E-04 | 5.80E-03 | 1.83E-04 | 7.58E-05 | tpy | Emissions based on 40 hr/yr |
| Heater Emissions | 0.14 | 0.036 | 2.43E-03 | 0.30 | 0.014 | 0.040 | lb/hr | |
| | 2.86E-03 | 7.14E-04 | 4.86E-05 | 6.09E-03 | 2.86E-04 | 7.92E-04 | tpy | Emissions based on 40 hr/yr |
| **Total Emissions** | **0.30** | **0.18** | **0.011** | **0.59** | **0.023** | **0.043** | **lb/hr** | |
| | **6.09E-03** | **3.70E-03** | **2.19E-04** | **0.012** | **4.68E-04** | **8.68E-04** | **tpy** | Emissions based on 40 hr/yr |

| *Engine HAPs* | Formaldehyde | Acetaldehyde | Acrolein | Benzene | Toluene | Unit | Notes |
|---|---|---|---|---|---|---|---|
| | 1.18E-03 | 7.67E-04 | 9.25E-05 | 9.33E-04 | 4.09E-04 | lb/MMBtu | AP-42 Table 3.3-2 |
| | **1.18E-03** | **7.67E-04** | **9.25E-05** | **9.33E-04** | **4.09E-04** | **lb/hr** | |
| | **2.36E-05** | **1.53E-05** | **1.85E-06** | **1.87E-05** | **8.18E-06** | **tpy** | |
| ***Heater HAPs*** | **Formaldehyde** | **Ethylbenzene** | **Xylene** | **Benzene** | **Toluene** | **Unit** | **Notes** |
| | 3.30E-02 | 6.36E-05 | 1.09E-04 | 2.14E-04 | 6.20E-03 | lb/MMBtu | AP-42 Table 1.3-9 |
| | **0.033** | **6.36E-05** | **1.09E-04** | **2.14E-04** | **6.20E-03** | **lb/hr** | |
| | **6.60E-04** | **1.27E-06** | **2.18E-06** | **4.28E-06** | **1.24E-04** | **tpy** | |

**Notes**

[1] NSPS IIII Tier IV has a combined $NO_x$ and VOC emission factor of 5.6 g/hp-hr. Per CARB Emission Factors for CI Diesel Engines, when the non-methane hydrocarbon (NMHC) and nitrogen oxide ($NO_x$) emission factor is combined, assume a breakdown of 5% and 95%, respectivley.

[2] $SO_2$ and total HAPs were calculated using AP-42 emissions factors for Diesel Industrial Engines (Table 3.3-1 & 3.3-2).

[3] $NO_x$, CO, PM Emission factors are from US EPA, AP-42, Section 1.3, Table 1.3, Firing configuration *Distillate oil fired.*

[4] VOC Emission factor is from US EPA, AP-42, Section 1.3, Table 1.3-3 Nonmethane Total Organic Compounds, Firing cofiguration Distillate oil fired.

[5] $SO_2$ Emission Factor is 142S from AP-42 Table 1.3-1 EF where S indicates that the weight % of sulfur in the oil should be multiplied by the value given. AP 42 Ch 1.3.1 states Distillate oils contain less that 0.3 percent sulfur by weight.

[6] Per AP-42 Section 1.3, page 1.3-13, in order to convert the emission factors from lb/1000 gal to lb/MMBtu of Fuel Oil No. 2, divide the emission factor by a heating value of: 140 MMBtu/ 1000 gal.

| *Green House Gas Emissions* | $CO_2$[1] | $CH_4$[2] | $N_2O$[2] | $CO_2e$ | Units | Notes |
|---|---|---|---|---|---|---|
| Emission Factors | 73.96 | 3.00E-03 | 6.00E-04 | - | kg/MMBtu | 40 CFR 98 Subpart C Tables C-1 & C-2 |
| | 1 | 28 | 265 | - | GWP | 40 CFR 98 Subpart A Table A-1 |
| | **3.26** | **1.32E-04** | **2.65E-05** | **-** | **tpy** | |
| | **3.26** | **3.70E-03** | **7.01E-03** | **3.27** | **tpy $CO_2e$** | |

*NOTES*

[1] $CO_2$ emission factor is referenced from Table C-1 of 40 CFR Part 98 for Distillate Oil No. 2.

[2] $CH_4$ and $N_2O$ emission factors are referenced from Table C-2 of 40 CFR Part 98.

[3] GWP is referenced from Table A-1 of 40 CFR Part 98.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Pig Launching and Receiving Emission Summary

**Uncontrolled Pig Launching and Receiving Emissions**

| Unit ID | Equipment Description | VOC | | $H_2S$ | | Total HAP | | Benzene | | $CO_2$ | $CH_4$ | $N_2O$ | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | ton/yr | ton/yr | ton/yr | ton/yr |
| RHA-REC-WINKLER | WINKLER INLET PIG RECEIVER | 14.44 | 0.28 | 0.60 | 0.012 | 0.22 | <0.01 | 0.024 | <0.01 | 1.00 | 1.00 | -- | 29.07 |
| RHA-REC-LIMESTONE-8INCH | LIMESTONE 8-INCH INLET PIG RECEIVER | 6.94 | 0.090 | 0.29 | <0.001 | 0.11 | <0.01 | 0.012 | <0.01 | 0.32 | 0.32 | -- | 9.32 |
| RH1-REC-PLANTVIEW | PLANTVIEW INLET LOOP PIG RECEIVER | 19.07 | 0.12 | <0.01 | <0.01 | 0.47 | <0.01 | 0.063 | <0.01 | 0.033 | 0.27 | -- | 7.67 |
| RH1-REC-GUTLINE | GUTLINE INLET PIG RECEIVER | 42.46 | 0.83 | <0.01 | <0.01 | 1.05 | 0.020 | 0.14 | <0.01 | 0.22 | 1.82 | -- | 51.24 |
| RH1-REC-ABU | ABU INLET PIG RECEIVER | 49.47 | 0.32 | <0.01 | <0.01 | 1.22 | <0.01 | 0.16 | <0.01 | 0.084 | 0.71 | -- | 19.90 |
| RH4-REC-24INCH | 24-INCH INLET LOOP PIG RECEIVER | 199.11 | 3.88 | <0.01 | <0.001 | 4.93 | 0.10 | 0.66 | 0.013 | 1.02 | 8.54 | -- | 240.27 |
| RHA-REC-LIMESTONE-10INCH | LIMESTONE 10-INCH INLET PIG RECEIVER | 4.98 | <0.01 | 0.21 | <0.001 | 0.076 | <0.01 | <0.011 | <0.01 | 0.03 | 0.027 | -- | 0.77 |
| RA2-REC-GREYHOUND | GREYHOUND INLET PIG RECEIVER | 13.02 | 0.17 | 0.54 | <0.011 | 0.20 | <0.01 | 0.022 | <0.01 | 0.60 | 0.60 | -- | 17.47 |
| RHA-LAU-LIMESTONE-10INCH | LIMESTONE 10-INCH INLET PIG LAUNCHER | 4.98 | <0.01 | 0.21 | <0.001 | 0.08 | <0.01 | <0.011 | <0.01 | 0.03 | 0.03 | -- | 0.77 |
| RH1-LAU-NGPL | NGPL RESIDUE PIG LAUNCHER | 268.02 | 0.034 | -- | -- | 26.80 | <0.01 | -- | -- | -- | -- | -- | -- |
| RH1-LAU-TW | TW RESIDUE PIG LAUNCHER | 44.51 | <0.01 | -- | -- | 4.45 | <0.01 | -- | -- | -- | -- | -- | -- |
| RH1-LAU-ETC | ETC LONE STAR NGL PIG LAUNCHER | 806.76 | 0.101 | -- | -- | 112.09 | 0.01 | -- | -- | <0.01 | 0.04 | -- | 1.09 |
| RH1-LAU-ONEOK | ONEOK NGL PIG LAUNCHER | 806.76 | 0.101 | -- | -- | 112.09 | 0.01 | -- | -- | <0.01 | 0.04 | -- | 1.09 |
| RH2-LAU-GPX | GPX NGL PIG LAUNCHER | 3,523.73 | 4.37 | <0.01 | <0.001 | 468.85 | 0.204 | 0.604 | 0.01 | 0.93 | 8.11 | -- | 227.96 |
| Total | | 5,804.27 | 10.33 | 1.85 | 0.02 | 732.63 | 0.372 | 1.71 | 0.03 | 4.26 | 21.51 | -- | 606.63 |

**Controlled Pig Launching and Receiving Emissions**

| Unit ID | Equipment Description | VOC | | $H_2S$ | | Total HAP | | Benzene | | $CO_2$ | $CH_4$ | $N_2O$ | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | ton/yr | ton/yr | ton/yr | ton/yr |
| RHA-REC-WINKLER | WINKLER INLET PIG RECEIVER | <0.01 | <0.001 | <0.001 | <0.01 | <0.001 | <0.01 | -- | -- | 0.141 | 0.03 | -- | 1.02 |
| RHA-REC-LIMESTONE-8INCH | LIMESTONE 8-INCH INLET PIG RECEIVER | <0.01 | <0.001 | <0.001 | <0.01 | <0.001 | <0.01 | -- | -- | 0.05 | 0.010 | -- | 0.33 |
| RH1-REC-PLANTVIEW | PLANTVIEW INLET LOOP PIG RECEIVER | 19.07 | 0.12 | <0.01 | <0.01 | 0.47 | <0.01 | 0.063 | <0.01 | 0.033 | 0.27 | -- | 7.67 |
| RH1-REC-GUTLINE | GUTLINE INLET PIG RECEIVER | 42.46 | 0.83 | <0.01 | <0.01 | 1.05 | 0.020 | 0.14 | <0.01 | 0.22 | 1.82 | -- | 51.24 |
| RH1-REC-ABU | ABU INLET PIG RECEIVER | 49.47 | 0.32 | <0.01 | <0.01 | 1.22 | <0.01 | 0.16 | <0.01 | 0.084 | 0.71 | -- | 19.90 |
| RH4-REC-24INCH | 24-INCH INLET LOOP PIG RECEIVER | 17.70 | 0.35 | <0.01 | <0.01 | 0.44 | <0.01 | 0.059 | <0.01 | 0.091 | 0.76 | -- | 21.36 |
| RHA-REC-LIMESTONE-10INCH | LIMESTONE 10-INCH INLET PIG RECEIVER | <0.01 | <0.01 | <0.001 | <0.01 | <0.001 | <0.01 | -- | -- | <0.01 | <0.01 | -- | 0.027 |
| RA2-REC-GREYHOUND | GREYHOUND INLET PIG RECEIVER | <0.01 | <0.001 | <0.001 | <0.01 | <0.001 | <0.01 | -- | -- | 0.084 | 0.019 | -- | 0.61 |
| RHA-LAU-LIMESTONE-10INCH | LIMESTONE 10-INCH INLET PIG LAUNCHER | <0.01 | <0.01 | <0.001 | <0.01 | <0.001 | <0.01 | -- | -- | <0.01 | <0.01 | -- | 0.027 |
| RH1-LAU-NGPL | NGPL RESIDUE PIG LAUNCHER | 268.02 | 0.034 | -- | -- | 26.80 | <0.01 | -- | -- | -- | -- | -- | -- |
| RH1-LAU-TW | TW RESIDUE PIG LAUNCHER | 44.51 | <0.01 | -- | -- | 4.45 | <0.01 | -- | -- | -- | -- | -- | -- |
| RH1-LAU-ETC | ETC LONE STAR NGL PIG LAUNCHER | 806.76 | 0.10 | -- | -- | 112.09 | 0.01 | -- | -- | <0.01 | 0.04 | -- | 1.09 |
| RH1-LAU-ONEOK | ONEOK NGL PIG LAUNCHER | 806.76 | 0.10 | -- | -- | 112.09 | 0.01 | -- | -- | <0.01 | 0.04 | -- | 1.09 |
| RH2-LAU-GPX | GPX NGL PIG LAUNCHER | 3,342.31 | 0.84 | -- | -- | 464.36 | 0.12 | -- | -- | <0.01 | 0.32 | -- | 9.05 |
| Total | | 5,397.07 | 2.69 | <0.01 | <0.01 | 722.98 | 0.188 | 0.43 | <0.01 | 0.70 | 4.03 | -- | 113.42 |

| | |
|---|---|
| **Emission Unit** | RHA-REC-WINKLER |
| **Identifier** | SSM Pigging - Vented to Atmosphere |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 49.25 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 49.22 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 156 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 17.91 |
| **VOC wt %** | 0.01 |
| **benzene wt%** | 0.000 |
| **$H_2S$ wt%** | 0.001 |
| **HAPs wt %** | 0.006 |
| **CO2 wt%** | 77.548 |
| **CH4 wt%** | 17.389 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 17.91 |
| VOC wt % | 0.01 |
| Benzene wt % | 0.000 |
| H2S wt % | 0.001 |
| HAPs wt% | 0.0060 |
| CO2 wt% | 77.5480 |
| CH4 wt% | 17.3890 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | **<0.01** | **<0.01** |
| **Benzene Results:** | - | - |
| **$H_2S$ Results:** | **<0.01** | **<0.01** |
| **HAPs Results:** | 0.00 | 0.0000 |
| **CO2 Results:** | 7.21 | 0.1405 |
| **CH4 Results:** | 1.62 | 0.0315 |

| |
|---|
| **VOC Type:** (pick from list) |
| Natural Gas VOC |

| |
|---|
| **Emission Type:** (pick from list) |
| High Pressure Periodic |

**Calculations / Equations used**

Calculation is based on Ideal gas law: P(V) = n(R)(T)

VOC result = (($$$Pressure of Gas Inside the Unit Before Venting) * (Actual Volume of the Vented Unit)) / (Frequency of events) * (Molecular Weight) * VOC wt%

(Ideal Gas Constant) * (Temperature of Gas Inside the Unit Before Venting)

$$$ Equation may slightly vary depending on whether or not the emissions are controlled. See notes under venting emission calculation for more explanation.

| | |
|---|---|
| **Emission Unit** | RHA-REC-WINKLER |
| **Identifier** | SSM Pigging - Flaring |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | Sour Gas | Purge Gas |
|---|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 320.14 | 246.26 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 319.94 | 246.11 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 | 0 |
| **Atmospheric Pressure (psia)** | 14.7 | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 | 0.25 |
| **Frequency of Events (events/year)** | 156 | 156 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 22.70 | 17.91 |
| **VOC wt %** | 18.85 | 0.01 |
| **benzene wt%** | 0.032 | 0.000 |
| **$H_2S$ wt%** | 0.783 | 0.001 |
| **HAPs wt %** | 0.282 | 0.006 |
| **CO2 wt%** | 10.662 | 77.548 |
| **CH4 wt%** | 54.476 | 17.389 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (B) cont. by flare/ VC/TO/VRU | (B) cont. by flare/ VC/TO/VRU |
| **VOC Control Efficiency (%)** | 98 | 98 |
| **$H_2S$ Control Efficiency (%)** | 98 | 98 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

| | |
|---|---|
| 10.73159 | 10.73159 |

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | | |
|---|---|---|
| Molecular Weight | 22.70 | 17.91 |
| VOC wt % | 18.85 | 0.01 |
| Benzene wt % | 0.032 | 0.000 |
| H2S wt % | 0.783 | 0.0007 |
| HAPs wt% | 0.2818 | 0.0060 |
| CO2 wt% | 10.6618 | 77.5480 |
| CH4 wt% | 54.4759 | 17.3890 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) | Hourly Emissions | Annual Emissions | **Total** Hourly Emissions (lb/hr) | **Total** Annual Emissions (tpy) |
|---|---|---|---|---|---|---|
| **VOC Results:** | 14.44 | 2.81E-01 | 0.00 | 5.44E-05 | 14.44 | 2.82E-01 |
| **Benzene Results:** | 2.42E-02 | 4.73E-04 | 0.00E+00 | 0.00E+00 | 2.42E-02 | 4.73E-04 |
| **$H_2S$ Results:** | 6.00E-01 | 1.17E-02 | 3.40E-04 | 6.64E-06 | 6.00E-01 | 1.17E-02 |
| **HAPs Results:** | 2.16E-01 | 4.21E-03 | 2.79E-03 | 5.44E-05 | 2.19E-01 | 4.26E-03 |
| **CO2 Results:** | 8.16E+00 | 1.59E-01 | 3.60E+01 | 7.03E-01 | 4.42E+01 | 8.62E-01 |
| **CH4 Results:** | 4.17E+01 | 8.13E-01 | 8.08E+00 | 1.58E-01 | 4.98E+01 | 9.71E-01 |

**Planned MSS Emissions**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) | Hourly Emissions | Annual Emissions | **Total** Hourly Emissions (lb/hr) | **Total** Annual Emissions (tpy) |
|---|---|---|---|---|---|---|
| **VOC Results:** | **14.44** | **0.28** | **<0.01** | **<0.01** | 14.44 | 2.82E-01 |
| **Benzene Results:** | **0.02** | **<0.01** | - | - | 2.42E-02 | 4.73E-04 |
| **$H_2S$ Results:** | **0.60** | **0.01** | **<0.01** | **<0.01** | 6.00E-01 | 1.17E-02 |
| **HAPs Results:** | 0.22 | 0.0042 | 0.00 | 0.0001 | 2.19E-01 | 4.26E-03 |
| **CO2 Results:** | 8.16 | 0.1592 | 36.04 | 0.7027 | 4.42E+01 | 8.62E-01 |
| **CH4 Results:** | 41.71 | 0.8134 | 8.08 | 0.1576 | 4.98E+01 | 9.71E-01 |

| |
|---|
| **VOC Type:** (pick from list) |
| Natural Gas VOC |

| |
|---|
| **Emission Type:** (pick from list) |
| High Pressure Periodic |

| | |
|---|---|
| **Emission Unit** | RH1-REC-PLANTVIEW |
| **Identifier** | SSM Pigging - Vented to Atmosphere |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 331.23 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 331.02 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 52 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 22.84 |
| **VOC wt %** | 23.92 |
| **benzene wt%** | 0.080 |
| **$H_2S$ wt%** | 0.000 |
| **HAPs wt %** | 0.592 |
| **CO2 wt%** | 6.277 |
| **CH4 wt%** | 52.636 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 22.84 |
| VOC wt % | 23.92 |
| Benzene wt % | 0.080 |
| H2S wt % | 0.000 |
| HAPs wt% | 0.5921 |
| CO2 wt% | 6.2773 |
| CH4 wt% | 52.6360 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | **19.07** | **0.12** |
| **Benzene Results:** | **0.06** | **<0.01** |
| **$H_2S$ Results:** | **<0.01** | **<0.01** |
| **HAPs Results:** | 0.47 | 0.0031 |
| **CO2 Results:** | 5.00 | 0.0325 |
| **CH4 Results:** | 41.96 | 0.2727 |

| |
|---|
| **VOC Type:** (pick from list) |
| Natural Gas VOC |

| |
|---|
| **Emission Type:** (pick from list) |
| High Pressure Periodic |

**Calculations / Equations used**

Calculation is based on Ideal gas law: P(V) = n(R)(T)

$$\text{VOC result} = \frac{(\$\$\$\text{Pressure of Gas Inside the Unit Before Venting}) * (\text{Actual Volume of the Vented Unit})) / (\text{Frequency of events}) * (\text{Molecular Weight}) * \text{VOC wt\%}}{(\text{Ideal Gas Constant}) * (\text{Temperature of Gas Inside the Unit Before Venting})}$$

$$\$\$\$$$ Equation may slightly vary depending on whether or not the emissions are controlled. See notes under venting emission calculation for more explanation.

| | |
|---|---|
| **Emission Unit** | RHA-REC-LIMESTONE-8INCH |
| **Identifier** | SSM Pigging - Vented to Atmosphere |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 23.69 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 23.67 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 104 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 17.91 |
| **VOC wt %** | 0.01 |
| **benzene wt%** | 0.000 |
| **$H_2S$ wt%** | 0.001 |
| **HAPs wt %** | 0.006 |
| **CO2 wt%** | 77.548 |
| **CH4 wt%** | 17.389 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 17.91 |
| VOC wt % | 0.01 |
| Benzene wt % | 0.000 |
| H2S wt % | 0.001 |
| HAPs wt% | 0.0060 |
| CO2 wt% | 77.5480 |
| CH4 wt% | 17.3890 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | **<0.01** | **<0.01** |
| **Benzene Results:** | - | - |
| **$H_2S$ Results:** | **<0.01** | **<0.01** |
| **HAPs Results:** | 0.00 | 0.0000 |
| **CO2 Results:** | 3.47 | 0.0451 |
| **CH4 Results:** | 0.78 | 0.0101 |

| |
|---|
| **VOC Type:** (pick from list) |
| Natural Gas VOC |

| |
|---|
| **Emission Type:** (pick from list) |
| High Pressure Periodic |

**Calculations / Equations used**

Calculation is based on Ideal gas law: P(V) = n(R)(T)

VOC result = ((\$\$\$Pressure of Gas Inside the Unit Before Venting) * (Actual Volume of the Vented Unit)) / (Frequency of events) * (Molecular Weight) * VOC wt%

(Ideal Gas Constant) * (Temperature of Gas Inside the Unit Before Venting)

\$\$\$ Equation may slightly vary depending on whether or not the emissions are controlled. See notes under venting emission calculation for more explanation.

| | |
|---|---|
| **Emission Unit** | RHA-REC-LIMESTONE-8INCH |
| **Identifier** | SSM Pigging - Flaring |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | Sour Gas | Purge Gas |
|---|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 153.98 | 118.44 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 153.88 | 118.37 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 | 0 |
| **Atmospheric Pressure (psia)** | 14.7 | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 | 0.25 |
| **Frequency of Events (events/year)** | 104 | 104 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 22.70 | 17.91 |
| **VOC wt %** | 18.85 | 0.01 |
| **benzene wt%** | 0.032 | 0.000 |
| **$H_2S$ wt%** | 0.783 | 0.001 |
| **HAPs wt %** | 0.282 | 0.006 |
| **CO2 wt%** | 10.662 | 77.548 |
| **CH4 wt%** | 54.476 | 17.389 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (B) cont. by flare/ VC/TO/VRU | (B) cont. by flare/ VC/TO/VRU |
| **VOC Control Efficiency (%)** | 98 | 98 |
| **$H_2S$ Control Efficiency (%)** | 98 | 98 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159 10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | | |
|---|---|---|
| Molecular Weight | 22.70 | 17.91 |
| VOC wt % | 18.85 | 0.01 |
| Benzene wt % | 0.032 | 0.000 |
| H2S wt % | 0.783 | 0.0007 |
| HAPs wt% | 0.2818 | 0.0060 |
| CO2 wt% | 10.6618 | 77.5480 |
| CH4 wt% | 54.4759 | 17.3890 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) | Hourly Emissions (lb/hr) | Annual Emissions (tpy) | **Total** Hourly Emissions (lb/hr) | **Total** Annual Emissions (tpy) |
|---|---|---|---|---|---|---|
| **VOC Results:** | 6.94E+00 | 9.03E-02 | 0.00 | 1.74E-05 | 6.94 | 9.03E-02 |
| **Benzene Results:** | 1.17E-02 | 1.52E-04 | 0.00E+00 | 0.00E+00 | 1.17E-02 | 1.52E-04 |
| **$H_2S$ Results:** | 2.89E-01 | 3.75E-03 | 1.64E-04 | 2.13E-06 | 2.89E-01 | 3.75E-03 |
| **HAPs Results:** | 1.04E-01 | 1.35E-03 | 1.34E-03 | 1.74E-05 | 1.05E-01 | 1.37E-03 |
| **CO2 Results:** | 3.93E+00 | 5.10E-02 | 1.73E+01 | 2.25E-01 | 2.13E+01 | 2.76E-01 |
| **CH4 Results:** | 2.01E+01 | 2.61E-01 | 3.89E+00 | 5.05E-02 | 2.39E+01 | 3.11E-01 |

| **VOC Type:** (pick from list) |
|---|
| Natural Gas VOC |

| **Emission Type:** (pick from list) |
|---|
| High Pressure Periodic |

| | |
|---|---|
| **Emission Unit** | RH1-REC-GUTLINE |
| **Identifier** | SSM Pigging - Vented to Atmosphere |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 737.68 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 737.21 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 156 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 22.84 |
| **VOC wt %** | 23.92 |
| **benzene wt%** | 0.080 |
| **$H_2S$ wt%** | 0.000 |
| **HAPs wt %** | 0.592 |
| **CO2 wt%** | 6.277 |
| **CH4 wt%** | 52.636 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 22.84 |
| VOC wt % | 23.92 |
| Benzene wt % | 0.080 |
| H2S wt % | 0.000 |
| HAPs wt% | 0.5921 |
| CO2 wt% | 6.2773 |
| CH4 wt% | 52.6360 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | **42.46** | **0.83** |
| **Benzene Results:** | **0.14** | **<0.01** |
| **$H_2S$ Results:** | **<0.01** | **<0.01** |
| **HAPs Results:** | 1.05 | 0.0205 |
| **CO2 Results:** | 11.14 | 0.2173 |
| **CH4 Results:** | 93.44 | 1.8222 |

| |
|---|
| **VOC Type:** (pick from list) |
| Natural Gas VOC |

| |
|---|
| **Emission Type:** (pick from list) |
| High Pressure Periodic |

**Calculations / Equations used**

Calculation is based on Ideal gas law: P(V) = n(R)(T)

VOC result = (($$$Pressure of Gas Inside the Unit Before Venting) * (Actual Volume of the Vented Unit)) / (Frequency of events) * (Molecular Weight) * VOC wt%

(Ideal Gas Constant) * (Temperature of Gas Inside the Unit Before Venting)

$$$ Equation may slightly vary depending on whether or not the emissions are controlled. See notes under venting emission calculation for more explanation.

| | |
|---|---|
| **Emission Unit** | RH1-REC-ABU |
| **Identifier** | SSM Pigging - Vented to Atmosphere |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 859.47 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 858.92 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 52 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 22.84 |
| **VOC wt %** | 23.92 |
| **benzene wt%** | 0.080 |
| **$H_2S$ wt%** | 0.000 |
| **HAPs wt %** | 0.592 |
| **CO2 wt%** | 6.277 |
| **CH4 wt%** | 52.636 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 22.84 |
| VOC wt % | 23.92 |
| Benzene wt % | 0.080 |
| H2S wt % | 0.000 |
| HAPs wt% | 0.5921 |
| CO2 wt% | 6.2773 |
| CH4 wt% | 52.6360 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | **49.47** | **0.32** |
| **Benzene Results:** | **0.16** | **<0.01** |
| **$H_2S$ Results:** | **<0.01** | **<0.01** |
| **HAPs Results:** | 1.22 | 0.0080 |
| **CO2 Results:** | 12.98 | 0.0844 |
| **CH4 Results:** | 108.87 | 0.7077 |

| **VOC Type:** (pick from list) |
|---|
| Natural Gas VOC |

| **Emission Type:** (pick from list) |
|---|
| High Pressure Periodic |

**Calculations / Equations used**

Calculation is based on Ideal gas law: P(V) = n(R)(T)

VOC result = (($$$Pressure of Gas Inside the Unit Before Venting) * (Actual Volume of the Vented Unit)) / (Frequency of events) * (Molecular Weight) * VOC wt%

(Ideal Gas Constant) * (Temperature of Gas Inside the Unit Before Venting)

$$$ Equation may slightly vary depending on whether or not the emissions are controlled. See notes under venting emission calculation for more explanation.

| | |
|---|---|
| **Emission Unit** | RH4-REC-24INCH |
| **Identifier** | SSM Pigging - Vented to Atmosphere |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 307.48 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 307.29 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 156 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 22.84 |
| **VOC wt %** | 23.92 |
| **benzene wt%** | 0.080 |
| **$H_2S$ wt%** | 0.000 |
| **HAPs wt %** | 0.592 |
| **CO2 wt%** | 6.277 |
| **CH4 wt%** | 52.636 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 22.84 |
| VOC wt % | 23.92 |
| Benzene wt % | 0.080 |
| H2S wt % | 0.000 |
| HAPs wt% | 0.5921 |
| CO2 wt% | 6.2773 |
| CH4 wt% | 52.6360 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | **17.70** | **0.35** |
| **Benzene Results:** | **0.06** | **<0.01** |
| **$H_2S$ Results:** | **<0.01** | **<0.01** |
| **HAPs Results:** | 0.44 | 0.0085 |
| **CO2 Results:** | 4.65 | 0.0906 |
| **CH4 Results:** | 38.95 | 0.7595 |

| |
|---|
| **VOC Type:** (pick from list) |
| Natural Gas VOC |

| |
|---|
| **Emission Type:** (pick from list) |
| High Pressure Periodic |

**Calculations / Equations used**

Calculation is based on Ideal gas law: P(V) = n(R)(T)

VOC result = (($$$Pressure of Gas Inside the Unit Before Venting) * (Actual Volume of the Vented Unit)) / (Frequency of events) * (Molecular Weight) * VOC wt%

(Ideal Gas Constant) * (Temperature of Gas Inside the Unit Before Venting)

$$$ Equation may slightly vary depending on whether or not the emissions are controlled. See notes under venting emission calculation for more explanation.

| | |
|---|---|
| **Emission Unit** | RH4-REC-24INCH |
| **Identifier** | SSM Pigging - Flaring |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 3,151.67 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 3149.67 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 156 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 22.84 |
| **VOC wt %** | 23.92 |
| **benzene wt%** | 0.080 |
| **$H_2S$ wt%** | 0.000 |
| **HAPs wt %** | 0.592 |
| **CO2 wt%** | 6.277 |
| **CH4 wt%** | 52.636 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 22.84 |
| VOC wt % | 23.92 |
| Benzene wt % | 0.080 |
| H2S wt % | 0.000 |
| HAPs wt% | 0.5921 |
| CO2 wt% | 6.2773 |
| CH4 wt% | 52.6360 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | **181.41** | **3.54** |
| **Benzene Results:** | **0.60** | **0.01** |
| **$H_2S$ Results:** | **<0.01** | **<0.01** |
| **HAPs Results:** | 4.49 | 0.0876 |
| **CO2 Results:** | 47.61 | 0.9284 |
| **CH4 Results:** | 399.24 | 7.7851 |

| |
|---|
| **VOC Type:** (pick from list) |
| Natural Gas VOC |

| |
|---|
| **Emission Type:** (pick from list) |
| High Pressure Periodic |

| | |
|---|---|
| **Emission Unit** | RHA-REC-LIMESTONE-10INCH |
| **Identifier** | SSM Pigging - Vented to Atmosphere |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 16.99 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 16.98 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 12 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 17.91 |
| **VOC wt %** | 0.01 |
| **benzene wt%** | 0.000 |
| **$H_2S$ wt%** | 0.001 |
| **HAPs wt %** | 0.006 |
| **CO2 wt%** | 77.548 |
| **CH4 wt%** | 17.389 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 17.91 |
| VOC wt % | 0.01 |
| Benzene wt % | 0.000 |
| H2S wt % | 0.001 |
| HAPs wt% | 0.0060 |
| CO2 wt% | 77.5480 |
| CH4 wt% | 17.3890 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | **<0.01** | **<0.01** |
| **Benzene Results:** | - | - |
| **$H_2S$ Results:** | **<0.01** | **<0.01** |
| **HAPs Results:** | 0.00 | 0.0000 |
| **CO2 Results:** | 2.49 | 0.0037 |
| **CH4 Results:** | 0.56 | 0.0008 |

| |
|---|
| **VOC Type:** (pick from list) |
| Natural Gas VOC |

| |
|---|
| **Emission Type:** (pick from list) |
| High Pressure Periodic |

**Calculations / Equations used**

Calculation is based on Ideal gas law: P(V) = n(R)(T)

VOC result = $\frac{(\$\$\$\text{Pressure of Gas Inside the Unit Before Venting}) * (\text{Actual Volume of the Vented Unit}) / (\text{Frequency of events}) * (\text{Molecular Weight}) * \text{VOC wt\%}}{(\text{Ideal Gas Constant}) * (\text{Temperature of Gas Inside the Unit Before Venting})}$

$$$ Equation may slightly vary depending on whether or not the emissions are controlled. See notes under venting emission calculation for more explanation.

| | |
|---|---|
| **Emission Unit** | RHA-REC-LIMESTONE-10INCH |
| **Identifier** | SSM Pigging - Flaring |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | Sour Gas | Purge Gas |
|---|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 110.45 | 84.96 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 110.38 | 84.91 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 | 0 |
| **Atmospheric Pressure (psia)** | 14.7 | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 | 0.25 |
| **Frequency of Events (events/year)** | 12 | 12 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 22.70 | 17.91 |
| **VOC wt %** | 18.85 | 0.01 |
| **benzene wt%** | 0.032 | 0.000 |
| **$H_2S$ wt%** | 0.783 | 0.001 |
| **HAPs wt %** | 0.282 | 0.006 |
| **CO2 wt%** | 10.662 | 77.548 |
| **CH4 wt%** | 54.476 | 17.389 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (B) cont. by flare/ VC/TO/VRU | (B) cont. by flare/ VC/TO/VRU |
| **VOC Control Efficiency (%)** | 98 | 98 |
| **$H_2S$ Control Efficiency (%)** | 98 | 98 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159 10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | | |
|---|---|---|
| Molecular Weight | 22.70 | 17.91 |
| VOC wt % | 18.85 | 0.01 |
| Benzene wt % | 0.032 | 0.000 |
| H2S wt % | 0.783 | 0.0007 |
| HAPs wt% | 0.2818 | 0.0060 |
| CO2 wt% | 10.6618 | 77.5480 |
| CH4 wt% | 54.4759 | 17.3890 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | | | | | Total | |
|---|---|---|---|---|---|---|
| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
| **VOC Results:** | 4.98E+00 | 7.47E-03 | 0.00 | 1.44E-06 | 4.98 | 7.47E-03 |
| **Benzene Results:** | 8.36E-03 | 1.25E-05 | 0.00E+00 | 0.00E+00 | 8.36E-03 | 1.25E-05 |
| **$H_2S$ Results:** | 2.07E-01 | 3.10E-04 | 1.17E-04 | 1.76E-07 | 2.07E-01 | 3.11E-04 |
| **HAPs Results:** | 7.44E-02 | 1.12E-04 | 9.62E-04 | 1.44E-06 | 7.54E-02 | 1.13E-04 |
| **CO2 Results:** | 2.82E+00 | 4.23E-03 | 1.24E+01 | 1.86E-02 | 1.52E+01 | 2.29E-02 |
| **CH4 Results:** | 1.44E+01 | 2.16E-02 | 2.79E+00 | 4.18E-03 | 1.72E+01 | 2.58E-02 |

| |
|---|
| **VOC Type:** (pick from list) |
| Natural Gas VOC |

| |
|---|
| **Emission Type:** (pick from list) |
| High Pressure Periodic |

| | |
|---|---|
| **Emission Unit** | RA2-REC-GREYHOUND |
| **Identifier** | SSM Pigging - Vented to Atmosphere |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 44.40 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 44.37 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 104 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 17.91 |
| **VOC wt %** | 0.01 |
| **benzene wt%** | 0.000 |
| **$H_2S$ wt%** | 0.001 |
| **HAPs wt %** | 0.006 |
| **CO2 wt%** | 77.548 |
| **CH4 wt%** | 17.389 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 17.91 |
| VOC wt % | 0.01 |
| Benzene wt % | 0.000 |
| H2S wt % | 0.001 |
| HAPs wt% | 0.0060 |
| CO2 wt% | 77.5480 |
| CH4 wt% | 17.3890 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | **<0.01** | **<0.01** |
| **Benzene Results:** | - | - |
| **$H_2S$ Results:** | **<0.01** | **<0.01** |
| **HAPs Results:** | 0.00 | 0.0000 |
| **CO2 Results:** | 6.50 | 0.0845 |
| **CH4 Results:** | 1.46 | 0.0189 |

| **VOC Type:** (pick from list) |
|---|
| Natural Gas VOC |

| **Emission Type:** (pick from list) |
|---|
| High Pressure Periodic |

**Calculations / Equations used**

Calculation is based on Ideal gas law: P(V) = n(R)(T)

VOC result = (($$$Pressure of Gas Inside the Unit Before Venting) * (Actual Volume of the Vented Unit)) / (Frequency of events) * (Molecular Weight) * VOC wt%

(Ideal Gas Constant) * (Temperature of Gas Inside the Unit Before Venting)

$$$ Equation may slightly vary depending on whether or not the emissions are controlled. See notes under venting emission calculation for more explanation.

| | |
|---|---|
| **Emission Unit** | RA2-REC-GREYHOUND |
| **Identifier** | SSM Pigging - Flaring |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | Sour Gas | Purge Gas |
|---|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 288.61 | 222.01 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 288.43 | 221.87 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 | 0 |
| **Atmospheric Pressure (psia)** | 14.7 | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 | 0.25 |
| **Frequency of Events (events/year)** | 104 | 104 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 22.70 | 17.91 |
| **VOC wt %** | 18.85 | 0.01 |
| **benzene wt%** | 0.032 | 0.000 |
| **$H_2S$ wt%** | 0.783 | 0.001 |
| **HAPs wt %** | 0.282 | 0.006 |
| **CO2 wt%** | 10.662 | 77.548 |
| **CH4 wt%** | 54.476 | 17.389 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (B) cont. by flare/ VC/TO/VRU | (B) cont. by flare/ VC/TO/VRU |
| **VOC Control Efficiency (%)** | 98 | 98 |
| **$H_2S$ Control Efficiency (%)** | 98 | 98 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

| | |
|---|---|
| 10.73159 | 10.73159 |

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | | |
|---|---|---|
| Molecular Weight | 22.70 | 17.91 |
| VOC wt % | 18.85 | 0.01 |
| Benzene wt % | 0.032 | 0.000 |
| H2S wt % | 0.783 | 0.0007 |
| HAPs wt% | 0.2818 | 0.0060 |
| CO2 wt% | 10.6618 | 77.5480 |
| CH4 wt% | 54.4759 | 17.3890 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | | | | | **Total** | |
|---|---|---|---|---|---|---|
| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
| **VOC Results:** | 1.30E+01 | 1.69E-01 | 0.00 | 3.27E-05 | 13.02 | 1.69E-01 |
| **Benzene Results:** | 2.19E-02 | 2.84E-04 | 0.00E+00 | 0.00E+00 | 2.19E-02 | 2.84E-04 |
| **$H_2S$ Results:** | 5.41E-01 | 7.03E-03 | 3.07E-04 | 3.99E-06 | 5.41E-01 | 7.03E-03 |
| **HAPs Results:** | 1.95E-01 | 2.53E-03 | 2.51E-03 | 3.27E-05 | 1.97E-01 | 2.56E-03 |
| **CO2 Results:** | 7.36E+00 | 9.57E-02 | 3.25E+01 | 4.22E-01 | 3.98E+01 | 5.18E-01 |
| **CH4 Results:** | 3.76E+01 | 4.89E-01 | 7.28E+00 | 9.47E-02 | 4.49E+01 | 5.84E-01 |

| **VOC Type:** (pick from list) |
|---|
| Natural Gas VOC |

| **Emission Type:** (pick from list) |
|---|
| High Pressure Periodic |

| | |
|---|---|
| **Emission Unit** | RHA-LAU-LIMESTONE-10INCH |
| **Identifier** | SSM Pigging - Vented to Atmosphere |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 16.99 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 16.98 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 12.00 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 17.91 |
| **VOC wt %** | 0.01 |
| **benzene wt%** | 0.000 |
| **$H_2S$ wt%** | 0.001 |
| **HAPs wt %** | 0.006 |
| **CO2 wt%** | 77.548 |
| **CH4 wt%** | 17.389 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 17.91 |
| VOC wt % | 0.01 |
| Benzene wt % | 0.000 |
| H2S wt % | 0.001 |
| HAPs wt% | 0.0060 |
| CO2 wt% | 77.5480 |
| CH4 wt% | 17.3890 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | **<0.01** | **<0.01** |
| **Benzene Results:** | - | - |
| **$H_2S$ Results:** | **<0.01** | **<0.01** |
| **HAPs Results:** | 0.00 | 0.0000 |
| **CO2 Results:** | 2.49 | 0.0037 |
| **CH4 Results:** | 0.56 | 0.0008 |

| |
|---|
| **VOC Type:** (pick from list) |
| Natural Gas VOC |

| |
|---|
| **Emission Type:** (pick from list) |
| High Pressure Periodic |

**Calculations / Equations used**

Calculation is based on Ideal gas law: P(V) = n(R)(T)

VOC result = (($$$Pressure of Gas Inside the Unit Before Venting) * (Actual Volume of the Vented Unit)) / (Frequency of events) * (Molecular Weight) * VOC wt%

---

(Ideal Gas Constant) * (Temperature of Gas Inside the Unit Before Venting)

$$$ Equation may slightly vary depending on whether or not the emissions are controlled. See notes under venting emission calculation for more explanation.

| | |
|---|---|
| **Emission Unit** | RHA-LAU-LIMESTONE-10INCH |
| **Identifier** | SSM Pigging - Flaring |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | Sour Gas | Purge Gas |
|---|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 110.45 | 84.96 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 110.38 | 84.91 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 | 0 |
| **Atmospheric Pressure (psia)** | 14.7 | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 | 0.25 |
| **Frequency of Events (events/year)** | 12.00 | 12 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 22.70 | 17.91 |
| **VOC wt %** | 18.85 | 0.01 |
| **benzene wt%** | 0.032 | 0.000 |
| **$H_2S$ wt%** | 0.783 | 0.001 |
| **HAPs wt %** | 0.282 | 0.006 |
| **CO2 wt%** | 10.662 | 77.548 |
| **CH4 wt%** | 54.476 | 17.389 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (B) cont. by flare/ VC/TO/VRU | (B) cont. by flare/ VC/TO/VRU |
| **VOC Control Efficiency (%)** | 0 | 98 |
| **$H_2S$ Control Efficiency (%)** | 0 | 98 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159 10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | | |
|---|---|---|
| Molecular Weight | 22.70 | 17.91 |
| VOC wt % | 18.85 | 0.01 |
| Benzene wt % | 0.032 | 0.000 |
| H2S wt % | 0.783 | 0.0007 |
| HAPs wt% | 0.2818 | 0.0060 |
| CO2 wt% | 10.6618 | 77.5480 |
| CH4 wt% | 54.4759 | 17.3890 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | | | | | Total | |
|---|---|---|---|---|---|---|
| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
| **VOC Results:** | 4.98E+00 | 7.47E-03 | 0.00 | 1.44E-06 | 4.98 | 7.47E-03 |
| **Benzene Results:** | 8.36E-03 | 1.25E-05 | 0.00E+00 | 0.00E+00 | 8.36E-03 | 1.25E-05 |
| **$H_2S$ Results:** | 2.07E-01 | 3.10E-04 | 1.17E-04 | 1.76E-07 | 2.07E-01 | 3.11E-04 |
| **HAPs Results:** | 7.44E-02 | 1.12E-04 | 9.62E-04 | 1.44E-06 | 7.54E-02 | 1.13E-04 |
| **CO2 Results:** | 2.82E+00 | 4.23E-03 | 1.24E+01 | 1.86E-02 | 1.52E+01 | 2.29E-02 |
| **CH4 Results:** | 1.44E+01 | 2.16E-02 | 2.79E+00 | 4.18E-03 | 1.72E+01 | 2.58E-02 |

| |
|---|
| **VOC Type:** (pick from list) |
| Natural Gas VOC |

| |
|---|
| **Emission Type:** (pick from list) |
| High Pressure Periodic |

| | |
|---|---|
| **Emission Unit** | RH1-LAU-NGPL |
| **Identifier** | SSM Pigging - Uncontrolled |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 11,136.79 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 11129.72 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 1 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 22.84 |
| **VOC wt %** | 10.00 |
| **benzene wt%** | 0.000 |
| **$H_2S$ wt%** | 0.000 |
| **HAPs wt %** | 1.000 |
| **CO2 wt%** | 0.000 |
| **CH4 wt%** | 0.000 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 22.84 |
| VOC wt % | 10.00 |
| Benzene wt % | 0.000 |
| H2S wt % | 0.000 |
| HAPs wt% | 1.0000 |
| CO2 wt% | 0.0000 |
| CH4 wt% | 0.0000 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | **268.02** | **0.03** |
| **Benzene Results:** | - | - |
| **$H_2S$ Results:** | - | - |
| **HAPs Results:** | 26.80 | 0.0034 |
| **CO2 Results:** | 0.00 | 0.0000 |
| **CH4 Results:** | 0.00 | 0.0000 |

| **VOC Type:** (pick from list) |
|---|
| Natural Gas VOC |

| **Emission Type:** (pick from list) |
|---|
| High Pressure Periodic |

**Calculations / Equations used**

Calculation is based on Ideal gas law: P(V) = n(R)(T)

$$\text{VOC result} = \frac{(\$\$\$\text{Pressure of Gas Inside the Unit Before Venting}) * (\text{Actual Volume of the Vented Unit})) / (\text{Frequency of events}) * (\text{Molecular Weight}) * \text{VOC wt\%}}{(\text{Ideal Gas Constant}) * (\text{Temperature of Gas Inside the Unit Before Venting})}$$

$$\$\$\$$$ Equation may slightly vary depending on whether or not the emissions are controlled. See notes under venting emission calculation for more explanation.

| | |
|---|---|
| **Emission Unit** | RH1-LAU-TW |
| **Identifier** | SSM Pigging - Uncontrolled |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 1,849.58 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 1848.41 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 1 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 22.84 |
| **VOC wt %** | 10.00 |
| **benzene wt%** | 0.000 |
| **$H_2S$ wt%** | 0.000 |
| **HAPs wt %** | 1.000 |
| **CO2 wt%** | 0.000 |
| **CH4 wt%** | 0.000 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 22.84 |
| VOC wt % | 10.00 |
| Benzene wt % | 0.000 |
| H2S wt % | 0.000 |
| HAPs wt% | 1.0000 |
| CO2 wt% | 0.0000 |
| CH4 wt% | 0.0000 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | **44.51** | **<0.01** |
| **Benzene Results:** | - | - |
| **$H_2S$ Results:** | - | - |
| **HAPs Results:** | 4.45 | 0.0006 |
| **CO2 Results:** | 0.00 | 0.0000 |
| **CH4 Results:** | 0.00 | 0.0000 |

| **VOC Type:** (pick from list) |
|---|
| Natural Gas VOC |

| **Emission Type:** (pick from list) |
|---|
| High Pressure Periodic |

**Calculations / Equations used**

Calculation is based on Ideal gas law: P(V) = n(R)(T)

$$\text{VOC result} = \frac{(\$\$\$\text{Pressure of Gas Inside the Unit Before Venting}) * (\text{Actual Volume of the Vented Unit}) / (\text{Frequency of events}) * (\text{Molecular Weight}) * \text{VOC wt\%}}{(\text{Ideal Gas Constant}) * (\text{Temperature of Gas Inside the Unit Before Venting})}$$

$$\$\$\$$$ Equation may slightly vary depending on whether or not the emissions are controlled. See notes under venting emission calculation for more explanation.

| | |
|---|---|
| **Emission Unit** | RH1-LAU-ETC |
| **Identifier** | SSM Pigging - Uncontrolled |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 2,431.36 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 2429.82 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 1 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 43.75 |
| **VOC wt %** | 71.98 |
| **benzene wt%** | 0.000 |
| **$H_2S$ wt%** | 0.000 |
| **HAPs wt %** | 10.000 |
| **CO2 wt%** | 0.088 |
| **CH4 wt%** | 27.845 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 43.75 |
| VOC wt % | 71.98 |
| Benzene wt % | 0.000 |
| H2S wt % | 0.000 |
| HAPs wt% | 10.0000 |
| CO2 wt% | 0.0880 |
| CH4 wt% | 27.8451 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | **806.76** | **0.10** |
| **Benzene Results:** | - | - |
| **$H_2S$ Results:** | - | - |
| **HAPs Results:** | 112.09 | 0.0140 |
| **CO2 Results:** | 0.99 | 0.0001 |
| **CH4 Results:** | 312.11 | 0.0390 |

| |
|---|
| **VOC Type:** (pick from list) |
| Natural Gas VOC |

| |
|---|
| **Emission Type:** (pick from list) |
| High Pressure Periodic |

**Calculations / Equations used**

Calculation is based on Ideal gas law: P(V) = n(R)(T)

VOC result = (($$$Pressure of Gas Inside the Unit Before Venting) * (Actual Volume of the Vented Unit)) / (Frequency of events) * (Molecular Weight) * VOC wt%

(Ideal Gas Constant) * (Temperature of Gas Inside the Unit Before Venting)

$$$ Equation may slightly vary depending on whether or not the emissions are controlled. See notes under venting emission calculation for more explanation.

| | |
|---|---|
| **Emission Unit** | RH1-LAU-ONEOK |
| **Identifier** | SSM Pigging - Uncontrolled |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 2,431.36 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 2429.82 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 1 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 43.75 |
| **VOC wt %** | 71.98 |
| **benzene wt%** | 0.000 |
| **$H_2S$ wt%** | 0.000 |
| **HAPs wt %** | 10.000 |
| **CO2 wt%** | 0.088 |
| **CH4 wt%** | 27.845 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 43.75 |
| VOC wt % | 71.98 |
| Benzene wt % | 0.000 |
| H2S wt % | 0.000 |
| HAPs wt% | 10.0000 |
| CO2 wt% | 0.0880 |
| CH4 wt% | 27.8451 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | **806.76** | **0.10** |
| **Benzene Results:** | - | - |
| **$H_2S$ Results:** | - | - |
| **HAPs Results:** | 112.09 | 0.0140 |
| **CO2 Results:** | 0.99 | 0.0001 |
| **CH4 Results:** | 312.11 | 0.0390 |

| |
|---|
| **VOC Type:** (pick from list) |
| Natural Gas VOC |

| |
|---|
| **Emission Type:** (pick from list) |
| High Pressure Periodic |

**Calculations / Equations used**

Calculation is based on Ideal gas law: P(V) = n(R)(T)

VOC result = (($$$Pressure of Gas Inside the Unit Before Venting) * (Actual Volume of the Vented Unit)) / (Frequency of events) * (Molecular Weight) * VOC wt%

(Ideal Gas Constant) * (Temperature of Gas Inside the Unit Before Venting)

$$$ Equation may slightly vary depending on whether or not the emissions are controlled. See notes under venting emission calculation for more explanation.

| | |
|---|---|
| **Emission Unit** | RH2-LAU-GPX |
| **Identifier** | SSM Pigging - Vented to Atmosphere |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 10,072.79 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 10066.40 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 2 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 43.75 |
| **VOC wt %** | 71.98 |
| **benzene wt%** | 0.000 |
| **$H_2S$ wt%** | 0.000 |
| **HAPs wt %** | 10.000 |
| **CO2 wt%** | 0.088 |
| **CH4 wt%** | 27.845 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 43.75 |
| VOC wt % | 71.98 |
| Benzene wt % | 0.000 |
| H2S wt % | 0.000 |
| HAPs wt% | 10.0000 |
| CO2 wt% | 0.0880 |
| CH4 wt% | 27.8451 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|---|---|---|
| **VOC Results:** | **3342.31** | **0.84** |
| **Benzene Results:** | - | - |
| **$H_2S$ Results:** | - | - |
| **HAPs Results:** | 464.36 | 0.1161 |
| **CO2 Results:** | 4.09 | 0.0010 |
| **CH4 Results:** | 1293.02 | 0.3233 |

| |
|---|
| **VOC Type:** (pick from list) |
| Natural Gas VOC |

| |
|---|
| **Emission Type:** (pick from list) |
| High Pressure Periodic |

**Calculations / Equations used**

Calculation is based on Ideal gas law: P(V) = n(R)(T)

VOC result = (($$$Pressure of Gas Inside the Unit Before Venting) * (Actual Volume of the Vented Unit)) / (Frequency of events) * (Molecular Weight) * VOC wt%

(Ideal Gas Constant) * (Temperature of Gas Inside the Unit Before Venting)

$$$ Equation may slightly vary depending on whether or not the emissions are controlled. See notes under venting emission calculation for more explanation.

| | |
|---|---|
| **Emission Unit** | RH2-LAU-GPX |
| **Identifier** | SSM Pigging - Flaring |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine pigging activities. |

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 10,072.79 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 10066.40 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 2 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 43.75 |
| **VOC wt %** | 71.98 |
| **benzene wt%** | 0.000 |
| **$H_2S$ wt%** | 0.000 |
| **HAPs wt %** | 10.000 |
| **CO2 wt%** | 0.088 |
| **CH4 wt%** | 27.845 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor recovery unit (VRU); or (C) controlled by another type of control device?** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]

10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 43.75 |
| VOC wt % | 71.98 |
| Benzene wt % | 0.000 |
| H2S wt % | 0.000 |
| HAPs wt% | 10.0000 |
| CO2 wt% | 0.0880 |
| CH4 wt% | 27.8451 |

**Vapors Captured by Control Device**

**You need to input these values into the appropriate control device emission calculation tab.**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

**Planned MSS Emissions**

| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
|---|---|---|
| **VOC Results:** | **3342.31** | **0.84** |
| **Benzene Results:** | - | - |
| **$H_2S$ Results:** | - | - |
| **HAPs Results:** | 464.36 | 0.1161 |
| **CO2 Results:** | 4.09 | 0.0010 |
| **CH4 Results:** | 1293.02 | 0.3233 |

| |
|---|
| **VOC Type:** (pick from list) |
| Natural Gas VOC |

| |
|---|
| **Emission Type:** (pick from list) |
| High Pressure Periodic |

# Planned MSS Emissions

**A) Enter information into the yellow boxes.**

**B) VOC and $H_2S$ control efficiencies may be entered (if applicable).**

**C) The vapor VOC, benzene, and $H_2S$ weight percents may be entered. The weight percents from the Analyses tab are displayed below.**

**D) Use the box provided below for entering any notes necessary (such as the source/justification for any calculation inputs).**

**E) Make sure to answer the control device question.**

**F) Make sure to select the correct *VOC Type* and *Emission Type* from the pull down menus below.**

| | |
|---|---|
| **Emission Unit** | MP |
| **Identifier** | NGL Meter Proving |

| | |
|---|---|
| **Describe this MSS event in detail, include specifically what is being done and how it is being done.** | Emissions from routine natural gas line meter proving. |

**Venting Emission Calculation**

**Warning: This calculation should provide a conservatively high (potentially overestimated) result for emissions from venting when only gas is present in a unit. If liquids are present in the unit, this calculation could potentially significantly underestimate**

**If emissions from this source are uncontrolled:**

**The formula is set up to do one calculation, which assumes that the entire volume of gas inside the unit is vented from the unit. The calculation of the mass of vented gas is done based on the volume of the unit**

**If emissions from this source are controlled:**

**The formula is set up to do two calculations. To preface the explanation of the two calculations, it is understood that for a release from a pressurized vessel, initial venting due to depressurization could occur**
**In order to move the vapor present in the vessel at atmospheric conditions to a control device, a flare for example, some sort of extra operation is needed such as using air or nitrogen to move the vapor out, and if**
**If you do have a way to move the vapor present in the vessel at atmospheric conditions to a control device, do not use this calculation tab. Instead, use the calculation tab for "Other" and make sure to provide a**
**The first calculation of the mass of vented gas, which assumes that the entire volume of gas inside the unit is vented from the unit, is done based on the volume of the unit vented, which is assumed to be saturated**
**The second calculation is done the same as the first one except using the atmospheric pressure (instead of the pressure inside the unit before the venting occurs) and represents all of the mass vented from the**
**The final result is the first calculation plus the second calculation, with the control efficiency only applied to the first calculation (which uses the pressure inside the unit before venting and represents the entire**

| | |
|---|---|
| **Actual Volume of the Vented Unit (scf - standard cubic feet)** | 10.04 |
| **Actual Volume of the Vented Unit (acf - actual cubic feet)** | 10.03 |
| **Pressure of Gas Inside the Unit Before Venting (psig)** | 0 |
| **Atmospheric Pressure (psia)** | 14.7 |
| **Pressure of Gas Inside the Unit Before Venting (psia)** | 14.7 |
| **Temperature of Gas Inside the Unit Before Venting (°F)** | 60.00 |
| **Temperature of Gas Inside the Unit Before Venting (°R)** | 519.67 |
| **Duration of Each Event (hours/event)** | 0.25 |
| **Frequency of Events (events/year)** | 12.00 |
| **Venting Gas Molecular Weight (lb/lb-mol)** | 43.75 |
| **VOC wt %** | 71.98 |
| **benzene wt%** | 0.000 |
| **$H_2S$ wt%** | 0.000 |
| **HAPs wt %** | 10.00 |
| **CO2 wt%** | 0.09 |
| **CH4 wt%** | 27.85 |
| **Are planned MSS vapors (A) uncontrolled; (B) controlled by a flare, vapor combustor, thermal oxidizer, or vapor** | (A) uncontrolled |
| **VOC Control Efficiency (%)** | 0 |
| **$H_2S$ Control Efficiency (%)** | 0 |

Ideal Gas Constant, [(ft3*psia)/(R*lb-mol)]
10.73159

Maximum Gas Molecular Weight and Weight Percents Representative Analyses

| | |
|---|---|
| Molecular Weight | 43.75 |
| VOC wt % | 71.98 |
| Benzene wt % | 0.00 |
| H2S wt % | 0.00 |
| HAPs wt% | 10.00 |
| CO2 wt% | 0.088 |
| CH4 wt% | 27.85 |

| Vapors Captured by Control Device | | |
|---|---|---|
| **You need to input these values into the appropriate control device emission calculation tab.** | | |
| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
| **VOC Results:** | 0.00E+00 | 0.00E+00 |
| **Benzene Results:** | 0.00E+00 | 0.00E+00 |
| **$H_2S$ Results:** | 0.00E+00 | 0.00E+00 |
| **HAPs Results:** | 0.00E+00 | 0.00E+00 |
| **CO2 Results:** | 0.00E+00 | 0.00E+00 |
| **CH4 Results:** | 0.00E+00 | 0.00E+00 |

| Planned MSS Emissions | | |
|---|---|---|
| | **Hourly Emissions (lb/hr)** | **Annual Emissions (tpy)** |
| **VOC Results:** | **3.33** | **5.00E-03** |
| **Benzene Results:** | - | - |
| **$H_2S$ Results:** | - | - |
| **HAPs Results:** | 0.46 | 6.94E-04 |
| **CO2 Results:** | 4.07E-03 | 6.11E-06 |
| **CH4 Results:** | 1.29 | 1.93E-03 |

| **VOC Type:** (pick from list) |
|---|
| Natural Gas VOC |

| **Emission Type:** (pick from list) |
|---|
| High Pressure Periodic |

| **Enter any notes here:** | 52 pigging events per year at 3,061 scf per event. Events were multiplied by 1.5 to account for increased plant throughput. 10/4/18 KE. |
|---|---|

**Calculations / Equations used**

Calculation is based on Ideal gas law: P(V) = n(R)(T)

VOC result = ((\$\$\$Pressure of Gas Inside the Unit Before Venting) * (Actual Volume of the Vented Unit)) / (Frequency of events) * (Molecular Weight) * VOC wt%

---

(Ideal Gas Constant) * (Temperature of Gas Inside the Unit Before Venting)

\$\$\$ Equation may slightly vary depending on whether or not the emissions are controlled. See notes under venting emission calculation for more explanation.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## Flaring Associated with Pig Launchers/Receivers

Flare DRE: 98%

| | | | | | | | | | Purge Gas | | | | | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit ID | Equipment Description | Control Flare | Volume Flared (scf/event)[1] | # of Events/Year[1] | Annual Volume (scf/yr) | BTU/scf[2] | MMBTU/hr[3] | MMBTU/yr[3] | Volume Flared (scf/event)[1] | # of Events /Year[1] | Annual Volume (scf/yr) | BTU/scf[2] | MMBTU/hr | MMBTU/yr | MMBTU/hr | MMBTU/yr |
| RHA-REC-WINKLER | Winkler Inlet Receiver | RHA-FL-5100 | 320.14 | 156 | 49942.34 | 1170.00 | 0.37 | 58.43 | 246.26 | 156 | 38417.184 | 958.13 | 0.24 | 36.81 | 0.61 | 95.24 |
| RHA-REC-LIMESTONE-8INCH | Limestone 8-inch Inlet Receiver | RA2-FL-25100 | 153.98 | 104 | 16013.74 | 1170.00 | 0.18 | 18.74 | 118.44 | 104 | 12318.2592 | 958.13 | 0.11 | 11.80 | 0.29 | 30.54 |
| RH4-REC-24INCH | 24-inch Inlet Loop Receiver | RH4-FL-45100 | 3151.67 | 156 | 491661.032 | 1170.000 | 3.69 | 575.24 | - | - | - | - | - | - | 3.69 | 575.24 |
| RHA-REC-LIMESTONE-10INCH | Limestone 10-inch Inlet Receiver | RHA-FL-5100 | 110.45 | 12 | 1325.45 | 1170.000 | 0.13 | 1.55 | 84.96 | 12 | 1019.58 | 958.13 | 0.081 | 0.977 | 0.21 | 2.53 |
| RA2-REC-GREYHOUND | Bluehound Inlet Receiver | RA2-FL-25100 | 288.61 | 104 | 30015.70 | 1170.000 | 0.34 | 35.12 | 222.01 | 104 | 23088.9984 | 958.13 | 0.21 | 22.12 | 0.55 | 57.24 |
| RHA-LAU-LIMESTONE-10INCH | Limestone 10-inch Inlet Launcher | RA2-FL-25100 | 110.45 | 12 | 1325.45 | 1170.000 | 0.13 | 1.55 | 84.96 | 12 | 1019.58 | 958.13 | 0.081 | 0.977 | 0.21 | 2.53 |
| RH2-LAU-GPX | GPX NGL Launcher | RH2-FL-5100 | 10072.79 | 2 | 20145.58 | 2295.26 | 23.12 | 46.24 | - | - | - | - | - | - | 23.12 | 46.24 |
| MP | NGL Meter Proving | RH2-FL-5100 | 10.04 | 12 | 120.47 | 2295.26 | 0.02 | 0.28 | - | - | - | - | - | - | 0.02 | 0.28 |

[1] Data provided by Targa.

[2] Heat value of representative gas stream for each pig launcher and receiver.

[3] MMBTU/hr and MMBTU/yr calculated based on representative heat value of gas stream and volume of gas flared.

| Pig Flaring Calculations per Receiver/Launcher | | | | | | |
|---|---|---|---|---|---|---|
| Unit | $NO_x$[1] | CO[1] | VOC[2] | $SO_2$[1] | $H_2S$[2] | HAPs[2] |
| Flare Emission Factors (lb/MMBTU) | 1.38E-01 | 2.76E-01 | - | - | - | - |
| REC-1 (lb/hr) | 8.43E-02 | 1.68E-01 | 2.89E-01 | 1.11E+00 | 1.20E-02 | 4.37E-03 |
| REC-1 (tpy) | 6.57E-03 | 1.31E-02 | 5.63E-03 | 2.16E-02 | 2.34E-04 | 8.52E-05 |
| REC-2 (lb/hr) | 4.05E-02 | 8.09E-02 | 1.39E-01 | 5.33E-01 | 5.77E-03 | 2.10E-03 |
| REC-2 (tpy) | 2.11E-03 | 4.21E-03 | 1.81E-03 | 6.92E-03 | 7.51E-05 | 2.73E-05 |
| REC-6 (lb/hr) | 5.09E-01 | 1.02E+00 | 3.63E+00 | 2.80E-03 | 3.03E-05 | 0.09 |
| REC-6 (tpy) | 3.97E-02 | 7.92E-02 | 7.08E-02 | 5.46E-05 | 5.92E-07 | 1.75E-03 |
| REC-8 (lb/hr) | 2.91E-02 | 5.80E-02 | 9.96E-02 | 3.82E-01 | 4.14E-03 | 1.51E-03 |
| REC-8 (tpy) | 1.74E-04 | 3.48E-04 | 1.49E-04 | 5.73E-04 | 6.21E-06 | 2.26E-06 |
| REC-9 (lb/hr) | 7.60E-02 | 1.52E-01 | 2.60E-01 | 9.98E-01 | 1.08E-02 | 3.94E-03 |
| REC-9 (tpy) | 3.95E-03 | 7.88E-03 | 3.38E-03 | 1.30E-02 | 1.41E-04 | 5.12E-05 |
| LAU-1 (lb/hr) | 2.91E-02 | 5.80E-02 | 9.96E-02 | 3.82E-01 | 4.14E-03 | 1.51E-03 |
| LAU-1 (tpy) | 1.74E-04 | 3.48E-04 | 1.49E-04 | 5.73E-04 | 6.21E-06 | 2.26E-06 |
| LAU-6 (lb/hr) | 3.19E+00 | 6.37E+00 | 6.68E+01 | - | - | 9.29 |
| LAU-6 (tpy) | 3.19E-03 | 6.37E-03 | 1.67E-02 | - | - | 2.32E-03 |
| MP (lb/hr) | 3.18E-03 | 3.18E-03 | 6.66E-02 | - | - | 9.26E-03 |
| MP (tpy) | 1.91E-05 | 1.91E-05 | 9.99E-05 | - | - | 1.39E-05 |

[1] Flare $NO_X$ and CO emission factors: TNRCC RG-109 (high Btu; other). $SO_2$: Mass balance assuming 98% combustion of $H_2S$ and 100% conversion of combusted $H_2S$ to $SO_2$:

Process $SO_2$ Emissions (lb/hr) = [ $H_2S$ Mass Flow Rate (lb/hr) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$) ]

Process $SO_2$ Emissions (tpy) = [ $H_2S$ Mass Flow Rate (tpy) * DRE * (64 lb/lbmol $SO_2$ / 34 lb/lbmol $H_2S$) ]

[2] VOC, HAP and $H_2S$ emissions estimated based on event stream routed to flare and 98% efficiency.

| Summary of Pig Flaring Emissions[1] | | | | | | |
|---|---|---|---|---|---|---|
| Flare Summary | $NO_x$ | CO | VOC | $SO_2$ | $H_2S$ | HAPs |
| RHA-FL-5100 (lb/hr) | 0.113 | 0.23 | 0.39 | 1.49 | 0.016 | 5.88E-03 |
| RHA-FL-5100 (tpy) | 0.0067 | 0.0135 | 5.78E-03 | 0.022 | 2.40E-04 | 8.75E-05 |
| RA2-FL-25100 (lb/hr) | 0.146 | 0.29 | 0.50 | 1.91 | 0.021 | 7.55E-03 |
| RA2-FL-25100 (tpy) | 0.0062 | 0.0124 | 5.34E-03 | 0.020 | 2.22E-04 | 8.08E-05 |
| RH4-FL-45100 (lb/hr) | 0.51 | 1.02 | 3.63 | 2.80E-03 | 3.03E-05 | 0.09 |
| RH4-FL-45100 (tpy) | 0.040 | 0.079 | 0.071 | 5.46E-05 | 5.92E-07 | 1.75E-03 |
| RH2-FL-5100 (lb/hr) | 3.19E+00 | 6.37E+00 | 66.91 | - | - | 9.30 |
| RH2-FL-5100 (tpy) | 3.21E-03 | 6.39E-03 | 0.017 | - | - | 2.34E-03 |
| Flaring Total (lb/hr): | 3.96 | 7.91 | 71.43 | 3.40 | 0.037 | 9.40 |
| Flaring Total (tpy): | 0.056 | 0.11 | 0.10 | 0.043 | 4.63E-04 | 4.26E-03 |

[1] Total emissions are summed based on the flare they are routed to.

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# Vented SSM Emission Summary

| Train 1 Estimated Vented Emissions | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit ID | Description of Activity | $NO_x$ | | CO | | VOC | | PM | | $PM_{10}$ | | $PM_{2.5}$ | | $SO_2$ | | $H_2S$ | | HAPs | | $CO_2$ | $CH_4$ | $N_2O$ | $CO_{2e}$ |
| | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | tpy | tpy | tpy | tpy |
| RH1-SSM | Vessel Blowdowns[1] | -- | -- | -- | -- | 76.28 | 0.30 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.22 | <0.01 | 0.03 | 0.06 | -- | 1.76 |
| | Vessel Startup[2] | -- | -- | -- | -- | 148.58 | 0.36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.61 | <0.01 | <0.01 | 0.25 | -- | 6.97 |
| | Tank Degassing[3] | -- | -- | -- | -- | 3.36 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.76 | <0.01 | -- | <0.01 | -- | <0.01 |
| | Tank Startup[3] | -- | -- | -- | -- | 8.77 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[4] | -- | -- | -- | -- | 212.86 | 0.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | -- | <0.01 |
| | Filters[5] | -- | -- | -- | -- | 132.76 | 4.95 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 2.26 | 0.06 | -- | -- | -- | -- |
| | Surface Coating[6] | -- | -- | -- | -- | 72.29 | 0.14 | 0.77 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | 13.39 | 0.03 | -- | -- | -- | -- |
| | Abrasive Blasting[6] | -- | -- | -- | -- | -- | -- | 47.02 | 0.14 | 6.72 | 0.02 | 0.67 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[7] | -- | -- | -- | -- | 3,474.74 | 6.95 | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.03 | <0.01 | 7.32 | 0.31 | -- | 15.88 |
| | Full Plant Startup[7] | -- | -- | -- | -- | 6,070.44 | 12.12 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 590.13 | 0.30 | 0.02 | 0.04 | -- | 1.12 |
| **Total Train 1 Vented Emissions[7]:** | | **--** | **--** | **--** | **--** | **6,070.44** | **24.93** | **47.79** | **0.14** | **6.79** | **0.02** | **0.68** | **<0.01** | **--** | **--** | **0.05** | **<0.01** | **590.13** | **0.39** | **7.37** | **0.66** | **--** | **25.73** |

*NOTES:*

[1] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[2] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[3] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[4] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[5] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions represent the sum of all filter changes at the train.

[6] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[7] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

| Train 2 Estimated Vented Emissions | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit ID | Description of Activity | $NO_x$ | | CO | | VOC | | PM | | $PM_{10}$ | | $PM_{2.5}$ | | $SO_2$ | | $H_2S$ | | HAPs | | $CO_2$ | $CH_4$ | $N_2O$ | $CO_{2e}$ |
| | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | tpy | tpy | tpy | tpy |
| RH2-SSM | Vessel Blowdowns[1] | -- | -- | -- | -- | 228.83 | 0.65 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 1.91 | <0.01 | 1.20 | 0.67 | -- | 19.92 |
| | Vessel Startup[2] | -- | -- | -- | -- | 165.63 | 0.19 | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 3.73 | <0.01 | 3.50 | 253.20 | -- | 7,093.09 |
| | Tank Degassing[3] | -- | -- | -- | -- | 5.88 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 4.59 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Tank Startup[3] | -- | -- | -- | -- | 4.39 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | -- | -- | <0.01 |
| | Meter Proving & Line Breaks[4] | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | -- | 0.25 |
| | Filters[5] | -- | -- | -- | -- | 359.31 | 3.05 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.27 | <0.01 | 0.01 | 0.09 | -- | 2.58 |
| | Surface Coating[6] | -- | -- | -- | -- | 72.29 | 0.14 | 0.77 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | 13.39 | 0.03 | -- | -- | -- | -- |
| | Abrasive Blasting[6] | -- | -- | -- | -- | -- | -- | 47.02 | 0.14 | 6.72 | 0.02 | 0.67 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[7] | -- | -- | -- | -- | 782.63 | 1.57 | -- | -- | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | <0.01 | <0.01 | 1.86 | 1.51 | -- | 44.28 |
| | Full Plant Startup[7] | -- | -- | -- | -- | 47.51 | 0.07 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 5.38 | <0.01 | 0.93 | 0.25 | -- | 7.93 |
| **Total Train 2 Vented Emissions[7]:** | | **--** | **--** | **--** | **--** | **836.33** | **5.68** | **47.79** | **0.14** | **6.79** | **0.02** | **0.68** | **<0.01** | **--** | **--** | **0.04** | **<0.01** | **23.92** | **0.04** | **7.55** | **255.73** | **--** | **7,168.06** |

*NOTES:*

[1] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[2] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[3] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[4] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[5] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[5] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[7] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

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# Vented SSM Emission Summary

| Train 3 Estimated Vented Emissions | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit ID | Description of Activity | $NO_x$ | | CO | | VOC | | PM | | $PM_{10}$ | | $PM_{2.5}$ | | $SO_2$ | | $H_2S$ | | HAPs | | $CO_2$ | $CH_4$ | $N_2O$ | $CO_{2e}$ |
| | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | tpy | tpy | tpy | tpy |
| RH3-SSM | Vessel Blowdowns[1] | -- | -- | -- | -- | 228.83 | 0.65 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 1.91 | <0.01 | 1.20 | 0.67 | -- | 19.92 |
| | Vessel Startup[2] | -- | -- | -- | -- | 165.53 | 0.33 | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 3.72 | <0.01 | 3.53 | 253.20 | -- | 7,093.12 |
| | Tank Degassing[3] | -- | -- | -- | -- | 9.40 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 7.86 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Tank Startup[3] | -- | -- | -- | -- | 0.30 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[4] | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | -- | 0.25 |
| | Filters[5] | -- | -- | -- | -- | 359.31 | 1.21 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.27 | <0.01 | 0.01 | 0.09 | -- | 2.58 |
| | Surface Coating[6] | -- | -- | -- | -- | 72.29 | 0.14 | 0.77 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | 13.39 | 0.03 | -- | -- | -- | -- |
| | Abrasive Blasting[6] | -- | -- | -- | -- | -- | -- | 47.02 | 0.14 | 6.72 | 0.02 | 0.67 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[7] | -- | -- | -- | -- | 793.32 | 1.59 | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.03 | <0.01 | 1.91 | 0.54 | -- | 17.00 |
| | Full Plant Startup[7] | -- | -- | -- | -- | 38.55 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 3.87 | <0.01 | 0.54 | 0.23 | -- | 7.00 |
| **Total Train 3 Vented Emissions[7]:** | | **--** | **--** | **--** | **--** | **835.66** | **3.99** | **47.79** | **0.14** | **6.79** | **0.02** | **0.68** | **<0.01** | **--** | **--** | **0.05** | **<0.01** | **27.17** | **0.05** | **7.23** | **254.74** | **--** | **7,139.88** |

*NOTES:*

[1] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[2] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[3] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[4] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[5] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[5] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[7] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

| Train 4 Estimated Vented Emissions | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit ID | Description of Activity | $NO_x$ | | CO | | VOC | | PM | | $PM_{10}$ | | $PM_{2.5}$ | | $SO_2$ | | $H_2S$ | | HAPs | | $CO_2$ | $CH_4$ | $N_2O$ | $CO_{2e}$ |
| | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | tpy | tpy | tpy | tpy |
| RH4-SSM | Vessel Blowdowns[1] | -- | -- | -- | -- | 228.83 | 0.65 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 1.91 | <0.01 | 1.20 | 0.67 | -- | 19.92 |
| | Vessel Startup[2] | -- | -- | -- | -- | 165.63 | 0.33 | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 3.73 | <0.01 | 3.64 | 253.20 | -- | 7,093.23 |
| | Tank Degassing[3] | -- | -- | -- | -- | 8.29 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 4.59 | <0.01 | 0.01 | <0.01 | -- | 0.01 |
| | Tank Startup[3] | -- | -- | -- | -- | 12.51 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Meter Proving & Line Breaks[4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Filters[5] | -- | -- | -- | -- | 359.31 | 3.05 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.27 | <0.01 | 0.01 | 0.09 | -- | 2.58 |
| | Surface Coating[6] | -- | -- | -- | -- | 72.29 | 0.14 | 0.77 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | 13.39 | 0.03 | -- | -- | -- | -- |
| | Abrasive Blasting[6] | -- | -- | -- | -- | -- | -- | 47.02 | 0.14 | 6.72 | 0.02 | 0.67 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[7] | -- | -- | -- | -- | 914.80 | 1.83 | -- | -- | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | <0.01 | <0.01 | 2.30 | 1.74 | -- | 50.95 |
| | Full Plant Startup[7] | -- | -- | -- | -- | 52.78 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 5.40 | <0.01 | 0.96 | 0.26 | -- | 8.28 |
| **Total Train 4 Vented Emissions[7]:** | | **--** | **--** | **--** | **--** | **914.80** | **6.10** | **47.79** | **0.14** | **6.79** | **0.02** | **0.68** | **<0.01** | **--** | **--** | **0.04** | **<0.01** | **23.92** | **0.04** | **8.12** | **255.96** | **--** | **7,174.97** |

*NOTES:*

[1] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[2] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[3] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[4] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[5] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[5] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[7] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

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# Vented SSM Emission Summary

| Train 5 Estimated Vented Emissions | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit ID** | **Description of Activity** | **$NO_x$** | | **CO** | | **VOC** | | **PM** | | **$PM_{10}$** | | **$PM_{2.5}$** | | **$SO_2$** | | **$H_2S$** | | **HAPs** | | **$CO_2$** | **$CH_4$** | **$N_2O$** | **$CO_{2e}$** |
| | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **tpy** | **tpy** | **tpy** | **tpy** |
| RH5-SSM | Vessel Blowdowns[1] | -- | -- | -- | -- | 228.83 | 0.65 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 1.91 | <0.01 | 1.09 | 0.64 | -- | 19.10 |
| | Vessel Startup[2] | -- | -- | -- | -- | 101.20 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 2.16 | <0.01 | 0.12 | 150.92 | -- | 4,225.98 |
| | Tank Degassing[3] | -- | -- | -- | -- | 5.36 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 4.59 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Tank Startup[3] | -- | -- | -- | -- | 2.61 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Meter Proving & Line Breaks[4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Filters[5] | -- | -- | -- | -- | 359.31 | 4.10 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.27 | <0.01 | 0.01 | 0.09 | -- | 2.58 |
| | Surface Coating[6] | -- | -- | -- | -- | 72.29 | 0.14 | 0.77 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | 13.39 | 0.03 | -- | -- | -- | -- |
| | Abrasive Blasting[6] | -- | -- | -- | -- | -- | -- | 47.02 | 0.14 | 6.72 | 0.02 | 0.67 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[7] | -- | -- | -- | -- | 802.28 | 1.60 | -- | -- | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | <0.01 | <0.01 | 1.93 | 1.63 | -- | 47.69 |
| | Full Plant Startup[7] | -- | -- | -- | -- | 49.48 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 5.39 | <0.01 | 0.90 | 0.25 | -- | 7.85 |
| **Total Train 5 Vented Emissions[7]:** | | **--** | **--** | **--** | **--** | **802.28** | **6.78** | **47.79** | **0.14** | **6.79** | **0.02** | **0.68** | **<0.01** | **--** | **--** | **0.04** | **<0.01** | **22.35** | **0.04** | **4.05** | **153.54** | **--** | **4,303.20** |

*NOTES:*

[1] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[2] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[3] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[4] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[5] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[5] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[7] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

| Train 6 Estimated Vented Emissions | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit ID** | **Description of Activity** | **$NO_x$** | | **CO** | | **VOC** | | **PM** | | **$PM_{10}$** | | **$PM_{2.5}$** | | **$SO_2$** | | **$H_2S$** | | **HAPs** | | **$CO_2$** | **$CH_4$** | **$N_2O$** | **$CO_{2e}$** |
| | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **tpy** | **tpy** | **tpy** | **tpy** |
| RH6-SSM | Vessel Blowdowns[1] | -- | -- | -- | -- | 228.83 | 0.68 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 1.91 | <0.01 | 1.09 | 0.66 | -- | 19.64 |
| | Vessel Startup[2] | -- | -- | -- | -- | 128.80 | 0.26 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 2.20 | <0.01 | 0.11 | 150.96 | -- | 4,226.89 |
| | Tank Degassing[3] | -- | -- | -- | -- | 16.90 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.82 | <0.01 | -- | -- | -- | -- |
| | Tank Startup[3] | -- | -- | -- | -- | 0.96 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[4] | -- | -- | -- | -- | 1.46 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.15 | <0.01 | -- | -- | -- | -- |
| | Filters[5] | -- | -- | -- | -- | 469.30 | 2.84 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.27 | <0.01 | 0.01 | 0.09 | -- | 2.58 |
| | Surface Coating[6] | -- | -- | -- | -- | 72.29 | 0.14 | 0.77 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | 13.39 | 0.03 | -- | -- | -- | -- |
| | Abrasive Blasting[6] | -- | -- | -- | -- | -- | -- | 47.02 | 0.14 | 6.72 | 0.02 | 0.67 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[7] | -- | -- | -- | -- | 992.49 | 1.98 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 2.37 | 0.65 | -- | 20.61 |
| | Full Plant Startup[7] | -- | -- | -- | -- | 63.62 | 0.10 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 7.07 | <0.01 | 0.50 | 0.22 | -- | 6.68 |
| **Total Train 6 Vented Emissions[7]:** | | **--** | **--** | **--** | **--** | **992.49** | **6.03** | **47.79** | **0.14** | **6.79** | **0.02** | **0.68** | **<0.01** | **--** | **--** | **<0.01** | **<0.01** | **23.77** | **0.04** | **4.07** | **152.58** | **--** | **4,276.39** |

*NOTES:*

[1] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[2] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[3] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[4] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[5] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[5] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[7] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Vented SSM Emission Summary

| FET-1 Estimated Vented Emissions | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit ID** | **Description of Activity** | **$NO_x$** | | **CO** | | **VOC** | | **PM** | | **$PM_{10}$** | | **$PM_{2.5}$** | | **$SO_2$** | | **$H_2S$** | | **HAPs** | | **$CO_2$** | **$CH_4$** | **$N_2O$** | **$CO_{2e}$** |
| | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **tpy** | **tpy** | **tpy** | **tpy** |
| RHA-SSM | Vessel Blowdowns[1] | -- | -- | -- | -- | 0.12 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | 0.77 | <0.01 | 0.01 | <0.01 | 0.03 | <0.01 | -- | 0.03 |
| | Vessel Startup[2] | -- | -- | -- | -- | 0.42 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | 0.38 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Tank Degassing[3] | -- | -- | -- | -- | 9.22 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.17 | <0.01 | -- | -- | -- | -- |
| | Tank Startup[3] | -- | -- | -- | -- | 0.25 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.08 | <0.01 | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Filters[5] | -- | -- | -- | -- | 93.00 | 1.24 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- |
| | Surface Coating[6] | -- | -- | -- | -- | 72.29 | 0.14 | 0.77 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | 13.39 | 0.03 | -- | -- | -- | -- |
| | Abrasive Blasting[6] | -- | -- | -- | -- | -- | -- | 47.02 | 0.14 | 6.72 | 0.02 | 0.67 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[7] | -- | -- | -- | -- | 36.56 | 0.07 | -- | -- | -- | -- | -- | -- | -- | -- | 1.16 | <0.01 | <0.01 | <0.01 | 0.10 | 0.05 | -- | 1.58 |
| | Full Plant Startup[7] | -- | -- | -- | -- | 10.69 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 10.36 | <0.01 | 0.03 | <0.01 | -- | 0.19 |
| **Total FET-1 Vented Emissions[7]:** | | **--** | **--** | **--** | **--** | **175.31** | **1.48** | **47.79** | **0.14** | **6.79** | **0.02** | **0.68** | **<0.01** | **--** | **--** | **1.16** | **<0.01** | **22.69** | **0.04** | **0.17** | **0.06** | **--** | **1.80** |

*NOTES:*

[1] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[2] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[3] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[4] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[5] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[5] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[7] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

| FET-2 Estimated Vented Emissions | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit ID** | **Description of Activity** | **$NO_x$** | | **CO** | | **VOC** | | **PM** | | **$PM_{10}$** | | **$PM_{2.5}$** | | **$SO_2$** | | **$H_2S$** | | **HAPs** | | **$CO_2$** | **$CH_4$** | **$N_2O$** | **$CO_{2e}$** |
| | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **tpy** | **tpy** | **tpy** | **tpy** |
| RA2-SSM | Vessel Blowdowns[1] | -- | -- | -- | -- | 1.74 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | 3.42 | 0.01 | 0.03 | <0.01 | 0.10 | 0.02 | -- | 0.60 |
| | Vessel Startup[2] | -- | -- | -- | -- | 0.42 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Tank Degassing[3] | -- | -- | -- | -- | 9.43 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.17 | <0.01 | -- | -- | -- | -- |
| | Tank Startup[3] | -- | -- | -- | -- | 67.98 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.08 | <0.01 | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Filters[5] | -- | -- | -- | -- | 137.13 | 1.76 | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Surface Coating[6] | -- | -- | -- | -- | 72.29 | 0.14 | 0.77 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | 13.39 | 0.03 | -- | -- | -- | -- |
| | Abrasive Blasting[6] | -- | -- | -- | -- | -- | -- | 47.02 | 0.14 | 6.72 | 0.02 | 0.67 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[7] | -- | -- | -- | -- | 197.40 | 0.46 | -- | -- | -- | -- | -- | -- | -- | -- | 3.27 | <0.01 | <0.01 | <0.01 | 0.63 | 0.22 | -- | 6.77 |
| | Full Plant Startup[7] | -- | -- | -- | -- | 11.30 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 10.36 | <0.01 | <0.01 | <0.01 | -- | 0.06 |
| **Total FET-2 Vented Emissions[7]:** | | **--** | **--** | **--** | **--** | **288.99** | **2.44** | **47.79** | **0.14** | **6.79** | **0.02** | **0.68** | **<0.01** | **--** | **--** | **3.44** | **0.02** | **22.71** | **0.04** | **0.73** | **0.24** | **--** | **7.43** |

*NOTES:*

[1] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[2] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[3] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[4] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[5] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[5] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[7] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Combusted SSM Emission Summary

| RH1-FL-29-1003 SSM Flaring Emissions | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit ID | Description of Activity | $NO_x$[10] | | CO[10] | | VOC | | PM | | $PM_{10}$ | | $PM_{2.5}$ | | $SO_2$ | | $H_2S$ | | HAPs | | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$ |
| | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | tpy | tpy | tpy | tpy |
| RH1-FL-29-1003 | Vessel Blowdowns[1,2] | 1.21 | <0.01 | 4.82 | 0.02 | 8.10 | 0.02 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.22 | <0.01 | 0.03 | 0.06 | -- | 1.76 |
| | Vessel Startup[3] | 7.74 | 0.02 | 30.82 | 0.06 | 28.71 | 0.07 | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | <0.01 | <0.01 | 0.17 | <0.01 | -- | -- | -- | -- |
| | Tank Degassing[1,4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Startup[4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[1,5] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Residue Gas[6] | 211.12 | 1.27 | 1,810.15 | 10.86 | 4.55 | 0.03 | -- | -- | -- | -- | -- | -- | 1.88 | 0.01 | 0.02 | <0.01 | 0.16 | <0.01 | 2,101.54 | 0.04 | <0.01 | 2,103.69 |
| | Filters[1,7] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[1,9] | 47.38 | 0.09 | 188.68 | 0.38 | 168.19 | 0.34 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 1.02 | <0.01 | 0.09 | <0.01 | -- | 0.09 |
| | Full Plant Startup[9] | 49.63 | 0.07 | 197.64 | 0.29 | 291.07 | 0.44 | -- | -- | -- | -- | -- | -- | 1.20 | <0.01 | 0.01 | <0.01 | 4.17 | <0.01 | 1.59 | 0.14 | -- | 5.56 |
| **Total RH1-FL-29-1003 Emissions** | | **211.12** | **1.46** | **1,810.15** | **11.61** | **291.07** | **0.89** | **--** | **--** | **--** | **--** | **--** | **--** | **1.88** | **0.01** | **0.02** | **<0.01** | **4.17** | **<0.01** | **2,103.24** | **0.24** | **<0.01** | **2,111.10** |

*NOTES:*

[1] All blowdown events routed to a control device conservatively assume that equipment is depressurized to 0psig, with all vapors within the equipment routed to the control device.

[2] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[3] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[4] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[5] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[6] Hourly residue gas flaring is based on the maximum processing capacity of the train.

[7] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[8] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[9] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

[10] For flares, $NO_x$ and CO emissions are based on the maximum TNRCC emission factor for either high or low BTU streams. For thermal oxidizers, $NO_x$ and CO emissions are based on 50 ppm.

| RH2-FL-5100 SSM Flaring Emissions | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit ID | Description of Activity | $NO_x$[10] | | CO[10] | | VOC | | PM | | $PM_{10}$ | | $PM_{2.5}$ | | $SO_2$ | | $H_2S$ | | HAPs | | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$ |
| | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | tpy | tpy | tpy | tpy |
| RH2-FL-5100 | Vessel Blowdowns[1,2] | 3.63 | <0.01 | 14.45 | 0.03 | 24.31 | 0.05 | - | - | - | - | - | - | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | -- | <0.01 |
| | Vessel Startup[3] | 13.27 | 0.02 | 52.87 | 0.09 | 70.34 | 0.13 | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | <0.01 | <0.01 | 0.15 | <0.01 | 8,145.50 | 1,084.68 | -- | 38,516.50 |
| | Tank Degassing[1,4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Startup[4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[1,5] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Residue Gas[6] | 562.98 | 3.38 | 4,827.06 | 28.96 | 12.13 | 0.07 | -- | -- | -- | -- | -- | -- | 5.00 | 0.03 | 0.06 | <0.01 | 0.42 | <0.01 | 5,604.10 | 0.11 | 0.01 | 5,609.85 |
| | Filters[1,7] | 0.18 | <0.01 | 0.70 | <0.01 | 5.38 | 0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | <0.01 | 0.03 | -- | 0.91 |
| | Full Plant Blowdown[1,9] | 56.45 | 0.11 | 224.83 | 0.45 | 184.92 | 0.37 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.38 | <0.01 | 0.01 | <0.01 | -- | 0.01 |
| | Full Plant Startup[9] | 50.80 | 0.07 | 202.30 | 0.29 | 243.60 | 0.35 | -- | -- | -- | -- | -- | -- | 0.12 | <0.01 | <0.01 | <0.01 | 0.90 | <0.01 | 2.64 | 0.15 | -- | 6.71 |
| **Total RH2-FL-5100 Emissions** | | **562.98** | **3.59** | **4,827.06** | **29.82** | **243.60** | **0.99** | **--** | **--** | **--** | **--** | **--** | **--** | **5.00** | **0.03** | **0.06** | **<0.01** | **0.90** | **<0.01** | **13,752.25** | **1,084.96** | **0.01** | **44,133.98** |

*NOTES:*

[1] All blowdown events routed to a control device conservatively assume that equipment is depressurized to 0psig, with all vapors within the equipment routed to the control device.

[2] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[3] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[4] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[5] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[6] Hourly residue gas flaring is based on the maximum processing capacity of the train.

[7] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[8] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[9] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

[10] For flares, $NO_x$ and CO emissions are based on the maximum TNRCC emission factor for either high or low BTU streams. For thermal oxidizers, $NO_x$ and CO emissions are based on 50 ppm.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Combusted SSM Emission Summary

| RH3-FL-5100 SSM Flaring Emissions | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit ID** | **Description of Activity** | **$NO_x$[10]** | | **CO[10]** | | **VOC** | | **PM** | | **$PM_{10}$** | | **$PM_{2.5}$** | | **$SO_2$** | | **$H_2S$** | | **HAPs** | | **$CO_2$** | **$CH_4$** | **$N_2O$** | **$CO_2e$** |
| | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **tpy** | **tpy** | **tpy** | **tpy** |
| RH3-FL-5100 | Vessel Blowdowns[1,2] | 3.63 | <0.01 | 14.45 | 0.03 | 24.31 | 0.05 | - | - | - | - | - | - | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | -- | <0.01 |
| | Vessel Startup[3] | 9.34 | 0.02 | 37.18 | 0.07 | 63.08 | 0.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 488.73 | 188.73 | -- | 5,773.17 |
| | Tank Degassing[1,4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Startup[4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[1,5] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Residue Gas[6] | 562.98 | 3.38 | 4,827.06 | 28.96 | 12.13 | 0.07 | -- | -- | -- | -- | -- | -- | 5.00 | 0.03 | 0.06 | <0.01 | 0.42 | <0.01 | 5,604.10 | 0.11 | 0.01 | 5,609.85 |
| | Filters[1,7] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[1,9] | 23.44 | 0.05 | 93.34 | 0.19 | 124.10 | 0.25 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Full Plant Startup[9] | 32.83 | 0.05 | 130.74 | 0.19 | 210.47 | 0.30 | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | <0.01 | <0.01 | 0.20 | <0.01 | 1.92 | 0.04 | -- | 2.99 |
| **Total RH3-FL-5100 Emissions** | | **562.98** | **3.50** | **4,827.06** | **29.44** | **210.47** | **0.80** | **--** | **--** | **--** | **--** | **--** | **--** | **5.00** | **0.03** | **0.06** | **<0.01** | **0.42** | **<0.01** | **6,094.76** | **188.87** | **0.01** | **11,386.01** |

*NOTES:*

[1] All blowdown events routed to a control device conservatively assume that equipment is depressurized to 0psig, with all vapors within the equipment routed to the control device.

[2] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[3] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[4] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[5] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[6] Hourly residue gas flaring is based on the maximum processing capacity of the train.

[7] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[8] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[9] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

[10] For flares, $NO_x$ and CO emissions are based on the maximum TNRCC emission factor for either high or low BTU streams. For thermal oxidizers, $NO_x$ and CO emissions are based on 50 ppm.

| RH4-FL-45100 SSM Flaring Emissions | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit ID** | **Description of Activity** | **$NO_x$[10]** | | **CO[10]** | | **VOC** | | **PM** | | **$PM_{10}$** | | **$PM_{2.5}$** | | **$SO_2$** | | **$H_2S$** | | **HAPs** | | **$CO_2$** | **$CH_4$** | **$N_2O$** | **$CO_2e$** |
| | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **tpy** | **tpy** | **tpy** | **tpy** |
| RH4-FL-45100 | Vessel Blowdowns[1,2] | 3.80 | <0.01 | 15.14 | 0.03 | 24.63 | 0.05 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | 0.07 | <0.01 | <0.01 | 0.02 | -- | 0.54 |
| | Vessel Startup[3] | 13.80 | 0.03 | 54.97 | 0.11 | 71.89 | 0.15 | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | <0.01 | <0.01 | 0.20 | <0.01 | 1,954.92 | 698.81 | -- | 21,521.60 |
| | Tank Degassing[1,4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Startup[4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[1,5] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Residue Gas[6] | 647.43 | 3.88 | 5,551.12 | 33.31 | 13.95 | 0.08 | -- | -- | -- | -- | -- | -- | 5.75 | 0.03 | 0.07 | <0.01 | 0.48 | <0.01 | 6,444.72 | 0.12 | 0.01 | 6,451.32 |
| | Filters[1,7] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[1,9] | 106.56 | 0.21 | 424.40 | 0.85 | 272.23 | 0.54 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.81 | <0.01 | 0.27 | <0.01 | -- | 0.27 |
| | Full Plant Startup[9] | 77.52 | 0.11 | 308.74 | 0.45 | 287.41 | 0.42 | -- | -- | -- | -- | -- | -- | 0.23 | <0.01 | <0.01 | <0.01 | 1.81 | <0.01 | 4.83 | 0.29 | -- | 12.89 |
| **Total RH4-FL-45100 Emissions** | | **647.43** | **4.25** | **5,551.12** | **34.75** | **287.41** | **1.25** | **--** | **--** | **--** | **--** | **--** | **--** | **5.75** | **0.03** | **0.07** | **<0.01** | **1.81** | **<0.01** | **8,404.73** | **699.24** | **0.01** | **27,986.63** |

*NOTES:*

[1] All blowdown events routed to a control device conservatively assume that equipment is depressurized to 0psig, with all vapors within the equipment routed to the control device.

[2] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[3] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[4] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[5] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[6] Hourly residue gas flaring is based on the maximum processing capacity of the train.

[7] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[8] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[9] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

[10] For flares, $NO_x$ and CO emissions are based on the maximum TNRCC emission factor for either high or low BTU streams. For thermal oxidizers, $NO_x$ and CO emissions are based on 50 ppm.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Combusted SSM Emission Summary

| RH5-FL-55100 SSM Flaring Emissions | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit ID | Description of Activity | $NO_x$[10] | | CO[10] | | VOC | | PM | | $PM_{10}$ | | $PM_{2.5}$ | | $SO_2$ | | $H_2S$ | | HAPs | | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$ |
| | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | tpy | tpy | tpy | tpy |
| RH5-FL-55100 | Vessel Blowdowns[1,2] | 7.26 | 0.01 | 28.90 | 0.06 | 48.63 | 0.10 | - | - | - | - | - | - | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | -- | <0.01 |
| | Vessel Startup[3] | 18.67 | 0.04 | 74.36 | 0.15 | 126.17 | 0.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 977.46 | 377.46 | -- | 11,546.34 |
| | Tank Degassing[1,4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Startup[4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[1,5] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Residue Gas[6] | 647.43 | 7.77 | 5,551.12 | 66.61 | 13.95 | 0.17 | -- | -- | -- | -- | -- | -- | 5.75 | 0.07 | 0.07 | <0.01 | 0.48 | <0.01 | 12,889.44 | 0.24 | 0.02 | 12,902.65 |
| | Filters[1,7] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[1,9] | 51.81 | 0.10 | 206.33 | 0.41 | 249.00 | 0.50 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Full Plant Startup[9] | 69.73 | 0.10 | 277.71 | 0.40 | 419.42 | 0.61 | -- | -- | -- | -- | -- | -- | 0.10 | <0.01 | <0.01 | <0.01 | 0.37 | <0.01 | 5.47 | 0.08 | -- | 7.68 |
| **Total RH5-FL-55100 Emissions** | | **647.43** | **8.03** | **5,551.12** | **67.64** | **419.42** | **1.62** | **--** | **--** | **--** | **--** | **--** | **--** | **5.75** | **0.07** | **0.07** | **<0.01** | **0.48** | **<0.01** | **13,872.38** | **377.78** | **0.02** | **24,456.68** |

*NOTES:*

[1] All blowdown events routed to a control device conservatively assume that equipment is depressurized to 0psig, with all vapors within the equipment routed to the control device.

[2] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[3] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[4] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[5] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[6] Hourly residue gas flaring is based on the maximum processing capacity of the train.

[7] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[8] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[9] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

[10] For flares, $NO_x$ and CO emissions are based on the maximum TNRCC emission factor for either high or low BTU streams. For thermal oxidizers, $NO_x$ and CO emissions are based on 50 ppm.

| RHA-FL-5100 SSM Flaring Emissions | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit ID | Description of Activity | $NO_x$[9] | | CO[9] | | VOC | | PM | | $PM_{10}$ | | $PM_{2.5}$ | | $SO_2$ | | $H_2S$ | | HAPs | | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$ |
| | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | tpy | tpy | tpy | tpy |
| RHA-FL-5100 | Vessel Blowdowns[1,2] | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | 1.42 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | -- | 0.03 |
| | Vessel Startup[3] | 0.20 | <0.01 | 0.81 | <0.01 | 0.30 | <0.01 | -- | -- | -- | -- | -- | -- | 48.77 | 0.21 | 0.53 | <0.01 | <0.01 | <0.01 | 1,629.10 | 460.77 | -- | 14,530.66 |
| | Tank Degassing[1,4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Startup[4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[1,5] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Filters[1,6] | 0.15 | <0.01 | 0.61 | 0.02 | 6.06 | 0.18 | -- | -- | -- | -- | -- | -- | 1.02 | <0.01 | 0.06 | <0.01 | 0.60 | 0.02 | <0.01 | <0.01 | -- | 0.06 |
| | Full Plant Blowdown[1,8] | 3.20 | <0.01 | 12.73 | 0.03 | 4.95 | <0.01 | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | 0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Full Plant Startup[8] | 3.51 | <0.01 | 13.99 | 0.02 | 5.62 | <0.01 | -- | -- | -- | -- | -- | -- | 34.23 | 0.02 | 0.37 | <0.01 | 0.06 | <0.01 | 0.32 | 0.01 | -- | 0.71 |
| **Total RHA-FL-5100 Emissions** | | **3.51** | **0.02** | **13.99** | **0.07** | **6.37** | **0.20** | **--** | **--** | **--** | **--** | **--** | **--** | **51.21** | **0.24** | **0.64** | **<0.01** | **0.61** | **0.02** | **1,629.45** | **460.79** | **--** | **14,531.46** |

*NOTES:*

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[3] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[4] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[5] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[6] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[7] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[8] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

[9] For flares, $NO_x$ and CO emissions are based on the maximum TNRCC emission factor for either high or low BTU streams. For thermal oxidizers, $NO_x$ and CO emissions are based on 50 ppm.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Combusted SSM Emission Summary

| RA2-FL-25100 SSM Flaring Emissions | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit ID** | **Description of Activity** | **$NO_x$[9]** | | **CO[9]** | | **VOC** | | **PM** | | **$PM_{10}$** | | **$PM_{2.5}$** | | **$SO_2$** | | **$H_2S$** | | **HAPs** | | **$CO_2$** | **$CH_4$** | **$N_2O$** | **$CO_2e$** |
| | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **tpy** | **tpy** | **tpy** | **tpy** |
| RA2-FL-25100 | Vessel Blowdowns[1,2] | 0.05 | <0.01 | 0.18 | <0.01 | 0.07 | <0.01 | - | - | - | - | - | - | 4.64 | 0.02 | 0.13 | <0.01 | 0.03 | <0.01 | 0.10 | 0.02 | -- | 0.59 |
| | Vessel Startup[3] | 0.23 | <0.01 | 0.92 | <0.01 | 0.37 | 0.01 | -- | -- | -- | -- | -- | -- | 59.57 | 0.23 | 0.65 | <0.01 | 0.04 | <0.01 | 305.40 | 190.40 | -- | 5,636.60 |
| | Tank Degassing[1,4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Startup[4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[1,5] | 3.58 | <0.01 | 14.24 | <0.01 | 32.79 | 0.02 | -- | -- | -- | -- | -- | -- | 16.18 | <0.01 | 0.18 | <0.01 | 3.31 | <0.01 | 0.02 | <0.01 | -- | 0.05 |
| | Filters[1,6] | 0.07 | <0.01 | 0.28 | <0.01 | 2.62 | 0.07 | -- | -- | -- | -- | -- | -- | 2.56 | <0.01 | 0.15 | <0.01 | 0.24 | <0.01 | <0.01 | <0.01 | -- | 0.12 |
| | Full Plant Blowdown[1,8] | 46.48 | 0.11 | 185.13 | 0.43 | 70.16 | 0.16 | -- | -- | -- | -- | -- | -- | 0.41 | <0.01 | 0.22 | <0.01 | 0.22 | <0.01 | 0.06 | <0.01 | -- | 0.06 |
| | Full Plant Startup[8] | 47.49 | 0.07 | 189.13 | 0.27 | 72.94 | 0.11 | -- | -- | -- | -- | -- | -- | 121.32 | 0.06 | 1.32 | <0.01 | 1.01 | <0.01 | 2.46 | 0.25 | -- | 9.55 |
| **Total RA2-FL-25100 Emissions** | | **47.49** | **0.18** | **189.13** | **0.73** | **72.94** | **0.37** | **--** | **--** | **--** | **--** | **--** | **--** | **121.32** | **0.32** | **1.32** | **<0.01** | **3.61** | **0.01** | **308.04** | **190.68** | **--** | **5,646.96** |

*NOTES:*

[1] All blowdown events routed to a control device conservatively assume that equipment is depressurized to 0psig, with all vapors within the equipment routed to the control device.

[2] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[3] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[4] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[5] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[6] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[7] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[8] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

[9] For flares, $NO_x$ and CO emissions are based on the maximum TNRCC emission factor for either high or low BTU streams. For thermal oxidizers, $NO_x$ and CO emissions are based on 50 ppm.

| RA2-FL-25850 SSM Flaring Emissions | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit ID** | **Description of Activity** | **$NO_x$[9]** | | **CO[9]** | | **VOC** | | **PM** | | **$PM_{10}$** | | **$PM_{2.5}$** | | **$SO_2$** | | **$H_2S$** | | **HAPs** | | **$CO_2$** | **$CH_4$** | **$N_2O$** | **$CO_2e$** |
| | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **tpy** | **tpy** | **tpy** | **tpy** |
| RA2-FL-25850 | Vessel Blowdowns[1,2] | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | -- | -- | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- |
| | Vessel Startup[3] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Degassing[1,4] | 0.04 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Tank Startup[4] | 0.19 | <0.01 | 0.76 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | 0.24 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Meter Proving & Line Breaks[1,5] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Filters[1,6] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[1,8] | 0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Full Plant Startup[8] | 0.07 | <0.01 | 0.27 | <0.01 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | 0.11 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| **Total RA2-FL-25850 Emissions** | | **0.23** | **<0.01** | **0.92** | **<0.01** | **0.04** | **<0.01** | **--** | **--** | **--** | **--** | **--** | **--** | **0.30** | **<0.01** | **<0.01** | **<0.01** | **0.03** | **<0.01** | **<0.01** | **<0.01** | **--** | **<0.01** |

*NOTES:*

[1] All blowdown events routed to a control device conservatively assume that equipment is depressurized to 0psig, with all vapors within the equipment routed to the control device.

[2] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[3] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[4] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[5] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[6] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[7] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[8] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

[9] For flares, $NO_x$ and CO emissions are based on the maximum TNRCC emission factor for either high or low BTU streams. For thermal oxidizers, $NO_x$ and CO emissions are based on 50 ppm.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Combusted SSM Emission Summary

| RH1-FL-2850 SSM Flaring Emissions | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit ID | Description of Activity | $NO_x$[9] | | CO[9] | | VOC | | PM | | $PM_{10}$ | | $PM_{2.5}$ | | $SO_2$ | | $H_2S$ | | HAPs | | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$ |
| | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | tpy | tpy | tpy | tpy |
| RH1-FL-2850 | Vessel Blowdowns[1,2] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Vessel Startup[3] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Degassing[1,4] | 7.68 | <0.01 | 30.58 | 0.02 | 77.24 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.91 | <0.01 | -- | -- | -- | -- |
| | Tank Startup[4] | 0.04 | <0.01 | 0.15 | <0.01 | 0.38 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[1,5] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Filters[1,6] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[1,8] | 1.92 | <0.01 | 7.64 | 0.02 | 19.31 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.89 | <0.01 | -- | -- | -- | -- |
| | Full Plant Startup[8] | 4.35 | <0.01 | 17.31 | 0.03 | 43.74 | 0.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.48 | <0.01 | -- | -- | -- | -- |
| **Total RH1-FL-2850 Emissions** | | **7.72** | **0.02** | **30.73** | **0.07** | **77.62** | **0.16** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **7.95** | **<0.01** | **--** | **--** | **--** | **--** |

*NOTES:*

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[2] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[3] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[4] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[5] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[6] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[7] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[8] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

[9] For flares, $NO_x$ and CO emissions are based on the maximum TNRCC emission factor for either high or low BTU streams. For thermal oxidizers, $NO_x$ and CO emissions are based on 50 ppm.

| RHA-FL-5850 SSM Flaring Emissions | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit ID | Description of Activity | $NO_x$[9] | | CO[9] | | VOC | | PM | | $PM_{10}$ | | $PM_{2.5}$ | | $SO_2$ | | $H_2S$ | | HAPs | | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$ |
| | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | tpy | tpy | tpy | tpy |
| RHA-FL-5850 | Vessel Blowdowns[1,2] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Vessel Startup[3] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Degassing[1,4] | 0.04 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Tank Startup[4] | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Meter Proving & Line Breaks[1,5] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Filters[1,6] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[1,8] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Startup[8] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Total RHA-FL-5850 Emissions** | | **0.04** | **<0.01** | **0.17** | **<0.01** | **<0.01** | **<0.01** | **--** | **--** | **--** | **--** | **--** | **--** | **0.05** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **--** | **<0.01** |

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[1] All blowdown events routed to a control device conservatively assume that equipment is depressurized to 0psig, with all vapors within the equipment routed to the control device.

[2] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[3] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[4] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[5] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[6] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[7] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[8] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

[9] For flares, $NO_x$ and CO emissions are based on the maximum TNRCC emission factor for either high or low BTU streams. For thermal oxidizers, $NO_x$ and CO emissions are based on 50 ppm.

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Combusted SSM Emission Summary

| RH2-TO-5500 SSM Flaring Emissions | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit ID** | **Description of Activity** | **$NO_x$[9]** | | **CO[9]** | | **VOC** | | **PM** | | **$PM_{10}$** | | **$PM_{2.5}$** | | **$SO_2$** | | **$H_2S$** | | **HAPs** | | **$CO_2$** | **$CH_4$** | **$N_2O$** | **$CO_2e$** |
| | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **tpy** | **tpy** | **tpy** | **tpy** |
| RH2-TO-5500 | Vessel Blowdowns[1,2] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Vessel Startup[3] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Degassing[1,4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Startup[4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[1,5] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Filters[1,6] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[1,8] | 0.03 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Full Plant Startup[8] | 1.71 | 0.45 | 6.27 | 0.28 | 16.75 | 0.02 | 0.09 | <0.01 | 0.09 | <0.01 | 0.09 | <0.01 | 1.54 | <0.01 | <0.01 | <0.01 | 0.10 | <0.01 | 17.35 | <0.01 | -- | 17.36 |
| **Total RH2-TO-5500 Emissions** | | **1.71** | **0.45** | **6.27** | **0.28** | **16.75** | **0.02** | **0.09** | **<0.01** | **0.09** | **<0.01** | **0.09** | **<0.01** | **1.54** | **<0.01** | **<0.01** | **<0.01** | **0.10** | **<0.01** | **17.35** | **<0.01** | **--** | **17.36** |

*NOTES:*

[1] All blowdown events routed to a control device conservatively assume that equipment is depressurized to 0psig, with all vapors within the equipment routed to the control device.

[2] Vessel blowdowns assume only event occurs at one time at the specified train. Hourly emissions represent the highest emission vessel blowdown that can occur at the train. Annual emissions represent the sum of all vessel blowdowns at the train.

[3] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[4] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[5] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[6] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[7] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[8] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

[9] For flares, $NO_x$ and CO emissions are based on the maximum TNRCC emission factor for either high or low BTU streams. For thermal oxidizers, $NO_x$ and CO emissions are based on 50 ppm.

| RH4-TO-45500 SSM Flaring Emissions | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit ID** | **Description of Activity** | **$NO_x$[9]** | | **CO[9]** | | **VOC** | | **PM** | | **$PM_{10}$** | | **$PM_{2.5}$** | | **$SO_2$** | | **$H_2S$** | | **HAPs** | | **$CO_2$** | **$CH_4$** | **$N_2O$** | **$CO_2e$** |
| | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **tpy** | **tpy** | **tpy** | **tpy** |
| RH4-TO-45500 | Vessel Blowdowns[1,2] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Vessel Startup[3] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Degassing[1,4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Startup[4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[1,5] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Filters[1,6] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[1,8] | 0.03 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Full Plant Startup[8] | 0.16 | 0.45 | 0.09 | 0.27 | 0.13 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.55 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 17.46 | <0.01 | -- | 17.46 |
| **Total RH4-TO-45500 Emissions** | | **0.16** | **0.45** | **0.09** | **0.27** | **0.13** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **1.55** | **<0.01** | **<0.01** | **<0.01** | **0.08** | **<0.01** | **17.46** | **<0.01** | **--** | **17.46** |

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[3] Vessel startups assume all vessels are repressurized simultaneously, thereby assuming all events occur at the same time. Annual emissions represent the sum of all vessel startups at the train.

[4] Tank degassing and tank startups assume all tanks are blown down or repressurized simultaneously at the train.

[5] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[6] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[7] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[8] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

[9] For flares, $NO_x$ and CO emissions are based on the maximum TNRCC emission factor for either high or low BTU streams. For thermal oxidizers, $NO_x$ and CO emissions are based on 50 ppm.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# Combusted SSM Emission Summary

| RH5-TO-55500 SSM Flaring Emissions | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit ID** | **Description of Activity** | **$NO_x$[9]** | | **CO[9]** | | **VOC** | | **PM** | | **$PM_{10}$** | | **$PM_{2.5}$** | | **$SO_2$** | | **$H_2S$** | | **HAPs** | | **$CO_2$** | **$CH_4$** | **$N_2O$** | **$CO_2e$** |
| | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **tpy** | **tpy** | **tpy** | **tpy** |
| RH5-TO-55500 | Vessel Blowdowns[1,2] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Vessel Startup[3] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Degassing[1,4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Tank Startup[4] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Meter Proving & Line Breaks[1,5] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Filters[1,6] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Full Plant Blowdown[1,8] | 0.03 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | <0.01 |
| | Full Plant Startup[8] | 0.16 | 0.46 | 0.10 | 0.28 | 0.13 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.59 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 17.88 | <0.01 | -- | 17.88 |
| **Total RH5-TO-55500 Emissions** | | **0.16** | **0.46** | **0.10** | **0.28** | **0.13** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **1.59** | **<0.01** | **<0.01** | **<0.01** | **0.08** | **<0.01** | **17.88** | **<0.01** | **--** | **17.88** |

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[1] All blowdown events routed to a control device conservatively assume that equipment is depressurized to 0psig, with all vapors within the equipment routed to the control device.

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[5] Meter proving and line breaks assume all events occur simultaneously. Annual emissions represent the sum of all meter proving and line break events at the train.

[6] Filter blowdowns assume only one filter is changed at a time per train. Annual Emissions rerpesent the sum of all filter changes at the train.

[7] Surface coating and abrasive blasting are represented at each train; however, both events can only occur at one train at a time.

[8] The maximum of either Full Plant Blowdown, Full Plant Startup, or all other events was taken. The events cannot occur at the same time. The total hourly emissions for vented emissions from the train represent the maximum of these events.

[9] For flares, $NO_x$ and CO emissions are based on the maximum TNRCC emission factor for either high or low BTU streams. For thermal oxidizers, $NO_x$ and CO emissions are based on 50 ppm.

# Filter SSM Emissions

**Targa Northern Delaware, LLC**

**Calculation Basis:**
This calculation utilizes an ideal gas law equation to determine the mass of gas released. Weight percents then determine the uncontrolled emission rate and control factors are applied. Degassing is assumed to occur in one hour.
Alternatively, this calculation uses an operator-specified blowdown volume to determine VOC emissions from filter changeouts.

**Train 1**

| Equipment ID | Description | Service | Diameter | Length | Volume | Pressure | Temperature | R | Blowdown Volume | Mixture MW | Frequency | Mixture VOC wt% | Vapor Heating Value | Uncontrolled VOC Emissions | | Controlled? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (ft) | (ft) | ($ft^3$) | (psia) | (°F) | (psia * $ft^3$/ lb-mol * °R) | (scf) | (lb/ lb-mol) | (Activities /year) | | Btu/scf | (lb/hr) | (tpy) | | |
| F-009A, F-009B | Condensate Filter | Condensate | 2.00 | 7.00 | 48.38 | 163 | 125 | 10.73 | 117.515 | 93.55 | 52.00 | 95.47 | 3,394.62 | 112.19 | 2.92 | Y | Flare |
| 26-217 | Amine Contactor Inlet Coalescing Filter | Inlet Gas | 2.33 | 5.25 | 24.69 | 248 | 150 | 10.73 | 21.273 | 22.73 | 4.00 | 23.25 | 1,097.43 | 4.95 | 9.89E-03 | Y | Flare |
| 26-401 | Inlet Filter/Separator | Inlet Gas | 1.83 | 6.50 | 18.87 | 248 | 150 | 10.73 | 16.260 | 22.73 | 4.00 | 23.25 | 1,097.43 | 3.78 | 7.56E-03 | Y | Flare |
| 26-403 | Inlet Dust Filter | Inlet Gas | 1.50 | 4.58 | 8.91 | 918 | 140 | 10.73 | 28.892 | 22.73 | 4.00 | 23.25 | 1,097.43 | 6.72 | 0.01 | Y | Flare |
| 26-520 | NGL/Water Coalescer | Y-Grade | 1.17 | 4.17 | 4.90 | 213 | 125 | 10.73 | 6.811 | 40.97 | 4.00 | 71.97 | 1,020.00 | 4.90 | 9.80E-03 | Y | Flare |
| 26-115 | LPG/Water Coalescer | Y-Grade | 1.67 | 8.00 | 19.20 | 1313 | 125 | 10.73 | 164.579 | 40.97 | 4.00 | 71.97 | 1,020.00 | 118.45 | 0.24 | Y | Flare |
| 26-305 | Glycol Charcoal Filter | Glycol | 2.00 | 6.75 | 23.33 | 148 | 150 | 10.73 | 79.194 | 150.17 | 4.00 | 100.00 | - | 79.19 | 0.16 | N | - |
| 26-306 | Glycol Filter | Glycol | 0.55 | 3.36 | 0.88 | 148 | 150 | 10.73 | 3.003 | 150.17 | 52.00 | 100.00 | - | 3.00 | 0.08 | N | - |
| F51-208, F51-209 | Lean Amine Filter | Amine | 2.17 | 2.33 | 18.93 | 103 | 275 | 10.73 | 25.976 | 105.14 | 52.00 | 5.00 | - | 1.30 | 0.03 | N | - |
| 26-208 | Amine Filter | Amine | 2.00 | 6.83 | 23.61 | 148 | 200 | 10.73 | 51.877 | 105.14 | 52.00 | 5.00 | - | 2.59 | 0.07 | N | - |
| 32-209 | Amine Carbon Filter | Amine | 4.00 | 12.00 | 165.88 | 148 | 200 | 10.73 | 364.403 | 105.14 | 4.00 | 5.00 | - | 18.22 | 0.04 | N | - |
| 26-210 | Amine Guard Filter | Amine | 1.06 | 5.25 | 5.12 | 148 | 200 | 10.73 | 11.249 | 105.14 | 52.00 | 5.00 | - | 0.56 | 0.01 | N | - |
| 26-703A, 26-703B | Hot Oil Filter | Hot Oil | 2.75 | 5.08 | 66.42 | 103 | 500 | 10.73 | 132.755 | 200.00 | 52.00 | 100.00 | - | 132.76 | 3.45 | N | - |
| F-1101, F-1102 | Condensate Filter | Condensate | 0.90 | 5.50 | 7.63 | 213 | 125 | 10.73 | 24.210 | 93.55 | 52.00 | 95.47 | - | 23.11 | 0.60 | N | - |
| F-1504 | Hot Oil Filter | Hot Oil | 1.33 | 6.33 | 9.73 | 103 | 500 | 10.73 | 19.441 | 200.00 | 52.00 | 100.00 | - | 19.44 | 0.51 | N | - |

**Train 2**

| Equipment ID | Description | Service | Diameter | Length | Volume | Pressure | Temperature | R | Blowdown Volume | Mixture MW | Frequency | Mixture VOC wt% | Vapor Heating Value | Uncontrolled VOC Emissions | | Controlled? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (ft) | (ft) | ($ft^3$) | (psia) | (°F) | (psia * $ft^3$/ lb-mol * °R) | (scf) | (lb/ lb-mol) | (Activities /year) | | Btu/scf | (lb/hr) | (tpy) | | |
| F-0201, F-0202 | Amine Carbon Filter | Amine | 8.00 | 10.00 | 1105.84 | 148 | 200.00 | 10.73 | 2429.356 | 105.14 | 4.00 | 5.00 | - | 121.47 | 0.24 | N | - |
| F-1225 | Amine Inlet Gas Filter Coalescer | Inlet Gas | 4.00 | 16.90 | 233.55 | 313 | 150.00 | 10.73 | 253.951 | 22.73 | 4.00 | 23.25 | 1,097.43 | 59.05 | 0.12 | Y | Flare |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | Inlet Gas | 4.00 | 16.90 | 233.55 | 313 | 150.00 | 10.73 | 253.951 | 22.73 | 4.00 | 23.25 | 1,097.43 | 59.05 | 0.12 | Y | Flare |
| F-441 | Inlet Filter Coalescer | Inlet Gas | 4.00 | 9.75 | 134.77 | 313 | 150.00 | 10.73 | 146.547 | 22.73 | 4.00 | 23.25 | - | 34.08 | 0.07 | N | - |
| F-2202 | TEG Carbon Filter | Glycol | 3.50 | 10.00 | 105.83 | 148 | 150.00 | 10.73 | 359.306 | 150.17 | 4.00 | 100.00 | - | 359.31 | 0.72 | N | - |
| F-0203, F-0204 | Amine Rich Solids Filter | Amine | 2.67 | 5.16 | 63.36 | 148 | 200.00 | 10.73 | 139.182 | 105.14 | 52.00 | 5.00 | - | 6.96 | 0.18 | N | - |
| F-445, F-446 | Mol Sieve Dust Filter | Inlet Gas | 2.33 | 6.67 | 62.72 | 1058 | 150.00 | 10.73 | 230.554 | 22.73 | 4.00 | 23.25 | - | 53.61 | 0.11 | N | - |
| F-0200 | Pre-Carbon Solids Filter | Amine | 2.67 | 5.16 | 31.68 | 148 | 200.00 | 10.73 | 69.591 | 105.14 | 52.00 | 5.00 | - | 3.48 | 0.09 | N | - |
| F-0305 | Amine Lean Solids Filter | Amine | 2.67 | 5.16 | 31.68 | 103 | 200.00 | 10.73 | 48.419 | 105.14 | 52.00 | 5.00 | - | 2.42 | 0.06 | N | - |
| F-0805 | Hot Oil Filter | Hot Oil | 2.33 | 5.16 | 24.25 | 103 | 500.00 | 10.73 | 48.473 | 200.00 | 52.00 | 100.00 | - | 48.47 | 1.26 | N | - |
| F-2201 | TEG Pre-Carbon Filter | Glycol | 0.67 | 4.17 | 1.60 | 148 | 150.00 | 10.73 | 5.432 | 150.17 | 52.00 | 100.00 | - | 5.43 | 0.14 | N | - |
| F-2203 | TEG Rich Soilds Filter | Glycol | 0.67 | 4.17 | 1.60 | 148 | 150.00 | 10.73 | 5.432 | 150.17 | 52.00 | 100.00 | - | 5.43 | 0.14 | N | - |
| F-2401 | TEG Lean Soilds Filter | Glycol | 0.67 | 4.17 | 1.60 | 43 | 240.00 | 10.73 | 1.373 | 150.17 | 52.00 | 100.00 | - | 1.37 | 0.04 | N | - |
| F-1530 | Seal Gas Filter | Residue Gas | 0.29 | 2.17 | 0.16 | 1410 | 165.00 | 10.73 | 0.599 | 17.87 | 4.00 | 0.01 | - | 3.59E-05 | 7.18E-08 | N | - |

**Train 3**

| Equipment ID | Description | Service | Diameter | Length | Volume | Pressure | Temperature | R | Blowdown Volume | Mixture MW | Frequency | Mixture VOC wt% | Vapor Heating Value | Uncontrolled VOC Emissions | | Controlled? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (ft) | (ft) | ($ft^3$) | (psia) | (°F) | (psia * $ft^3$/ lb-mol * °R) | (scf) | (lb/ lb-mol) | (Activities /year) | | Btu/scf | (lb/hr) | (tpy) | | |
| F-1530 | Seal Gas Filter | Residue Gas | 0.29 | 2.17 | 0.16 | 1410 | 165.00 | 10.73 | 0.599 | 17.87 | 4.00 | 0.01 | - | 3.59E-05 | 7.18E-08 | N | - |
| F-441 | Inlet Filter Coalescer | Inlet Gas | 4.00 | 9.75 | 134.77 | 313 | 150.00 | 10.73 | 146.547 | 22.73 | 4.00 | 23.25 | - | 34.08 | 0.07 | N | - |
| F-6201 | TEG Pre-Carbon Filter | Glycol | 0.67 | 4.17 | 1.60 | 148 | 150.00 | 10.73 | 5.432 | 150.17 | 52.00 | 100.00 | - | 5.43 | 0.14 | N | - |
| F-6202 | TEG Carbon Filter | Glycol | 3.50 | 10.00 | 105.83 | 148 | 150.00 | 10.73 | 359.306 | 150.17 | 4.00 | 100.00 | - | 359.31 | 0.72 | N | - |
| F-6203 | TEG Rich Soilds Filter | Glycol | 0.67 | 4.17 | 1.60 | 148 | 150.00 | 10.73 | 5.432 | 150.17 | 52.00 | 100.00 | - | 5.43 | 0.14 | N | - |
| F-6401 | TEG Lean Soilds Filter | Glycol | 0.67 | 4.17 | 1.60 | 43 | 240.00 | 10.73 | 1.373 | 150.17 | 52.00 | 100.00 | - | 1.37 | 0.04 | N | - |
| F-1235 | Amine Inlet Gas Filter Coalescer | Inlet Gas | 3.50 | 10.00 | 121.19 | 313 | 150.00 | 10.73 | 131.777 | 22.73 | 4.00 | 23.25 | 1,097.43 | 30.64 | 0.06 | Y | Flare |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | Inlet Gas | 3.50 | 10.00 | 121.19 | 313 | 150.00 | 10.73 | 131.777 | 22.73 | 4.00 | 23.25 | 1,097.43 | 30.64 | 0.06 | Y | Flare |
| F-445, F-446 | Mol Sieve Dust Filter | Inlet Gas | 2.33 | 6.67 | 62.72 | 1058 | 150.00 | 10.73 | 230.554 | 22.73 | 4.00 | 23.25 | - | 53.61 | 0.11 | N | - |

# Filter SSM Emissions

**Targa Northern Delaware, LLC**

**Train 1**

| | | | | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment ID | Description | Control Device | DRE (%) | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| F-009A, F-009B | Condensate Filter | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.06 | <0.01 | 0.22 | <0.01 | 2.24 | 0.06 | -- | -- | -- | -- | 0.23 | <0.01 | -- | -- | -- | -- |
| 26-217 | Amine Contactor Inlet Coalescing Filter | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | 0.01 | <0.01 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.22 | <0.01 |
| 26-401 | Inlet Filter/Separator | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 0.17 | <0.01 |
| 26-403 | Inlet Dust Filter | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.30 | <0.01 |
| 26-520 | NGL/Water Coalescer | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.10 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| 26-115 | LPG/Water Coalescer | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.09 | <0.01 | 2.37 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| 26-305 | Glycol Charcoal Filter | N/A | 0 | 79.19 | 0.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-306 | Glycol Filter | N/A | 0 | 3.00 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F51-208, F51-209 | Lean Amine Filter | N/A | 0 | 1.30 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-208 | Amine Filter | N/A | 0 | 2.59 | 0.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-209 | Amine Carbon Filter | N/A | 0 | 18.22 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-210 | Amine Guard Filter | N/A | 0 | 0.56 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-703A, 26-703B | Hot Oil Filter | N/A | 0 | 132.76 | 3.45 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1101, F-1102 | Condensate Filter | N/A | 0 | 23.11 | 0.60 | 2.26 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1504 | Hot Oil Filter | N/A | 0 | 19.44 | 0.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **Train 1 Vented SSM** | | **132.76** | **4.95** | **2.26** | **0.06** | **<0.01** | **<0.01** | **--** | **--** | **--** | **--** | | | | | | | | | | | | | | | | |
| | | **RH1-FL-29-1003** | | | | | | | | | | | | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** |

**Train 2**

| | | | | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment ID | Description | Control Device | DRE (%) | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| F-0201, F-0202 | Amine Carbon Filter | N/A | 0 | 121.47 | 0.24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1225 | Amine Inlet Gas Filter Coalescer | RH2-FL-5100 | 98 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | 0.04 | <0.01 | 0.15 | <0.01 | 1.18 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.35 | <0.01 | 2.65 | <0.01 |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | RH2-FL-5100 | 98 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | 0.04 | <0.01 | 0.15 | <0.01 | 1.18 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.35 | <0.01 | 2.65 | <0.01 |
| F-441 | Inlet Filter Coalescer | N/A | 0 | 34.08 | 0.07 | 0.17 | <0.01 | <0.01 | <0.01 | 2.37 | <0.01 | 17.80 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2202 | TEG Carbon Filter | N/A | 0 | 359.31 | 0.72 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0203, F-0204 | Amine Rich Solids Filter | N/A | 0 | 6.96 | 0.18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-445, F-446 | Mol Sieve Dust Filter | N/A | 0 | 53.61 | 0.11 | 0.27 | <0.01 | <0.01 | <0.01 | 3.73 | <0.01 | 28.01 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0200 | Pre-Carbon Solids Filter | N/A | 0 | 3.48 | 0.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0305 | Amine Lean Solids Filter | N/A | 0 | 2.42 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0805 | Hot Oil Filter | N/A | 0 | 48.47 | 1.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2201 | TEG Pre-Carbon Filter | N/A | 0 | 5.43 | 0.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2203 | TEG Rich Soilds Filter | N/A | 0 | 5.43 | 0.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2401 | TEG Lean Soilds Filter | N/A | 0 | 1.37 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1530 | Seal Gas Filter | N/A | 0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **Train 2 Vented SSM** | | **359.31** | **3.05** | **0.27** | **<0.01** | **<0.01** | **<0.01** | **3.73** | **0.01** | **28.01** | **0.09** | | | | | | | | | | | | | | | | |
| | | **RH2-FL-5100** | | | | | | | | | | | | **0.04** | **<0.01** | **0.15** | **<0.01** | **1.18** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.03** | **<0.01** | **0.35** | **<0.01** | **2.65** | **0.01** |

**Train 3**

| | | | | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment ID | Description | Control Device | DRE (%) | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| F-1530 | Seal Gas Filter | N/A | 0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-441 | Inlet Filter Coalescer | N/A | 0 | 34.08 | 0.07 | 0.17 | <0.01 | <0.01 | <0.01 | 2.37 | <0.01 | 17.80 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6201 | TEG Pre-Carbon Filter | N/A | 0 | 5.43 | 0.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6202 | TEG Carbon Filter | N/A | 0 | 359.31 | 0.72 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6203 | TEG Rich Soilds Filter | N/A | 0 | 5.43 | 0.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6401 | TEG Lean Soilds Filter | N/A | 0 | 1.37 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1235 | Amine Inlet Gas Filter Coalescer | RH2-FL-5100 | 98 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | 0.08 | <0.01 | 0.61 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 0.18 | <0.01 | 1.38 | <0.01 |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | RH2-FL-5100 | 98 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | 0.08 | <0.01 | 0.61 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 0.18 | <0.01 | 1.38 | <0.01 |
| F-445, F-446 | Mol Sieve Dust Filter | N/A | 0 | 53.61 | 0.11 | 0.27 | <0.01 | <0.01 | <0.01 | 3.73 | <0.01 | 28.01 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **Train 3 Vented SSM** | | **359.31** | **1.21** | **0.27** | **<0.01** | **<0.01** | **<0.01** | **3.73** | **0.01** | **28.01** | **0.09** | | | | | | | | | | | | | | | | |
| | | **RH2-FL-5100** | | | | | | | | | | | | **0.02** | **<0.01** | **0.08** | **<0.01** | **0.61** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.01** | **<0.01** | **0.18** | **<0.01** | **1.38** | **<0.01** |

# Filter SSM Emissions

**Targa Northern Delaware, LLC**

**Train 4**

| Equipment ID | Description | Service | Diameter | Length | Volume | Pressure | Temperature | R | Blowdown Volume | Mixture MW | Frequency | Mixture VOC wt% | Vapor Heating Value | Uncontrolled VOC Emissions | | Controlled? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (ft) | (ft) | ($ft^3$) | (psia) | (°F) | (psia * $ft^3$/ lb-mol * °R) | (scf) | (lb/ lb-mol) | (Activities /year) | | Btu/scf | (lb/hr) | (tpy) | | |
| F-41530 | Seal Gas Filter | Residue Gas | 0.29 | 2.17 | 0.16 | 1410 | 165.00 | 10.73 | 0.599 | 17.87 | 4.00 | 0.01 | - | 3.59E-05 | 7.18E-08 | N | - |
| F-441 | Inlet Filter Coalescer | Inlet Gas | 4.00 | 9.75 | 134.77 | 313 | 150.00 | 10.73 | 146.547 | 22.73 | 4.00 | 23.25 | - | 34.08 | 0.07 | N | - |
| F-408 | Residue Gas Filter/Coalescer | Residue Gas | 1.50 | 8.67 | 16.85 | 313 | 150.00 | 10.73 | 14.399 | 17.87 | 4.00 | 0.01 | - | 8.64E-04 | 1.73E-06 | N | - |
| F-3200 | Pre-Carbon Solids Filter | Amine | 2.67 | 5.16 | 31.68 | 148 | 200.00 | 10.73 | 69.591 | 105.14 | 52.00 | 5.00 | - | 3.48 | 0.09 | N | - |
| F-3201, F-3202 | Amine Carbon Filter | Amine | 8.00 | 10.00 | 1105.84 | 148 | 200.00 | 10.73 | 2429.356 | 105.14 | 4.00 | 5.00 | - | 121.47 | 0.24 | N | - |
| F-3203, F-3204 | Amine Rich Solids Filter | Amine | 2.67 | 5.16 | 63.36 | 148 | 200.00 | 10.73 | 139.182 | 105.14 | 52.00 | 5.00 | - | 6.96 | 0.18 | N | - |
| F-3305 | Amine Lean Solids Filter | Amine | 2.67 | 5.16 | 31.68 | 103 | 200.00 | 10.73 | 48.419 | 105.14 | 52.00 | 5.00 | - | 2.42 | 0.06 | N | - |
| F-3805 | Hot Oil Filter | Hot Oil | 2.33 | 5.16 | 24.25 | 103 | 500.00 | 10.73 | 48.473 | 200.00 | 52.00 | 100.00 | - | 48.47 | 1.26 | N | - |
| F-5201 | TEG Pre-Carbon Filter | Glycol | 0.67 | 4.17 | 1.60 | 148 | 150.00 | 10.73 | 5.432 | 150.17 | 52.00 | 100.00 | - | 5.43 | 0.14 | N | - |
| F-5202 | TEG Carbon Filter | Glycol | 3.50 | 10.00 | 105.83 | 148 | 150.00 | 10.73 | 359.306 | 150.17 | 4.00 | 100.00 | - | 359.31 | 0.72 | N | - |
| F-5203 | TEG Rich Soilds Filter | Glycol | 0.67 | 4.17 | 1.60 | 148 | 150.00 | 10.73 | 5.432 | 150.17 | 52.00 | 100.00 | - | 5.43 | 0.14 | N | - |
| F-5401 | TEG Lean Soilds Filter | Glycol | 0.67 | 4.17 | 1.60 | 43 | 240.00 | 10.73 | 1.373 | 150.17 | 52.00 | 100.00 | - | 1.37 | 0.04 | N | - |
| F-41001A, F-41001B | Condensate Filter | Condensate | 2.00 | 7.00 | 48.38 | 313 | 150.00 | 10.73 | 216.461 | 93.55 | 52.00 | 95.47 | 3,394.62 | 206.65 | 5.37 | Y | Flare |
| F-41225 | Amine Inlet Gas Filter Coalescer | Inlet Gas | 3.50 | 14.00 | 148.17 | 313 | 150.00 | 10.73 | 161.107 | 22.73 | 4.00 | 23.25 | 1,097.43 | 37.46 | 0.07 | Y | Flare |
| F-41275 | Glycol Contactor Inlet Gas Filter Coalescer | Inlet Gas | 3.50 | 14.00 | 148.17 | 313 | 150.00 | 10.73 | 161.107 | 22.73 | 4.00 | 23.25 | 1,097.43 | 37.46 | 0.07 | Y | Flare |
| F-41500 | Fuel Gas Filter Coalescer | Residue Gas | 1.50 | 8.92 | 17.33 | 313 | 125.00 | 10.73 | 15.448 | 17.87 | 4.00 | 0.01 | - | 9.27E-04 | 1.85E-06 | N | - |
| F-445, F-446 | Mol Sieve Dust Filter | Inlet Gas | 2.33 | 6.67 | 62.72 | 1058 | 150.00 | 10.73 | 230.554 | 22.73 | 4.00 | 23.25 | - | 53.61 | 0.11 | N | - |

**Train 5**

| Equipment ID | Description | Service | Diameter | Length | Volume | Pressure | Temperature | R | Blowdown Volume | Mixture MW | Frequency | Mixture VOC wt% | Vapor Heating Value | Uncontrolled VOC Emissions | | Controlled? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (ft) | (ft) | ($ft^3$) | (psia) | (°F) | (psia * $ft^3$/ lb-mol * °R) | (scf) | (lb/ lb-mol) | (Activities /year) | | Btu/scf | (lb/hr) | (tpy) | | |
| F-51530 | Seal Gas Filter | Residue Gas | 0.29 | 2.17 | 0.16 | 1410 | 165.00 | 10.73 | 0.599 | 17.87 | 4.00 | 0.01 | - | 3.59E-05 | 7.18E-08 | N | - |
| F-50441 | Inlet Filter Coalescer | Inlet Gas | 4.00 | 9.75 | 134.77 | 313 | 150.00 | 10.73 | 146.547 | 22.73 | 4.00 | 23.25 | - | 34.08 | 0.07 | N | - |
| F-50408 | Residue Gas Filter/Coalescer | Residue Gas | 1.50 | 8.67 | 16.85 | 313 | 150.00 | 10.73 | 14.399 | 17.87 | 4.00 | 0.01 | - | 8.64E-04 | 1.73E-06 | N | - |
| F-53200 | Pre-Carbon Solids Filter | Amine | 2.67 | 5.16 | 31.68 | 148 | 200.00 | 10.73 | 69.591 | 105.14 | 52.00 | 5.00 | - | 3.48 | 0.09 | N | - |
| F-53201, F-53202 | Amine Carbon Filter | Amine | 10.00 | 10.00 | 1727.88 | 148 | 200.00 | 10.73 | 3795.868 | 105.14 | 4.00 | 5.00 | - | 189.79 | 0.38 | N | - |
| F-53203, F-53204 | Amine Rich Solids Filter | Amine | 2.67 | 5.16 | 63.36 | 148 | 200.00 | 10.73 | 139.182 | 105.14 | 52.00 | 5.00 | - | 6.96 | 0.18 | N | - |
| F-53304 | Amine Lean Solids Filter | Amine | 2.67 | 8.98 | 55.16 | 103 | 200.00 | 10.73 | 84.317 | 105.14 | 52.00 | 5.00 | - | 4.22 | 0.11 | N | - |
| F-53805 | HMO Filter | Hot Oil | 2.33 | 8.58 | 40.37 | 103 | 500.00 | 10.73 | 80.690 | 200.00 | 52.00 | 100.00 | - | 80.69 | 2.10 | N | - |
| F-55201 | TEG Pre-Carbon Filter | Glycol | 0.72 | 3.92 | 1.75 | 148 | 150.00 | 10.73 | 5.935 | 150.17 | 52.00 | 100.00 | - | 5.93 | 0.15 | N | - |
| F-55202 | TEG Carbon Filter | Glycol | 3.50 | 10.00 | 105.83 | 148 | 150.00 | 10.73 | 359.306 | 150.17 | 4.00 | 100.00 | - | 359.31 | 0.72 | N | - |
| F-55203 | TEG Rich Soilds Filter | Glycol | 0.72 | 3.92 | 1.75 | 148 | 150.00 | 10.73 | 5.935 | 150.17 | 52.00 | 100.00 | - | 5.93 | 0.15 | N | - |
| F-55401 | TEG Lean Soilds Filter | Glycol | 0.72 | 3.92 | 1.75 | 43 | 240.00 | 10.73 | 1.500 | 150.17 | 52.00 | 100.00 | - | 1.50 | 0.04 | N | - |
| F-51225 | Inlet Filter Coalescer | Inlet Gas | 3.50 | 14.00 | 148.17 | 313 | 150.00 | 10.73 | 161.107 | 22.73 | 4.00 | 23.25 | 1,097.43 | 37.46 | 0.07 | Y | Flare |
| F-51275 | Glycol Inlet Filter Coalescer | Inlet Gas | 3.50 | 14.00 | 148.17 | 313 | 150.00 | 10.73 | 161.107 | 22.73 | 4.00 | 23.25 | 1,097.43 | 37.46 | 0.07 | Y | Flare |
| F-50445, F-50446 | Mol Sieve Dust Filter | Inlet Gas | 2.33 | 6.67 | 62.72 | 1058 | 150.00 | 10.73 | 230.554 | 22.73 | 4.00 | 23.25 | - | 53.61 | 0.11 | N | - |

**Train 6**

| Equipment ID | Description | Service | Diameter | Length | Volume | Pressure | Temperature | R | Blowdown Volume | Mixture MW | Frequency | Mixture VOC wt% | Vapor Heating Value | Uncontrolled VOC Emissions | | Controlled? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (ft) | (ft) | ($ft^3$) | (psia) | (°F) | (psia * $ft^3$/ lb-mol * °R) | (scf) | (lb/ lb-mol) | (Activities /year) | | Btu/scf | (lb/hr) | (tpy) | | |
| F-61530 | Seal Gas Filter | Residue Gas | 0.55 | 4.50 | 1.18 | 313 | 165.00 | 10.73 | 0.988 | 17.87 | 4.00 | 0.01 | - | 5.93E-05 | 1.19E-07 | N | - |
| F-60441 | Inlet Filter Coalescer | Inlet Gas | 4.00 | 9.75 | 134.77 | 313 | 150.00 | 10.73 | 146.547 | 22.73 | 4.00 | 23.25 | - | 34.08 | 0.07 | N | - |
| F-60408 | Residue Gas Filter/Coalescer | Residue Gas | 1.50 | 8.67 | 16.85 | 313 | 150.00 | 10.73 | 14.399 | 17.87 | 4.00 | 0.01 | - | 8.64E-04 | 1.73E-06 | N | - |
| F-62101, F-62102 | Condensate Filter | Condensate | 2.67 | 5.16 | 63.36 | 313 | 125.00 | 10.73 | 295.581 | 93.55 | 52.00 | 95.47 | 3,394.62 | 282.19 | 7.34 | Y | Flare |
| F-63805 | HMO Filter | Hot Oil | 2.67 | 4.33 | 26.62 | 103 | 500.00 | 10.73 | 53.207 | 200.00 | 52.00 | 100.00 | - | 53.21 | 1.38 | N | - |
| F-65201 | TEG Pre-Carbon Filter | Glycol | 0.72 | 3.92 | 1.75 | 148 | 150.00 | 10.73 | 5.935 | 150.17 | 52.00 | 100.00 | - | 5.93 | 0.15 | N | - |
| F-65202 | TEG Carbon Filter | Glycol | 4.00 | 10.00 | 138.23 | 148 | 150.00 | 10.73 | 469.298 | 150.17 | 4.00 | 100.00 | - | 469.30 | 0.94 | N | - |
| F-65203 | TEG Rich Soilds Filter | Glycol | 0.72 | 3.92 | 1.75 | 148 | 150.00 | 10.73 | 5.935 | 150.17 | 52.00 | 100.00 | - | 5.93 | 0.15 | N | - |
| F-65401 | TEG Lean Soilds Filter | Glycol | 0.72 | 3.92 | 1.75 | 43 | 240.00 | 10.73 | 1.500 | 150.17 | 52.00 | 100.00 | - | 1.50 | 0.04 | N | - |
| F-61225 | Inlet Filter Coalescer | Inlet Gas | 3.50 | 10.00 | 121.19 | 313 | 150.00 | 10.73 | 131.777 | 22.73 | 4.00 | 23.25 | 1,097.43 | 30.64 | 0.06 | Y | Flare |
| F-61275 | Glycol Inlet Filter Coalescer | Inlet Gas | 3.50 | 10.00 | 121.19 | 313 | 150.00 | 10.73 | 131.777 | 22.73 | 4.00 | 23.25 | 1,097.43 | 30.64 | 0.06 | Y | Flare |
| F-60445, F-60446 | Mol Sieve Dust Filter | Inlet Gas | 2.33 | 6.67 | 62.72 | 1058 | 150.00 | 10.73 | 230.554 | 22.73 | 4.00 | 23.25 | - | 53.61 | 0.11 | N | - |

# Filter SSM Emissions

**Targa Northern Delaware, LLC**

**Train 4**

| Equipment ID | Description | Control Device | DRE (%) | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| F-41530 | Seal Gas Filter | N/A | 0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-441 | Inlet Filter Coalescer | N/A | 0 | 34.08 | 0.07 | 0.17 | <0.01 | <0.01 | <0.01 | 2.37 | <0.01 | 17.80 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-408 | Residue Gas Filter/Coalescer | N/A | 0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3200 | Pre-Carbon Solids Filter | N/A | 0 | 3.48 | 0.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3201, F-3202 | Amine Carbon Filter | N/A | 0 | 121.47 | 0.24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3203, F-3204 | Amine Rich Solids Filter | N/A | 0 | 6.96 | 0.18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3305 | Amine Lean Solids Filter | N/A | 0 | 2.42 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3805 | Hot Oil Filter | N/A | 0 | 48.47 | 1.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5201 | TEG Pre-Carbon Filter | N/A | 0 | 5.43 | 0.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5202 | TEG Carbon Filter | N/A | 0 | 359.31 | 0.72 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5203 | TEG Rich Soilds Filter | N/A | 0 | 5.43 | 0.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5401 | TEG Lean Soilds Filter | N/A | 0 | 1.37 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-41001A, F-41001B | Condensate Filter | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.10 | <0.01 | 0.40 | 0.01 | 4.13 | 0.11 | -- | -- | -- | -- | 0.42 | 0.01 | -- | -- | -- | -- |
| F-41225 | Amine Inlet Gas Filter Coalescer | RH4-FL-45100 | 98 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | 0.10 | <0.01 | 0.75 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 0.22 | <0.01 | 1.68 | <0.01 |
| F-41275 | Glycol Contactor Inlet Gas Filter Coalescer | RH4-FL-45100 | 98 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | 0.10 | <0.01 | 0.75 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 0.22 | <0.01 | 1.68 | <0.01 |
| F-41500 | Fuel Gas Filter Coalescer | N/A | 0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-445, F-446 | Mol Sieve Dust Filter | N/A | 0 | 53.61 | 0.11 | 0.27 | <0.01 | <0.01 | <0.01 | 3.73 | <0.01 | 28.01 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **Train 4 Vented SSM** | | **359.31** | **3.05** | **0.27** | **<0.01** | **<0.01** | **<0.01** | **3.73** | **0.01** | **28.01** | **0.09** | | | | | | | | | | | | | | | | |
| | | **RH4-FL-45100** | | | | | | | | | | | | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** |

**Train 5**

| Equipment ID | Description | Control Device | DRE (%) | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| F-51530 | Seal Gas Filter | N/A | 0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-50441 | Inlet Filter Coalescer | N/A | 0 | 34.08 | 0.07 | 0.17 | <0.01 | <0.01 | <0.01 | 2.37 | <0.01 | 17.80 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-50408 | Residue Gas Filter/Coalescer | N/A | 0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53200 | Pre-Carbon Solids Filter | N/A | 0 | 3.48 | 0.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53201, F-53202 | Amine Carbon Filter | N/A | 0 | 189.79 | 0.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53203, F-53204 | Amine Rich Solids Filter | N/A | 0 | 6.96 | 0.18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53304 | Amine Lean Solids Filter | N/A | 0 | 4.22 | 0.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53805 | HMO Filter | N/A | 0 | 80.69 | 2.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55201 | TEG Pre-Carbon Filter | N/A | 0 | 5.93 | 0.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55202 | TEG Carbon Filter | N/A | 0 | 359.31 | 0.72 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55203 | TEG Rich Soilds Filter | N/A | 0 | 5.93 | 0.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55401 | TEG Lean Soilds Filter | N/A | 0 | 1.50 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-51225 | Inlet Filter Coalescer | RH4-FL-45100 | 98 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | 0.10 | <0.01 | 0.75 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 0.22 | <0.01 | 1.68 | <0.01 |
| F-51275 | Glycol Inlet Filter Coalescer | RH4-FL-45100 | 98 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | 0.10 | <0.01 | 0.75 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 0.22 | <0.01 | 1.68 | <0.01 |
| F-50445, F-50446 | Mol Sieve Dust Filter | N/A | 0 | 53.61 | 0.11 | 0.27 | <0.01 | <0.01 | <0.01 | 3.73 | <0.01 | 28.01 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **Train 5 Vented SSM** | | **359.31** | **4.10** | **0.27** | **<0.01** | **<0.01** | **<0.01** | **3.73** | **0.01** | **28.01** | **0.09** | | | | | | | | | | | | | | | | |
| | | **RH4-FL-45100** | | | | | | | | | | | | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** |

**Train 6**

| Equipment ID | Description | Control Device | DRE (%) | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| F-61530 | Seal Gas Filter | N/A | 0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-60441 | Inlet Filter Coalescer | N/A | 0 | 34.08 | 0.07 | 0.17 | <0.01 | <0.01 | <0.01 | 2.37 | <0.01 | 17.80 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-60408 | Residue Gas Filter/Coalescer | N/A | 0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-62101, F-62102 | Condensate Filter | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.14 | <0.01 | 0.55 | 0.01 | 5.64 | 0.15 | -- | -- | -- | -- | 0.58 | 0.02 | -- | -- | -- | -- |
| F-63805 | HMO Filter | N/A | 0 | 53.21 | 1.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65201 | TEG Pre-Carbon Filter | N/A | 0 | 5.93 | 0.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65202 | TEG Carbon Filter | N/A | 0 | 469.30 | 0.94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65203 | TEG Rich Soilds Filter | N/A | 0 | 5.93 | 0.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65401 | TEG Lean Soilds Filter | N/A | 0 | 1.50 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-61225 | Inlet Filter Coalescer | RH4-FL-45100 | 98 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | 0.08 | <0.01 | 0.61 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 0.18 | <0.01 | 1.38 | <0.01 |
| F-61275 | Glycol Inlet Filter Coalescer | RH4-FL-45100 | 98 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | 0.08 | <0.01 | 0.61 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 0.18 | <0.01 | 1.38 | <0.01 |
| F-60445, F-60446 | Mol Sieve Dust Filter | N/A | 0 | 53.61 | 0.11 | 0.27 | <0.01 | <0.01 | <0.01 | 3.73 | <0.01 | 28.01 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **Train 6 Vented SSM** | | **469.30** | **2.84** | **0.27** | **<0.01** | **<0.01** | **<0.01** | **3.73** | **0.01** | **28.01** | **0.09** | | | | | | | | | | | | | | | | |
| | | **RH4-FL-45100** | | | | | | | | | | | | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** |

# Filter SSM Emissions

**Targa Northern Delaware, LLC**

**FET-1**

HIDE

| Equipment ID | Description | Service | Diameter | Length | Volume | Pressure | Temperature | R | Blowdown Volume | Mixture MW | Frequency | Mixture VOC wt% | Vapor Heating Value | Uncontrolled VOC Emissions | | Controlled? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (ft) | (ft) | ($ft^3$) | (psia) | (°F) | (psia * $ft^3$/ lb-mol * °R) | (scf) | (lb/ lb-mol) | (Activities /year) | | Btu/scf | (lb/hr) | (tpy) | | |
| F-4201 | Pre-Carbon Solids Filter | Amine | 2.50 | 7.77 | 41.93 | 148 | 200.00 | 10.73 | 92.117 | 105.14 | 52.00 | 5.00 | - | 4.61 | 0.12 | N | - |
| F-4202, F-4204 | Carbon Filter | Amine | 7.00 | 10.00 | 846.66 | 148 | 200.00 | 10.73 | 1859.975 | 105.14 | 4.00 | 5.00 | - | 93.00 | 0.19 | N | - |
| F-4203 | Rich Amine Solids Filter | Amine | 2.50 | 7.77 | 41.93 | 148 | 200.00 | 10.73 | 92.117 | 105.14 | 52.00 | 5.00 | - | 4.61 | 0.12 | N | - |
| F-4303 | Lean Amine Solids Filter | Amine | 2.50 | 7.77 | 41.93 | 103 | 200.00 | 10.73 | 64.091 | 105.14 | 52.00 | 5.00 | - | 3.20 | 0.08 | N | - |
| F-4805 | Hot Oil Filter | Hot Oil | 1.50 | 7.19 | 13.98 | 103 | 500.00 | 10.73 | 27.944 | 200.00 | 52.00 | 100.00 | - | 27.94 | 0.73 | N | - |
| F-5002 | NGL Solids Pre-Filter | Condensate | 0.90 | 4.66 | 3.23 | 1058 | 150.00 | 10.73 | 48.833 | 93.55 | 52.00 | 95.47 | 3,394.62 | 46.62 | 1.21 | Y | Flare |
| F-5003 | Liquid/Liquid Coalescer | Condensate | 1.06 | 8.50 | 8.29 | 1058 | 150.00 | 10.73 | 125.400 | 93.55 | 52.00 | 95.47 | 3,394.62 | 119.72 | 3.11 | Y | Flare |
| F-5101 | Filter Separator | Sour Inlet Gas | 2.00 | 10.00 | 34.56 | 213 | 150.00 | 10.73 | 27.066 | 24.07 | 4.00 | 18.89 | 1,170.00 | 5.11 | 0.01 | Y | Flare |
| F-5104 | Filter Separator | Sour Inlet Gas | 2.00 | 8.00 | 27.65 | 213 | 150.00 | 10.73 | 21.653 | 24.07 | 4.00 | 18.89 | 1,170.00 | 4.09 | 8.18E-03 | Y | Flare |
| F-1100A, F-1100B | Condensate Filters | Condensate | 0.90 | 6.33 | 8.78 | 63 | 125.00 | 10.73 | 8.237 | 93.55 | 52.00 | 95.47 | 3,394.62 | 7.86 | 0.20 | Y | Flare |

**FET-2**

| Equipment ID | Description | Service | Diameter | Length | Volume | Pressure | Temperature | R | Blowdown Volume | Mixture MW | Frequency | Mixture VOC wt% | Vapor Heating Value | Uncontrolled VOC Emissions | | Controlled? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (ft) | (ft) | ($ft^3$) | (psia) | (°F) | (psia * $ft^3$/ lb-mol * °R) | (scf) | (lb/ lb-mol) | (Activities /year) | | Btu/scf | (lb/hr) | (tpy) | | |
| F-21001, F-21002 | Condensate Filters | Condensate | 2.17 | 7.00 | 56.78 | 63 | 150.00 | 10.73 | 51.074 | 93.55 | 52.00 | 95.47 | 3,394.62 | 48.76 | 1.27 | Y | Flare |
| F-22101, F-22102 | Condensate Feed Filters | Condensate | 0.72 | 5.71 | 5.10 | 63 | 125.00 | 10.73 | 4.779 | 93.55 | 52.00 | 95.47 | 3,394.62 | 4.56 | 0.12 | Y | Flare |
| F-22103 | Liquid/Liquid Coalescing Filter | Condensate | 1.17 | 10.29 | 12.10 | 63 | 125.00 | 10.73 | 11.352 | 93.55 | 52.00 | 95.47 | 3,394.62 | 10.84 | 0.28 | Y | Flare |
| F-21500 | Fuel Gas Filter Coalescer | Residue Gas | 0.72 | 6.58 | 2.94 | 213 | 150.00 | 10.73 | 1.709 | 17.87 | 4.00 | 0.01 | - | 1.03E-04 | 2.05E-07 | N | - |
| F-23805 | HMO Filter | Hot Oil | 2.00 | 6.67 | 23.04 | 103 | 500.00 | 10.73 | 46.044 | 200.00 | 52.00 | 100.00 | - | 46.04 | 1.20 | N | - |
| F-21225 | Inlet Filter Coalescer | Sour Inlet Gas | 3.75 | 10.00 | 121.49 | 213 | 150.00 | 10.73 | 95.154 | 24.07 | 4.00 | 18.89 | 1,170.00 | 17.98 | 0.04 | Y | Flare |
| F-23200 | Rich Amine Pre-Carbon Filter | Amine | 2.00 | 7.92 | 27.36 | 148 | 200.00 | 10.73 | 60.101 | 105.14 | 52.00 | 5.00 | - | 3.01 | 0.08 | N | - |
| F-23201, F-23202 | Rich Amine Carbon Filter | Amine | 8.50 | 10.00 | 1248.39 | 148 | 200.00 | 10.73 | 2742.515 | 105.14 | 4.00 | 5.00 | - | 137.13 | 0.27 | N | - |
| F-23203, F-23204 | Rich Amine Post-Carbon Filter | Amine | 2.00 | 7.92 | 54.72 | 148 | 200.00 | 10.73 | 120.202 | 105.14 | 52.00 | 5.00 | - | 6.01 | 0.16 | N | - |
| F-23304 | Lean Amine Filter | Amine | 2.00 | 7.92 | 27.36 | 103 | 200.00 | 10.73 | 41.816 | 105.14 | 52.00 | 5.00 | - | 2.09 | 0.05 | N | - |

# Filter SSM Emissions

**Targa Northern Delaware, LLC**

**FET-1**

HIDE

| Equipment ID | Description | Control Device | DRE (%) | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| F-4201 | Pre-Carbon Solids Filter | N/A | 0 | 4.61 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4202, F-4204 | Carbon Filter | N/A | 0 | 93.00 | 0.19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4203 | Rich Amine Solids Filter | N/A | 0 | 4.61 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4303 | Lean Amine Solids Filter | N/A | 0 | 3.20 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4805 | Hot Oil Filter | N/A | 0 | 27.94 | 0.73 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5002 | NGL Solids Pre-Filter | RHA-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.09 | <0.01 | 0.93 | 0.02 | -- | -- | -- | -- | 0.10 | <0.01 | -- | -- |
| F-5003 | Liquid/Liquid Coalescer | RHA-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.06 | <0.01 | 0.23 | <0.01 | 2.39 | 0.06 | -- | -- | -- | -- | 0.25 | <0.01 | -- | -- |
| F-5101 | Filter Separator | RHA-FL-5100 | 98 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.10 | <0.01 | 0.36 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 0.06 | <0.01 |
| F-5104 | Filter Separator | RHA-FL-5100 | 98 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | 0.01 | <0.01 | 0.08 | <0.01 | 0.29 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 |
| F-1100A, F-1100B | Condensate Filters | RHA-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.16 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | -- | -- |
| | | **FET-1 Vented SSM** | | **93.00** | **1.24** | **--** | **--** | **<0.01** | **<0.01** | **--** | **--** | **--** | **--** | | | | | | | | | | | | | | |
| | | **RHA-FL-5100** | | | | | | | | | | | | **0.06** | **<0.01** | **0.23** | **<0.01** | **2.39** | **0.09** | **0.36** | **<0.01** | **0.02** | **<0.01** | **0.25** | **<0.01** | **0.06** | **<0.01** | **0.29** | **<0.01** |

**FET-2**

| Equipment ID | Description | Control Device | DRE (%) | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| F-21001, F-21002 | Condensate Filters | RA2-FL-25100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.10 | <0.01 | 0.98 | 0.03 | -- | -- | -- | -- | 0.10 | <0.01 | -- | -- |
| F-22101, F-22102 | Condensate Feed Filters | RA2-FL-25100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- |
| F-22103 | Liquid/Liquid Coalescing Filter | RA2-FL-25100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.22 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | -- | -- |
| F-21500 | Fuel Gas Filter Coalescer | N/A | 0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23805 | HMO Filter | N/A | 0 | 46.04 | 1.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-21225 | Inlet Filter Coalescer | RA2-FL-25100 | 98 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | 0.06 | <0.01 | 0.36 | <0.01 | 1.28 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | 0.20 | <0.01 |
| F-23200 | Rich Amine Pre-Carbon Filter | N/A | 0 | 3.01 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23201, F-23202 | Rich Amine Carbon Filter | N/A | 0 | 137.13 | 0.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23203, F-23204 | Rich Amine Post-Carbon Filter | N/A | 0 | 6.01 | 0.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23304 | Lean Amine Filter | N/A | 0 | 2.09 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **FET-2 Vented SSM** | | **137.13** | **1.76** | **<0.01** | **<0.01** | **0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | | | | | | | | | | | | | | |
| | | **RA2-FL-25100** | | | | | | | | | | | | **0.02** | **<0.01** | **0.10** | **<0.01** | **0.98** | **0.03** | **1.28** | **<0.01** | **0.07** | **<0.01** | **0.10** | **<0.01** | **0.20** | **<0.01** | **1.04** | **<0.01** |

# Filter SSM Emissions

**Targa Northern Delaware, LLC**

**Vented Equipment Blowdown Summary**

| | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| **Train 1 Vented SSM** | 132.76 | 4.95 | <0.01 | <0.01 | 2.26 | 0.06 | -- | -- | -- | -- |
| **Train 2 Vented SSM** | 359.31 | 3.05 | <0.01 | <0.01 | 0.27 | <0.01 | 3.73 | 0.01 | 28.01 | 0.09 |
| **Train 3 Vented SSM** | 359.31 | 1.21 | <0.01 | <0.01 | 0.27 | <0.01 | 3.73 | 0.01 | 28.01 | 0.09 |
| **Train 4 Vented SSM** | 359.31 | 3.05 | <0.01 | <0.01 | 0.27 | <0.01 | 3.73 | 0.01 | 28.01 | 0.09 |
| **Train 5 Vented SSM** | 359.31 | 4.10 | <0.01 | <0.01 | 0.27 | <0.01 | 3.73 | 0.01 | 28.01 | 0.09 |
| **Train 6 Vented SSM** | 469.30 | 2.84 | <0.01 | <0.01 | 0.27 | <0.01 | 3.73 | 0.01 | 28.01 | 0.09 |
| **FET-1 Vented SSM** | 93.00 | 1.24 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- |
| **FET-2 Vented SSM** | 137.13 | 1.76 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |

**Flared Equipment Blowdown Summary**

| | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| **RH1-FL-29-1003** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RH2-FL-5100** | 0.18 | <0.01 | 0.70 | <0.01 | 5.38 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | 1.61 | <0.01 | 12.09 | 0.03 |
| **RH4-FL-45100** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RHA-FL-5100** | 0.15 | <0.01 | 0.61 | 0.02 | 6.06 | 0.18 | 1.02 | <0.01 | 0.06 | <0.01 | 0.60 | 0.02 | 0.16 | <0.01 | 0.83 | <0.01 |
| **RA2-FL-25100** | 0.07 | <0.01 | 0.28 | <0.01 | 2.62 | 0.07 | 2.56 | <0.01 | 0.15 | <0.01 | 0.24 | <0.01 | 0.41 | <0.01 | 2.07 | <0.01 |

**Sample Calculations:**

VOC Emissions (lb/hr) = Volume (ft3) * Pressure (psia) * MW (lb/lb-mol) * VOC wt% / ( R (ft3 * psia / lb-mol * °R) * T (°R) )

VOC Emissions (tpy) = VOC Emissions (lb/hr) * Frequency (/year) / 2000 lb/ton

# Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Calculation Basis:**

Emissions from vessel maintenance activities are calculated using a three step pressurization, where vessels are blown down to check for leaks after pressurizing. The minimum of the vapor pressure or pressurization steps is used to determine the volume of gas or vapor vented to atmosphere or flare.

**Train 1**

Atmospheric Pressure: 12.91 psia; 1st Step Pressurization: 50 psig; 2nd Step Pressurization: 150 psig; 3rd Step Pressurization: 300 psig

| Equipment ID | Equipment Description | Service | Equip. Volume | Mixture Vapor Press. | 1st Step Press. | 2nd Step Press. | 3rd Step Press. | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled $H_2S$ Emissions | | Uncontrolled HAP Emissions | | Uncontrolled $CO_2$ Emissions | | Uncontrolled $CH_4$ Emissions | | Flared? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | |
| HAL-42-15-U205, HAL-42-15-U206 | Flash Gas Compressor Intercooler / Aftercooler | Inlet Gas | 53.75 | - | 62.91 | 163 | 313 | 1,970 | 22.73 | 118.20 | 1.00 | 4.00 | 23.25 | 1097.43 | 27.49 | 0.05 | <0.01 | <0.01 | 0.59 | <0.01 | 8.23 | 0.02 | 61.75 | 19.73 | Y | Flare |
| 42-108A, 42-108B | Stabilizer Overhead Compressor | Inlet Gas | 12.21 | - | 62.91 | 163 | 313 | 448 | 22.73 | 26.86 | 1.00 | 4.00 | 23.25 | 1097.43 | 6.25 | 0.01 | <0.01 | <0.01 | 0.13 | <0.01 | 1.87 | <0.01 | 14.03 | 1.02 | Y | Flare |
| 45-507 | Expander/Compressor | Inlet Gas | 36.67 | - | 62.91 | 163 | 313 | 1,344 | 22.73 | 80.63 | 1.00 | 4.00 | 23.25 | 1097.43 | 18.75 | 0.04 | <0.01 | <0.01 | 0.40 | <0.01 | 5.61 | 0.01 | 42.12 | 9.18 | Y | Flare |
| 42-601A, 42-601B, 42-601C | Sales Gas Compressor | Residue Gas | 179.89 | - | 62.91 | 163 | 313 | 6,594 | 17.87 | 310.94 | 1.00 | 4.00 | <0.01 | 1126.07 | 0.02 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 241.13 | 0.48 | 54.07 | <0.01 | Y | Flare |
| 42-15-U205, 42-15-U206 | Flash Gas Compressor | Inlet Gas | 472.90 | - | 62.91 | 163 | 313 | 17,336 | 22.73 | 1039.88 | 1.00 | 4.00 | 23.25 | 1097.43 | 241.82 | 0.48 | <0.01 | <0.01 | 5.15 | 0.01 | 72.41 | 0.14 | 543.24 | 1527.39 | Y | Flare |
| 42-801A, 42-801B | Propane Compressor | Propane | 324.58 | 174.83 | 62.91 | 163 | 175 | 8,849 | 44.10 | 1029.57 | 1.00 | 4.00 | 100.00 | 2516.00 | 1029.57 | 2.06 | - | - | - | - | - | - | - | - | Y | Flare |
| 42-2500 | Truck Unloading Pump | Condensate | 3.33 | 6.80 | 6.80 | 7 | 7 | 5 | 93.55 | 1.14 | 1.00 | 4.00 | 95.47 | - | 1.09 | <0.01 | - | - | 0.11 | <0.01 | - | - | - | - | N | N/A |
| P-1575 | Sour Stabilizer Rerun Pump | Condensate | 3.33 | 6.80 | 6.80 | 7 | 7 | 5 | 93.55 | 1.14 | 1.00 | 4.00 | 95.47 | - | 1.09 | <0.01 | - | - | 0.11 | <0.01 | - | - | - | - | N | N/A |
| 41-512A, 41-512B | NGL Booster Pump | Y-Grade | 22.80 | 397.30 | 62.91 | 163 | 313 | 836 | 40.97 | 90.34 | 1.00 | 4.00 | 71.97 | - | 65.01 | 0.13 | - | - | - | - | 0.08 | <0.01 | 0.08 | 0.19 | N | N/A |
| 41-919DD | Flash Gas Compressors Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 41-307A, 41-307B | Glycol Pump | Glycol | 2.61 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 41-207A, 41-207B | Lean Amine Booster Pump | Amine | 6.66 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 41-216A, 41-216B | Amine Reflux Pump | Amine | 1.08 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 41-212A, 41-212B, 41-212C | Amine Circulation Pump | Amine | 12.53 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.01 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-XXXX | Propane Suction Scrubber Pump | Propane | 1.30 | 174.83 | 62.91 | 163 | 175 | 36 | 44.10 | 4.13 | 1.00 | 4.00 | 100.00 | - | 4.13 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 41-702A, 41-702B | Hot Oil Circulation Pump | Hot Oil | 11.92 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.01 | 1.00 | 4.00 | 100.00 | - | 0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 42-1002A, 42-1002B | Flare KO Drum Pumps | Condensate | 2.56 | 6.80 | 6.80 | 7 | 7 | 4 | 93.55 | 0.88 | 1.00 | 4.00 | 95.47 | - | 0.84 | <0.01 | - | - | 0.09 | <0.01 | - | - | - | - | N | N/A |
| P-41-516A, P-41-516B, P-41-516C | NGL Pipeline Pump | Y-Grade | 7.64 | 397.30 | 62.91 | 163 | 313 | 280 | 40.97 | 30.27 | 1.00 | 4.00 | 71.97 | - | 21.79 | 0.04 | - | - | - | - | 0.03 | <0.01 | 0.03 | 0.02 | N | N/A |
| 41-902A, 41-902B | Condensate Transfer Pump | Condensate | 9.55 | 6.80 | 6.80 | 7 | 7 | 13 | 93.55 | 3.27 | 1.00 | 4.00 | 95.47 | - | 3.12 | <0.01 | - | - | 0.32 | <0.01 | - | - | - | - | N | N/A |
| 41-903A, 41-903B | NGL Truck Unloading Pump | Condensate | 9.55 | 6.80 | 6.80 | 7 | 7 | 13 | 93.55 | 3.27 | 1.00 | 4.00 | 95.47 | - | 3.12 | <0.01 | - | - | 0.32 | <0.01 | - | - | - | - | N | N/A |
| P-69100, P-69150 | Condensate Transfer Pump | Condensate | 9.55 | 6.80 | 6.80 | 7 | 7 | 13 | 93.55 | 3.27 | 1.00 | 4.00 | 95.47 | - | 3.12 | <0.01 | - | - | 0.32 | <0.01 | - | - | - | - | N | N/A |
| 41-910 | TEG Make-up Pump | Glycol | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 41-907 | Amine Make-up Pump | Amine | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 41-918 | Hot Oil Make-up Pump | Hot Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 41-919A, 41-919B, 41-919C | Sump Pump | Lube Oil | 3.84 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 41-919D, 41-919E, 41-919F | Sump Pump | Glycol | 3.84 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 41-919G, 41-919H, 41-919J | Sump Pump | Lube Oil | 5.12 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.01 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 41-919K, 41-919L, 41-919M | Sump Pump | Amine | 3.84 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 41-919N, 41-919P, 41-919R | Sump Pump | Lube Oil | 3.84 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 41-919S, 41-919T, 41-919U | Sump Pump | Hot Oil | 3.84 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 41-919V, 41-919W, 41-919X | Sump Pump | Lube Oil | 3.84 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 41-919Y, 41-919Z | Sump Pump | Lube Oil | 5.12 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.01 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-XXXX, P-XXXX, P-XXXX, P-XXXX | Sump Pump | Lube Oil | 5.12 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.01 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-1502, P-1503 | Hot Oil Pump | Hot Oil | 11.92 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.01 | 1.00 | 4.00 | 100.00 | - | 0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-1802, P-1803 | LPG Booster Pump | Y-Grade | 9.55 | 397.30 | 62.91 | 163 | 313 | 350 | 40.97 | 37.83 | 1.00 | 4.00 | 71.97 | - | 27.23 | 0.05 | - | - | - | - | 0.03 | <0.01 | 0.03 | 0.03 | N | N/A |
| P-1804, P-1805 | LPG Main Solution Pump | Y-Grade | 5.09 | 397.30 | 62.91 | 163 | 313 | 187 | 40.97 | 20.18 | 1.00 | 4.00 | 71.97 | - | 14.52 | 0.03 | - | - | - | - | 0.02 | <0.01 | 0.02 | <0.01 | N | N/A |
| P-XXXX1 | Pig Receiver Pump | Condensate | 1.28 | 6.80 | 6.80 | 7 | 7 | 2 | 93.55 | 0.44 | 1.00 | 4.00 | 95.47 | - | 0.42 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | N | N/A |
| P-XXXX2 | Pig Receiver Pump | Condensate | 1.28 | 6.80 | 6.80 | 7 | 7 | 2 | 93.55 | 0.44 | 1.00 | 4.00 | 95.47 | - | 0.42 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | N | N/A |
| F-009A, F-009B | Condensate Filter | Condensate | 48.38 | 6.80 | 6.80 | 7 | 7 | 67 | 93.55 | 16.58 | 1.00 | 52.00 | 95.47 | 3394.62 | 15.83 | 0.41 | - | - | 1.62 | 0.04 | - | - | - | - | Y | Flare |
| 26-217 | Amine Contactor Inlet Coalescing Filter | Inlet Gas | 24.69 | - | 62.91 | 163 | 313 | 905 | 22.73 | 54.30 | 1.00 | 4.00 | 23.25 | 1097.43 | 12.63 | 0.03 | <0.01 | <0.01 | 0.27 | <0.01 | 3.78 | <0.01 | 28.37 | 4.16 | Y | Flare |
| 26-401 | Inlet Filter/Separator | Inlet Gas | 18.87 | - | 62.91 | 163 | 313 | 692 | 22.73 | 41.50 | 1.00 | 4.00 | 23.25 | 1097.43 | 9.65 | 0.02 | <0.01 | <0.01 | 0.21 | <0.01 | 2.89 | <0.01 | 21.68 | 2.43 | Y | Flare |
| 26-403 | Inlet Dust Filter | Inlet Gas | 8.91 | - | 62.91 | 163 | 313 | 327 | 22.73 | 19.59 | 1.00 | 4.00 | 23.25 | 1097.43 | 4.56 | <0.01 | <0.01 | <0.01 | 0.10 | <0.01 | 1.36 | <0.01 | 10.23 | 0.54 | Y | Flare |
| 26-520 | NGL/Water Coalescer | Y-Grade | 4.90 | 397.30 | 62.91 | 163 | 313 | 180 | 40.97 | 19.41 | 1.00 | 4.00 | 71.97 | 1020.00 | 13.97 | 0.03 | - | - | - | - | 0.02 | <0.01 | 0.02 | <0.01 | Y | Flare |
| 26-115 | LPG/Water Coalescer | Y-Grade | 19.20 | 397.30 | 62.91 | 163 | 313 | 704 | 40.97 | 76.07 | 1.00 | 4.00 | 71.97 | 1020.00 | 54.75 | 0.11 | - | - | - | - | 0.07 | <0.01 | 0.07 | 0.13 | Y | Flare |
| 26-305 | Glycol Charcoal Filter | Glycol | 23.33 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.02 | 1.00 | 4.00 | 100.00 | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 26-306 | Glycol Filter | Glycol | 0.88 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 52.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F51-208, F51-209 | Lean Amine Filter | Amine | 18.93 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.01 | 1.00 | 52.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 26-208 | Amine Filter | Amine | 23.61 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.01 | 1.00 | 52.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 32-209 | Amine Carbon Filter | Amine | 165.88 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.09 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 26-210 | Amine Guard Filter | Amine | 5.12 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 52.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| 26-703A, 26-703B | Hot Oil Filter | Hot Oil | 66.42 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.07 | 1.00 | 52.00 | 100.00 | - | 0.07 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-1101, F-1102 | Condensate Filter | Condensate | 7.63 | 6.80 | 6.80 | 7 | 7 | 11 | 93.55 | 2.61 | 1.00 | 52.00 | 95.47 | - | 2.49 | 0.06 | - | - | 0.26 | <0.01 | - | - | - | - | N | N/A |
| F-1504 | Hot Oil Filter | Hot Oil | 9.73 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.01 | 1.00 | 52.00 | 100.00 | - | 0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |

*Activity durations are conservative estimates.

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Train 1**

| | | | | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Equipment ID** | **Equipment Description** | **Control Device** | **DRE (%)** | **Vented VOC Emissions** | | **Vented $H_2S$ Emissions** | | **Vented HAP Emissions** | | **Vented $CO_2$ Emissions** | | **Vented $CH_4$ Emissions** | | **$NO_x$ Emissions** | | **CO Emissions** | | **Controlled VOC Emissions** | | **Controlled $SO_2$ Emissions** | | **Controlled $H_2S$ Emissions** | | **Controlled HAP Emissions** | | **Controlled $CO_2$ Emissions** | | **Controlled $CH_4$ Emissions** | |
| | | | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** |
| HAL-42-15-U205, HAL-42-15-U206 | Flash Gas Compressor Intercooler / Aftercooler | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.30 | <0.01 | 1.19 | <0.01 | 0.55 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 8.23 | 0.02 | 1.23 | 0.39 |
| 42-108A, 42-108B | Stabilizer Overhead Compressor | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.27 | <0.01 | 0.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.87 | <0.01 | 0.28 | 0.02 |
| 45-507 | Expander/Compressor | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.20 | <0.01 | 0.81 | <0.01 | 0.37 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.61 | 0.01 | 0.84 | 0.18 |
| 42-601A, 42-601B, 42-601C | Sales Gas Compressor | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.02 | <0.01 | 4.08 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 241.13 | 0.48 | 1.08 | <0.01 |
| 42-15-U205, 42-15-U206 | Flash Gas Compressor | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.63 | <0.01 | 10.46 | 0.02 | 4.84 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | 0.10 | <0.01 | 72.41 | 0.14 | 10.86 | 30.55 |
| 42-801A, 42-801B | Propane Compressor | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.07 | <0.01 | 12.24 | 0.02 | 20.59 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 42-2500 | Truck Unloading Pump | N/A | -- | 1.09 | <0.01 | -- | -- | 0.11 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-1575 | Sour Stabilizer Rerun Pump | N/A | -- | 1.09 | <0.01 | -- | -- | 0.11 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-512A, 41-512B | NGL Booster Pump | N/A | -- | 65.01 | 0.13 | -- | -- | -- | -- | 0.08 | <0.01 | 0.08 | 0.19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919DD | Flash Gas Compressors Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-307A, 41-307B | Glycol Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-207A, 41-207B | Lean Amine Booster Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-216A, 41-216B | Amine Reflux Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-212A, 41-212B, 41-212C | Amine Circulation Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-XXXX | Propane Suction Scrubber Pump | N/A | -- | 4.13 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-702A, 41-702B | Hot Oil Circulation Pump | N/A | -- | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 42-1002A, 42-1002B | Flare KO Drum Pumps | N/A | -- | 0.84 | <0.01 | -- | -- | 0.09 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-41-516A, P-41-516B, P-41-516C | NGL Pipeline Pump | N/A | -- | 21.79 | 0.04 | -- | -- | -- | -- | 0.03 | <0.01 | 0.03 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-902A, 41-902B | Condensate Transfer Pump | N/A | -- | 3.12 | <0.01 | -- | -- | 0.32 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-903A, 41-903B | NGL Truck Unloading Pump | N/A | -- | 3.12 | <0.01 | -- | -- | 0.32 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-69100, P-69150 | Condensate Transfer Pump | N/A | -- | 3.12 | <0.01 | -- | -- | 0.32 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-910 | TEG Make-up Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-907 | Amine Make-up Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-918 | Hot Oil Make-up Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919A, 41-919B, 41-919C | Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919D, 41-919E, 41-919F | Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919G, 41-919H, 41-919J | Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919K, 41-919L, 41-919M | Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919N, 41-919P, 41-919R | Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919S, 41-919T, 41-919U | Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919V, 41-919W, 41-919X | Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919Y, 41-919Z | Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-XXXX, P-XXXX, P-XXXX, P-XXXX | Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-1502, P-1503 | Hot Oil Pump | N/A | -- | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-1802, P-1803 | LPG Booster Pump | N/A | -- | 27.23 | 0.05 | -- | -- | -- | -- | 0.03 | <0.01 | 0.03 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-1804, P-1805 | LPG Main Solution Pump | N/A | -- | 14.52 | 0.03 | -- | -- | -- | -- | 0.02 | <0.01 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-XXXX1 | Pig Receiver Pump | N/A | -- | 0.42 | <0.01 | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-XXXX2 | Pig Receiver Pump | N/A | -- | 0.42 | <0.01 | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-009A, F-009B | Condensate Filter | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | 0.13 | <0.01 | 0.32 | <0.01 | -- | -- | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- |
| 26-217 | Amine Contactor Inlet Coalescing Filter | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.14 | <0.01 | 0.55 | <0.01 | 0.25 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.78 | <0.01 | 0.57 | 0.08 |
| 26-401 | Inlet Filter/Separator | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.10 | <0.01 | 0.42 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.89 | <0.01 | 0.43 | 0.05 |
| 26-403 | Inlet Dust Filter | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.20 | <0.01 | 0.09 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.36 | <0.01 | 0.20 | 0.01 |
| 26-520 | NGL/Water Coalescer | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | 0.10 | <0.01 | 0.28 | <0.01 | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | <0.01 | <0.01 |
| 26-115 | LPG/Water Coalescer | RH1-FL-29-1003 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.10 | <0.01 | 0.39 | <0.01 | 1.09 | <0.01 | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | <0.01 | <0.01 |
| 26-305 | Glycol Charcoal Filter | N/A | -- | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-306 | Glycol Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F51-208, F51-209 | Lean Amine Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-208 | Amine Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-209 | Amine Carbon Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-210 | Amine Guard Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-703A, 26-703B | Hot Oil Filter | N/A | -- | 0.07 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1101, F-1102 | Condensate Filter | N/A | -- | 2.49 | 0.06 | -- | -- | 0.26 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1504 | Hot Oil Filter | N/A | -- | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| *Activity durations are conservative estimates. | | **Train 1 Vented SSM** | | **148.58** | **0.36** | **--** | **--** | **1.61** | **<0.01** | **0.16** | **<0.01** | **0.16** | **0.25** | | | | | | | | | | | | | | | | |
| | | **RH1-FL-29-1003** | | | | | | | | | | | | **7.74** | **0.02** | **30.82** | **0.06** | **28.71** | **0.07** | **0.02** | **<0.01** | **<0.01** | **<0.01** | **0.17** | **<0.01** | **337.38** | **0.67** | **15.51** | **31.29** |

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Train 2**

| Equipment ID | Equipment Description | Service | Equip. Volume | Mixture Vapor Press. | 1st Step Press. | 2nd Step Press. | 3rd Step Press. | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled $H_2S$ Emissions | | Uncontrolled HAP Emissions | | Uncontrolled $CO_2$ Emissions | | Uncontrolled $CH_4$ Emissions | | Flared? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | - | 62.91 | 163 | 313 | 5,129 | 17.87 | 241.85 | 1.00 | 4.00 | <0.01 | - | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 187.55 | 0.38 | 42.06 | <0.01 | N | N/A |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | Residue Gas | 126.72 | - | 62.91 | 163 | 313 | 4,645 | 17.87 | 219.04 | 1.00 | 4.00 | <0.01 | - | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 169.86 | 0.34 | 38.09 | <0.01 | N | N/A |
| C-161, C-162, C-163 | Refrigerant Compressor | Propane | 973.73 | 174.83 | 62.91 | 163 | 175 | 26,546 | 44.10 | 3088.71 | 1.00 | 4.00 | 100.00 | 2516.00 | 3088.71 | 6.18 | - | - | - | - | - | - | - | - | Y | Flare |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1011.48 | - | 62.91 | 163 | 313 | 37,079 | 17.87 | 1748.37 | 1.00 | 4.00 | <0.01 | - | 0.10 | <0.01 | 0.01 | <0.01 | 0.10 | <0.01 | 1355.82 | 2.71 | 304.02 | <0.01 | N | N/A |
| EC-101 | Expander/Compressor | Inlet Gas | 122.34 | - | 62.91 | 163 | 313 | 4,485 | 22.73 | 269.03 | 1.00 | 4.00 | 23.25 | - | 62.56 | 0.13 | <0.01 | <0.01 | 1.33 | <0.01 | 18.73 | 0.04 | 140.54 | 102.23 | N | N/A |
| C-141 | Regen Gas Compressor | Inlet Gas | 2.54 | - | 62.91 | 163 | 313 | 93 | 22.73 | 5.58 | 1.00 | 4.00 | 23.25 | - | 1.30 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.39 | <0.01 | 2.92 | 0.04 | N | N/A |
| P-5050 | Flare KO Pump | Condensate | 1.28 | 6.80 | 6.80 | 7 | 7 | 2 | 93.55 | 0.44 | 1.00 | 4.00 | 95.47 | - | 0.42 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | N | N/A |
| P-7015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-5515 | CO2 Vent Scrubber Pump | Low C Acid Gas | 1.28 | - | 62.91 | 163 | 313 | 47 | 42.33 | 5.24 | 1.00 | 4.00 | 0.10 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.09 | 0.01 | <0.01 | <0.01 | N | N/A |
| P-7035 | TEG Storage Pump | Glycol | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-0802, P-0803, P-0804 | Hot Oil Pump | Hot Oil | 17.88 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.02 | 1.00 | 4.00 | 100.00 | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-0303, P-0304 | Amine Booster Pump | Amine | 6.66 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-0605 | Defoaming Pump | Amine | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-7021 | Amine Make Up Pump | Amine | 0.72 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-0702, P-0703, P-0704 | Amine Main Solution Pump | Amine | 8.90 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.01 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-0603, P-0604 | Reflux Pump | Amine | 1.08 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-6305 | Amine Sump Pump | Amine | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-6355 | Amine Skid Drain Sump Pump | Amine | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-2601, P-2602 | TEG Main Solution Pump | Glycol | 2.61 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-6405 | Glycol Sump Pump | Glycol | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-6455 | Glycol Skid Drain Sump Pump | Glycol | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-6505 | Hot Oil Skid Drain Sump Pump | Hot Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-6555 | CO2 Vent Stack Skid Drain Sump Pump | Low C Acid Gas | 1.28 | - | 62.91 | 163 | 313 | 47 | 42.33 | 5.24 | 1.00 | 4.00 | 0.10 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.09 | 0.01 | <0.01 | <0.01 | N | N/A |
| P-6605 | Residue Compressor Skid Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-6655 | IA Compressor Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-2402, P-2403 | TEG Booster Pump | Glycol | 1.32 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-2504 | TEG Diaphragm Condensate Drum Pump | Glycol | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-600, P-601, P-602 | Product Charge Pump | Y-Grade | 13.11 | 397.30 | 62.91 | 163 | 313 | 481 | 40.97 | 51.94 | 1.00 | 4.00 | 71.97 | 1020.00 | 37.38 | 0.07 | - | - | - | - | 0.05 | <0.01 | 0.05 | 0.06 | Y | Flare |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | Y-Grade | 9.85 | 397.30 | 62.91 | 163 | 313 | 361 | 40.97 | 39.02 | 1.00 | 4.00 | 71.97 | 1020.00 | 28.09 | 0.06 | - | - | - | - | 0.04 | <0.01 | 0.03 | 0.03 | Y | Flare |
| P-609 | Methanol Injection Pump | Methanol | 0.11 | 4.05 | 4.05 | 4 | 4 | 0 | 32.04 | 0.01 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | - | - | N | N/A |
| P-654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-781A, P-781B | HMO Pump | Hot Oil | 2.00 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-7760 | Methanol Injection Pump | Methanol | 0.38 | 4.05 | 4.05 | 4 | 4 | 0 | 32.04 | 0.03 | 1.00 | 4.00 | 100.00 | - | 0.03 | <0.01 | - | - | 0.03 | <0.01 | - | - | - | - | N | N/A |
| F-0201, F-0202 | Amine Carbon Filter | Amine | 1105.84 | 0.01 | 0.01 | 0 | 0 | 2 | 105.14 | 0.63 | 1.00 | 4.00 | 5.00 | - | 0.03 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-1225 | Amine Inlet Gas Filter Coalescer | Inlet Gas | 233.55 | - | 62.91 | 163 | 313 | 8,562 | 22.73 | 513.57 | 1.00 | 0.00 | 23.25 | 1097.43 | 119.43 | - | <0.01 | - | 2.54 | - | 35.76 | - | 268.29 | 372.55 | Y | Flare |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | Inlet Gas | 233.55 | - | 62.91 | 163 | 313 | 8,562 | 22.73 | 513.57 | 1.00 | 0.00 | 23.25 | 1097.43 | 119.43 | - | <0.01 | - | 2.54 | - | 35.76 | - | 268.29 | 372.55 | Y | Flare |
| F-441 | Inlet Filter Coalescer | Inlet Gas | 134.77 | - | 62.91 | 163 | 313 | 4,941 | 22.73 | 296.36 | 1.00 | 0.00 | 23.25 | - | 68.92 | - | <0.01 | - | 1.47 | - | 20.64 | - | 154.82 | 124.06 | N | N/A |
| F-2202 | TEG Carbon Filter | Glycol | 105.83 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.09 | 1.00 | 4.00 | 100.00 | - | 0.09 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-0203, F-0204 | Amine Rich Solids Filter | Amine | 63.36 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.04 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-445, F-446 | Mol Sieve Dust Filter | Inlet Gas | 62.72 | - | 62.91 | 163 | 313 | 2,299 | 22.73 | 137.91 | 1.00 | 4.00 | 23.25 | - | 32.07 | 0.06 | <0.01 | <0.01 | 0.68 | <0.01 | 9.60 | 0.02 | 72.04 | 26.86 | N | N/A |
| F-0200 | Pre-Carbon Solids Filter | Amine | 31.68 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.02 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-0305 | Amine Lean Solids Filter | Amine | 31.68 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.02 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-0805 | Hot Oil Filter | Hot Oil | 24.25 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.03 | 1.00 | 0.00 | 100.00 | - | 0.03 | - | - | - | - | - | - | - | - | - | N | N/A |
| F-2201 | TEG Pre-Carbon Filter | Glycol | 1.60 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 0.00 | 100.00 | - | <0.01 | - | - | - | - | - | - | - | - | - | N | N/A |
| F-2203 | TEG Rich Soilds Filter | Glycol | 1.60 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 0.00 | 100.00 | - | <0.01 | - | - | - | - | - | - | - | - | - | N | N/A |
| F-2401 | TEG Lean Soilds Filter | Glycol | 1.60 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 0.00 | 100.00 | - | <0.01 | - | - | - | - | - | - | - | - | - | N | N/A |
| F-1530 | Seal Gas Filter | Residue Gas | 0.16 | - | 62.91 | 163 | 313 | 6 | 17.87 | 0.28 | 1.00 | 3.00 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.21 | <0.01 | 0.05 | <0.01 | N | N/A |

*Activity durations are conservative estimates.

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Train 2**

| Equipment ID | Equipment Description | Control Device | DRE (%) | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Vented VOC Emissions | | Vented $H_2S$ Emissions | | Vented HAP Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | Controlled $SO_2$ Emissions | | Controlled $H_2S$ Emissions | | Controlled HAP Emissions | | Controlled $CO_2$ Emissions | | Controlled $CH_4$ Emissions | |
| | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | N/A | -- | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 187.55 | 0.38 | 42.06 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | N/A | -- | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 169.86 | 0.34 | 38.09 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-161, C-162, C-163 | Refrigerant Compressor | RH2-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.22 | 0.02 | 36.71 | 0.07 | 61.77 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | N/A | -- | 0.10 | <0.01 | 0.01 | <0.01 | 0.10 | <0.01 | 1,355.82 | 2.71 | 304.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EC-101 | Expander/Compressor | N/A | -- | 62.56 | 0.13 | <0.01 | <0.01 | 1.33 | <0.01 | 18.73 | 0.04 | 140.54 | 102.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-141 | Regen Gas Compressor | N/A | -- | 1.30 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.39 | <0.01 | 2.92 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5050 | Flare KO Pump | N/A | -- | 0.42 | <0.01 | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7015 | Residue Compressor Lube Oil Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5515 | CO2 Vent Scrubber Pump | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.09 | 0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7035 | TEG Storage Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-0802, P-0803, P-0804 | Hot Oil Pump | N/A | -- | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-0303, P-0304 | Amine Booster Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-0605 | Defoaming Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7021 | Amine Make Up Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-0702, P-0703, P-0704 | Amine Main Solution Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-0603, P-0604 | Reflux Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6305 | Amine Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6355 | Amine Skid Drain Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-2601, P-2602 | TEG Main Solution Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6405 | Glycol Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6455 | Glycol Skid Drain Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6505 | Hot Oil Skid Drain Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6555 | CO2 Vent Stack Skid Drain Sump Pump | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.09 | 0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6605 | Residue Compressor Skid Drain Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6655 | IA Compressor Drain Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-2402, P-2403 | TEG Booster Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-2504 | TEG Diaphragm Condensate Drum Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-600, P-601, P-602 | Product Charge Pump | RH2-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.27 | <0.01 | 0.75 | <0.01 | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | <0.01 | <0.01 |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | RH2-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.20 | <0.01 | 0.56 | <0.01 | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | <0.01 | <0.01 |
| P-609 | Methanol Injection Pump | N/A | -- | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-654 | Expander Lube Oil Makeup Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-781A, P-781B | HMO Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7760 | Methanol Injection Pump | N/A | -- | 0.03 | <0.01 | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0201, F-0202 | Amine Carbon Filter | N/A | -- | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1225 | Amine Inlet Gas Filter Coalescer | RH2-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.30 | -- | 5.16 | -- | 2.39 | -- | <0.01 | -- | <0.01 | -- | 0.05 | -- | 35.76 | -- | 5.37 | 7.45 |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | RH2-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.30 | -- | 5.16 | -- | 2.39 | -- | <0.01 | -- | <0.01 | -- | 0.05 | -- | 35.76 | -- | 5.37 | 7.45 |
| F-441 | Inlet Filter Coalescer | N/A | -- | 68.92 | -- | <0.01 | -- | 1.47 | -- | 20.64 | -- | 154.82 | 124.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2202 | TEG Carbon Filter | N/A | -- | 0.09 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0203, F-0204 | Amine Rich Solids Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-445, F-446 | Mol Sieve Dust Filter | N/A | -- | 32.07 | 0.06 | <0.01 | <0.01 | 0.68 | <0.01 | 9.60 | 0.02 | 72.04 | 26.86 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0200 | Pre-Carbon Solids Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0305 | Amine Lean Solids Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0805 | Hot Oil Filter | N/A | -- | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2201 | TEG Pre-Carbon Filter | N/A | -- | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2203 | TEG Rich Soilds Filter | N/A | -- | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2401 | TEG Lean Soilds Filter | N/A | -- | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1530 | Seal Gas Filter | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.21 | <0.01 | 0.05 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **Train 2 Vented SSM** | | **165.63** | **0.19** | **0.02** | **<0.01** | **3.73** | **<0.01** | **1,772.98** | **3.50** | **754.56** | **253.20** | | | | | | | | | | | | | | | | |
| | | **RH2-FL-5100** | | | | | | | | | | | | **11.93** | **0.02** | **47.51** | **0.07** | **67.86** | **0.13** | **0.01** | **--** | **<0.01** | **--** | **0.10** | **--** | **71.60** | **<0.01** | **10.73** | **14.90** |

*Activity durations are conservative estimates.

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Train 3**

| Equipment ID | Equipment Description | Service | Equip. Volume | Mixture Vapor Press. | 1st Step Press. | 2nd Step Press. | 3rd Step Press. | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled $H_2S$ Emissions | | Uncontrolled HAP Emissions | | Uncontrolled $CO_2$ Emissions | | Uncontrolled $CH_4$ Emissions | | Flared? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | |
| HAL-1475-IC-1, HAL-1500-IC-1, HAL-1550-IC-1, HAL-1575-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | - | 62.91 | 163 | 313 | 5,129 | 17.87 | 241.85 | 1.00 | 4.00 | <0.01 | - | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 187.55 | 0.38 | 42.06 | <0.01 | N | N/A |
| HAL-1475-AC-1, HAL-1500-AC-1, HAL-1550-AC-1, HAL-1575-AC-1 | Residue Compressor Aftercooler | Residue Gas | 126.72 | - | 62.91 | 163 | 313 | 4,645 | 17.87 | 219.04 | 1.00 | 4.00 | <0.01 | - | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 169.86 | 0.34 | 38.09 | <0.01 | N | N/A |
| C-161, C-162, C-163 | Refrigerant Compressor | Propane | 973.73 | 174.83 | 62.91 | 163 | 175 | 26,546 | 44.10 | 3088.71 | 1.00 | 4.00 | 100.00 | 2516.00 | 3088.71 | 6.18 | - | - | - | - | - | - | - | - | Y | Flare |
| C-1475, C-1500, C-1550, C-1575 | Residue Compressor | Residue Gas | 1011.48 | - | 62.91 | 163 | 313 | 37,079 | 17.87 | 1748.37 | 1.00 | 4.00 | <0.01 | - | 0.10 | <0.01 | 0.01 | <0.01 | 0.10 | <0.01 | 1355.82 | 2.71 | 304.02 | <0.01 | N | N/A |
| EC-101 | Expander/Compressor | Inlet Gas | 122.34 | - | 62.91 | 163 | 313 | 4,485 | 22.73 | 269.03 | 1.00 | 4.00 | 23.25 | - | 62.56 | 0.13 | <0.01 | <0.01 | 1.33 | <0.01 | 18.73 | 0.04 | 140.54 | 102.23 | N | N/A |
| C-141 | Regen Gas Compressor | Inlet Gas | 2.54 | - | 62.91 | 163 | 313 | 93 | 22.73 | 5.58 | 1.00 | 4.00 | 23.25 | - | 1.30 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.39 | <0.01 | 2.92 | 0.04 | N | N/A |
| P-5050 | Flare KO Pump | Condensate | 1.28 | 6.80 | 6.80 | 7 | 7 | 2 | 93.55 | 0.44 | 1.00 | 4.00 | 95.47 | - | 0.42 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | N | N/A |
| P-6601, P-6602 | TEG Main Solution Pump | Glycol | 2.61 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-6605 | Residue Compressor Skid Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-6402, P-6403 | TEG Booster Pump | Glycol | 1.32 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-6504 | BTEX Pump | Glycol | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-600, P-601, P-602 | Product Charge Pump | Y-Grade | 13.11 | 397.30 | 62.91 | 163 | 313 | 481 | 40.97 | 51.94 | 1.00 | 4.00 | 71.97 | 1020.00 | 37.38 | 0.07 | - | - | - | - | 0.05 | <0.01 | 0.05 | 0.06 | Y | Flare |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | Y-Grade | 9.85 | 397.30 | 62.91 | 163 | 313 | 361 | 40.97 | 39.02 | 1.00 | 4.00 | 71.97 | 1020.00 | 28.09 | 0.06 | - | - | - | - | 0.04 | <0.01 | 0.03 | 0.03 | Y | Flare |
| P-609 | Methanol Injection Pump | Methanol | 0.11 | 4.05 | 4.05 | 4 | 4 | 0 | 32.04 | 0.01 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | - | - | N | N/A |
| P-654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-781A, P-781B | HMO Pump | Hot Oil | 2.00 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-7760 | Methanol Injection Pump | Methanol | 0.38 | 4.05 | 4.05 | 4 | 4 | 0 | 32.04 | 0.03 | 1.00 | 4.00 | 100.00 | - | 0.03 | <0.01 | - | - | 0.03 | <0.01 | - | - | - | - | N | N/A |
| F-1530 | Seal Gas Filter | Residue Gas | 0.16 | - | 62.91 | 163 | 313 | 6 | 17.87 | 0.28 | 1.00 | 4.00 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.21 | <0.01 | 0.05 | <0.01 | N | N/A |
| F-441 | Inlet Filter Coalescer | Inlet Gas | 134.77 | - | 62.91 | 163 | 313 | 4,941 | 22.73 | 296.36 | 1.00 | 4.00 | 23.25 | - | 68.92 | 0.14 | <0.01 | <0.01 | 1.47 | <0.01 | 20.64 | 0.04 | 154.82 | 124.06 | N | N/A |
| F-6201 | TEG Pre-Carbon Filter | Glycol | 1.60 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 52.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-6202 | TEG Carbon Filter | Glycol | 105.83 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.09 | 1.00 | 4.00 | 100.00 | - | 0.09 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-6203 | TEG Rich Soilds Filter | Glycol | 1.60 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 52.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-6401 | TEG Lean Soilds Filter | Glycol | 1.60 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 52.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-1235 | Amine Inlet Gas Filter Coalescer | Inlet Gas | 121.19 | - | 62.91 | 163 | 313 | 4,443 | 22.73 | 266.49 | 1.00 | 4.00 | 23.25 | 1097.43 | 61.97 | 0.12 | <0.01 | <0.01 | 1.32 | <0.01 | 18.56 | 0.04 | 139.22 | 100.31 | Y | Flare |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | Inlet Gas | 121.19 | - | 62.91 | 163 | 313 | 4,443 | 22.73 | 266.49 | 1.00 | 4.00 | 23.25 | 1097.43 | 61.97 | 0.12 | <0.01 | <0.01 | 1.32 | <0.01 | 18.56 | 0.04 | 139.22 | 100.31 | Y | Flare |
| F-445, F-446 | Mol Sieve Dust Filter | Inlet Gas | 62.72 | - | 62.91 | 163 | 313 | 2,299 | 22.73 | 137.91 | 1.00 | 4.00 | 23.25 | - | 32.07 | 0.06 | <0.01 | <0.01 | 0.68 | <0.01 | 9.60 | 0.02 | 72.04 | 26.86 | N | N/A |

*Activity durations are conservative estimates.

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Train 3**

| | | | | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Equipment ID** | **Equipment Description** | **Control Device** | **DRE (%)** | **Vented VOC Emissions** | | **Vented $H_2S$ Emissions** | | **Vented HAP Emissions** | | **Vented $CO_2$ Emissions** | | **Vented $CH_4$ Emissions** | | **$NO_x$ Emissions** | | **CO Emissions** | | **Controlled VOC Emissions** | | **Controlled $SO_2$ Emissions** | | **Controlled $H_2S$ Emissions** | | **Controlled HAP Emissions** | | **Controlled $CO_2$ Emissions** | | **Controlled $CH_4$ Emissions** | |
| | | | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** |
| HAL-1475-IC-1, HAL-1500-IC-1, HAL-1550-IC-1, HAL-1575-IC-1 | Residue Compressor Intercooler | N/A | -- | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 187.55 | 0.38 | 42.06 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1475-AC-1, HAL-1500-AC-1, HAL-1550-AC-1, HAL-1575-AC-1 | Residue Compressor Aftercooler | N/A | -- | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 169.86 | 0.34 | 38.09 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-161, C-162, C-163 | Refrigerant Compressor | RH3-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.22 | 0.02 | 36.71 | 0.07 | 61.77 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1475, C-1500, C-1550, C-1575 | Residue Compressor | N/A | -- | 0.10 | <0.01 | 0.01 | <0.01 | 0.10 | <0.01 | 1,355.82 | 2.71 | 304.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EC-101 | Expander/Compressor | N/A | -- | 62.56 | 0.13 | <0.01 | <0.01 | 1.33 | <0.01 | 18.73 | 0.04 | 140.54 | 102.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-141 | Regen Gas Compressor | N/A | -- | 1.30 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.39 | <0.01 | 2.92 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5050 | Flare KO Pump | N/A | -- | 0.42 | <0.01 | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6601, P-6602 | TEG Main Solution Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6605 | Residue Compressor Skid Drain Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6402, P-6403 | TEG Booster Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6504 | BTEX Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-600, P-601, P-602 | Product Charge Pump | RH3-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.27 | <0.01 | 0.75 | <0.01 | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | <0.01 | <0.01 |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | RH3-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.20 | <0.01 | 0.56 | <0.01 | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | <0.01 | <0.01 |
| P-609 | Methanol Injection Pump | N/A | -- | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-654 | Expander Lube Oil Makeup Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-781A, P-781B | HMO Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7760 | Methanol Injection Pump | N/A | -- | 0.03 | <0.01 | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1530 | Seal Gas Filter | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.21 | <0.01 | 0.05 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-441 | Inlet Filter Coalescer | N/A | -- | 68.92 | 0.14 | <0.01 | <0.01 | 1.47 | <0.01 | 20.64 | 0.04 | 154.82 | 124.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6201 | TEG Pre-Carbon Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6202 | TEG Carbon Filter | N/A | -- | 0.09 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6203 | TEG Rich Soilds Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6401 | TEG Lean Soilds Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1235 | Amine Inlet Gas Filter Coalescer | RH2-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.67 | <0.01 | 2.68 | <0.01 | 1.24 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 18.56 | 0.04 | 2.78 | 2.01 |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | RH2-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.67 | <0.01 | 2.68 | <0.01 | 1.24 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 18.56 | 0.04 | 2.78 | 2.01 |
| F-445, F-446 | Mol Sieve Dust Filter | N/A | -- | 32.07 | 0.06 | <0.01 | <0.01 | 0.68 | <0.01 | 9.60 | 0.02 | 72.04 | 26.86 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **Train 3 Vented SSM** | | **165.53** | **0.33** | **0.02** | **<0.01** | **3.72** | **<0.01** | **1,762.81** | **3.53** | **754.55** | **253.20** | | | | | | | | | | | | | | | | |
| | | **RH2-FL-5100** | | | | | | | | | | | | **1.35** | **<0.01** | **5.36** | **0.01** | **2.48** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.05** | **<0.01** | **37.11** | **0.07** | **5.57** | **4.01** |
| | | **RH3-FL-5100** | | | | | | | | | | | | **9.34** | **0.02** | **37.18** | **0.07** | **63.08** | **0.13** | **--** | **--** | **--** | **--** | **--** | **--** | **0.08** | **<0.01** | **<0.01** | **<0.01** |

*Activity durations are conservative estimates.

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Train 4**

| Equipment ID | Equipment Description | Service | Equip. Volume | Mixture Vapor Press. | 1st Step Press. | 2nd Step Press. | 3rd Step Press. | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled $H_2S$ Emissions | | Uncontrolled HAP Emissions | | Uncontrolled $CO_2$ Emissions | | Uncontrolled $CH_4$ Emissions | | Flared? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | - | 62.91 | 163 | 313 | 5,129 | 17.87 | 241.85 | 1.00 | 4.00 | <0.01 | - | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 187.55 | 0.38 | 42.06 | <0.01 | N | N/A |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | Residue Gas | 126.72 | - | 62.91 | 163 | 313 | 4,645 | 17.87 | 219.04 | 1.00 | 4.00 | <0.01 | - | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 169.86 | 0.34 | 38.09 | <0.01 | N | N/A |
| C-161, C-162, C-163 | Refrigerant Compressor | Propane | 973.73 | 174.83 | 62.91 | 163 | 175 | 26,546 | 44.10 | 3088.71 | 1.00 | 4.00 | 100.00 | 2516.00 | 3088.71 | 6.18 | - | - | - | - | - | - | - | - | Y | Flare |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1011.48 | - | 62.91 | 163 | 313 | 37,079 | 17.87 | 1748.37 | 1.00 | 4.00 | <0.01 | - | 0.10 | <0.01 | 0.01 | <0.01 | 0.10 | <0.01 | 1355.82 | 2.71 | 304.02 | <0.01 | N | N/A |
| EC-101 | Expander/Compressor | Inlet Gas | 122.34 | - | 62.91 | 163 | 313 | 4,485 | 22.73 | 269.03 | 1.00 | 4.00 | 23.25 | - | 62.56 | 0.13 | <0.01 | <0.01 | 1.33 | <0.01 | 18.73 | 0.04 | 140.54 | 102.23 | N | N/A |
| C-141 | Regen Gas Compressor | Inlet Gas | 2.54 | - | 62.91 | 163 | 313 | 93 | 22.73 | 5.58 | 1.00 | 4.00 | 23.25 | - | 1.30 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.39 | <0.01 | 2.92 | 0.04 | N | N/A |
| P-45050 | Flare KO Pump | Condensate | 1.28 | 6.80 | 6.80 | 7 | 7 | 2 | 93.55 | 0.44 | 1.00 | 4.00 | 95.47 | - | 0.42 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | N | N/A |
| P-47015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-45515 | CO2 Vent Scrubber Pump | Low C Acid Gas | 1.28 | - | 62.91 | 163 | 313 | 47 | 42.33 | 5.24 | 1.00 | 4.00 | 0.10 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.09 | 0.01 | <0.01 | <0.01 | N | N/A |
| P-47035 | Glycol Storage Pump | Glycol | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-3802, P-3803, P-3804 | Hot Oil Pump | Hot Oil | 17.88 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.02 | 1.00 | 4.00 | 100.00 | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-3303, P-3304 | Amine Booster Pump | Amine | 6.66 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-3605 | Defoaming Pump | Amine | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-47021 | Amine Make Up Pump | Amine | 0.72 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-3702, P-3703, P-3704 | Amine Main Solution Pump | Amine | 8.90 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.01 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-3603, P-3604 | Reflux Pump | Amine | 1.08 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-46305 | Amine Process Drain Tank Pump | Amine | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-46355 | Amine Area Sump Pump | Amine | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-5601, P-5602 | TEG Main Solution Pump | Glycol | 2.61 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-46405 | Glycol Process Drain Sump Pump | Glycol | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-46455 | Glycol Area Sump Pump | Glycol | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-46505 | Amine HMO Area Sump Pump | Hot Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-46555 | CO2 Vent Stack Area Sump Pump | Low C Acid Gas | 1.28 | - | 62.91 | 163 | 313 | 47 | 42.33 | 5.24 | 1.00 | 4.00 | 0.10 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.09 | 0.01 | <0.01 | <0.01 | N | N/A |
| P-46605 | Residue Compressor Area Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-46755 | Cryo HMO Skid Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-46705 | Cryo / Refrig Area Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-5402, P-5403 | TEG Booster Pump | Glycol | 1.32 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-5504 | TEG Diaphragm Condensate Drum Pump | Glycol | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-600, P-601, P-602 | Product Charge Pump | Y-Grade | 13.11 | 397.30 | 62.91 | 163 | 313 | 481 | 40.97 | 51.94 | 1.00 | 4.00 | 71.97 | 1020.00 | 37.38 | 0.07 | - | - | - | - | 0.05 | <0.01 | 0.05 | 0.06 | Y | Flare |
| P-41600, P-41650, P-41700 | NGL Pipeline Pump | Y-Grade | 9.85 | 397.30 | 62.91 | 163 | 313 | 361 | 40.97 | 39.02 | 1.00 | 4.00 | 71.97 | 1020.00 | 28.09 | 0.06 | - | - | - | - | 0.04 | <0.01 | 0.03 | 0.03 | Y | Flare |
| P-609 | Methanol Injection Pump | Methanol | 0.11 | 4.05 | 4.05 | 4 | 4 | 0 | 32.04 | 0.01 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | - | - | N | N/A |
| P-654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-781A, P-781B | HMO Pump | Hot Oil | 2.00 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-606, P-607 | Demethanizer Reflux Pump | Y-Grade | 1.66 | 397.30 | 62.91 | 163 | 313 | 61 | 40.97 | 6.56 | 1.00 | 4.00 | 71.97 | 1020.00 | 4.72 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare |
| P-47760 | Methanol Injection Pump | Methanol | 0.38 | 4.05 | 4.05 | 4 | 4 | 0 | 32.04 | 0.03 | 1.00 | 4.00 | 100.00 | - | 0.03 | <0.01 | - | - | 0.03 | <0.01 | - | - | - | - | N | N/A |
| F-41530 | Seal Gas Filter | Residue Gas | 0.16 | - | 62.91 | 163 | 313 | 6 | 17.87 | 0.28 | 1.00 | 4.00 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.21 | <0.01 | 0.05 | <0.01 | N | N/A |
| F-441 | Inlet Filter Coalescer | Inlet Gas | 134.77 | - | 62.91 | 163 | 313 | 4,941 | 22.73 | 296.36 | 1.00 | 4.00 | 23.25 | - | 68.92 | 0.14 | <0.01 | <0.01 | 1.47 | <0.01 | 20.64 | 0.04 | 154.82 | 124.06 | N | N/A |
| F-408 | Residue Gas Filter/Coalescer | Residue Gas | 16.85 | - | 62.91 | 163 | 313 | 618 | 17.87 | 29.12 | 1.00 | 4.00 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 22.58 | 0.05 | 5.06 | <0.01 | N | N/A |
| F-3200 | Pre-Carbon Solids Filter | Amine | 31.68 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.02 | 1.00 | 52.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-3201, F-3202 | Amine Carbon Filter | Amine | 1105.84 | 0.01 | 0.01 | 0 | 0 | 2 | 105.14 | 0.63 | 1.00 | 4.00 | 5.00 | - | 0.03 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-3203, F-3204 | Amine Rich Solids Filter | Amine | 63.36 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.04 | 1.00 | 52.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-3305 | Amine Lean Solids Filter | Amine | 31.68 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.02 | 1.00 | 52.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-3805 | Hot Oil Filter | Hot Oil | 24.25 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.03 | 1.00 | 52.00 | 100.00 | - | 0.03 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-5201 | TEG Pre-Carbon Filter | Glycol | 1.60 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 52.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-5202 | TEG Carbon Filter | Glycol | 105.83 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.09 | 1.00 | 4.00 | 100.00 | - | 0.09 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-5203 | TEG Rich Soilds Filter | Glycol | 1.60 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 52.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-5401 | TEG Lean Soilds Filter | Glycol | 1.60 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 52.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-41001A, F-41001B | Condensate Filter | Condensate | 48.38 | 6.80 | 6.80 | 7 | 7 | 67 | 93.55 | 16.58 | 1.00 | 52.00 | 95.47 | 3394.62 | 15.83 | 0.41 | - | - | 1.62 | 0.04 | - | - | - | - | Y | Flare |
| F-41225 | Amine Inlet Gas Filter Coalescer | Inlet Gas | 148.17 | - | 62.91 | 163 | 313 | 5,431 | 22.73 | 325.81 | 1.00 | 4.00 | 23.25 | 1097.43 | 75.76 | 0.15 | <0.01 | <0.01 | 1.61 | <0.01 | 22.69 | 0.05 | 170.21 | 149.94 | Y | Flare |
| F-41275 | Glycol Contactor Inlet Gas Filter Coalescer | Inlet Gas | 148.17 | - | 62.91 | 163 | 313 | 5,431 | 22.73 | 325.81 | 1.00 | 4.00 | 23.25 | 1097.43 | 75.76 | 0.15 | <0.01 | <0.01 | 1.61 | <0.01 | 22.69 | 0.05 | 170.21 | 149.94 | Y | Flare |
| F-41500 | Fuel Gas Filter Coalescer | Residue Gas | 17.33 | - | 62.91 | 163 | 313 | 635 | 17.87 | 29.96 | 1.00 | 4.00 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 23.23 | 0.05 | 5.21 | <0.01 | N | N/A |
| F-445, F-446 | Mol Sieve Dust Filter | Inlet Gas | 62.72 | - | 62.91 | 163 | 313 | 2,299 | 22.73 | 137.91 | 1.00 | 4.00 | 23.25 | - | 32.07 | 0.06 | <0.01 | <0.01 | 0.68 | <0.01 | 9.60 | 0.02 | 72.04 | 26.86 | N | N/A |

*Activity durations are conservative estimates.

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Train 4**

| | | | | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Equipment ID** | **Equipment Description** | **Control Device** | **DRE (%)** | **Vented VOC Emissions** | | **Vented $H_2S$ Emissions** | | **Vented HAP Emissions** | | **Vented $CO_2$ Emissions** | | **Vented $CH_4$ Emissions** | | **$NO_x$ Emissions** | | **CO Emissions** | | **Controlled VOC Emissions** | | **Controlled $SO_2$ Emissions** | | **Controlled $H_2S$ Emissions** | | **Controlled HAP Emissions** | | **Controlled $CO_2$ Emissions** | | **Controlled $CH_4$ Emissions** | |
| | | | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | N/A | -- | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 187.55 | 0.38 | 42.06 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | N/A | -- | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 169.86 | 0.34 | 38.09 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-161, C-162, C-163 | Refrigerant Compressor | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.22 | 0.02 | 36.71 | 0.07 | 61.77 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | N/A | -- | 0.10 | <0.01 | 0.01 | <0.01 | 0.10 | <0.01 | 1,355.82 | 2.71 | 304.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EC-101 | Expander/Compressor | N/A | -- | 62.56 | 0.13 | <0.01 | <0.01 | 1.33 | <0.01 | 18.73 | 0.04 | 140.54 | 102.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-141 | Regen Gas Compressor | N/A | -- | 1.30 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.39 | <0.01 | 2.92 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-45050 | Flare KO Pump | N/A | -- | 0.42 | <0.01 | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-47015 | Residue Compressor Lube Oil Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-45515 | CO2 Vent Scrubber Pump | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.09 | 0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-47035 | Glycol Storage Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3802, P-3803, P-3804 | Hot Oil Pump | N/A | -- | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3303, P-3304 | Amine Booster Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3605 | Defoaming Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-47021 | Amine Make Up Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3702, P-3703, P-3704 | Amine Main Solution Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3603, P-3604 | Reflux Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46305 | Amine Process Drain Tank Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46355 | Amine Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5601, P-5602 | TEG Main Solution Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46405 | Glycol Process Drain Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46455 | Glycol Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46505 | Amine HMO Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46555 | CO2 Vent Stack Area Sump Pump | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.09 | 0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46605 | Residue Compressor Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46755 | Cryo HMO Skid Drain Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46705 | Cryo / Refrig Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5402, P-5403 | TEG Booster Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5504 | TEG Diaphragm Condensate Drum Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-600, P-601, P-602 | Product Charge Pump | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.27 | <0.01 | 0.75 | <0.01 | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | <0.01 | <0.01 |
| P-41600, P-41650, P-41700 | NGL Pipeline Pump | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.20 | <0.01 | 0.56 | <0.01 | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | <0.01 | <0.01 |
| P-609 | Methanol Injection Pump | N/A | -- | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-654 | Expander Lube Oil Makeup Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-781A, P-781B | HMO Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-606, P-607 | Demethanizer Reflux Pump | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | 0.09 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| P-47760 | Methanol Injection Pump | N/A | -- | 0.03 | <0.01 | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-41530 | Seal Gas Filter | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.21 | <0.01 | 0.05 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-441 | Inlet Filter Coalescer | N/A | -- | 68.92 | 0.14 | <0.01 | <0.01 | 1.47 | <0.01 | 20.64 | 0.04 | 154.82 | 124.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-408 | Residue Gas Filter/Coalescer | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 22.58 | 0.05 | 5.06 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3200 | Pre-Carbon Solids Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3201, F-3202 | Amine Carbon Filter | N/A | -- | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3203, F-3204 | Amine Rich Solids Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3305 | Amine Lean Solids Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3805 | Hot Oil Filter | N/A | -- | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5201 | TEG Pre-Carbon Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5202 | TEG Carbon Filter | N/A | -- | 0.09 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5203 | TEG Rich Soilds Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5401 | TEG Lean Soilds Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-41001A, F-41001B | Condensate Filter | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | 0.13 | <0.01 | 0.32 | <0.01 | -- | -- | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- |
| F-41225 | Amine Inlet Gas Filter Coalescer | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.82 | <0.01 | 3.28 | <0.01 | 1.52 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 22.69 | 0.05 | 3.40 | 3.00 |
| F-41275 | Glycol Contactor Inlet Gas Filter Coalescer | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.82 | <0.01 | 3.28 | <0.01 | 1.52 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 22.69 | 0.05 | 3.40 | 3.00 |
| F-41500 | Fuel Gas Filter Coalescer | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 23.23 | 0.05 | 5.21 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-445, F-446 | Mol Sieve Dust Filter | N/A | -- | 32.07 | 0.06 | <0.01 | <0.01 | 0.68 | <0.01 | 9.60 | 0.02 | 72.04 | 26.86 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **Train 4 Vented SSM** | | **165.63** | **0.33** | **0.02** | **<0.01** | **3.73** | **<0.01** | **1,818.80** | **3.64** | **764.83** | **253.20** | | | | | | | | | | | | | | | | |
| | | **RH4-FL-45100** | | | | | | | | | | | | **11.02** | **0.02** | **43.89** | **0.09** | **66.52** | **0.14** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.10** | **<0.01** | **45.46** | **0.09** | **6.81** | **6.00** |

*Activity durations are conservative estimates.

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Train 5**

| Equipment ID | Equipment Description | Service | Equip. Volume | Mixture Vapor Press. | 1st Step Press. | 2nd Step Press. | 3rd Step Press. | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled $H_2S$ Emissions | | Uncontrolled HAP Emissions | | Uncontrolled $CO_2$ Emissions | | Uncontrolled $CH_4$ Emissions | | Flared? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | - | 62.91 | 163 | 313 | 5,129 | 17.87 | 241.85 | 1.00 | 4.00 | <0.01 | - | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 187.55 | 0.38 | 42.06 | <0.01 | N | N/A |
| C-50161, C-50162, C-50163 | Refrigerant Compressor | Propane | 973.73 | 174.83 | 62.91 | 163 | 175 | 26,546 | 44.10 | 3088.71 | 1.00 | 4.00 | 100.00 | 2516.00 | 3088.71 | 6.18 | - | - | - | - | - | - | - | - | Y | Flare |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1011.48 | - | 62.91 | 163 | 313 | 37,079 | 17.87 | 1748.37 | 1.00 | 4.00 | <0.01 | - | 0.10 | <0.01 | 0.01 | <0.01 | 0.10 | <0.01 | 1355.82 | 2.71 | 304.02 | <0.01 | N | N/A |
| EC-50101 | Expander/Compressor | Inlet Gas | 122.34 | - | 62.91 | 163 | 313 | 4,485 | 22.73 | 269.03 | 1.00 | 4.00 | 23.25 | - | 62.56 | 0.13 | <0.01 | <0.01 | 1.33 | <0.01 | 18.73 | 0.04 | 140.54 | 102.23 | N | N/A |
| C-50141 | Regen Gas Compressor | Inlet Gas | 2.54 | - | 62.91 | 163 | 313 | 93 | 22.73 | 5.58 | 1.00 | 4.00 | 23.25 | - | 1.30 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.39 | <0.01 | 2.92 | 0.04 | N | N/A |
| P-55050 | Flare KO Pump | Condensate | 1.28 | 6.80 | 6.80 | 7 | 7 | 2 | 93.55 | 0.44 | 1.00 | 4.00 | 95.47 | - | 0.42 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | N | N/A |
| P-57015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-55515 | CO2 Vent Scrubber Pump | Low C Acid Gas | 1.28 | - | 62.91 | 163 | 313 | 47 | 42.33 | 5.24 | 1.00 | 4.00 | 0.10 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.09 | 0.01 | <0.01 | <0.01 | N | N/A |
| P-57035 | Glycol Storage Pump | Glycol | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-53802, P-53803, P-53804 | HMO Pump | Hot Oil | 17.88 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.02 | 1.00 | 4.00 | 100.00 | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-53302, P-53303 | Amine Booster Pump | Amine | 6.66 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-53605, P-53705 | Defoaming Pump | Amine | 2.56 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-57021 | Amine Make Up Pump | Amine | 0.72 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-53702, P-53703, P-53704 | Amine Main Solution Pump | Amine | 8.90 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.01 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-53603, P-53604 | Reflux Pump | Amine | 1.08 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-56305 | Amine Process Drain Tank Pump | Amine | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-56355 | Amine Area Sump Pump | Amine | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-55601, P-55602 | TEG Circulation Pumps | Glycol | 2.61 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-56405 | Glycol Process Drain Sump Pump | Glycol | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-56455 | Glycol Area Sump Pump | Glycol | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-56505 | Amine HMO Area Sump Pump | Hot Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-56555 | CO2 Vent Stack Area Sump Pump | Low C Acid Gas | 1.28 | - | 62.91 | 163 | 313 | 47 | 42.33 | 5.24 | 1.00 | 4.00 | 0.10 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.09 | 0.01 | <0.01 | <0.01 | N | N/A |
| P-56605 | Residue Compressor Area Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-56755 | Cryo HMO Skid Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-56705 | Cryo / Refrig Area Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-55402, P-55403 | TEG Booster Pump | Glycol | 1.32 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-55504 | BTEX Pump | Glycol | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-50600, P-50601, P-50602 | Product Charge Pump | Y-Grade | 13.11 | 397.30 | 62.91 | 163 | 313 | 481 | 40.97 | 51.94 | 1.00 | 4.00 | 71.97 | 1020.00 | 37.38 | 0.07 | - | - | - | - | 0.05 | <0.01 | 0.05 | 0.06 | Y | Flare |
| P-51600, P-51650, P-51700 | NGL Pipeline Pump | Y-Grade | 9.85 | 397.30 | 62.91 | 163 | 313 | 361 | 40.97 | 39.02 | 1.00 | 4.00 | 71.97 | 1020.00 | 28.09 | 0.06 | - | - | - | - | 0.04 | <0.01 | 0.03 | 0.03 | Y | Flare |
| P-50609 | Methanol Injection Pump | Methanol | 0.11 | 4.05 | 4.05 | 4 | 4 | 0 | 32.04 | 0.01 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | - | - | N | N/A |
| P-50654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-50781A, P-50781B | HMO Pump | Hot Oil | 2.00 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-51530 | Seal Gas Filter | Residue Gas | 0.16 | - | 62.91 | 163 | 313 | 6 | 17.87 | 0.28 | 1.00 | 4.00 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.21 | <0.01 | 0.05 | <0.01 | N | N/A |
| F-50441 | Inlet Filter Coalescer | Inlet Gas | 134.77 | - | 62.91 | 163 | 313 | 4,941 | 22.73 | 296.36 | 1.00 | 4.00 | 23.25 | - | 68.92 | 0.14 | <0.01 | <0.01 | 1.47 | <0.01 | 20.64 | 0.04 | 154.82 | 124.06 | N | N/A |
| F-50408 | Residue Gas Filter/Coalescer | Residue Gas | 16.85 | - | 62.91 | 163 | 313 | 618 | 17.87 | 29.12 | 1.00 | 4.00 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 22.58 | 0.05 | 5.06 | <0.01 | N | N/A |
| F-53200 | Pre-Carbon Solids Filter | Amine | 31.68 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.02 | 1.00 | 52.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-53201, F-53202 | Amine Carbon Filter | Amine | 1727.88 | 0.01 | 0.01 | 0 | 0 | 4 | 105.14 | 0.98 | 1.00 | 4.00 | 5.00 | - | 0.05 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-53203, F-53204 | Amine Rich Solids Filter | Amine | 63.36 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.04 | 1.00 | 52.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-53304 | Amine Lean Solids Filter | Amine | 55.16 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.03 | 1.00 | 52.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-53805 | HMO Filter | Hot Oil | 40.37 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.04 | 1.00 | 52.00 | 100.00 | - | 0.04 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-55201 | TEG Pre-Carbon Filter | Glycol | 1.75 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 52.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-55202 | TEG Carbon Filter | Glycol | 105.83 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.09 | 1.00 | 4.00 | 100.00 | - | 0.09 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-55203 | TEG Rich Soilds Filter | Glycol | 1.75 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 52.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-55401 | TEG Lean Soilds Filter | Glycol | 1.75 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 52.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-51225 | Inlet Filter Coalescer | Inlet Gas | 148.17 | - | 62.91 | 163 | 313 | 5,431 | 22.73 | 325.81 | 1.00 | 4.00 | 23.25 | 1097.43 | 75.76 | 0.15 | <0.01 | <0.01 | 1.61 | <0.01 | 22.69 | 0.05 | 170.21 | 149.94 | Y | Flare |
| F-51275 | Glycol Inlet Filter Coalescer | Inlet Gas | 148.17 | - | 62.91 | 163 | 313 | 5,431 | 22.73 | 325.81 | 1.00 | 4.00 | 23.25 | 1097.43 | 75.76 | 0.15 | <0.01 | <0.01 | 1.61 | <0.01 | 22.69 | 0.05 | 170.21 | 149.94 | Y | Flare |
| F-50445, F-50446 | Mol Sieve Dust Filter | Inlet Gas | 62.72 | - | 62.91 | 163 | 313 | 2,299 | 22.73 | 137.91 | 1.00 | 4.00 | 23.25 | - | 32.07 | 0.06 | <0.01 | <0.01 | 0.68 | <0.01 | 9.60 | 0.02 | 72.04 | 26.86 | N | N/A |

*Activity durations are conservative estimates.

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Train 5**

| | | | | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Equipment ID** | **Equipment Description** | **Control Device** | **DRE (%)** | **Vented VOC Emissions** | | **Vented $H_2S$ Emissions** | | **Vented HAP Emissions** | | **Vented $CO_2$ Emissions** | | **Vented $CH_4$ Emissions** | | **$NO_x$ Emissions** | | **CO Emissions** | | **Controlled VOC Emissions** | | **Controlled $SO_2$ Emissions** | | **Controlled $H_2S$ Emissions** | | **Controlled HAP Emissions** | | **Controlled $CO_2$ Emissions** | | **Controlled $CH_4$ Emissions** | |
| | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | N/A | -- | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 187.55 | 0.38 | 42.06 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-50161, C-50162, C-50163 | Refrigerant Compressor | RH5-FL-55100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.22 | 0.02 | 36.71 | 0.07 | 61.77 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | N/A | -- | 0.10 | <0.01 | 0.01 | <0.01 | 0.10 | <0.01 | 1,355.82 | 2.71 | 304.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EC-50101 | Expander/Compressor | N/A | -- | 62.56 | 0.13 | <0.01 | <0.01 | 1.33 | <0.01 | 18.73 | 0.04 | 140.54 | 102.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-50141 | Regen Gas Compressor | N/A | -- | 1.30 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.39 | <0.01 | 2.92 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-55050 | Flare KO Pump | N/A | -- | 0.42 | <0.01 | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-57015 | Residue Compressor Lube Oil Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-55515 | CO2 Vent Scrubber Pump | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.09 | 0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-57035 | Glycol Storage Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-53802, P-53803, P-53804 | HMO Pump | N/A | -- | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-53302, P-53303 | Amine Booster Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-53605, P-53705 | Defoaming Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-57021 | Amine Make Up Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-53702, P-53703, P-53704 | Amine Main Solution Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-53603, P-53604 | Reflux Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56305 | Amine Process Drain Tank Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56355 | Amine Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-55601, P-55602 | TEG Circulation Pumps | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56405 | Glycol Process Drain Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56455 | Glycol Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56505 | Amine HMO Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56555 | CO2 Vent Stack Area Sump Pump | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.09 | 0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56605 | Residue Compressor Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56755 | Cryo HMO Skid Drain Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56705 | Cryo / Refrig Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-55402, P-55403 | TEG Booster Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-55504 | BTEX Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-50600, P-50601, P-50602 | Product Charge Pump | RH5-FL-55100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.27 | <0.01 | 0.75 | <0.01 | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | <0.01 | <0.01 |
| P-51600, P-51650, P-51700 | NGL Pipeline Pump | RH5-FL-55100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.20 | <0.01 | 0.56 | <0.01 | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | <0.01 | <0.01 |
| P-50609 | Methanol Injection Pump | N/A | -- | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-50654 | Expander Lube Oil Makeup Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-50781A, P-50781B | HMO Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-51530 | Seal Gas Filter | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.21 | <0.01 | 0.05 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-50441 | Inlet Filter Coalescer | N/A | -- | 68.92 | 0.14 | <0.01 | <0.01 | 1.47 | <0.01 | 20.64 | 0.04 | 154.82 | 124.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-50408 | Residue Gas Filter/Coalescer | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 22.58 | 0.05 | 5.06 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53200 | Pre-Carbon Solids Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53201, F-53202 | Amine Carbon Filter | N/A | -- | 0.05 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53203, F-53204 | Amine Rich Solids Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53304 | Amine Lean Solids Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53805 | HMO Filter | N/A | -- | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55201 | TEG Pre-Carbon Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55202 | TEG Carbon Filter | N/A | -- | 0.09 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55203 | TEG Rich Soilds Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55401 | TEG Lean Soilds Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-51225 | Inlet Filter Coalescer | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.82 | <0.01 | 3.28 | <0.01 | 1.52 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 22.69 | 0.05 | 3.40 | 3.00 |
| F-51275 | Glycol Inlet Filter Coalescer | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.82 | <0.01 | 3.28 | <0.01 | 1.52 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 22.69 | 0.05 | 3.40 | 3.00 |
| F-50445, F-50446 | Mol Sieve Dust Filter | N/A | -- | 32.07 | 0.06 | <0.01 | <0.01 | 0.68 | <0.01 | 9.60 | 0.02 | 72.04 | 26.86 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **Train 5 Vented SSM** | | **101.20** | **0.20** | **<0.01** | **<0.01** | **2.16** | **<0.01** | **58.12** | **0.12** | **231.98** | **150.92** | | | | | | | | | | | | | | | | |
| | | **RH4-FL-45100** | | | | | | | | | | | | **1.65** | **<0.01** | **6.55** | **0.01** | **3.03** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.06** | **<0.01** | **45.37** | **0.09** | **6.81** | **6.00** |
| | | **RH5-FL-55100** | | | | | | | | | | | | **9.34** | **0.02** | **37.18** | **0.07** | **63.08** | **0.13** | **--** | **--** | **--** | **--** | **--** | **--** | **0.08** | **<0.01** | **<0.01** | **<0.01** |

*Activity durations are conservative estimates.

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Train 6**

| Equipment ID | Equipment Description | Service | Equip. Volume | Mixture Vapor Press. | 1st Step Press. | 2nd Step Press. | 3rd Step Press. | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled $H_2S$ Emissions | | Uncontrolled HAP Emissions | | Uncontrolled $CO_2$ Emissions | | Uncontrolled $CH_4$ Emissions | | Flared? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | - | 62.91 | 163 | 313 | 5,129 | 17.87 | 241.85 | 1.00 | 4.00 | <0.01 | - | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 187.55 | 0.38 | 42.06 | <0.01 | N | N/A |
| HAL-69300, HAL-69400 | Flash Gas Compressor Intercooler / Aftercooler | Inlet Gas | 48.06 | - | 62.91 | 163 | 313 | 1,762 | 22.73 | 105.67 | 1.00 | 4.00 | 23.25 | 1097.43 | 24.57 | 0.05 | <0.01 | <0.01 | 0.52 | <0.01 | 7.36 | 0.01 | 55.21 | 15.77 | Y | Flare |
| C-60161, C-60162, C-60163 | Refrigerant Compressor | Propane | 973.73 | 174.83 | 62.91 | 163 | 175 | 26,546 | 44.10 | 3088.71 | 1.00 | 4.00 | 100.00 | 2516.00 | 3088.71 | 6.18 | - | - | - | - | - | - | - | - | Y | Flare |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1011.48 | - | 62.91 | 163 | 313 | 37,079 | 17.87 | 1748.37 | 1.00 | 4.00 | <0.01 | - | 0.10 | <0.01 | 0.01 | <0.01 | 0.10 | <0.01 | 1355.82 | 2.71 | 304.02 | <0.01 | N | N/A |
| C-69300, C-69400 | Flash Gas Compressor | Inlet Gas | 151.91 | - | 62.91 | 163 | 313 | 5,569 | 22.73 | 334.04 | 1.00 | 4.00 | 23.25 | 1097.43 | 77.68 | 0.16 | <0.01 | <0.01 | 1.65 | <0.01 | 23.26 | 0.05 | 174.50 | 157.61 | Y | Flare |
| EC-60101 | Expander/Compressor | Inlet Gas | 122.34 | - | 62.91 | 163 | 313 | 4,485 | 22.73 | 269.03 | 1.00 | 4.00 | 23.25 | - | 62.56 | 0.13 | <0.01 | <0.01 | 1.33 | <0.01 | 18.73 | 0.04 | 140.54 | 102.23 | N | N/A |
| C-60141 | Regen Gas Compressor | Inlet Gas | 2.54 | - | 62.91 | 163 | 313 | 93 | 22.73 | 5.58 | 1.00 | 4.00 | 23.25 | - | 1.30 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.39 | <0.01 | 2.92 | 0.04 | N | N/A |
| P-67015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-67005 | Flash Gas Compressor Lube Oil Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-63802, P-63803, P-63804 | HMO Pump | Hot Oil | 17.88 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.02 | 1.00 | 4.00 | 100.00 | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-61500, P-61525 | Stabilizer NGL Booster Pump | Y-Grade | 9.55 | 397.30 | 62.91 | 163 | 313 | 350 | 40.97 | 37.83 | 1.00 | 4.00 | 71.97 | - | 27.23 | 0.05 | - | - | - | - | 0.03 | <0.01 | 0.03 | 0.03 | N | N/A |
| P-61550, P-61575 | Stabilizer NGL Pipeline Pump | Y-Grade | 5.09 | 397.30 | 62.91 | 163 | 313 | 187 | 40.97 | 20.18 | 1.00 | 4.00 | 71.97 | 1020.00 | 14.52 | 0.03 | - | - | - | - | 0.02 | <0.01 | 0.02 | <0.01 | Y | Flare |
| P-65601, P-65602 | TEG Circulation Pumps | Glycol | 2.61 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-66755 | Stabilizer Area Sump Pump | Condensate | 1.28 | 6.80 | 6.80 | 7 | 7 | 2 | 93.55 | 0.44 | 1.00 | 1.00 | 95.47 | - | 0.42 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | N | N/A |
| P-66805 | Stabilizer HMO Area Sump Pump | Hot Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 1.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-66605 | Residue Compressor Area Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-66850 | Flash Gas Compressor Area Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-66705 | Cryo / Refrig Area Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-65402, P-65403 | TEG Booster Pump | Glycol | 1.32 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-65504 | BTEX Pump | Glycol | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-60600, P-60601, P-60602 | Product Charge Pump | Y-Grade | 13.11 | 397.30 | 62.91 | 163 | 313 | 481 | 40.97 | 51.94 | 1.00 | 4.00 | 71.97 | 1020.00 | 37.38 | 0.07 | - | - | - | - | 0.05 | <0.01 | 0.05 | 0.06 | Y | Flare |
| P-61600, P-61650, P-61700 | NGL Pipeline Pump | Y-Grade | 9.85 | 397.30 | 62.91 | 163 | 313 | 361 | 40.97 | 39.02 | 1.00 | 4.00 | 71.97 | 1020.00 | 28.09 | 0.06 | - | - | - | - | 0.04 | <0.01 | 0.03 | 0.03 | Y | Flare |
| P-60609 | Methanol Injection Pump | Methanol | 0.11 | 4.05 | 4.05 | 4 | 4 | 0 | 32.04 | 0.01 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | - | - | N | N/A |
| P-60654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-60781A, P-60781B | HMO Pump | Hot Oil | 2.00 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-61530 | Seal Gas Filter | Residue Gas | 1.18 | - | 62.91 | 163 | 313 | 43 | 17.87 | 2.05 | 1.00 | 4.00 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.59 | <0.01 | 0.36 | <0.01 | N | N/A |
| F-60441 | Inlet Filter Coalescer | Inlet Gas | 134.77 | - | 62.91 | 163 | 313 | 4,941 | 22.73 | 296.36 | 1.00 | 4.00 | 23.25 | - | 68.92 | 0.14 | <0.01 | <0.01 | 1.47 | <0.01 | 20.64 | 0.04 | 154.82 | 124.06 | N | N/A |
| F-60408 | Residue Gas Filter/Coalescer | Residue Gas | 16.85 | - | 62.91 | 163 | 313 | 618 | 17.87 | 29.12 | 1.00 | 4.00 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 22.58 | 0.05 | 5.06 | <0.01 | N | N/A |
| F-62101, F-62102 | Condensate Filter | Condensate | 63.36 | 6.80 | 6.80 | 7 | 7 | 88 | 93.55 | 21.71 | 1.00 | 52.00 | 95.47 | 3394.62 | 20.72 | 0.54 | - | - | 2.12 | 0.06 | - | - | - | - | Y | Flare |
| F-63805 | HMO Filter | Hot Oil | 26.62 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.03 | 1.00 | 52.00 | 100.00 | - | 0.03 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-65201 | TEG Pre-Carbon Filter | Glycol | 1.75 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 52.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-65202 | TEG Carbon Filter | Glycol | 138.23 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.11 | 1.00 | 4.00 | 100.00 | - | 0.11 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-65203 | TEG Rich Soilds Filter | Glycol | 1.75 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 52.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-65401 | TEG Lean Soilds Filter | Glycol | 1.75 | 0.01 | 0.01 | 0 | 0 | 0 | 150.17 | 0.00 | 1.00 | 52.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-61225 | Inlet Filter Coalescer | Inlet Gas | 121.19 | - | 62.91 | 163 | 313 | 4,443 | 22.73 | 266.49 | 1.00 | 4.00 | 23.25 | 1097.43 | 61.97 | 0.12 | <0.01 | <0.01 | 1.32 | <0.01 | 18.56 | 0.04 | 139.22 | 100.31 | Y | Flare |
| F-61275 | Glycol Inlet Filter Coalescer | Inlet Gas | 121.19 | - | 62.91 | 163 | 313 | 4,443 | 22.73 | 266.49 | 1.00 | 4.00 | 23.25 | 1097.43 | 61.97 | 0.12 | <0.01 | <0.01 | 1.32 | <0.01 | 18.56 | 0.04 | 139.22 | 100.31 | Y | Flare |
| F-60445, F-60446 | Mol Sieve Dust Filter | Inlet Gas | 62.72 | - | 62.91 | 163 | 313 | 2,299 | 22.73 | 137.91 | 1.00 | 4.00 | 23.25 | - | 32.07 | 0.06 | <0.01 | <0.01 | 0.68 | <0.01 | 9.60 | 0.02 | 72.04 | 26.86 | N | N/A |

*Activity durations are conservative estimates.

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Train 6**

| | | | | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Equipment ID** | **Equipment Description** | **Control Device** | **DRE (%)** | **Vented VOC Emissions** | | **Vented $H_2S$ Emissions** | | **Vented HAP Emissions** | | **Vented $CO_2$ Emissions** | | **Vented $CH_4$ Emissions** | | **$NO_x$ Emissions** | | **CO Emissions** | | **Controlled VOC Emissions** | | **Controlled $SO_2$ Emissions** | | **Controlled $H_2S$ Emissions** | | **Controlled HAP Emissions** | | **Controlled $CO_2$ Emissions** | | **Controlled $CH_4$ Emissions** | |
| | | | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | N/A | -- | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 187.55 | 0.38 | 42.06 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-69300, HAL-69400 | Flash Gas Compressor Intercooler / Aftercooler | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.27 | <0.01 | 1.06 | <0.01 | 0.49 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 7.36 | 0.01 | 1.10 | 0.32 |
| C-60161, C-60162, C-60163 | Refrigerant Compressor | RH5-FL-55100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.22 | 0.02 | 36.71 | 0.07 | 61.77 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | N/A | -- | 0.10 | <0.01 | 0.01 | <0.01 | 0.10 | <0.01 | 1,355.82 | 2.71 | 304.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-69300, C-69400 | Flash Gas Compressor | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.84 | <0.01 | 3.36 | <0.01 | 1.55 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 23.26 | 0.05 | 3.49 | 3.15 |
| EC-60101 | Expander/Compressor | N/A | -- | 62.56 | 0.13 | <0.01 | <0.01 | 1.33 | <0.01 | 18.73 | 0.04 | 140.54 | 102.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-60141 | Regen Gas Compressor | N/A | -- | 1.30 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.39 | <0.01 | 2.92 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-67015 | Residue Compressor Lube Oil Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-67005 | Flash Gas Compressor Lube Oil Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-63802, P-63803, P-63804 | HMO Pump | N/A | -- | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-61500, P-61525 | Stabilizer NGL Booster Pump | N/A | -- | 27.23 | 0.05 | -- | -- | -- | -- | 0.03 | <0.01 | 0.03 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-61550, P-61575 | Stabilizer NGL Pipeline Pump | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | 0.10 | <0.01 | 0.29 | <0.01 | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | <0.01 | <0.01 |
| P-65601, P-65602 | TEG Circulation Pumps | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-66755 | Stabilizer Area Sump Pump | N/A | -- | 0.42 | <0.01 | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-66805 | Stabilizer HMO Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-66605 | Residue Compressor Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-66850 | Flash Gas Compressor Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-66705 | Cryo / Refrig Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-65402, P-65403 | TEG Booster Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-65504 | BTEX Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-60600, P-60601, P-60602 | Product Charge Pump | RH5-FL-55100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.27 | <0.01 | 0.75 | <0.01 | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | <0.01 | <0.01 |
| P-61600, P-61650, P-61700 | NGL Pipeline Pump | RH5-FL-55100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.20 | <0.01 | 0.56 | <0.01 | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | <0.01 | <0.01 |
| P-60609 | Methanol Injection Pump | N/A | -- | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-60654 | Expander Lube Oil Makeup Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-60781A, P-60781B | HMO Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-61530 | Seal Gas Filter | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.59 | <0.01 | 0.36 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-60441 | Inlet Filter Coalescer | N/A | -- | 68.92 | 0.14 | <0.01 | <0.01 | 1.47 | <0.01 | 20.64 | 0.04 | 154.82 | 124.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-60408 | Residue Gas Filter/Coalescer | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 22.58 | 0.05 | 5.06 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-62101, F-62102 | Condensate Filter | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | 0.16 | <0.01 | 0.41 | 0.01 | -- | -- | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- |
| F-63805 | HMO Filter | N/A | -- | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65201 | TEG Pre-Carbon Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65202 | TEG Carbon Filter | N/A | -- | 0.11 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65203 | TEG Rich Soilds Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65401 | TEG Lean Soilds Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-61225 | Inlet Filter Coalescer | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.67 | <0.01 | 2.68 | <0.01 | 1.24 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 18.56 | 0.04 | 2.78 | 2.01 |
| F-61275 | Glycol Inlet Filter Coalescer | RH4-FL-45100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.67 | <0.01 | 2.68 | <0.01 | 1.24 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 18.56 | 0.04 | 2.78 | 2.01 |
| F-60445, F-60446 | Mol Sieve Dust Filter | N/A | -- | 32.07 | 0.06 | <0.01 | <0.01 | 0.68 | <0.01 | 9.60 | 0.02 | 72.04 | 26.86 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| *Activity durations are conservative estimates. | | **Train 6 Vented SSM** | | **128.80** | **0.26** | **<0.01** | **<0.01** | **2.20** | **<0.01** | **54.44** | **0.11** | **232.32** | **150.96** | | | | | | | | | | | | | | | | |
| | | **RH4-FL-45100** | | | | | | | | | | | | **1.14** | **<0.01** | **4.53** | **<0.01** | **2.34** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.04** | **<0.01** | **30.64** | **0.06** | **4.59** | **3.47** |
| | | **RH5-FL-55100** | | | | | | | | | | | | **9.34** | **0.02** | **37.18** | **0.07** | **63.08** | **0.13** | **--** | **--** | **--** | **--** | **--** | **--** | **0.08** | **<0.01** | **<0.01** | **<0.01** |

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**FET-1**

| Equipment ID | Equipment Description | Service | Equip. Volume | Mixture Vapor Press. | 1st Step Press. | 2nd Step Press. | 3rd Step Press. | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled $H_2S$ Emissions | | Uncontrolled HAP Emissions | | Uncontrolled $CO_2$ Emissions | | Uncontrolled $CH_4$ Emissions | | Flared? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | |
| HAL-5530 | Acid Gas Compressor Intercooler / Aftercooler | Acid Gas | 9.20 | - | 62.91 | 163 | 313 | 337 | 41.22 | 36.69 | 1.00 | 4.00 | 0.05 | 75.39 | 0.02 | <0.01 | 3.23 | <0.01 | <0.01 | <0.01 | 32.36 | 0.06 | 0.03 | <0.01 | Y | Flare |
| HAL-5540 | Acid Gas Compressor Intercooler / Aftercooler | Acid Gas | 12.18 | - | 62.91 | 163 | 313 | 446 | 41.22 | 48.55 | 1.00 | 4.00 | 0.05 | 75.39 | 0.02 | <0.01 | 4.27 | <0.01 | <0.01 | <0.01 | 42.83 | 0.09 | 0.04 | <0.01 | Y | Flare |
| C-5530 | Acid Gas Compressor | Acid Gas | 47.60 | - | 62.91 | 163 | 313 | 1,745 | 41.22 | 189.77 | 1.00 | 4.00 | 0.05 | 75.39 | 0.09 | <0.01 | 16.70 | 0.03 | 0.02 | <0.01 | 167.40 | 0.33 | 0.15 | <0.01 | Y | Flare |
| C-5540 | Acid Gas Compressor | Acid Gas | 75.37 | - | 62.91 | 163 | 313 | 2,763 | 41.22 | 300.46 | 1.00 | 4.00 | 0.05 | 75.39 | 0.15 | <0.01 | 26.44 | 0.05 | 0.03 | <0.01 | 265.03 | 0.53 | 0.24 | <0.01 | Y | Flare |
| P-4304, P-4305 | Amine Booster Pumps | Amine | 6.66 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-4404, P-4405 | Reflux Pumps | Acid Gas | 1.08 | - | 62.91 | 163 | 313 | 39 | 41.22 | 4.29 | 1.00 | 4.00 | 0.05 | - | <0.01 | <0.01 | 0.38 | <0.01 | <0.01 | <0.01 | 3.79 | <0.01 | <0.01 | <0.01 | N | N/A |
| P-4802, P-4803, P-4804 | Hot Oil Pumps | Hot Oil | 17.88 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.02 | 1.00 | 4.00 | 100.00 | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-4701, P-4702 | Amine Solution Pumps | Amine | 8.35 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-5805 | Condensate Drip Pot Pump | Condensate | 1.28 | 6.80 | 6.80 | 7 | 7 | 2 | 93.55 | 0.44 | 1.00 | 4.00 | 95.47 | - | 0.42 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | N | N/A |
| P-5150 | Flare Drain Pump | Condensate | 1.28 | 6.80 | 6.80 | 7 | 7 | 2 | 93.55 | 0.44 | 1.00 | 4.00 | 95.47 | - | 0.42 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | N | N/A |
| P-5525 | Acid Gas K.O. Drum Pump | Sour Water | 1.28 | 0.71 | 0.71 | 1 | 1 | 0 | 40.58 | 0.02 | 1.00 | 4.00 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A |
| P-5515 | Acid Gas Scrubber Pump | Sour Water | 1.28 | 0.71 | 0.71 | 1 | 1 | 0 | 40.58 | 0.02 | 1.00 | 4.00 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A |
| PBA-7100 | CO2 Pipeline Supply Pump | Acid Gas | 2.37 | - | 62.91 | 163 | 313 | 87 | 41.22 | 9.44 | 1.00 | 4.00 | 0.05 | 75.39 | <0.01 | <0.01 | 0.83 | <0.01 | <0.01 | <0.01 | 8.33 | 0.02 | <0.01 | <0.01 | Y | Flare |
| P-6305 | Amine Process Drain Sump Pump | Amine | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-6405 | AGI Compressor Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-7021 | Amine Make Up Pump | Amine | 0.72 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-7760 | Methanol Injection Pump | Methanol | 0.38 | 4.05 | 4.05 | 4 | 4 | 0 | 32.04 | 0.03 | 1.00 | 4.00 | 100.00 | - | 0.03 | <0.01 | - | - | 0.03 | <0.01 | - | - | - | - | N | N/A |
| P-7770 | Methanol Injection Pump | Methanol | 0.38 | 4.05 | 4.05 | 4 | 4 | 0 | 32.04 | 0.03 | 1.00 | 4.00 | 100.00 | - | 0.03 | <0.01 | - | - | 0.03 | <0.01 | - | - | - | - | N | N/A |
| F-4201 | Pre-Carbon Solids Filter | Amine | 41.93 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.02 | 1.00 | 52.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-4202, F-4204 | Carbon Filter | Amine | 846.66 | 0.01 | 0.01 | 0 | 0 | 2 | 105.14 | 0.48 | 1.00 | 4.00 | 5.00 | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-4203 | Rich Amine Solids Filter | Amine | 41.93 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.02 | 1.00 | 52.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-4303 | Lean Amine Solids Filter | Amine | 41.93 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.02 | 1.00 | 52.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-4805 | Hot Oil Filter | Hot Oil | 13.98 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.02 | 1.00 | 52.00 | 100.00 | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-5002 | NGL Solids Pre-Filter | Condensate | 3.23 | 6.80 | 6.80 | 7 | 7 | 4 | 93.55 | 1.11 | 1.00 | 52.00 | 95.47 | 3394.62 | 1.06 | 0.03 | - | - | 0.11 | <0.01 | - | - | - | - | Y | Flare |
| F-5003 | Liquid/Liquid Coalescer | Condensate | 8.29 | 6.80 | 6.80 | 7 | 7 | 12 | 93.55 | 2.84 | 1.00 | 52.00 | 95.47 | 3394.62 | 2.71 | 0.07 | - | - | 0.28 | <0.01 | - | - | - | - | Y | Flare |
| F-5101 | Filter Separator | Sour Inlet Gas | 34.56 | - | 62.91 | 163 | 313 | 1,267 | 24.07 | 80.44 | 1.00 | 4.00 | 18.89 | 1170.00 | 15.20 | 0.03 | 3.11 | <0.01 | 0.23 | <0.01 | 8.58 | 0.02 | 43.82 | 6.29 | Y | Flare |
| F-5104 | Filter Separator | Sour Inlet Gas | 27.65 | - | 62.91 | 163 | 313 | 1,013 | 24.07 | 64.36 | 1.00 | 4.00 | 18.89 | 1170.00 | 12.16 | 0.02 | 2.48 | <0.01 | 0.19 | <0.01 | 6.86 | 0.01 | 35.06 | 4.03 | Y | Flare |
| F-1100A, F-1100B | Condensate Filters | Condensate | 8.78 | 6.80 | 6.80 | 7 | 7 | 12 | 93.55 | 3.01 | 1.00 | 52.00 | 95.47 | 3394.62 | 2.87 | 0.07 | - | - | 0.29 | <0.01 | - | - | - | - | Y | Flare |

*Activity durations are conservative estimates.

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**FET-1**

| | | | | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Equipment ID** | **Equipment Description** | **Control Device** | **DRE (%)** | **Vented VOC Emissions** | | **Vented $H_2S$ Emissions** | | **Vented HAP Emissions** | | **Vented $CO_2$ Emissions** | | **Vented $CH_4$ Emissions** | | **$NO_x$ Emissions** | | **CO Emissions** | | **Controlled VOC Emissions** | | **Controlled $SO_2$ Emissions** | | **Controlled $H_2S$ Emissions** | | **Controlled HAP Emissions** | | **Controlled $CO_2$ Emissions** | | **Controlled $CH_4$ Emissions** | |
| | | | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** |
| HAL-5530 | Acid Gas Compressor Intercooler / Aftercooler | RHA-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | 5.96 | 0.01 | 0.06 | <0.01 | <0.01 | <0.01 | 32.36 | 0.06 | <0.01 | <0.01 |
| HAL-5540 | Acid Gas Compressor Intercooler / Aftercooler | RHA-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 7.88 | 0.02 | 0.09 | <0.01 | <0.01 | <0.01 | 42.83 | 0.09 | <0.01 | <0.01 |
| C-5530 | Acid Gas Compressor | RHA-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | 30.81 | 0.06 | 0.33 | <0.01 | <0.01 | <0.01 | 167.40 | 0.33 | <0.01 | <0.01 |
| C-5540 | Acid Gas Compressor | RHA-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 | 48.77 | 0.10 | 0.53 | <0.01 | <0.01 | <0.01 | 265.03 | 0.53 | <0.01 | <0.01 |
| P-4304, P-4305 | Amine Booster Pumps | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-4404, P-4405 | Reflux Pumps | N/A | -- | <0.01 | <0.01 | 0.38 | <0.01 | <0.01 | <0.01 | 3.79 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-4802, P-4803, P-4804 | Hot Oil Pumps | N/A | -- | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-4701, P-4702 | Amine Solution Pumps | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5805 | Condensate Drip Pot Pump | N/A | -- | 0.42 | <0.01 | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5150 | Flare Drain Pump | N/A | -- | 0.42 | <0.01 | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5525 | Acid Gas K.O. Drum Pump | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5515 | Acid Gas Scrubber Pump | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| PBA-7100 | CO2 Pipeline Supply Pump | RHA-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.53 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 8.33 | 0.02 | <0.01 | <0.01 |
| P-6305 | Amine Process Drain Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6405 | AGI Compressor Drain Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7021 | Amine Make Up Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7760 | Methanol Injection Pump | N/A | -- | 0.03 | <0.01 | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7770 | Methanol Injection Pump | N/A | -- | 0.03 | <0.01 | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4201 | Pre-Carbon Solids Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4202, F-4204 | Carbon Filter | N/A | -- | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4203 | Rich Amine Solids Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4303 | Lean Amine Solids Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4805 | Hot Oil Filter | N/A | -- | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5002 | NGL Solids Pre-Filter | RHA-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| F-5003 | Liquid/Liquid Coalescer | RHA-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.05 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| F-5101 | Filter Separator | RHA-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.20 | <0.01 | 0.81 | <0.01 | 0.30 | <0.01 | 5.73 | 0.01 | 0.06 | <0.01 | <0.01 | <0.01 | 8.58 | 0.02 | 0.88 | 0.13 |
| F-5104 | Filter Separator | RHA-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.16 | <0.01 | 0.65 | <0.01 | 0.24 | <0.01 | 4.58 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | 6.86 | 0.01 | 0.70 | 0.08 |
| F-1100A, F-1100B | Condensate Filters | RHA-FL-5100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.06 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| | | **FET-1 Vented SSM** | | **0.42** | **<0.01** | **0.38** | **<0.01** | **0.04** | **<0.01** | **3.79** | **<0.01** | **<0.01** | **<0.01** | | | | | | | | | | | | | | | | |
| | | **RHA-FL-5100** | | | | | | | | | | | | **0.20** | **<0.01** | **0.81** | **<0.01** | **0.30** | **<0.01** | **48.77** | **0.21** | **0.53** | **<0.01** | **<0.01** | **<0.01** | **265.03** | **1.06** | **0.88** | **0.21** |

*Activity durations are conservative estimates.

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**FET-2**

| Equipment ID | Equipment Description | Service | Equip. Volume | Mixture Vapor Press. | 1st Step Press. | 2nd Step Press. | 3rd Step Press. | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled $H_2S$ Emissions | | Uncontrolled HAP Emissions | | Uncontrolled $CO_2$ Emissions | | Uncontrolled $CH_4$ Emissions | | Flared? | Control Device Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | |
| HAL-25530, HAL-25540, HAL-25550 | Acid Gas Compressor Intercooler / Aftercooler | Acid Gas | 113.64 | - | 30.00 | 30 | 30 | 696 | 41.22 | 75.68 | 1.00 | 4.00 | 0.05 | 75.39 | 0.04 | <0.01 | 6.66 | 0.01 | <0.01 | <0.01 | 66.76 | 0.13 | 0.06 | <0.01 | Y | Flare |
| HAL-29300, HAL-29400, HAL-29500 | Flash Gas Compressor Intercooler / Aftercooler | Sour Inlet Gas | 70.07 | - | 50.00 | 100 | 150 | 1,430 | 24.07 | 90.84 | 1.00 | 4.00 | 18.89 | 1170.00 | 17.16 | 0.03 | 3.51 | <0.01 | 0.26 | <0.01 | 9.68 | 0.02 | 49.48 | 8.02 | Y | Flare |
| C-25530, C-25540, C-25550 | Acid Gas Compressor | Acid Gas | 315.22 | - | 30.00 | 30 | 30 | 1,930 | 41.22 | 209.94 | 1.00 | 4.00 | 0.05 | 75.39 | 0.10 | <0.01 | 18.47 | 0.04 | 0.02 | <0.01 | 185.18 | 0.37 | 0.17 | <0.01 | Y | Flare |
| C-21410, C-21420, C-21430, C-21440 | Closed Drain VRU Compressor | Sour Inlet Gas | 94.86 | - | 10.00 | 25 | 50 | 549 | 24.07 | 34.84 | 1.00 | 4.00 | 18.89 | 1170.00 | 6.58 | 0.01 | 1.35 | <0.01 | 0.10 | <0.01 | 3.71 | <0.01 | 18.98 | 1.18 | Y | Flare |
| C-29300, C-29400, C-29500 | Flash Gas Compressor | Acid Gas | 165.30 | - | 50.00 | 100 | 150 | 3,374 | 41.22 | 366.97 | 1.00 | 4.00 | 0.05 | 75.39 | 0.18 | <0.01 | 32.29 | 0.06 | 0.03 | <0.01 | 323.70 | 0.65 | 0.30 | <0.01 | Y | Flare |
| P-25515 | Acid Gas Scrubber Pump | Sour Water | 1.28 | 0.71 | 0.71 | 1 | 1 | 0 | 40.58 | 0.02 | 1.00 | 4.00 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A |
| P-21404, P-21405 | Off-Spec Condensate Re-run Pumps | Condensate | 3.13 | 6.80 | 6.80 | 7 | 7 | 4 | 93.55 | 1.07 | 1.00 | 4.00 | 95.47 | 3394.62 | 1.02 | <0.01 | - | - | 0.10 | <0.01 | - | - | - | - | Y | Flare |
| P-29305, P-29405, P-29505 | Flash Gas Compressor PSV Discharge Pump | Sour Inlet Gas | 3.84 | - | - | 0 | 0 | 0 | 24.07 | 0.00 | 1.00 | 4.00 | 18.89 | - | - | - | - | - | - | - | - | - | - | - | N | N/A |
| P-25535, P-25545, P-25555 | Acid Gas Compressor PSV Discharge Pump | Sour Water | 3.84 | 0.71 | 0.71 | 1 | 1 | 1 | 40.58 | 0.06 | 1.00 | 4.00 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A |
| P-25150 | Flare KO Drum Pump | Condensate | 1.28 | 6.80 | 6.80 | 7 | 7 | 2 | 93.55 | 0.44 | 1.00 | 4.00 | 95.47 | - | 0.42 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | N | N/A |
| P-25525 | Acid Gas KO Drum Pump | Sour Water | 1.28 | 0.71 | 0.71 | 1 | 1 | 0 | 40.58 | 0.02 | 1.00 | 4.00 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A |
| P-25805 | Sour Slop Tank Flare Knockout Drum Pump | Condensate | 1.28 | 6.80 | 6.80 | 7 | 7 | 2 | 93.55 | 0.44 | 1.00 | 4.00 | 95.47 | - | 0.42 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | N | N/A |
| P-27021 | Amine Makeup Pump | Amine | 0.72 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-27760 | Methanol Injection Pump | Methanol | 0.38 | 4.05 | 4.05 | 4 | 4 | 0 | 32.04 | 0.03 | 1.00 | 4.00 | 100.00 | - | 0.03 | <0.01 | - | - | 0.03 | <0.01 | - | - | - | - | N | N/A |
| P-27770 | AGI Compressor Methanol Injection Pump | Methanol | 0.38 | 4.05 | 4.05 | 4 | 4 | 0 | 32.04 | 0.03 | 1.00 | 4.00 | 100.00 | - | 0.03 | <0.01 | - | - | 0.03 | <0.01 | - | - | - | - | N | N/A |
| P-27005 | PAG ISO 100 Lube Oil Makeup Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-27015 | PAG ISO 150 Lube Oil Makeup Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-26605 | AGI Compressor Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-26855 | Flash Gas Compressor Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-23802, P-23803, P-23804 | HMO Pump | Hot Oil | 17.88 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.02 | 1.00 | 4.00 | 100.00 | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-26505 | HMO Area Sump Pump | Hot Oil | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.00 | 1.00 | 4.00 | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-23302, P-23303 | Amine Booster Pump | Amine | 6.66 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-23605 | Anti-Foam Injection Pump | Amine | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-23603, P-23604 | Reflux Pump | Amine | 1.08 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-23702, P-23703 | Amine Solution Pump | Amine | 5.93 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-26355 | Amine Area Sump Pump | Amine | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| P-26305 | Amine Process Drain Tank Pump | Amine | 1.28 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.00 | 1.00 | 4.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-21001, F-21002 | Condensate Filters | Condensate | 56.78 | 6.80 | 6.80 | 7 | 7 | 79 | 93.55 | 19.45 | 1.00 | 52.00 | 95.47 | 3394.62 | 18.57 | 0.48 | - | - | 1.90 | 0.05 | - | - | - | - | Y | Flare |
| F-22101, F-22102 | Condensate Feed Filters | Condensate | 5.10 | 6.80 | 6.80 | 7 | 7 | 7 | 93.55 | 1.75 | 1.00 | 52.00 | 95.47 | 3394.62 | 1.67 | 0.04 | - | - | 0.17 | <0.01 | - | - | - | - | Y | Flare |
| F-22103 | Liquid/Liquid Coalescing Filter | Condensate | 12.10 | 6.80 | 6.80 | 7 | 7 | 17 | 93.55 | 4.15 | 1.00 | 52.00 | 95.47 | 3394.62 | 3.96 | 0.10 | - | - | 0.41 | 0.01 | - | - | - | - | Y | Flare |
| F-21500 | Fuel Gas Filter Coalescer | Residue Gas | 2.94 | - | - | 0 | 0 | 0 | 17.87 | 0.00 | 1.00 | 4.00 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | N | N/A |
| F-23805 | HMO Filter | Hot Oil | 23.04 | 0.01 | 0.01 | 0 | 0 | 0 | 200.00 | 0.02 | 1.00 | 52.00 | 100.00 | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-21225 | Inlet Filter Coalescer | Sour Inlet Gas | 121.49 | - | - | 0 | 0 | 0 | 24.07 | 0.00 | 1.00 | 4.00 | 18.89 | 1170.00 | - | - | - | - | - | - | - | - | - | - | Y | Flare |
| F-23200 | Rich Amine Pre-Carbon Filter | Amine | 27.36 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.02 | 1.00 | 52.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-23201, F-23202 | Rich Amine Carbon Filter | Amine | 1248.39 | 0.01 | 0.01 | 0 | 0 | 3 | 105.14 | 0.71 | 1.00 | 4.00 | 5.00 | - | 0.04 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-23203, F-23204 | Rich Amine Post-Carbon Filter | Amine | 54.72 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.03 | 1.00 | 52.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |
| F-23304 | Lean Amine Filter | Amine | 27.36 | 0.01 | 0.01 | 0 | 0 | 0 | 105.14 | 0.02 | 1.00 | 52.00 | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | N | N/A |

*Activity durations are conservative estimates.

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**FET-2**

| | | | | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Equipment ID** | **Equipment Description** | **Control Device** | **DRE (%)** | **Vented VOC Emissions** | | **Vented $H_2S$ Emissions** | | **Vented HAP Emissions** | | **Vented $CO_2$ Emissions** | | **Vented $CH_4$ Emissions** | | **$NO_x$ Emissions** | | **CO Emissions** | | **Controlled VOC Emissions** | | **Controlled $SO_2$ Emissions** | | **Controlled $H_2S$ Emissions** | | **Controlled HAP Emissions** | | **Controlled $CO_2$ Emissions** | | **Controlled $CH_4$ Emissions** | |
| | | | | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** | **lb/hr** | **tpy** |
| HAL-25530, HAL-25540, HAL-25550 | Acid Gas Compressor Intercooler / Aftercooler | RA2-FL-25100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | 12.29 | 0.02 | 0.13 | <0.01 | <0.01 | <0.01 | 66.76 | 0.13 | <0.01 | <0.01 |
| HAL-29300, HAL-29400, HAL-29500 | Flash Gas Compressor Intercooler / Aftercooler | RA2-FL-25100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.23 | <0.01 | 0.92 | <0.01 | 0.34 | <0.01 | 6.47 | 0.01 | 0.07 | <0.01 | <0.01 | <0.01 | 9.68 | 0.02 | 0.99 | 0.16 |
| C-25530, C-25540, C-25550 | Acid Gas Compressor | RA2-FL-25100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.08 | <0.01 | <0.01 | <0.01 | 34.08 | 0.07 | 0.37 | <0.01 | <0.01 | <0.01 | 185.18 | 0.37 | <0.01 | <0.01 |
| C-21410, C-21420, C-21430, C-21440 | Closed Drain VRU Compressor | RA2-FL-25100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.09 | <0.01 | 0.35 | <0.01 | 0.13 | <0.01 | 2.48 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | 3.71 | <0.01 | 0.38 | 0.02 |
| C-29300, C-29400, C-29500 | Flash Gas Compressor | RA2-FL-25100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | 0.14 | <0.01 | <0.01 | <0.01 | 59.57 | 0.12 | 0.65 | <0.01 | <0.01 | <0.01 | 323.70 | 0.65 | <0.01 | <0.01 |
| P-25515 | Acid Gas Scrubber Pump | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-21404, P-21405 | Off-Spec Condensate Re-run Pumps | RA2-FL-25850 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| P-29305, P-29405, P-29505 | Flash Gas Compressor PSV Discharge Pump | N/A | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-25535, P-25545, P-25555 | Acid Gas Compressor PSV Discharge Pump | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-25150 | Flare KO Drum Pump | N/A | -- | 0.42 | <0.01 | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-25525 | Acid Gas KO Drum Pump | N/A | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-25805 | Sour Slop Tank Flare Knockout Drum Pump | N/A | -- | 0.42 | <0.01 | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-27021 | Amine Makeup Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-27760 | Methanol Injection Pump | N/A | -- | 0.03 | <0.01 | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-27770 | AGI Compressor Methanol Injection Pump | N/A | -- | 0.03 | <0.01 | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-27005 | PAG ISO 100 Lube Oil Makeup Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-27015 | PAG ISO 150 Lube Oil Makeup Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-26605 | AGI Compressor Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-26855 | Flash Gas Compressor Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-23802, P-23803, P-23804 | HMO Pump | N/A | -- | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-26505 | HMO Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-23302, P-23303 | Amine Booster Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-23605 | Anti-Foam Injection Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-23603, P-23604 | Reflux Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-23702, P-23703 | Amine Solution Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-26355 | Amine Area Sump Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-26305 | Amine Process Drain Tank Pump | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-21001, F-21002 | Condensate Filters | RA2-FL-25100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | 0.15 | <0.01 | 0.37 | <0.01 | -- | -- | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- |
| F-22101, F-22102 | Condensate Feed Filters | RA2-FL-25100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| F-22103 | Liquid/Liquid Coalescing Filter | RA2-FL-25100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | 0.08 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| F-21500 | Fuel Gas Filter Coalescer | N/A | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23805 | HMO Filter | N/A | -- | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-21225 | Inlet Filter Coalescer | RA2-FL-25100 | 98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23200 | Rich Amine Pre-Carbon Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23201, F-23202 | Rich Amine Carbon Filter | N/A | -- | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23203, F-23204 | Rich Amine Post-Carbon Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23304 | Lean Amine Filter | N/A | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **FET-2 Vented SSM** | | **0.42** | **<0.01** | **<0.01** | **<0.01** | **0.04** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | | | | | | | | | | | | | | | | |
| | | **RA2-FL-25100** | | | | | | | | | | | | **0.23** | **<0.01** | **0.92** | **<0.01** | **0.37** | **0.01** | **59.57** | **0.23** | **0.65** | **<0.01** | **0.04** | **<0.01** | **323.70** | **1.18** | **0.99** | **0.18** |

*Activity durations are conservative estimates.

## Equipment Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Vented Equipment Blowdown Summary**

| | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| **Train 1 Vented SSM** | 148.58 | 0.36 | -- | -- | 1.61 | <0.01 | 0.16 | <0.01 | 0.16 | 0.25 |
| **Train 2 Vented SSM** | 165.63 | 0.19 | 0.02 | <0.01 | 3.73 | <0.01 | 1,772.98 | 3.50 | 754.56 | 253.20 |
| **Train 3 Vented SSM** | 165.53 | 0.33 | 0.02 | <0.01 | 3.72 | <0.01 | 1,762.81 | 3.53 | 754.55 | 253.20 |
| **Train 4 Vented SSM** | 165.63 | 0.33 | 0.02 | <0.01 | 3.73 | <0.01 | 1,818.80 | 3.64 | 764.83 | 253.20 |
| **Train 5 Vented SSM** | 101.20 | 0.20 | <0.01 | <0.01 | 2.16 | <0.01 | 58.12 | 0.12 | 231.98 | 150.92 |
| **Train 6 Vented SSM** | 128.80 | 0.26 | <0.01 | <0.01 | 2.20 | <0.01 | 54.44 | 0.11 | 232.32 | 150.96 |
| **FET-1 Vented SSM** | 0.42 | <0.01 | 0.38 | <0.01 | 0.04 | <0.01 | 3.79 | <0.01 | <0.01 | <0.01 |
| **FET-2 Vented SSM** | 0.42 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |

**Flared Equipment Blowdown Summary**

| | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| **RH1-FL-29-1003** | 7.74 | 0.02 | 30.82 | 0.06 | 28.71 | 0.07 | 0.02 | <0.01 | <0.01 | <0.01 | 0.17 | <0.01 | -- | -- | -- | -- |
| **RH2-FL-5100** | 13.27 | 0.02 | 52.87 | 0.09 | 70.34 | 0.13 | 0.02 | <0.01 | <0.01 | <0.01 | 0.15 | <0.01 | 3,145.50 | 8,145.50 | 15,645.50 | 1,084.68 |
| **RH3-FL-5100** | 9.34 | 0.02 | 37.18 | 0.07 | 63.08 | 0.13 | -- | -- | -- | -- | -- | -- | 188.73 | 488.73 | 938.73 | 188.73 |
| **RH4-FL-45100** | 13.80 | 0.03 | 54.97 | 0.11 | 71.89 | 0.15 | 0.02 | <0.01 | <0.01 | <0.01 | 0.20 | <0.01 | 754.92 | 1,954.92 | 3,754.92 | 698.81 |
| **RH5-FL-55100** | 18.67 | 0.04 | 74.36 | 0.15 | 126.17 | 0.25 | -- | -- | -- | -- | -- | -- | 377.46 | 977.46 | 1,877.46 | 377.46 |
| **RHA-FL-5100** | 0.20 | <0.01 | 0.81 | <0.01 | 0.30 | <0.01 | 48.77 | 0.21 | 0.53 | <0.01 | <0.01 | <0.01 | 629.10 | 1,629.10 | 3,129.10 | 460.77 |
| **RA2-FL-25100** | 0.23 | <0.01 | 0.92 | <0.01 | 0.37 | 0.01 | 59.57 | 0.23 | 0.65 | <0.01 | 0.04 | <0.01 | 190.40 | 305.40 | 430.40 | 190.40 |
| **RH1-FL-2850** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RHA-FL-5850** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RA2-FL-25850** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RH2-TO-5500** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RH4-TO-45500** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RH5-TO-55500** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Equipment Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

Emissions from vessel maintenance activities are calculated using the ideal gas law.

| | | |
|---|---|---|
| **Minimum Flared Blowdown Pressure** | 15 | psig |
| **Atmospheric Pressure** | 12.91 | psia |

**Train 1**

| Equipment ID | Equipment Description | Service | Equipment Volume | Operating Pressure | Temp. | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/lb-mol | hours | activities/yr |
| HAL-42-15-U205, HAL-42-15-U206 | Flash Gas Compressor Intercooler / Aftercooler | Inlet Gas | 53.75 | 163 | 300 | - | Y | Flare | RH1-FL-29-1003 | 98 | 407.62 | 82.34 | 407.62 | 22.73 | 1.00 | 4.00 |
| 42-108A, 42-108B | Stabilizer Overhead Compressor | Inlet Gas | 12.21 | 113 | 300 | - | Y | Flare | RH1-FL-29-1003 | 98 | 64.19 | 18.71 | 64.19 | 22.73 | 1.00 | 4.00 |
| 45-507 | Expander/Compressor | Inlet Gas | 36.67 | 600 | 23 | - | Y | Flare | RH1-FL-29-1003 | 98 | 1,614.54 | 88.50 | 1,614.54 | 22.73 | 1.00 | 4.00 |
| 42-601A, 42-601B, 42-601C | Sales Gas Compressor | Residue Gas | 179.89 | 213 | 300 | - | Y | Flare | RH1-FL-29-1003 | 98 | 1,782.81 | 275.57 | 1,782.81 | 17.87 | 1.00 | 4.00 |
| 42-15-U205, 42-15-U206 | Flash Gas Compressor | Inlet Gas | 472.90 | 163 | 300 | - | Y | Flare | RH1-FL-29-1003 | 98 | 3,586.06 | 724.43 | 3,586.06 | 22.73 | 1.00 | 4.00 |
| 42-801A, 42-801B | Propane Compressor | Propane | 324.58 | 185 | 117 | 174.83 | Y | Flare | RH1-FL-29-1003 | 98 | 3,482.69 | 655.58 | 3,482.69 | 44.10 | 1.00 | 4.00 |
| 42-2500 | Truck Unloading Pump | Condensate | 3.33 | 248 | 125 | 6.80 | N | N/A | N/A | -- | 1.37 | 1.37 | - | 93.55 | 1.00 | 4.00 |
| P-1575 | Sour Stabilizer Rerun Pump | Condensate | 3.33 | 113 | 125 | 6.80 | N | N/A | N/A | -- | 1.37 | 1.37 | - | 93.55 | 1.00 | 4.00 |
| 41-512A, 41-512B | NGL Booster Pump | Y-Grade | 22.80 | 283 | 150 | 397.30 | N | N/A | N/A | -- | 374.10 | 374.10 | - | 40.97 | 1.00 | 4.00 |
| 41-919DD | Flash Gas Compressors Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| 41-307A, 41-307B | Glycol Pump | Glycol | 2.61 | 18 | 150 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| 41-207A, 41-207B | Lean Amine Booster Pump | Amine | 6.66 | 38 | 200 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| 41-216A, 41-216B | Amine Reflux Pump | Amine | 1.08 | 38 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| 41-212A, 41-212B, 41-212C | Amine Circulation Pump | Amine | 12.53 | 63 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-XXXX | Propane Suction Scrubber Pump | Propane | 1.30 | 43 | 8 | 174.83 | N | N/A | N/A | -- | 4.23 | 4.23 | - | 44.10 | 1.00 | 4.00 |
| 41-702A, 41-702B | Hot Oil Circulation Pump | Hot Oil | 11.92 | 53 | 500 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| 42-1002A, 42-1002B | Flare KO Drum Pumps | Condensate | 2.56 | 13 | 125 | 6.80 | N | N/A | N/A | -- | 1.05 | 1.05 | - | 93.55 | 1.00 | 4.00 |
| P-41-516A, P-41-516B, P-41-516C | NGL Pipeline Pump | Y-Grade | 7.64 | 633 | 150 | 397.30 | N | N/A | N/A | -- | 176.04 | 176.04 | - | 40.97 | 1.00 | 4.00 |
| 41-902A, 41-902B | Condensate Transfer Pump | Condensate | 9.55 | 248 | 125 | 6.80 | N | N/A | N/A | -- | 3.93 | 3.93 | - | 93.55 | 1.00 | 4.00 |
| 41-903A, 41-903B | NGL Truck Unloading Pump | Condensate | 9.55 | 248 | 125 | 6.80 | N | N/A | N/A | -- | 3.93 | 3.93 | - | 93.55 | 1.00 | 4.00 |
| P-69100, P-69150 | Condensate Transfer Pump | Condensate | 9.55 | 248 | 125 | 6.80 | N | N/A | N/A | -- | 3.93 | 3.93 | - | 93.55 | 1.00 | 4.00 |
| 41-910 | TEG Make-up Pump | Glycol | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| 41-907 | Amine Make-up Pump | Amine | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| 41-918 | Hot Oil Make-up Pump | Hot Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| 41-919A, 41-919B, 41-919C | Sump Pump | Lube Oil | 3.84 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| 41-919D, 41-919E, 41-919F | Sump Pump | Glycol | 3.84 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| 41-919G, 41-919H, 41-919J | Sump Pump | Lube Oil | 5.12 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| 41-919K, 41-919L, 41-919M | Sump Pump | Amine | 3.84 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| 41-919N, 41-919P, 41-919R | Sump Pump | Lube Oil | 3.84 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| 41-919S, 41-919T, 41-919U | Sump Pump | Hot Oil | 3.84 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| 41-919V, 41-919W, 41-919X | Sump Pump | Lube Oil | 3.84 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| 41-919Y, 41-919Z | Sump Pump | Lube Oil | 5.12 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-XXXX, P-XXXX, P-XXXX, P-XXXX | Sump Pump | Lube Oil | 5.12 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-1502, P-1503 | Hot Oil Pump | Hot Oil | 11.92 | 53 | 500 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-1802, P-1803 | LPG Booster Pump | Y-Grade | 9.55 | 168 | 125 | 397.30 | N | N/A | N/A | -- | 96.97 | 96.97 | - | 40.97 | 1.00 | 4.00 |
| P-1804, P-1805 | LPG Main Solution Pump | Y-Grade | 5.09 | 223 | 135 | 397.30 | N | N/A | N/A | -- | 67.51 | 67.51 | - | 40.97 | 1.00 | 4.00 |
| P-XXXX1 | Pig Receiver Pump | Condensate | 1.28 | 13 | 125 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | 1.00 | 4.00 |
| P-XXXX2 | Pig Receiver Pump | Condensate | 1.28 | 13 | 125 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | 1.00 | 4.00 |

*Activity durations are conservative estimates.

## Equipment Blowdown SSM Emissions
**Targa Northern Delaware, LLC**

**Train 1**

| Equipment ID | Equipment Description | Mixture VOC wt% | Vapor Heating Value Btu/scf | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Unflared VOC Emissions | | Total Unflared HAP Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| HAL-42-15-U205, HAL-42-15-U206 | Flash Gas Compressor Intercooler / Aftercooler | 23.25 | 1,097.43 | 1.15 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 0.34 | <0.01 | 2.58 | <0.01 | 0.06 | <0.01 | 0.25 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 0.34 | <0.01 | 2.58 | <0.01 |
| 42-108A, 42-108B | Stabilizer Overhead Compressor | 23.25 | 1,097.43 | 0.26 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 0.59 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 0.59 | <0.01 |
| 45-507 | Expander/Compressor | 23.25 | 1,097.43 | 1.23 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | 0.37 | <0.01 | 2.77 | <0.01 | 0.24 | <0.01 | 0.97 | <0.01 | 0.45 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.37 | <0.01 | 2.77 | <0.01 |
| 42-601A, 42-601B, 42-601C | Sales Gas Compressor | <0.01 | 1,126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 10.08 | 0.02 | 2.26 | <0.01 | 0.28 | <0.01 | 1.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 10.08 | 0.02 | 2.26 | <0.01 |
| 42-15-U205, 42-15-U206 | Flash Gas Compressor | 23.25 | 1,097.43 | 10.11 | 0.02 | 0.22 | <0.01 | <0.01 | <0.01 | 3.03 | <0.01 | 22.70 | 0.05 | 0.54 | <0.01 | 2.16 | <0.01 | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.22 | <0.01 | 3.03 | <0.01 | 22.70 | 0.05 |
| 42-801A, 42-801B | Propane Compressor | 100.00 | 2,516.00 | 76.28 | 0.15 | - | - | - | - | - | - | - | - | 1.21 | <0.01 | 4.82 | <0.01 | 8.10 | 0.02 | - | - | - | - | - | - | - | - | - | - |
| 42-2500 | Truck Unloading Pump | 95.47 | - | 0.32 | <0.01 | 0.03 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-1575 | Sour Stabilizer Rerun Pump | 95.47 | - | 0.32 | <0.01 | 0.03 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-512A, 41-512B | NGL Booster Pump | 71.97 | - | 29.10 | 0.06 | - | - | - | - | 0.04 | <0.01 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-919DD | Flash Gas Compressors Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-307A, 41-307B | Glycol Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-207A, 41-207B | Lean Amine Booster Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-216A, 41-216B | Amine Reflux Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-212A, 41-212B, 41-212C | Amine Circulation Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-XXXX | Propane Suction Scrubber Pump | 100.00 | - | 0.49 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-702A, 41-702B | Hot Oil Circulation Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 42-1002A, 42-1002B | Flare KO Drum Pumps | 95.47 | - | 0.25 | <0.01 | 0.03 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-41-516A, P-41-516B, P-41-516C | NGL Pipeline Pump | 71.97 | - | 13.69 | 0.03 | - | - | - | - | 0.02 | <0.01 | 0.02 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-902A, 41-902B | Condensate Transfer Pump | 95.47 | - | 0.93 | <0.01 | 0.09 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-903A, 41-903B | NGL Truck Unloading Pump | 95.47 | - | 0.93 | <0.01 | 0.09 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-69100, P-69150 | Condensate Transfer Pump | 95.47 | - | 0.93 | <0.01 | 0.09 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-910 | TEG Make-up Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-907 | Amine Make-up Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-918 | Hot Oil Make-up Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-919A, 41-919B, 41-919C | Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-919D, 41-919E, 41-919F | Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-919G, 41-919H, 41-919J | Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-919K, 41-919L, 41-919M | Sump Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-919N, 41-919P, 41-919R | Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-919S, 41-919T, 41-919U | Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-919V, 41-919W, 41-919X | Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41-919Y, 41-919Z | Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-XXXX, P-XXXX, P-XXXX, P-XXXX | Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-1502, P-1503 | Hot Oil Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-1802, P-1803 | LPG Booster Pump | 71.97 | - | 7.54 | 0.02 | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-1804, P-1805 | LPG Main Solution Pump | 71.97 | - | 5.25 | 0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-XXXX1 | Pig Receiver Pump | 95.47 | - | 0.12 | <0.01 | 0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-XXXX2 | Pig Receiver Pump | 95.47 | - | 0.12 | <0.01 | 0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | **Train 1 Vented SSM** | | | **76.28** | **0.30** | **0.22** | **<0.01** | **###** | **<0.01** | **10.08** | **0.03** | **22.70** | **0.06** | | | | | | | | | | | | | | | | |
| | **RH1-FL-29-1003 Flaring** | | | | | | | | | | | | | **1.21** | **<0.01** | **4.82** | **0.02** | **8.10** | **0.02** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.22** | **<0.01** | **10.08** | **0.03** | **22.70** | **0.06** |

*Activity durations are conservative estimates.

## Equipment Blowdown SSM Emissions
**Targa Northern Delaware, LLC**

**Train 2**

| Equipment ID | Equipment Description | Service | Equipment Volume | Operating Pressure | Temp. | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/lb-mol | hours | activities/yr |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | 263 | 300 | - | N | N/A | N/A | -- | 1,712.34 | 1,712.34 | - | 17.87 | 1.00 | 4.00 |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | Residue Gas | 126.72 | 263 | 300 | - | N | N/A | N/A | -- | 1,550.80 | 1,550.80 | - | 17.87 | 1.00 | 4.00 |
| C-161, C-162, C-163 | Refrigerant Compressor | Propane | 973.73 | 185 | 117 | 174.83 | Y | Flare | RH2-FL-5100 | 98 | 10,448.06 | 1,966.74 | 10,448.06 | 44.10 | 1.00 | 4.00 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1011.48 | 263 | 300 | - | N | N/A | N/A | -- | 12,378.53 | 12,378.53 | - | 17.87 | 1.00 | 4.00 |
| EC-101 | Expander/Compressor | Inlet Gas | 122.34 | 715 | 23 | - | N | N/A | N/A | -- | 6,419.00 | 6,419.00 | - | 22.73 | 1.00 | 4.00 |
| C-141 | Regen Gas Compressor | Inlet Gas | 2.54 | 1,058 | 140 | - | N | N/A | N/A | -- | 158.42 | 158.42 | - | 22.73 | 1.00 | 4.00 |
| P-5050 | Flare KO Pump | Condensate | 1.28 | 13 | 125 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | 1.00 | 4.00 |
| P-7015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-5515 | CO2 Vent Scrubber Pump | Low C Acid Gas | 1.28 | 18 | 125 | - | N | N/A | N/A | -- | 1.39 | 1.39 | - | 42.33 | 1.00 | 4.00 |
| P-7035 | TEG Storage Pump | Glycol | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-0802, P-0803, P-0804 | Hot Oil Pump | Hot Oil | 17.88 | 53 | 500 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-0303, P-0304 | Amine Booster Pump | Amine | 6.66 | 38 | 200 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-0605 | Defoaming Pump | Amine | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-7021 | Amine Make Up Pump | Amine | 0.72 | 43 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-0702, P-0703, P-0704 | Amine Main Solution Pump | Amine | 8.90 | 63 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-0603, P-0604 | Reflux Pump | Amine | 1.08 | 38 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-6305 | Amine Sump Pump | Amine | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-6355 | Amine Skid Drain Sump Pump | Amine | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-2601, P-2602 | TEG Main Solution Pump | Glycol | 2.61 | 43 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-6405 | Glycol Sump Pump | Glycol | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-6455 | Glycol Skid Drain Sump Pump | Glycol | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-6505 | Hot Oil Skid Drain Sump Pump | Hot Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-6555 | CO2 Vent Stack Skid Drain Sump Pump | Low C Acid Gas | 1.28 | 13 | 125 | - | N | N/A | N/A | -- | 1.00 | 1.00 | - | 42.33 | 1.00 | 4.00 |
| P-6605 | Residue Compressor Skid Drain Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-6655 | IA Compressor Drain Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-2402, P-2403 | TEG Booster Pump | Glycol | 1.32 | 18 | 240 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-2504 | TEG Diaphragm Condensate Drum Pump | Glycol | 1.28 | 18 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-600, P-601, P-602 | Product Charge Pump | Y-Grade | 13.11 | 373 | 150 | 397.30 | Y | Flare | RH2-FL-5100 | 98 | 283.52 | 25.02 | 283.52 | 40.97 | 1.00 | 4.00 |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | Y-Grade | 9.85 | 373 | 150 | 397.30 | Y | Flare | RH2-FL-5100 | 98 | 213.02 | 18.80 | 213.02 | 40.97 | 1.00 | 4.00 |
| P-609 | Methanol Injection Pump | Methanol | 0.11 | 13 | 125 | 4.05 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 32.04 | 1.00 | 4.00 |
| P-654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-781A, P-781B | HMO Pump | Hot Oil | 2.00 | 53 | 500 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-7760 | Methanol Injection Pump | Methanol | 0.38 | 13 | 125 | 4.05 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 32.04 | 1.00 | 4.00 |

*Activity durations are conservative estimates.

## Equipment Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

**Train 2**

| Equipment ID | Equipment Description | Mixture VOC wt% | Vapor Heating Value Btu/scf | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Unflared VOC Emissions | | Total Unflared HAP Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 62.61 | 0.13 | 14.04 | 0.03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 56.71 | 0.11 | 12.72 | 0.03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C-161, C-162, C-163 | Refrigerant Compressor | 100.00 | 2,516.00 | 228.83 | 0.46 | - | - | - | - | - | - | - | - | 3.63 | <0.01 | 14.45 | 0.03 | 24.31 | 0.05 | - | - | - | - | - | - | - | - | - | - |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | <0.01 | - | 0.04 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | 452.63 | 0.91 | 101.50 | 0.20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| EC-101 | Expander/Compressor | 23.25 | - | 89.54 | 0.18 | 1.91 | <0.01 | <0.01 | <0.01 | 26.81 | 0.05 | 201.15 | 0.40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C-141 | Regen Gas Compressor | 23.25 | - | 2.21 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | 0.66 | <0.01 | 4.96 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-5050 | Flare KO Pump | 95.47 | - | 0.12 | <0.01 | 0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-7015 | Residue Compressor Lube Oil Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-5515 | CO2 Vent Scrubber Pump | 0.10 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-7035 | TEG Storage Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-0802, P-0803, P-0804 | Hot Oil Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-0303, P-0304 | Amine Booster Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-0605 | Defoaming Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-7021 | Amine Make Up Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-0702, P-0703, P-0704 | Amine Main Solution Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-0603, P-0604 | Reflux Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-6305 | Amine Sump Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-6355 | Amine Skid Drain Sump Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-2601, P-2602 | TEG Main Solution Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-6405 | Glycol Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-6455 | Glycol Skid Drain Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-6505 | Hot Oil Skid Drain Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-6555 | CO2 Vent Stack Skid Drain Sump Pump | 0.10 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-6605 | Residue Compressor Skid Drain Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-6655 | IA Compressor Drain Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-2402, P-2403 | TEG Booster Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-2504 | TEG Diaphragm Condensate Drum Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-600, P-601, P-602 | Product Charge Pump | 71.97 | 1,020.00 | 1.95 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.16 | <0.01 | 0.44 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | 71.97 | 1,020.00 | 1.46 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.12 | <0.01 | 0.33 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 |
| P-609 | Methanol Injection Pump | 100.00 | - | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-654 | Expander Lube Oil Makeup Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-781A, P-781B | HMO Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-7760 | Methanol Injection Pump | 100.00 | - | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Activity durations are conservative estimates. | **Train 2 Vented SSM** | | | **228.83** | **0.65** | **1.91** | **<0.01** | **###** | **<0.01** | **452.63** | **1.20** | **201.15** | **0.67** | | | | | | | | | | | | | | | | |
| | **RH2-FL-5100 Flaring** | | | | | | | | | | | | | **3.63** | **<0.01** | **14.45** | **0.03** | **24.31** | **0.05** | **-** | **-** | **-** | **-** | **-** | **-** | **<0.01** | **<0.01** | **<0.01** | **<0.01** |

## Equipment Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

**Train 3**

| Equipment ID | Equipment Description | Service | Equipment Volume | Operating Pressure | Temp. | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/lb-mol | hours | activities/yr |
| HAL-1475-IC-1, HAL-1500-IC-1, HAL-1550-IC-1, HAL-1575-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | 263 | 300 | - | N | N/A | N/A | -- | 1,712.34 | 1,712.34 | - | 17.87 | 1.00 | 4.00 |
| HAL-1475-AC-1, HAL-1500-AC-1, HAL-1550-AC-1, HAL-1575-AC-1 | Residue Compressor Aftercooler | Residue Gas | 126.72 | 263 | 300 | - | N | N/A | N/A | -- | 1,550.80 | 1,550.80 | - | 17.87 | 1.00 | 4.00 |
| C-161, C-162, C-163 | Refrigerant Compressor | Propane | 973.73 | 185 | 117 | 174.83 | Y | Flare | RH3-FL-5100 | 98 | 10,448.06 | 1,966.74 | 10,448.06 | 44.10 | 1.00 | 4.00 |
| C-1475, C-1500, C-1550, C-1575 | Residue Compressor | Residue Gas | 1011.48 | 263 | 300 | - | N | N/A | N/A | -- | 12,378.53 | 12,378.53 | - | 17.87 | 1.00 | 4.00 |
| EC-101 | Expander/Compressor | Inlet Gas | 122.34 | 715 | 23 | - | N | N/A | N/A | -- | 6,419.00 | 6,419.00 | - | 22.73 | 1.00 | 4.00 |
| C-141 | Regen Gas Compressor | Inlet Gas | 2.54 | 1,058 | 140 | - | N | N/A | N/A | -- | 158.42 | 158.42 | - | 22.73 | 1.00 | 4.00 |
| P-5050 | Flare KO Pump | Condensate | 1.28 | 13 | 125 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | 1.00 | 4.00 |
| P-6601, P-6602 | TEG Main Solution Pump | Glycol | 2.61 | 43 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-6605 | Residue Compressor Skid Drain Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-6402, P-6403 | TEG Booster Pump | Glycol | 1.32 | 18 | 240 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-6504 | BTEX Pump | Glycol | 1.28 | 18 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-600, P-601, P-602 | Product Charge Pump | Y-Grade | 13.11 | 373 | 150 | 397.30 | Y | Flare | RH3-FL-5100 | 98 | 283.52 | 25.02 | 283.52 | 40.97 | 1.00 | 4.00 |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | Y-Grade | 9.85 | 373 | 150 | 397.30 | Y | Flare | RH3-FL-5100 | 98 | 213.02 | 18.80 | 213.02 | 40.97 | 1.00 | 4.00 |
| P-609 | Methanol Injection Pump | Methanol | 0.11 | 13 | 125 | 4.05 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 32.04 | 1.00 | 4.00 |
| P-654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-781A, P-781B | HMO Pump | Hot Oil | 2.00 | 53 | 500 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-7760 | Methanol Injection Pump | Methanol | 0.38 | 13 | 125 | 4.05 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 32.04 | 1.00 | 4.00 |

*Activity durations are conservative estimates.

## Equipment Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

**Train 3**

| Equipment ID | Equipment Description | Mixture VOC wt% | Vapor Heating Value Btu/scf | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Unflared VOC Emissions | | Total Unflared HAP Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| HAL-1475-IC-1, HAL-1500-IC-1, HAL-1550-IC-1, HAL-1575-IC-1 | Residue Compressor Intercooler | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 62.61 | 0.13 | 14.04 | 0.03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HAL-1475-AC-1, HAL-1500-AC-1, HAL-1550-AC-1, HAL-1575-AC-1 | Residue Compressor Aftercooler | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 56.71 | 0.11 | 12.72 | 0.03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C-161, C-162, C-163 | Refrigerant Compressor | 100.00 | 2,516.00 | 228.83 | 0.46 | - | - | - | - | - | - | - | - | 3.63 | <0.01 | 14.45 | 0.03 | 24.31 | 0.05 | - | - | - | - | - | - | - | - | - | - |
| C-1475, C-1500, C-1550, C-1575 | Residue Compressor | <0.01 | - | 0.04 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | 452.63 | 0.91 | 101.50 | 0.20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| EC-101 | Expander/Compressor | 23.25 | - | 89.54 | 0.18 | 1.91 | <0.01 | <0.01 | <0.01 | 26.81 | 0.05 | 201.15 | 0.40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C-141 | Regen Gas Compressor | 23.25 | - | 2.21 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | 0.66 | <0.01 | 4.96 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-5050 | Flare KO Pump | 95.47 | - | 0.12 | <0.01 | 0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-6601, P-6602 | TEG Main Solution Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-6605 | Residue Compressor Skid Drain Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-6402, P-6403 | TEG Booster Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-6504 | BTEX Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-600, P-601, P-602 | Product Charge Pump | 71.97 | 1,020.00 | 1.95 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.16 | <0.01 | 0.44 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | 71.97 | 1,020.00 | 1.46 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.12 | <0.01 | 0.33 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 |
| P-609 | Methanol Injection Pump | 100.00 | - | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-654 | Expander Lube Oil Makeup Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-781A, P-781B | HMO Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-7760 | Methanol Injection Pump | 100.00 | - | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Activity durations are conservative estimates. | **Train 3 Vented SSM** | | | **228.83** | **0.65** | **1.91** | **<0.01** | **###** | **<0.01** | **452.63** | **1.20** | **201.15** | **0.67** | | | | | | | | | | | | | | | | |
| | **RH3-FL-5100 Flaring** | | | | | | | | | | | | | **3.63** | **<0.01** | **14.45** | **0.03** | **24.31** | **0.05** | **-** | **-** | **-** | **-** | **-** | **-** | **<0.01** | **<0.01** | **<0.01** | **<0.01** |

## Equipment Blowdown SSM Emissions
**Targa Northern Delaware, LLC**

**Train 4**

| Equipment ID | Equipment Description | Service | Equipment Volume | Operating Pressure | Temp. | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/lb-mol | hours | activities/yr |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | 263 | 300 | - | N | N/A | N/A | -- | 1,712.34 | 1,712.34 | - | 17.87 | 1.00 | 4.00 |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | Residue Gas | 126.72 | 263 | 300 | - | N | N/A | N/A | -- | 1,550.80 | 1,550.80 | - | 17.87 | 1.00 | 4.00 |
| C-161, C-162, C-163 | Refrigerant Compressor | Propane | 973.73 | 185 | 117 | 174.83 | Y | Flare | RH4-FL-45100 | 98 | 10,448.06 | 1,966.74 | 10,448.06 | 44.10 | 1.00 | 4.00 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1011.48 | 263 | 300 | - | N | N/A | N/A | -- | 12,378.53 | 12,378.53 | - | 17.87 | 1.00 | 4.00 |
| EC-101 | Expander/Compressor | Inlet Gas | 122.34 | 715 | 23 | - | N | N/A | N/A | -- | 6,419.00 | 6,419.00 | - | 22.73 | 1.00 | 4.00 |
| C-141 | Regen Gas Compressor | Inlet Gas | 2.54 | 1,058 | 140 | - | N | N/A | N/A | -- | 158.42 | 158.42 | - | 22.73 | 1.00 | 4.00 |
| P-45050 | Flare KO Pump | Condensate | 1.28 | 13 | 125 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | 1.00 | 4.00 |
| P-47015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-45515 | CO2 Vent Scrubber Pump | Low C Acid Gas | 1.28 | 18 | 125 | - | N | N/A | N/A | -- | 1.39 | 1.39 | - | 42.33 | 1.00 | 4.00 |
| P-47035 | Glycol Storage Pump | Glycol | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-3802, P-3803, P-3804 | Hot Oil Pump | Hot Oil | 17.88 | 53 | 500 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-3303, P-3304 | Amine Booster Pump | Amine | 6.66 | 38 | 200 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-3605 | Defoaming Pump | Amine | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-47021 | Amine Make Up Pump | Amine | 0.72 | 43 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-3702, P-3703, P-3704 | Amine Main Solution Pump | Amine | 8.90 | 63 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-3603, P-3604 | Reflux Pump | Amine | 1.08 | 38 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-46305 | Amine Process Drain Tank Pump | Amine | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-46355 | Amine Area Sump Pump | Amine | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-5601, P-5602 | TEG Main Solution Pump | Glycol | 2.61 | 43 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-46405 | Glycol Process Drain Sump Pump | Glycol | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-46455 | Glycol Area Sump Pump | Glycol | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-46505 | Amine HMO Area Sump Pump | Hot Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-46555 | CO2 Vent Stack Area Sump Pump | Low C Acid Gas | 1.28 | 13 | 125 | - | N | N/A | N/A | -- | 1.00 | 1.00 | - | 42.33 | 1.00 | 4.00 |
| P-46605 | Residue Compressor Area Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-46755 | Cryo HMO Skid Drain Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-46705 | Cryo / Refrig Area Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-5402, P-5403 | TEG Booster Pump | Glycol | 1.32 | 18 | 240 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-5504 | TEG Diaphragm Condensate Drum Pump | Glycol | 1.28 | 18 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-600, P-601, P-602 | Product Charge Pump | Y-Grade | 13.11 | 373 | 150 | 397.30 | Y | Flare | RH4-FL-45100 | 98 | 283.52 | 25.02 | 283.52 | 40.97 | 1.00 | 4.00 |
| P-41600, P-41650, P-41700 | NGL Pipeline Pump | Y-Grade | 9.85 | 373 | 150 | 397.30 | Y | Flare | RH4-FL-45100 | 98 | 213.02 | 18.80 | 213.02 | 40.97 | 1.00 | 4.00 |
| P-609 | Methanol Injection Pump | Methanol | 0.11 | 13 | 125 | 4.05 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 32.04 | 1.00 | 4.00 |
| P-654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-781A, P-781B | HMO Pump | Hot Oil | 2.00 | 53 | 500 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-606, P-607 | Demethanizer Reflux Pump | Y-Grade | 1.66 | 373 | -150 | 397.30 | Y | Flare | RH4-FL-45100 | 98 | 70.48 | 6.22 | 70.48 | 40.97 | 1.00 | 4.00 |
| P-47760 | Methanol Injection Pump | Methanol | 0.38 | 13 | 125 | 4.05 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 32.04 | 1.00 | 4.00 |

*Activity durations are conservative estimates.

## Equipment Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

**Train 4**

| Equipment ID | Equipment Description | Mixture VOC wt% | Vapor Heating Value Btu/scf | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Unflared VOC Emissions | | Total Unflared HAP Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 62.61 | 0.13 | 14.04 | 0.03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 56.71 | 0.11 | 12.72 | 0.03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C-161, C-162, C-163 | Refrigerant Compressor | 100.00 | 2,516.00 | 228.83 | 0.46 | - | - | - | - | - | - | - | - | 3.63 | <0.01 | 14.45 | 0.03 | 24.31 | 0.05 | - | - | - | - | - | - | - | - | - | - |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | <0.01 | - | 0.04 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | 452.63 | 0.91 | 101.50 | 0.20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| EC-101 | Expander/Compressor | 23.25 | - | 89.54 | 0.18 | 1.91 | <0.01 | <0.01 | <0.01 | 26.81 | 0.05 | 201.15 | 0.40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C-141 | Regen Gas Compressor | 23.25 | - | 2.21 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | 0.66 | <0.01 | 4.96 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-45050 | Flare KO Pump | 95.47 | - | 0.12 | <0.01 | 0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-47015 | Residue Compressor Lube Oil Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-45515 | CO2 Vent Scrubber Pump | 0.10 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-47035 | Glycol Storage Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-3802, P-3803, P-3804 | Hot Oil Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-3303, P-3304 | Amine Booster Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-3605 | Defoaming Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-47021 | Amine Make Up Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-3702, P-3703, P-3704 | Amine Main Solution Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-3603, P-3604 | Reflux Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-46305 | Amine Process Drain Tank Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-46355 | Amine Area Sump Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-5601, P-5602 | TEG Main Solution Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-46405 | Glycol Process Drain Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-46455 | Glycol Area Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-46505 | Amine HMO Area Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-46555 | CO2 Vent Stack Area Sump Pump | 0.10 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-46605 | Residue Compressor Area Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-46755 | Cryo HMO Skid Drain Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-46705 | Cryo / Refrig Area Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-5402, P-5403 | TEG Booster Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-5504 | TEG Diaphragm Condensate Drum Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-600, P-601, P-602 | Product Charge Pump | 71.97 | 1,020.00 | 1.95 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.16 | <0.01 | 0.44 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 |
| P-41600, P-41650, P-41700 | NGL Pipeline Pump | 71.97 | 1,020.00 | 1.46 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.12 | <0.01 | 0.33 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 |
| P-609 | Methanol Injection Pump | 100.00 | - | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-654 | Expander Lube Oil Makeup Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-781A, P-781B | HMO Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-606, P-607 | Demethanizer Reflux Pump | 71.97 | 1,020.00 | 0.48 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.11 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 |
| P-47760 | Methanol Injection Pump | 100.00 | - | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Activity durations are conservative estimates. | | **Train 4 Vented SSM** | | **228.83** | **0.65** | **1.91** | **<0.01** | **###** | **<0.01** | **452.63** | **1.20** | **201.15** | **0.67** | | | | | | | | | | | | | | | | |
| | | **RH4-FL-45100 Flaring** | | | | | | | | | | | | **3.63** | **<0.01** | **14.45** | **0.03** | **24.31** | **0.05** | **-** | **-** | **-** | **-** | **-** | **-** | **<0.01** | **<0.01** | **<0.01** | **<0.01** |

## Equipment Blowdown SSM Emissions
**Targa Northern Delaware, LLC**

**Train 5**

| Equipment ID | Equipment Description | Service | Equipment Volume | Operating Pressure | Temp. | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/lb-mol | hours | activities/yr |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | 263 | 300 | - | N | N/A | N/A | -- | 1,712.34 | 1,712.34 | - | 17.87 | 1.00 | 4.00 |
| C-50161, C-50162, C-50163 | Refrigerant Compressor | Propane | 973.73 | 185 | 117 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 10,448.06 | 1,966.74 | 10,448.06 | 44.10 | 1.00 | 4.00 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1011.48 | 263 | 300 | - | N | N/A | N/A | -- | 12,378.53 | 12,378.53 | - | 17.87 | 1.00 | 4.00 |
| EC-50101 | Expander/Compressor | Inlet Gas | 122.34 | 715 | 23 | - | N | N/A | N/A | -- | 6,419.00 | 6,419.00 | - | 22.73 | 1.00 | 4.00 |
| C-50141 | Regen Gas Compressor | Inlet Gas | 2.54 | 1,058 | 140 | - | N | N/A | N/A | -- | 158.42 | 158.42 | - | 22.73 | 1.00 | 4.00 |
| P-55050 | Flare KO Pump | Condensate | 1.28 | 13 | 125 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | 1.00 | 4.00 |
| P-57015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-55515 | CO2 Vent Scrubber Pump | Low C Acid Gas | 1.28 | 18 | 125 | - | N | N/A | N/A | -- | 1.39 | 1.39 | - | 42.33 | 1.00 | 4.00 |
| P-57035 | Glycol Storage Pump | Glycol | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-53802, P-53803, P-53804 | HMO Pump | Hot Oil | 17.88 | 53 | 500 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-53302, P-53303 | Amine Booster Pump | Amine | 6.66 | 38 | 200 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-53605, P-53705 | Defoaming Pump | Amine | 2.56 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-57021 | Amine Make Up Pump | Amine | 0.72 | 43 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-53702, P-53703, P-53704 | Amine Main Solution Pump | Amine | 8.90 | 63 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-53603, P-53604 | Reflux Pump | Amine | 1.08 | 38 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-56305 | Amine Process Drain Tank Pump | Amine | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-56355 | Amine Area Sump Pump | Amine | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-55601, P-55602 | TEG Circulation Pumps | Glycol | 2.61 | 43 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-56405 | Glycol Process Drain Sump Pump | Glycol | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-56455 | Glycol Area Sump Pump | Glycol | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-56505 | Amine HMO Area Sump Pump | Hot Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-56555 | CO2 Vent Stack Area Sump Pump | Low C Acid Gas | 1.28 | 13 | 125 | - | N | N/A | N/A | -- | 1.00 | 1.00 | - | 42.33 | 1.00 | 4.00 |
| P-56605 | Residue Compressor Area Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-56755 | Cryo HMO Skid Drain Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-56705 | Cryo / Refrig Area Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-55402, P-55403 | TEG Booster Pump | Glycol | 1.32 | 18 | 240 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-55504 | BTEX Pump | Glycol | 1.28 | 18 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-50600, P-50601, P-50602 | Product Charge Pump | Y-Grade | 13.11 | 373 | 150 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 283.52 | 25.02 | 283.52 | 40.97 | 1.00 | 4.00 |
| P-51600, P-51650, P-51700 | NGL Pipeline Pump | Y-Grade | 9.85 | 373 | 150 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 213.02 | 18.80 | 213.02 | 40.97 | 1.00 | 4.00 |
| P-50609 | Methanol Injection Pump | Methanol | 0.11 | 13 | 125 | 4.05 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 32.04 | 1.00 | 4.00 |
| P-50654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-50781A, P-50781B | HMO Pump | Hot Oil | 2.00 | 53 | 500 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |

*Activity durations are conservative estimates.

## Equipment Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

**Train 5**

| Equipment ID | Equipment Description | Mixture VOC wt% | Vapor Heating Value Btu/scf | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Unflared VOC Emissions | | Total Unflared HAP Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 62.61 | 0.13 | 14.04 | 0.03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C-50161, C-50162, C-50163 | Refrigerant Compressor | 100.00 | 2,516.00 | 228.83 | 0.46 | - | - | - | - | - | - | - | - | 3.63 | <0.01 | 14.45 | 0.03 | 24.31 | 0.05 | - | - | - | - | - | - | - | - | - | - |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | <0.01 | - | 0.04 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | 452.63 | 0.91 | 101.50 | 0.20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| EC-50101 | Expander/Compressor | 23.25 | - | 89.54 | 0.18 | 1.91 | <0.01 | <0.01 | <0.01 | 26.81 | 0.05 | 201.15 | 0.40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C-50141 | Regen Gas Compressor | 23.25 | - | 2.21 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | 0.66 | <0.01 | 4.96 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-55050 | Flare KO Pump | 95.47 | - | 0.12 | <0.01 | 0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-57015 | Residue Compressor Lube Oil Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-55515 | CO2 Vent Scrubber Pump | 0.10 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-57035 | Glycol Storage Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-53802, P-53803, P-53804 | HMO Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-53302, P-53303 | Amine Booster Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-53605, P-53705 | Defoaming Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-57021 | Amine Make Up Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-53702, P-53703, P-53704 | Amine Main Solution Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-53603, P-53604 | Reflux Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-56305 | Amine Process Drain Tank Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-56355 | Amine Area Sump Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-55601, P-55602 | TEG Circulation Pumps | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-56405 | Glycol Process Drain Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-56455 | Glycol Area Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-56505 | Amine HMO Area Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-56555 | CO2 Vent Stack Area Sump Pump | 0.10 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-56605 | Residue Compressor Area Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-56755 | Cryo HMO Skid Drain Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-56705 | Cryo / Refrig Area Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-55402, P-55403 | TEG Booster Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-55504 | BTEX Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-50600, P-50601, P-50602 | Product Charge Pump | 71.97 | 1,020.00 | 1.95 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.16 | <0.01 | 0.44 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 |
| P-51600, P-51650, P-51700 | NGL Pipeline Pump | 71.97 | 1,020.00 | 1.46 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.12 | <0.01 | 0.33 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 |
| P-50609 | Methanol Injection Pump | 100.00 | - | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-50654 | Expander Lube Oil Makeup Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-50781A, P-50781B | HMO Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Activity durations are conservative estimates. | | **Train 5 Vented SSM** | | **228.83** | **0.65** | **1.91** | **<0.01** | **###** | **<0.01** | **452.63** | **1.09** | **201.15** | **0.64** | | | | | | | | | | | | | | | | |
| | | **RH5-FL-55100 Flaring** | | | | | | | | | | | | **3.63** | **<0.01** | **14.45** | **0.03** | **24.31** | **0.05** | **-** | **-** | **-** | **-** | **-** | **-** | **<0.01** | **<0.01** | **<0.01** | **<0.01** |

## Equipment Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

**Train 6**

| Equipment ID | Equipment Description | Service | Equipment Volume | Operating Pressure | Temp. | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/lb-mol | hours | activities/yr |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | 263 | 300 | - | N | N/A | N/A | -- | 1,712.34 | 1,712.34 | - | 17.87 | 1.00 | 4.00 |
| HAL-69300, HAL-69400 | Flash Gas Compressor Intercooler / Aftercooler | Inlet Gas | 48.06 | 163 | 300 | - | Y | Flare | RH4-FL-45100 | 98 | 364.42 | 73.62 | 364.42 | 22.73 | 1.00 | 4.00 |
| C-60161, C-60162, C-60163 | Refrigerant Compressor | Propane | 973.73 | 185 | 117 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 10,448.06 | 1,966.74 | 10,448.06 | 44.10 | 1.00 | 4.00 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1011.48 | 263 | 300 | - | N | N/A | N/A | -- | 12,378.53 | 12,378.53 | - | 17.87 | 1.00 | 4.00 |
| C-69300, C-69400 | Flash Gas Compressor | Inlet Gas | 151.91 | 163 | 300 | - | Y | Flare | RH4-FL-45100 | 98 | 1,151.94 | 232.71 | 1,151.94 | 22.73 | 1.00 | 4.00 |
| EC-60101 | Expander/Compressor | Inlet Gas | 122.34 | 715 | 23 | - | N | N/A | N/A | -- | 6,419.00 | 6,419.00 | - | 22.73 | 1.00 | 4.00 |
| C-60141 | Regen Gas Compressor | Inlet Gas | 2.54 | 1,058 | 140 | - | N | N/A | N/A | -- | 158.42 | 158.42 | - | 22.73 | 1.00 | 4.00 |
| P-67015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-67005 | Flash Gas Compressor Lube Oil Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-63802, P-63803, P-63804 | HMO Pump | Hot Oil | 17.88 | 53 | 500 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-61500, P-61525 | Stabilizer NGL Booster Pump | Y-Grade | 9.55 | 273 | 125 | 397.30 | N | N/A | N/A | -- | 157.61 | 157.61 | - | 40.97 | 1.00 | 4.00 |
| P-61550, P-61575 | Stabilizer NGL Pipeline Pump | Y-Grade | 5.09 | 273 | 135 | 397.30 | Y | Flare | RH4-FL-45100 | 98 | 82.65 | 9.97 | 82.65 | 40.97 | 1.00 | 4.00 |
| P-65601, P-65602 | TEG Circulation Pumps | Glycol | 2.61 | 43 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-66755 | Stabilizer Area Sump Pump | Condensate | 1.28 | 13 | 125 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | 1.00 | 1.00 |
| P-66805 | Stabilizer HMO Area Sump Pump | Hot Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 1.00 |
| P-66605 | Residue Compressor Area Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-66850 | Flash Gas Compressor Area Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-66705 | Cryo / Refrig Area Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-65402, P-65403 | TEG Booster Pump | Glycol | 1.32 | 18 | 240 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-65504 | BTEX Pump | Glycol | 1.28 | 18 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | 1.00 | 4.00 |
| P-60600, P-60601, P-60602 | Product Charge Pump | Y-Grade | 13.11 | 373 | 150 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 283.52 | 25.02 | 283.52 | 40.97 | 1.00 | 4.00 |
| P-61600, P-61650, P-61700 | NGL Pipeline Pump | Y-Grade | 9.85 | 373 | 150 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 213.02 | 18.80 | 213.02 | 40.97 | 1.00 | 4.00 |
| P-60609 | Methanol Injection Pump | Methanol | 0.11 | 13 | 125 | 4.05 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 32.04 | 1.00 | 4.00 |
| P-60654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-60781A, P-60781B | HMO Pump | Hot Oil | 2.00 | 53 | 500 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |

*Activity durations are conservative estimates.

## Equipment Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

**Train 6**

| Equipment ID | Equipment Description | Mixture VOC wt% | Vapor Heating Value Btu/scf | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Unflared VOC Emissions | | Total Unflared HAP Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 62.61 | 0.13 | 14.04 | 0.03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HAL-69300, HAL-69400 | Flash Gas Compressor Intercooler / Aftercooler | 23.25 | 1,097.43 | 1.03 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 0.31 | <0.01 | 2.31 | <0.01 | 0.06 | <0.01 | 0.22 | <0.01 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 0.31 | <0.01 | 2.31 | <0.01 |
| C-60161, C-60162, C-60163 | Refrigerant Compressor | 100.00 | 2,516.00 | 228.83 | 0.46 | - | - | - | - | - | - | - | - | 3.63 | <0.01 | 14.45 | 0.03 | 24.31 | 0.05 | - | - | - | - | - | - | - | - | - | - |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | <0.01 | - | 0.04 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | 452.63 | 0.91 | 101.50 | 0.20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C-69300, C-69400 | Flash Gas Compressor | 23.25 | 1,097.43 | 3.25 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | 0.97 | <0.01 | 7.29 | 0.01 | 0.17 | <0.01 | 0.69 | <0.01 | 0.32 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.07 | <0.01 | 0.97 | <0.01 | 7.29 | 0.01 |
| EC-60101 | Expander/Compressor | 23.25 | - | 89.54 | 0.18 | 1.91 | <0.01 | <0.01 | <0.01 | 26.81 | 0.05 | 201.15 | 0.40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C-60141 | Regen Gas Compressor | 23.25 | - | 2.21 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | 0.66 | <0.01 | 4.96 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-67015 | Residue Compressor Lube Oil Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-67005 | Flash Gas Compressor Lube Oil Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-63802, P-63803, P-63804 | HMO Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-61500, P-61525 | Stabilizer NGL Booster Pump | 71.97 | - | 12.26 | 0.02 | - | - | - | - | 0.02 | <0.01 | 0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-61550, P-61575 | Stabilizer NGL Pipeline Pump | 71.97 | 1,020.00 | 0.78 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 0.05 | <0.01 | 0.13 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 |
| P-65601, P-65602 | TEG Circulation Pumps | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-66755 | Stabilizer Area Sump Pump | 95.47 | - | 0.12 | <0.01 | 0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-66805 | Stabilizer HMO Area Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-66605 | Residue Compressor Area Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-66850 | Flash Gas Compressor Area Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-66705 | Cryo / Refrig Area Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-65402, P-65403 | TEG Booster Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-65504 | BTEX Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-60600, P-60601, P-60602 | Product Charge Pump | 71.97 | 1,020.00 | 1.95 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.16 | <0.01 | 0.44 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 |
| P-61600, P-61650, P-61700 | NGL Pipeline Pump | 71.97 | 1,020.00 | 1.46 | <0.01 | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.12 | <0.01 | 0.33 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 |
| P-60609 | Methanol Injection Pump | 100.00 | - | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-60654 | Expander Lube Oil Makeup Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-60781A, P-60781B | HMO Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Train 6 Vented SSM** | | | | **228.83** | **0.68** | **1.91** | **<0.01** | **###** | **<0.01** | **452.63** | **1.09** | **201.15** | **0.66** | | | | | | | | | | | | | | | | |
| **RH4-FL-45100 Flaring** | | | | | | | | | | | | | | **0.17** | **<0.01** | **0.69** | **<0.01** | **0.32** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.07** | **<0.01** | **0.97** | **<0.01** | **7.29** | **0.02** |
| **RH5-FL-55100 Flaring** | | | | | | | | | | | | | | **3.63** | **<0.01** | **14.45** | **0.03** | **24.31** | **0.05** | **-** | **-** | **-** | **-** | **-** | **-** | **<0.01** | **<0.01** | **<0.01** | **<0.01** |

*Activity durations are conservative estimates.

## Equipment Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

**FET-1**

| Equipment ID | Equipment Description | Service | Equipment Volume | Operating Pressure | Temp. | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/lb-mol | hours | activities/yr |
| HAL-5530 | Acid Gas Compressor Intercooler / Aftercooler | Acid Gas | 9.20 | 23 | 300 | - | Y | Flare | RHA-FL-5100 | 98 | 9.81 | 9.81 | 9.81 | 41.22 | 1.00 | 4.00 |
| HAL-5540 | Acid Gas Compressor Intercooler / Aftercooler | Acid Gas | 12.18 | 23 | 300 | - | Y | Flare | RHA-FL-5100 | 98 | 12.99 | 12.99 | 12.99 | 41.22 | 1.00 | 4.00 |
| C-5530 | Acid Gas Compressor | Acid Gas | 47.60 | 23 | 300 | - | Y | Flare | RHA-FL-5100 | 98 | 50.77 | 50.77 | 50.77 | 41.22 | 1.00 | 4.00 |
| C-5540 | Acid Gas Compressor | Acid Gas | 75.37 | 23 | 300 | - | Y | Flare | RHA-FL-5100 | 98 | 80.37 | 80.37 | 80.37 | 41.22 | 1.00 | 4.00 |
| P-4304, P-4305 | Amine Booster Pumps | Amine | 6.66 | 38 | 200 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-4404, P-4405 | Reflux Pumps | Acid Gas | 1.08 | 38 | 125 | - | N | N/A | N/A | -- | 2.47 | 2.47 | - | 41.22 | 1.00 | 4.00 |
| P-4802, P-4803, P-4804 | Hot Oil Pumps | Hot Oil | 17.88 | 53 | 500 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-4701, P-4702 | Amine Solution Pumps | Amine | 8.35 | 63 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-5805 | Condensate Drip Pot Pump | Condensate | 1.28 | 13 | 125 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | 1.00 | 4.00 |
| P-5150 | Flare Drain Pump | Condensate | 1.28 | 13 | 125 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | 1.00 | 4.00 |
| P-5525 | Acid Gas K.O. Drum Pump | Sour Water | 1.28 | 13 | 125 | 0.71 | N | N/A | N/A | -- | 0.05 | 0.05 | - | 40.58 | 1.00 | 4.00 |
| P-5515 | Acid Gas Scrubber Pump | Sour Water | 1.28 | 13 | 125 | 0.71 | N | N/A | N/A | -- | 0.05 | 0.05 | - | 40.58 | 1.00 | 4.00 |
| PBA-7100 | CO2 Pipeline Supply Pump | Acid Gas | 2.37 | 1,963 | 125 | - | Y | Flare | RHA-FL-5100 | 98 | 281.11 | 4.71 | 281.11 | 41.22 | 1.00 | 4.00 |
| P-6305 | Amine Process Drain Sump Pump | Amine | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-6405 | AGI Compressor Drain Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-7021 | Amine Make Up Pump | Amine | 0.72 | 43 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-7760 | Methanol Injection Pump | Methanol | 0.38 | 13 | 125 | 4.05 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 32.04 | 1.00 | 4.00 |
| P-7770 | Methanol Injection Pump | Methanol | 0.38 | 13 | 125 | 4.05 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 32.04 | 1.00 | 4.00 |

*Activity durations are conservative estimates.

**FET-2**

| Equipment ID | Equipment Description | Service | Equipment Volume | Operating Pressure | Temp. | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/lb-mol | hours | activities/yr |
| HAL-25530, HAL-25540, HAL-25550 | Acid Gas Compressor Intercooler / Aftercooler | Acid Gas | 113.64 | 23 | 300 | - | Y | Flare | RA2-FL-25100 | 98 | 121.19 | 94.74 | 121.19 | 41.22 | 1.00 | 4.00 |
| HAL-29300, HAL-29400, HAL-29500 | Flash Gas Compressor Intercooler / Aftercooler | Sour Inlet Gas | 70.07 | 88 | 300 | - | Y | Flare | RA2-FL-25100 | 98 | 286.74 | 107.35 | 286.74 | 24.07 | 1.00 | 4.00 |
| C-25530, C-25540, C-25550 | Acid Gas Compressor | Acid Gas | 315.22 | 23 | 300 | - | Y | Flare | RA2-FL-25100 | 98 | 336.16 | 262.80 | 336.16 | 41.22 | 1.00 | 4.00 |
| C-21410, C-21420, C-21430, C-21440 | Closed Drain VRU Compressor | Sour Inlet Gas | 94.86 | 63 | 300 | - | Y | Flare | RA2-FL-25100 | 98 | 277.79 | 145.32 | 277.79 | 24.07 | 1.00 | 4.00 |
| C-29300, C-29400, C-29500 | Flash Gas Compressor | Acid Gas | 165.30 | 88 | 300 | - | Y | Flare | RA2-FL-25100 | 98 | 676.43 | 137.81 | 676.43 | 41.22 | 1.00 | 4.00 |
| P-25515 | Acid Gas Scrubber Pump | Sour Water | 1.28 | 38 | 125 | 0.71 | N | N/A | N/A | -- | 0.05 | 0.05 | - | 40.58 | 1.00 | 4.00 |
| P-21404, P-21405 | Off-Spec Condensate Re-run Pumps | Condensate | 3.13 | 63 | 125 | 6.80 | Y | Flare | RA2-FL-25850 | 98 | 1.29 | 1.29 | 1.29 | 93.55 | 1.00 | 4.00 |
| P-29305, P-29405, P-29505 | Flash Gas Compressor PSV Discharge Pump | Sour Inlet Gas | 3.84 | 13 | 125 | - | N | N/A | N/A | -- | 3.00 | 3.00 | - | 24.07 | 1.00 | 4.00 |
| P-25535, P-25545, P-25555 | Acid Gas Compressor PSV Discharge Pump | Sour Water | 3.84 | 13 | 125 | 0.71 | N | N/A | N/A | -- | 0.16 | 0.16 | - | 40.58 | 1.00 | 4.00 |
| P-25150 | Flare KO Drum Pump | Condensate | 1.28 | 13 | 125 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | 1.00 | 4.00 |
| P-25525 | Acid Gas KO Drum Pump | Sour Water | 1.28 | 13 | 125 | 0.71 | N | N/A | N/A | -- | 0.05 | 0.05 | - | 40.58 | 1.00 | 4.00 |
| P-25805 | Sour Slop Tank Flare Knockout Drum Pump | Condensate | 1.28 | 13 | 125 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | 1.00 | 4.00 |
| P-27021 | Amine Makeup Pump | Amine | 0.72 | 43 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-27760 | Methanol Injection Pump | Methanol | 0.38 | 13 | 125 | 4.05 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 32.04 | 1.00 | 4.00 |
| P-27770 | AGI Compressor Methanol Injection Pump | Methanol | 0.38 | 13 | 125 | 4.05 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 32.04 | 1.00 | 4.00 |
| P-27005 | PAG ISO 100 Lube Oil Makeup Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-27015 | PAG ISO 150 Lube Oil Makeup Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-26605 | AGI Compressor Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-26855 | Flash Gas Compressor Sump Pump | Lube Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-23802, P-23803, P-23804 | HMO Pump | Hot Oil | 17.88 | 53 | 500 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-26505 | HMO Area Sump Pump | Hot Oil | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | 1.00 | 4.00 |
| P-23302, P-23303 | Amine Booster Pump | Amine | 6.66 | 38 | 200 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-23605 | Anti-Foam Injection Pump | Amine | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-23603, P-23604 | Reflux Pump | Amine | 1.08 | 38 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-23702, P-23703 | Amine Solution Pump | Amine | 5.93 | 63 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-26355 | Amine Area Sump Pump | Amine | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |
| P-26305 | Amine Process Drain Tank Pump | Amine | 1.28 | 13 | 125 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | 1.00 | 4.00 |

*Activity durations are conservative estimates.

## Equipment Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

**FET-1**

| Equipment ID | Equipment Description | Mixture VOC wt% | Vapor Heating Value Btu/scf | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Unflared VOC Emissions | | Total Unflared HAP Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| HAL-5530 | Acid Gas Compressor Intercooler / Aftercooler | 0.05 | 75.39 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | 0.94 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.17 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.94 | <0.01 | <0.01 | <0.01 |
| HAL-5540 | Acid Gas Compressor Intercooler / Aftercooler | 0.05 | 75.39 | <0.01 | <0.01 | <0.01 | <0.01 | 0.12 | <0.01 | 1.25 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.23 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.25 | <0.01 | <0.01 | <0.01 |
| C-5530 | Acid Gas Compressor | 0.05 | 75.39 | <0.01 | <0.01 | <0.01 | <0.01 | 0.49 | <0.01 | 4.87 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.90 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.87 | <0.01 | <0.01 | <0.01 |
| C-5540 | Acid Gas Compressor | 0.05 | 75.39 | <0.01 | <0.01 | <0.01 | <0.01 | 0.77 | <0.01 | 7.71 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.42 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 7.71 | 0.02 | <0.01 | <0.01 |
| P-4304, P-4305 | Amine Booster Pumps | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-4404, P-4405 | Reflux Pumps | 0.05 | - | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 0.24 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-4802, P-4803, P-4804 | Hot Oil Pumps | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-4701, P-4702 | Amine Solution Pumps | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-5805 | Condensate Drip Pot Pump | 95.47 | - | 0.12 | <0.01 | 0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-5150 | Flare Drain Pump | 95.47 | - | 0.12 | <0.01 | 0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-5525 | Acid Gas K.O. Drum Pump | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-5515 | Acid Gas Scrubber Pump | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PBA-7100 | CO2 Pipeline Supply Pump | 0.05 | 75.39 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | 0.45 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | 0.45 | <0.01 | <0.01 | <0.01 |
| P-6305 | Amine Process Drain Sump Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-6405 | AGI Compressor Drain Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-7021 | Amine Make Up Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-7760 | Methanol Injection Pump | 100.00 | - | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-7770 | Methanol Injection Pump | 100.00 | - | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Activity durations are conservative estimates. | **FET-1 Vented SSM** | | | **0.12** | **<0.01** | **0.01** | **<0.01** | **0.77** | **<0.01** | **7.71** | **0.03** | **<0.01** | **<0.01** | | | | | | | | | | | | | | | | |
| | **RHA-FL-5100 Flaring** | | | | | | | | | | | | | **<0.01** | **<0.01** | **0.01** | **<0.01** | **<0.01** | **<0.01** | **1.42** | **<0.01** | **0.05** | **<0.01** | **<0.01** | **<0.01** | **7.71** | **0.03** | **<0.01** | **<0.01** |

**FET-2**

| Equipment ID | Equipment Description | Mixture VOC wt% | Vapor Heating Value Btu/scf | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Unflared VOC Emissions | | Total Unflared HAP Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| HAL-25530, HAL-25540, HAL-25550 | Acid Gas Compressor Intercooler / Aftercooler | 0.05 | 75.39 | <0.01 | <0.01 | <0.01 | <0.01 | 0.91 | <0.01 | 9.09 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.67 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 9.09 | 0.02 | <0.01 | <0.01 |
| HAL-29300, HAL-29400, HAL-29500 | Flash Gas Compressor Intercooler / Aftercooler | 18.89 | 1,170.00 | 1.29 | <0.01 | 0.02 | <0.01 | 0.26 | <0.01 | 0.73 | <0.01 | 3.71 | <0.01 | 0.05 | <0.01 | 0.18 | <0.01 | 0.07 | <0.01 | 0.49 | <0.01 | 0.01 | <0.01 | 0.02 | <0.01 | 0.73 | <0.01 | 3.71 | <0.01 |
| C-25530, C-25540, C-25550 | Acid Gas Compressor | 0.05 | 75.39 | 0.01 | <0.01 | <0.01 | <0.01 | 2.51 | <0.01 | 25.21 | 0.05 | 0.02 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | 4.64 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 | 25.21 | 0.05 | 0.02 | <0.01 |
| C-21410, C-21420, C-21430, C-21440 | Closed Drain VRU Compressor | 18.89 | 1,170.00 | 1.74 | <0.01 | 0.03 | <0.01 | 0.36 | <0.01 | 0.98 | <0.01 | 5.03 | 0.01 | 0.04 | <0.01 | 0.18 | <0.01 | 0.07 | <0.01 | 0.66 | <0.01 | 0.01 | <0.01 | 0.03 | <0.01 | 0.98 | <0.01 | 5.03 | 0.01 |
| C-29300, C-29400, C-29500 | Flash Gas Compressor | 0.05 | 75.39 | <0.01 | <0.01 | <0.01 | <0.01 | 1.32 | <0.01 | 13.22 | 0.03 | 0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | 2.43 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 | 13.22 | 0.03 | 0.01 | <0.01 |
| P-25515 | Acid Gas Scrubber Pump | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-21404, P-21405 | Off-Spec Condensate Re-run Pumps | 95.47 | 3,394.62 | 0.30 | <0.01 | 0.03 | <0.01 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | 0.03 | <0.01 | - | - | - | - |
| P-29305, P-29405, P-29505 | Flash Gas Compressor PSV Discharge Pump | 18.89 | - | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 0.10 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-25535, P-25545, P-25555 | Acid Gas Compressor PSV Discharge Pump | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-25150 | Flare KO Drum Pump | 95.47 | - | 0.12 | <0.01 | 0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-25525 | Acid Gas KO Drum Pump | <0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-25805 | Sour Slop Tank Flare Knockout Drum Pump | 95.47 | - | 0.12 | <0.01 | 0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-27021 | Amine Makeup Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-27760 | Methanol Injection Pump | 100.00 | - | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-27770 | AGI Compressor Methanol Injection Pump | 100.00 | - | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-27005 | PAG ISO 100 Lube Oil Makeup Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-27015 | PAG ISO 150 Lube Oil Makeup Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-26605 | AGI Compressor Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-26855 | Flash Gas Compressor Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-23802, P-23803, P-23804 | HMO Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-26505 | HMO Area Sump Pump | 100.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-23302, P-23303 | Amine Booster Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-23605 | Anti-Foam Injection Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-23603, P-23604 | Reflux Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-23702, P-23703 | Amine Solution Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-26355 | Amine Area Sump Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-26305 | Amine Process Drain Tank Pump | 5.00 | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Activity durations are conservative estimates. | **FET-2 Vented SSM** | | | **1.74** | **<0.01** | **0.03** | **<0.01** | **3.42** | **0.01** | **25.21** | **0.10** | **5.03** | **0.02** | | | | | | | | | | | | | | | | |
| | **RA2-FL-25100 Flaring** | | | | | | | | | | | | | **0.05** | **<0.01** | **0.18** | **<0.01** | **0.07** | **<0.01** | **4.64** | **0.02** | **0.13** | **<0.01** | **0.03** | **<0.01** | **25.21** | **0.10** | **5.03** | **0.02** |
| | **RA2-FL-25850 Flaring** | | | | | | | | | | | | | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **-** | **-** | **-** | **-** | **0.03** | **<0.01** | **-** | **-** | **-** | **-** |

## Equipment Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

**Vented Equipment Blowdown Summary**

| | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| **Train 1 Vented SSM** | 76.28 | 0.30 | <0.01 | <0.01 | 0.22 | <0.01 | 10.08 | 0.03 | 22.70 | 0.06 |
| **Train 2 Vented SSM** | 228.83 | 0.65 | <0.01 | <0.01 | 1.91 | <0.01 | 452.63 | 1.20 | 201.15 | 0.67 |
| **Train 3 Vented SSM** | 228.83 | 0.65 | <0.01 | <0.01 | 1.91 | <0.01 | 452.63 | 1.20 | 201.15 | 0.67 |
| **Train 4 Vented SSM** | 228.83 | 0.65 | <0.01 | <0.01 | 1.91 | <0.01 | 452.63 | 1.20 | 201.15 | 0.67 |
| **Train 5 Vented SSM** | 228.83 | 0.65 | <0.01 | <0.01 | 1.91 | <0.01 | 452.63 | 1.09 | 201.15 | 0.64 |
| **Train 6 Vented SSM** | 228.83 | 0.68 | <0.01 | <0.01 | 1.91 | <0.01 | 452.63 | 1.09 | 201.15 | 0.66 |
| **FET-1 Vented SSM** | 0.12 | <0.01 | 0.77 | <0.01 | 0.01 | <0.01 | 7.71 | 0.03 | <0.01 | <0.01 |
| **FET-2 Vented SSM** | 1.74 | <0.01 | 3.42 | 0.01 | 0.03 | <0.01 | 25.21 | 0.10 | 5.03 | 0.02 |

**Flared Equiment Blowdown Summary**

| | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| **RH1-FL-29-1003 Flaring** | 1.21 | <0.01 | 4.82 | 0.02 | 8.10 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 0.22 | <0.01 | 10.08 | 0.03 | 22.70 | 0.06 |
| **RH2-FL-5100 Flaring** | 3.63 | <0.01 | 14.45 | 0.03 | 24.31 | 0.05 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 |
| **RH3-FL-5100 Flaring** | 3.63 | <0.01 | 14.45 | 0.03 | 24.31 | 0.05 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 |
| **RH4-FL-45100 Flaring** | 3.80 | <0.01 | 15.14 | 0.03 | 24.63 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | 0.07 | <0.01 | 0.97 | <0.01 | 7.29 | 0.02 |
| **RH5-FL-55100 Flaring** | 7.26 | 0.01 | 28.90 | 0.06 | 48.63 | 0.10 | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 |
| **RHA-FL-5100 Flaring** | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | 1.42 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | 7.71 | 0.03 | <0.01 | <0.01 |
| **RA2-FL-25100 Flaring** | 0.05 | <0.01 | 0.18 | <0.01 | 0.07 | <0.01 | 4.64 | 0.02 | 0.13 | <0.01 | 0.03 | <0.01 | 25.21 | 0.10 | 5.03 | 0.02 |
| **RA2-FL-25850 Flaring** | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | - | - | - | 0.03 | <0.01 | - | - | - | - |

**Sample Calculations:**

Vo = V * Pmin1 * (519.67 °R) / (14.696 psia * To)

Va = V * Pmin2 * (519.67 °R) / (14.696 psia * To)

Vf = Vo - Va

Where:

Vo = Volume at Operating Conditions ($ft^3$)

V = Volume of Vessel ($ft^3$)

Pmin1 = Minimum of vapor and operating pressure (psia)

To = Operating temperature (°R)

Va = Volume released to atmosphere ($ft^3$)

Pmin2 = Minimum of vapor, flared blowdown, and operating pressure (psia)

Vf = Volume of gas sent to flare ($ft^3$)

Efh = Vf / (379 scf/lb-mol) * MW * VOC wt% / t * (1 - DRE)

Efy = Efh * t * a

Eah = Va / (379 scf/lb-mol) * MW * VOC wt% / t

Eay = Eah * t * a

Where:

Efh = hourly flared VOC emission rate (lb/hr)

MW = molecular weight (lb/lb-mol)

VOC wt% = weight percent of VOC (%)

t = activity duration (hr)

DRE = Destruction efficiency of flare (%)

Efy = yearly flared VOC emission rate (tpy)

a = activities per year

Eah = hourly vented VOC emission rate (lb/hr)

Eay = yearly vented VOC emission rate (tpy)

Eay = yearly vented VOC emission rate (tpy)

These example calculations are not intended to be representations under 106.6(b), but are an example of the emission calculation approach for a sub-category of MSS emissions activities. The basis of the example emission calculation (such as volume, concentration, pressure)

# Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

**Calculation Basis:**

Emissions from vessel maintenance activities are calculated using the ideal gas law.

| | | |
|---|---|---|
| **Minimum Flared Blowdown Pressure** | 20 | psig |
| **Atmospheric Pressure** | 12.91 | psia |

**Train 1**

| Train 1 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/lb-mol | Btu/scf | hours |
| 21-107 | Condensate Cooler | Condensate | 4.12 | 203 | 147.50 | 6.80 | Y | Flare | RH1-FL-29-1003 | 98 | 1.63 | 1.63 | 1.63 | 93.55 | 3394.62 | 4.00 |
| 21-110 | Overhead Compressor Interstage Cooler | Sour Inlet Gas (B&S) | 0.88 | 413 | 300.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 16.96 | 1.35 | 16.96 | 24.07 | 1170.00 | 4.00 |
| 21-602 | Expander/Compressor Discharge Cooler | Residue Gas | 33.23 | 313 | 147.50 | - | Y | Flare | RH1-FL-29-1003 | 98 | 605.63 | 63.70 | 605.63 | 17.87 | 1126.07 | 4.00 |
| 21-604 | Sales Compression Interstage Discharge Cooler | Residue Gas | 43.09 | 663 | 300.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 1,329.49 | 66.00 | 1,329.49 | 17.87 | 1126.07 | 4.00 |
| 21-607 | Sales Compression Discharge Cooler | Residue Gas | 68.08 | 1385 | 212.50 | - | Y | Flare | RH1-FL-29-1003 | 98 | 4,960.36 | 117.87 | 4,960.36 | 17.87 | 1126.07 | 4.00 |
| HAL-42-15-U205, HAL-42-15-U206 | Flash Gas Compressor Intercooler / Aftercooler | Inlet Gas | 53.75 | 163 | 300.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 407.62 | 82.34 | 407.62 | 22.73 | 1097.43 | 4.00 |
| 21-405 | Regen Gas Cooler | Inlet Gas | 10.80 | 918 | 312.50 | - | Y | Flare | RH1-FL-29-1003 | 98 | 453.95 | 16.28 | 453.95 | 22.73 | 1097.43 | 4.00 |
| HZZ-1100 | Glycol Vapor Condenser | Glycol | 3.89 | 18 | 175.00 | 0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 | <0.01 | 150.17 | 1020.00 | 4.00 |
| 21-213 | Lean Amine Cooler | Amine | 58.23 | 103 | 162.50 | 0.01 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 105.14 | -- | 4.00 |
| 21-214 | Amine Stripper Reflux Cooler | Low C Acid Gas | 67.35 | 38 | 187.50 | - | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 139.51 | 121.11 | 139.51 | 42.33 | 5.70 | 4.00 |
| 21-802A, 21-802B | Propane Condenser | Propane | 142.64 | 283 | 175.00 | 174.83 | Y | Flare | RH1-FL-29-1003 | 98 | 1,389.41 | 261.54 | 1,389.41 | 44.10 | 2516.00 | 4.00 |
| AC-1401 | Product Cooler | Condensate | 4.59 | 168 | 162.50 | 6.80 | Y | Flare | RH1-FL-29-1003 | 98 | 1.77 | 1.77 | 1.77 | 93.55 | 3394.62 | 4.00 |
| AC-1401 | Product Cooler | Condensate | 4.59 | 168 | 162.50 | 6.80 | Y | Flare | RH1-FL-29-1003 | 98 | 1.77 | 1.77 | 1.77 | 93.55 | 3394.62 | 4.00 |
| 42-108A, 42-108B | Stabilizer Overhead Compressor | Sour Inlet Gas (B&S) | 12.21 | 113 | 300.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 64.19 | 18.71 | 64.19 | 24.07 | 1170.00 | 4.00 |
| 45-507 | Expander/Compressor | Inlet Gas | 36.67 | 600 | 22.50 | - | Y | Flare | RH1-FL-29-1003 | 98 | 1,614.54 | 88.50 | 1,614.54 | 22.73 | 1097.43 | 4.00 |
| 42-601A, 42-601B, 42-601C | Sales Gas Compressor | Residue Gas | 179.89 | 213 | 300.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 1,782.81 | 275.57 | 1,782.81 | 17.87 | 1126.07 | 4.00 |
| 42-15-U205, 42-15-U206 | Flash Gas Compressor | Inlet Gas | 472.90 | 163 | 300.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 3,586.06 | 724.43 | 3,586.06 | 22.73 | 1097.43 | 4.00 |
| 42-801A, 42-801B | Propane Compressor | Propane | 324.58 | 185 | 116.50 | 174.83 | Y | Flare | RH1-FL-29-1003 | 98 | 3,482.69 | 655.58 | 3,482.69 | 44.10 | 2516.00 | 4.00 |
| F-009A, F-009B | Condensate Filter | Condensate | 48.38 | 163 | 125.00 | 100.00 | Y | Flare | RH1-FL-29-1003 | 98 | 292.61 | 96.30 | 292.61 | 93.55 | 3394.62 | 4.00 |
| 26-217 | Amine Contactor Inlet Coalescing Filter | Inlet Gas | 24.69 | 248 | 150.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 355.08 | 47.14 | 355.08 | 22.73 | 1097.43 | 4.00 |
| 26-401 | Inlet Filter/Separator | Inlet Gas | 18.87 | 248 | 150.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 271.40 | 36.03 | 271.40 | 22.73 | 1097.43 | 4.00 |
| 26-403 | Inlet Dust Filter | Inlet Gas | 8.91 | 918 | 140.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 482.24 | 17.29 | 482.24 | 22.73 | 1097.43 | 4.00 |
| 26-520 | NGL/Water Coalescer | Y-Grade | 4.90 | 213 | 125.00 | 397.30 | Y | Flare | RH1-FL-29-1003 | 98 | 63.09 | 9.75 | 63.09 | 40.97 | 1020.00 | 4.00 |
| 26-115 | LPG/Water Coalescer | Y-Grade | 19.20 | 1313 | 125.00 | 397.30 | Y | Flare | RH1-FL-29-1003 | 98 | 461.32 | 38.21 | 461.32 | 40.97 | 1020.00 | 4.00 |
| 26-305 | Glycol Charcoal Filter | Glycol | 23.33 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | 0.01 | 0.01 | - | 150.17 | -- | 4.00 |
| 26-306 | Glycol Filter | Glycol | 0.88 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F51-208, F51-209 | Lean Amine Filter | Amine | 18.93 | 103 | 275.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| 26-208 | Amine Filter | Amine | 23.61 | 148 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.01 | 0.01 | - | 105.14 | -- | 4.00 |
| 32-209 | Amine Carbon Filter | Amine | 165.88 | 148 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 105.14 | -- | 4.00 |
| 26-210 | Amine Guard Filter | Amine | 5.12 | 148 | 200.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| 26-703A, 26-703B | Hot Oil Filter | Hot Oil | 66.42 | 103 | 500.00 | 0.01 | N | N/A | N/A | -- | 0.02 | 0.02 | - | 200.00 | -- | 4.00 |
| F-1101, F-1102 | Condensate Filter | Condensate | 7.63 | 213 | 125.00 | 6.80 | N | N/A | N/A | -- | 3.14 | 3.14 | - | 93.55 | -- | 4.00 |
| F-1504 | Hot Oil Filter | Hot Oil | 9.73 | 103 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| E-XXXX | Gas/Gas Exchanger | Inlet Gas | 42.38 | 918 | 150.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 2,256.05 | 80.89 | 2,256.05 | 22.73 | 1097.43 | 4.00 |
| 21-106 | Condensate Stabilizer Reboiler | Condensate | 17.34 | 203 | 380.00 | 6.80 | Y | Flare | RH1-FL-29-1003 | 98 | 4.97 | 4.97 | 4.97 | 93.55 | 3394.62 | 4.00 |
| 21-304 | Gas/Glycol Heat Exchanger | Inlet Gas | 6.83 | 918 | 150.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 363.47 | 13.03 | 363.47 | 22.73 | 1097.43 | 4.00 |
| 21-503 | GSP Warm Gas/Gas Heat Exchanger | Inlet Gas | 52.03 | 600 | 100.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 1,973.78 | 108.19 | 1,973.78 | 22.73 | 1097.43 | 4.00 |
| 21-511 | GSP Trim Reboiler | Y-Grade | 77.79 | 283 | 150.00 | 397.30 | Y | Flare | RH1-FL-29-1003 | 98 | 1,276.53 | 148.49 | 1,276.53 | 40.97 | 1020.00 | 4.00 |
| 21-501 | Demethanizer Bottom Reboiler | Inlet Gas | 57.37 | 600 | 140.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 2,031.25 | 111.34 | 2,031.25 | 22.73 | 1097.43 | 4.00 |
| 21-502 | Demethanizer Side Tray Heat Exchanger | Inlet Gas | 232.46 | 600 | 50.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 9,683.62 | 530.78 | 9,683.62 | 22.73 | 1097.43 | 4.00 |
| 21-505 | GSP Chiller | Inlet Gas | 33.33 | 438 | 60.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 993.16 | 74.64 | 993.16 | 22.73 | 1097.43 | 4.00 |
| 21-508 | GSP Subcooler Heat Exchanger | Residue Gas | 39.93 | 283 | -17.50 | - | Y | Flare | RH1-FL-29-1003 | 98 | 903.41 | 105.09 | 903.41 | 17.87 | 1126.07 | 4.00 |
| 21-404 | Regen Gas Heater | Inlet Gas | 19.94 | 918 | 500.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 674.58 | 24.19 | 674.58 | 22.73 | 1097.43 | 4.00 |
| 21-308 | Glycol/Glycol Exchanger | Glycol | 21.23 | 83 | 275.00 | 0.01 | N | N/A | N/A | -- | 0.01 | 0.01 | - | 150.17 | -- | 4.00 |
| 21-310 | Glycol Reboiler | Glycol | 211.66 | 18 | 400.00 | 0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.09 | 0.09 | 0.09 | 150.17 | 1020.00 | 4.00 |
| 21-204, 21-204B | Lean/Rich Exchanger | Amine | 292.59 | 93 | 237.50 | 0.01 | N | N/A | N/A | -- | 0.15 | 0.15 | - | 105.14 | -- | 4.00 |
| 21-206 | Amine Stripper Reboiler | Amine | 177.33 | 38 | 275.00 | 0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 0.09 | 0.09 | 0.09 | 105.14 | 1020.00 | 4.00 |
| E-1201 | Feed/Bottoms Exchanger | Condensate | 51.37 | 213 | 235.00 | 6.80 | Y | Flare | RH1-FL-29-1003 | 98 | 17.78 | 17.78 | 17.78 | 93.55 | 3394.62 | 4.00 |
| E-1203 | Deethanizer Reboiler | Condensate | 100.17 | 213 | 300.00 | 6.80 | Y | Flare | RH1-FL-29-1003 | 98 | 31.71 | 31.71 | 31.71 | 93.55 | 3394.62 | 4.00 |
| E-1302 | Stabilizer Reboiler | Condensate | 302.57 | 168 | 380.00 | 6.80 | Y | Flare | RH1-FL-29-1003 | 98 | 86.65 | 86.65 | 86.65 | 93.55 | 3394.62 | 4.00 |
| E-1701 | Pre-Heat Exchanger | Condensate | 25.76 | 918 | 60.00 | 6.80 | Y | Flare | RH1-FL-29-1003 | 98 | 11.92 | 11.92 | 11.92 | 93.55 | 3394.62 | 4.00 |
| 23-704 | Hot Oil Heater | Hot Oil | 7.71 | 53 | 500.00 | 0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 | <0.01 | 200.00 | 1020.00 | 4.00 |
| H-1101 | Hot Oil Heater | Hot Oil | 152.49 | 53 | 500.00 | 0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.06 | 0.06 | 0.06 | 200.00 | 1020.00 | 4.00 |
| 42-2500 | Truck Unloading Pump | Condensate | 3.33 | 248 | 125.00 | 6.80 | N | N/A | N/A | -- | 1.37 | 1.37 | - | 93.55 | -- | 4.00 |
| P-1575 | Sour Stabilizer Rerun Pump | Condensate | 3.33 | 113 | 125.00 | 6.80 | N | N/A | N/A | -- | 1.37 | 1.37 | - | 93.55 | -- | 4.00 |
| 41-512A, 41-512B | NGL Booster Pump | Y-Grade | 22.80 | 283 | 150.00 | 397.30 | N | N/A | N/A | -- | 374.10 | 374.10 | - | 40.97 | -- | 4.00 |
| 41-919DD | Flash Gas Compressors Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| 41-307A, 41-307B | Glycol Pump | Glycol | 2.61 | 18 | 150.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| 41-207A, 41-207B | Lean Amine Booster Pump | Amine | 6.66 | 38 | 200.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| 41-216A, 41-216B | Amine Reflux Pump | Amine | 1.08 | 38 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| 41-212A, 41-212B, 41-212C | Amine Circulation Pump | Amine | 12.53 | 63 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |

# Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

**Train 1**

| Train 1 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Vented Emissions | | | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| 21-107 | Condensate Cooler | 1.00 | 95.47 | 0.10 | <0.01 | -- | -- | <0.01 | <0.01 | 0.10 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| 21-110 | Overhead Compressor Interstage Cooler | 1.00 | 18.89 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 21-602 | Expander/Compressor Discharge Cooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.58 | <0.01 | 0.13 | <0.01 | 0.02 | <0.01 | 0.09 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 |
| 21-604 | Sales Compression Interstage Discharge Cooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.60 | <0.01 | 0.14 | <0.01 | 0.05 | <0.01 | 0.21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.24 | <0.01 | <0.01 | <0.01 |
| 21-607 | Sales Compression Discharge Cooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.08 | <0.01 | 0.24 | <0.01 | 0.19 | <0.01 | 0.77 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.91 | <0.01 | <0.01 | <0.01 |
| HAL-42-15-U205, HAL-42-15-U206 | Flash Gas Compressor Intercooler / Aftercooler | 1.00 | 23.25 | 0.29 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.32 | <0.01 | 0.09 | <0.01 | 0.65 | <0.01 | 0.02 | <0.01 | 0.06 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 21-405 | Regen Gas Cooler | 1.00 | 23.25 | 0.06 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | 0.02 | <0.01 | 0.13 | <0.01 | 0.02 | <0.01 | 0.07 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| HZZ-1100 | Glycol Vapor Condenser | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21-213 | Lean Amine Cooler | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21-214 | Amine Stripper Reflux Cooler | 1.00 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.28 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 |
| 21-802A, 21-802B | Propane Condenser | 1.00 | 100.00 | 7.61 | 0.02 | -- | -- | -- | -- | 8.42 | 0.02 | -- | -- | -- | -- | 0.12 | <0.01 | 0.48 | <0.01 | 0.81 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-1401 | Product Cooler | 1.00 | 95.47 | 0.10 | <0.01 | -- | -- | <0.01 | <0.01 | 0.11 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| AC-1401 | Product Cooler | 1.00 | 95.47 | 0.10 | <0.01 | -- | -- | <0.01 | <0.01 | 0.11 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| 42-108A, 42-108B | Stabilizer Overhead Compressor | 1.00 | 18.89 | 0.06 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.06 | <0.01 | 0.03 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 45-507 | Expander/Compressor | 1.00 | 23.25 | 0.31 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.42 | <0.01 | 0.09 | <0.01 | 0.69 | <0.01 | 0.06 | <0.01 | 0.24 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 |
| 42-601A, 42-601B, 42-601C | Sales Gas Compressor | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.52 | <0.01 | 0.56 | <0.01 | 0.07 | <0.01 | 0.28 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.33 | <0.01 | <0.01 | <0.01 |
| 42-15-U205, 42-15-U206 | Flash Gas Compressor | 1.00 | 23.25 | 2.53 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.78 | <0.01 | 0.76 | <0.01 | 5.68 | 0.01 | 0.14 | <0.01 | 0.54 | <0.01 | 0.25 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.07 | <0.01 | 0.01 | <0.01 |
| 42-801A, 42-801B | Propane Compressor | 1.00 | 100.00 | 19.07 | 0.04 | -- | -- | -- | -- | 21.10 | 0.04 | -- | -- | -- | -- | 0.30 | <0.01 | 1.20 | <0.01 | 2.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-009A, F-009B | Condensate Filter | 1.00 | 95.47 | 5.67 | 0.01 | -- | -- | <0.01 | <0.01 | 6.02 | 0.01 | -- | -- | -- | -- | 0.03 | <0.01 | 0.14 | <0.01 | 0.34 | <0.01 | -- | -- | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- |
| 26-217 | Amine Contactor Inlet Coalescing Filter | 1.00 | 23.25 | 0.16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.19 | <0.01 | 0.05 | <0.01 | 0.37 | <0.01 | 0.01 | <0.01 | 0.05 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 26-401 | Inlet Filter/Separator | 1.00 | 23.25 | 0.13 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.14 | <0.01 | 0.04 | <0.01 | 0.28 | <0.01 | 0.01 | <0.01 | 0.04 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 26-403 | Inlet Dust Filter | 1.00 | 23.25 | 0.06 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | 0.02 | <0.01 | 0.14 | <0.01 | 0.02 | <0.01 | 0.07 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| 26-520 | NGL/Water Coalescer | 1.00 | 71.97 | 0.19 | <0.01 | -- | -- | -- | -- | 0.21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| 26-115 | LPG/Water Coalescer | 1.00 | 71.97 | 0.74 | <0.01 | -- | -- | -- | -- | 0.92 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 0.06 | <0.01 | 0.18 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| 26-305 | Glycol Charcoal Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-306 | Glycol Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F51-208, F51-209 | Lean Amine Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-208 | Amine Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-209 | Amine Carbon Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-210 | Amine Guard Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-703A, 26-703B | Hot Oil Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1101, F-1102 | Condensate Filter | 1.00 | 95.47 | 0.18 | <0.01 | -- | -- | <0.01 | <0.01 | 0.18 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1504 | Hot Oil Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-XXXX | Gas/Gas Exchanger | 1.00 | 23.25 | 0.28 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.44 | <0.01 | 0.08 | <0.01 | 0.63 | <0.01 | 0.09 | <0.01 | 0.34 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 |
| 21-106 | Condensate Stabilizer Reboiler | 1.00 | 95.47 | 0.29 | <0.01 | -- | -- | <0.01 | <0.01 | 0.30 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| 21-304 | Gas/Glycol Heat Exchanger | 1.00 | 23.25 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.07 | <0.01 | 0.01 | <0.01 | 0.10 | <0.01 | 0.01 | <0.01 | 0.05 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 21-503 | GSP Warm Gas/Gas Heat Exchanger | 1.00 | 23.25 | 0.38 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.51 | <0.01 | 0.11 | <0.01 | 0.85 | <0.01 | 0.07 | <0.01 | 0.30 | <0.01 | 0.14 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 |
| 21-511 | GSP Trim Reboiler | 1.00 | 71.97 | 2.89 | <0.01 | -- | -- | -- | -- | 3.38 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.18 | <0.01 | 0.50 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| 21-501 | Demethanizer Bottom Reboiler | 1.00 | 23.25 | 0.39 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.53 | <0.01 | 0.12 | <0.01 | 0.87 | <0.01 | 0.08 | <0.01 | 0.31 | <0.01 | 0.14 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 |
| 21-502 | Demethanizer Side Tray Heat Exchanger | 1.00 | 23.25 | 1.85 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.53 | <0.01 | 0.55 | <0.01 | 4.16 | <0.01 | 0.37 | <0.01 | 1.46 | <0.01 | 0.68 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.20 | <0.01 | 0.03 | <0.01 |
| 21-505 | GSP Chiller | 1.00 | 23.25 | 0.26 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.33 | <0.01 | 0.08 | <0.01 | 0.58 | <0.01 | 0.04 | <0.01 | 0.15 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| 21-508 | GSP Subcooler Heat Exchanger | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.96 | <0.01 | 0.22 | <0.01 | 0.04 | <0.01 | 0.14 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.17 | <0.01 | <0.01 | <0.01 |
| 21-404 | Regen Gas Heater | 1.00 | 23.25 | 0.08 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.13 | <0.01 | 0.03 | <0.01 | 0.19 | <0.01 | 0.03 | <0.01 | 0.10 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| 21-308 | Glycol/Glycol Exchanger | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21-310 | Glycol Reboiler | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21-204, 21-204B | Lean/Rich Exchanger | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21-206 | Amine Stripper Reboiler | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-1201 | Feed/Bottoms Exchanger | 1.00 | 95.47 | 1.05 | <0.01 | -- | -- | <0.01 | <0.01 | 1.07 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| E-1203 | Deethanizer Reboiler | 1.00 | 95.47 | 1.87 | <0.01 | -- | -- | <0.01 | <0.01 | 1.91 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | 0.01 | <0.01 | 0.04 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| E-1302 | Stabilizer Reboiler | 1.00 | 95.47 | 5.10 | 0.01 | -- | -- | <0.01 | <0.01 | 5.21 | 0.01 | -- | -- | -- | -- | 0.01 | <0.01 | 0.04 | <0.01 | 0.10 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| E-1701 | Pre-Heat Exchanger | 1.00 | 95.47 | 0.70 | <0.01 | -- | -- | <0.01 | <0.01 | 0.72 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| 23-704 | Hot Oil Heater | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-1101 | Hot Oil Heater | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 42-2500 | Truck Unloading Pump | 1.00 | 95.47 | 0.08 | <0.01 | -- | -- | <0.01 | <0.01 | 0.08 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-1575 | Sour Stabilizer Rerun Pump | 1.00 | 95.47 | 0.08 | <0.01 | -- | -- | <0.01 | <0.01 | 0.08 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-512A, 41-512B | NGL Booster Pump | 1.00 | 71.97 | 7.28 | 0.01 | -- | -- | -- | -- | 7.28 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919DD | Flash Gas Compressors Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-307A, 41-307B | Glycol Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-207A, 41-207B | Lean Amine Booster Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-216A, 41-216B | Amine Reflux Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-212A, 41-212B, 41-212C | Amine Circulation Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 1 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/lb-mol | Btu/scf | hours |
| P-XXXX | Propane Suction Scrubber Pump | Propane | 1.30 | 43 | 8.00 | 174.83 | N | N/A | N/A | -- | 4.23 | 4.23 | - | 44.10 | -- | 4.00 |
| 41-702A, 41-702B | Hot Oil Circulation Pump | Hot Oil | 11.92 | 53 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| 42-1002A, 42-1002B | Flare KO Drum Pumps | Condensate | 2.56 | 13 | 125.00 | 6.80 | N | N/A | N/A | -- | 1.05 | 1.05 | - | 93.55 | -- | 4.00 |
| P-41-516A, P-41-516B, P-41-516C | NGL Pipeline Pump | Y-Grade | 7.64 | 633 | 150.00 | 397.30 | N | N/A | N/A | -- | 176.04 | 176.04 | - | 40.97 | -- | 4.00 |
| 41-902A, 41-902B | Condensate Transfer Pump | Condensate | 9.55 | 248 | 125.00 | 6.80 | N | N/A | N/A | -- | 3.93 | 3.93 | - | 93.55 | -- | 4.00 |
| 41-903A, 41-903B | NGL Truck Unloading Pump | Condensate | 9.55 | 248 | 125.00 | 6.80 | N | N/A | N/A | -- | 3.93 | 3.93 | - | 93.55 | -- | 4.00 |
| P-69100, P-69150 | Condensate Transfer Pump | Condensate | 9.55 | 248 | 125.00 | 6.80 | N | N/A | N/A | -- | 3.93 | 3.93 | - | 93.55 | -- | 4.00 |
| 41-910 | TEG Make-up Pump | Glycol | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| 41-907 | Amine Make-up Pump | Amine | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| 41-918 | Hot Oil Make-up Pump | Hot Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| 41-919A, 41-919B, 41-919C | Sump Pump | Lube Oil | 3.84 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| 41-919D, 41-919E, 41-919F | Sump Pump | Glycol | 3.84 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| 41-919G, 41-919H, 41-919J | Sump Pump | Lube Oil | 5.12 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| 41-919K, 41-919L, 41-919M | Sump Pump | Amine | 3.84 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| 41-919N, 41-919P, 41-919R | Sump Pump | Lube Oil | 3.84 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| 41-919S, 41-919T, 41-919U | Sump Pump | Hot Oil | 3.84 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| 41-919V, 41-919W, 41-919X | Sump Pump | Lube Oil | 3.84 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| 41-919Y, 41-919Z | Sump Pump | Lube Oil | 5.12 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-XXXX, P-XXXX, P-XXXX, P-XXXX | Sump Pump | Lube Oil | 5.12 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-1502, P-1503 | Hot Oil Pump | Hot Oil | 11.92 | 53 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-1802, P-1803 | LPG Booster Pump | Y-Grade | 9.55 | 168 | 125.00 | 397.30 | N | N/A | N/A | -- | 96.97 | 96.97 | - | 40.97 | -- | 4.00 |
| P-1804, P-1805 | LPG Main Solution Pump | Y-Grade | 5.09 | 223 | 135.00 | 397.30 | N | N/A | N/A | -- | 67.51 | 67.51 | - | 40.97 | -- | 4.00 |
| P-XXXX1 | Pig Receiver Pump | Condensate | 1.28 | 13 | 125.00 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | -- | 4.00 |
| P-XXXX2 | Pig Receiver Pump | Condensate | 1.28 | 13 | 125.00 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | -- | 4.00 |
| ST-U205 | Flash Gas Compressors Sump Tank | Lube Oil | 73.52 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.04 | 0.04 | - | 200.00 | -- | 4.00 |
| 33-909 | TEG Storage Tank | Glycol | 746.44 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.45 | 0.45 | - | 150.17 | -- | 4.00 |
| 33-906 | Amine Storage Tank | Amine | 746.44 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.45 | 0.45 | - | 105.14 | -- | 4.00 |
| 33-515 | Expander Methanol Tank | Methanol | 36.76 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 9.01 | 9.01 | - | 32.04 | -- | 4.00 |
| 33-905 | Hot Oil Storage Tank | Hot Oil | 746.44 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.45 | 0.45 | - | 200.00 | -- | 4.00 |
| TK-XXXX | Open Drain Storage Tank | Lube Oil | 6641.96 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 4.02 | 4.02 | - | 200.00 | -- | 4.00 |
| 33-1601 | PSV-1601 Relief Knock-Out | Hot Oil | 89.34 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.05 | 0.05 | - | 200.00 | -- | 4.00 |
| TK-20101, TK-20102, TK-20103, TK-20104, TK-20105, TK-20106 | Condensate Tank | Condensate | 19925.87 | 13 | 125.00 | 6.80 | Y | Flare | RH1-FL-2850 | 98 | 8,194.90 | 8,194.90 | 8,194.90 | 93.55 | 3394.62 | 4.00 |
| TK-20107, TK-20108, TK-20109, TK-20110, TK-20111, TK-20112 | Condensate Tank | Condensate | 19925.87 | 13 | 125.00 | 6.80 | Y | Flare | RH1-FL-2850 | 98 | 8,194.90 | 8,194.90 | 8,194.90 | 93.55 | 3394.62 | 4.00 |
| 31-105 | Condensate Sour Stabilizer | Condensate | 131.21 | 203 | 275.00 | 6.80 | Y | Flare | RH1-FL-29-1003 | 98 | 42.95 | 42.95 | 42.95 | 93.55 | 3394.62 | 4.00 |
| 31-201 | Amine Contactor | Inlet Gas | 1166.32 | 918 | 200.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 57,387.62 | 2,057.53 | 57,387.62 | 22.73 | 1097.43 | 4.00 |
| 31-301 | TEG Absorber | Inlet Gas | 338.66 | 918 | 150.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 18,030.28 | 646.44 | 18,030.28 | 22.73 | 1097.43 | 4.00 |
| 31-509 | Demethanizer | Residue Gas | 970.51 | 283 | 60.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 18,683.10 | 2,173.34 | 18,683.10 | 17.87 | 1126.07 | 4.00 |
| 31-205 | Amine Stripper | Low C Acid Gas | 1490.29 | 38 | 250.00 | - | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 2,815.12 | 2,443.83 | 2,815.12 | 42.33 | 5.70 | 4.00 |
| T-1202 | Deethanizer Tower | Inlet Gas | 388.77 | 213 | 195.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 4,470.92 | 691.08 | 4,470.92 | 22.73 | 1097.43 | 4.00 |
| T-1301 | Stabilizer Tower | Y-Grade | 1306.71 | 168 | 285.00 | 397.30 | Y | Flare | RH1-FL-29-1003 | 98 | 10,418.83 | 2,042.07 | 10,418.83 | 40.97 | 1020.00 | 4.00 |
| 32-101, 32-101B | Inlet Slug Catcher | Inlet Gas | 14822.50 | 918 | 150.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 789,142.14 | 28,293.26 | 789,142.14 | 22.73 | 1097.43 | 4.00 |
| 32-901A | Condensate Surge Vessel | Condensate | 12864.62 | 248 | 125.00 | 6.80 | Y | Flare | RH1-FL-29-1003 | 98 | 5,290.83 | 5,290.83 | 5,290.83 | 93.55 | 3394.62 | 4.00 |
| 32-104 | Sour Stabilizer Feed Separator | Sour Inlet Gas (B&S) | 221.17 | 203 | 125.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 2,714.21 | 440.22 | 2,714.21 | 24.07 | 1170.00 | 4.00 |
| 32-111 | Stabilizer OH Compressor Suction Scrubber | Sour Inlet Gas (B&S) | 62.20 | 203 | 150.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 732.07 | 118.73 | 732.07 | 24.07 | 1170.00 | 4.00 |
| 32-112 | Overhead Compressor Interstage Scrubber | Sour Inlet Gas (B&S) | 62.20 | 413 | 300.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 1,195.57 | 95.29 | 1,195.57 | 24.07 | 1170.00 | 4.00 |
| 32-202 | Amine Overhead Scrubber | Inlet Gas | 139.96 | 918 | 150.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 7,451.29 | 267.15 | 7,451.29 | 22.73 | 1097.43 | 4.00 |
| 32-402A, 32-402B | Molecular Sieve Dehydration Bed | Inlet Gas | 518.36 | 918 | 140.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 28,057.57 | 1,005.95 | 28,057.57 | 22.73 | 1097.43 | 4.00 |
| 32-504 | GSP Warm Separator | Inlet Gas | 127.00 | 918 | 60.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 7,932.33 | 284.40 | 7,932.33 | 22.73 | 1097.43 | 4.00 |
| 32-805 | Propane Standpipe | Propane | 155.51 | 113 | 60.00 | 174.83 | Y | Flare | RH1-FL-29-1003 | 98 | 1,194.78 | 348.24 | 1,194.78 | 44.10 | 2516.00 | 4.00 |
| 32-506 | GSP Cold Separator | Inlet Gas | 165.88 | 918 | 60.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 10,360.60 | 371.46 | 10,360.60 | 22.73 | 1097.43 | 4.00 |
| 32-513 | Booster Compressor Suction Scrubber | Residue Gas | 54.43 | 283 | 100.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 972.90 | 113.17 | 972.90 | 17.87 | 1126.07 | 4.00 |
| 32-510 | NGL Surge Tank | Y-Grade | 9215.34 | 283 | 125.00 | 397.30 | Y | Flare | RH1-FL-29-1003 | 98 | 157,680.24 | 18,342.43 | 157,680.24 | 40.97 | 1020.00 | 4.00 |
| 32-603 | Sales Compressor Suction Scrubber | Residue Gas | 62.20 | 313 | 125.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 1,177.21 | 123.81 | 1,177.21 | 17.87 | 1126.07 | 4.00 |
| 32-605 | Sales Compressor Interstage Scrubber | Residue Gas | 43.20 | 663 | 300.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 1,332.94 | 66.17 | 1,332.94 | 17.87 | 1126.07 | 4.00 |
| 32-606 | Sales Compressor Discharge Scrubber | Residue Gas | 54.00 | 1385 | 125.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 4,522.74 | 107.48 | 4,522.74 | 17.87 | 1126.07 | 4.00 |
| 32-407 | Regen Gas Scrubber | Inlet Gas | 27.65 | 918 | 125.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 1,534.79 | 55.03 | 1,534.79 | 22.73 | 1097.43 | 4.00 |
| 32-303 | Glycol Flash Tank | Glycol | 27.65 | 148 | 150.00 | 0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.02 | 0.02 | 0.02 | 150.17 | 1020.00 | 4.00 |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 1 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| P-XXXX | Propane Suction Scrubber Pump | 1.00 | 100.00 | 0.12 | <0.01 | -- | -- | -- | -- | 0.12 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-702A, 41-702B | Hot Oil Circulation Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 42-1002A, 42-1002B | Flare KO Drum Pumps | 1.00 | 95.47 | 0.06 | <0.01 | -- | -- | <0.01 | <0.01 | 0.06 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-41-516A, P-41-516B, P-41-516C | NGL Pipeline Pump | 1.00 | 71.97 | 3.42 | <0.01 | -- | -- | -- | -- | 3.42 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-902A, 41-902B | Condensate Transfer Pump | 1.00 | 95.47 | 0.23 | <0.01 | -- | -- | <0.01 | <0.01 | 0.23 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-903A, 41-903B | NGL Truck Unloading Pump | 1.00 | 95.47 | 0.23 | <0.01 | -- | -- | <0.01 | <0.01 | 0.23 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-69100, P-69150 | Condensate Transfer Pump | 1.00 | 95.47 | 0.23 | <0.01 | -- | -- | <0.01 | <0.01 | 0.23 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-910 | TEG Make-up Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-907 | Amine Make-up Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-918 | Hot Oil Make-up Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919A, 41-919B, 41-919C | Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919D, 41-919E, 41-919F | Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919G, 41-919H, 41-919J | Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919K, 41-919L, 41-919M | Sump Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919N, 41-919P, 41-919R | Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919S, 41-919T, 41-919U | Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919V, 41-919W, 41-919X | Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919Y, 41-919Z | Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-XXXX, P-XXXX, P-XXXX, P-XXXX | Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-1502, P-1503 | Hot Oil Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-1802, P-1803 | LPG Booster Pump | 1.00 | 71.97 | 1.89 | <0.01 | -- | -- | -- | -- | 1.89 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-1804, P-1805 | LPG Main Solution Pump | 1.00 | 71.97 | 1.31 | <0.01 | -- | -- | -- | -- | 1.31 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-XXXX1 | Pig Receiver Pump | 1.00 | 95.47 | 0.03 | <0.01 | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-XXXX2 | Pig Receiver Pump | 1.00 | 95.47 | 0.03 | <0.01 | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ST-U205 | Flash Gas Compressors Sump Tank | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 33-909 | TEG Storage Tank | 1.00 | 100.00 | 0.04 | <0.01 | -- | -- | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 33-906 | Amine Storage Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 33-515 | Expander Methanol Tank | 1.00 | 100.00 | 0.19 | <0.01 | -- | -- | <0.01 | <0.01 | 0.19 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 33-905 | Hot Oil Storage Tank | 1.00 | 100.00 | 0.06 | <0.01 | -- | -- | -- | -- | 0.06 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-XXXX | Open Drain Storage Tank | 1.00 | 100.00 | 0.53 | <0.01 | -- | -- | -- | -- | 0.53 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 33-1601 | PSV-1601 Relief Knock-Out | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-20101, TK-20102, TK-20103, TK-20104, TK-20105, TK-20106 | Condensate Tank | 1.00 | 95.47 | 482.76 | 0.97 | -- | -- | <0.01 | <0.01 | 492.41 | 0.98 | -- | -- | -- | -- | 0.96 | <0.01 | 3.82 | <0.01 | 9.66 | 0.02 | -- | -- | -- | -- | 0.94 | <0.01 | -- | -- | -- | -- |
| TK-20107, TK-20108, TK-20109, TK-20110, TK-20111, TK-20112 | Condensate Tank | 1.00 | 95.47 | 482.76 | 0.97 | -- | -- | <0.01 | <0.01 | 492.41 | 0.98 | -- | -- | -- | -- | 0.96 | <0.01 | 3.82 | <0.01 | 9.66 | 0.02 | -- | -- | -- | -- | 0.94 | <0.01 | -- | -- | -- | -- |
| 31-105 | Condensate Sour Stabilizer | 1.00 | 95.47 | 2.53 | <0.01 | -- | -- | <0.01 | <0.01 | 2.58 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.05 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| 31-201 | Amine Contactor | 1.00 | 23.25 | 7.18 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 11.18 | 0.02 | 2.15 | <0.01 | 16.12 | 0.03 | 2.17 | <0.01 | 8.65 | 0.02 | 4.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 1.20 | <0.01 | 0.18 | <0.01 |
| 31-301 | TEG Absorber | 1.00 | 23.25 | 2.25 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.51 | <0.01 | 0.68 | <0.01 | 5.06 | 0.01 | 0.68 | <0.01 | 2.72 | <0.01 | 1.26 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.38 | <0.01 | 0.06 | <0.01 |
| 31-509 | Demethanizer | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 19.87 | 0.04 | 4.45 | <0.01 | 0.73 | <0.01 | 2.89 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.42 | <0.01 | 0.02 | <0.01 |
| 31-205 | Amine Stripper | 1.00 | 0.10 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.07 | <0.01 | 66.25 | 0.13 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.76 | <0.01 | <0.01 | <0.01 |
| T-1202 | Deethanizer Tower | 1.00 | 23.25 | 2.41 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.72 | <0.01 | 0.72 | <0.01 | 5.41 | 0.01 | 0.17 | <0.01 | 0.67 | <0.01 | 0.31 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | 0.01 | <0.01 |
| T-1301 | Stabilizer Tower | 1.00 | 71.97 | 39.71 | 0.08 | -- | -- | -- | -- | 43.77 | 0.09 | 0.05 | <0.01 | 0.05 | <0.01 | 0.37 | <0.01 | 1.46 | <0.01 | 4.05 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| 32-101, 32-101B | Inlet Slug Catcher | 1.00 | 23.25 | 98.67 | 0.20 | <0.01 | <0.01 | <0.01 | <0.01 | 153.71 | 0.31 | 29.54 | 0.06 | 221.66 | 0.44 | 29.88 | 0.06 | 118.99 | 0.24 | 55.04 | 0.11 | <0.01 | <0.01 | <0.01 | <0.01 | 0.27 | <0.01 | 16.48 | 0.09 | 2.47 | <0.01 |
| 32-901A | Condensate Surge Vessel | 1.00 | 95.47 | 311.68 | 0.62 | -- | -- | <0.01 | <0.01 | 317.92 | 0.64 | -- | -- | -- | -- | 0.62 | <0.01 | 2.47 | <0.01 | 6.23 | 0.01 | -- | -- | -- | -- | 0.61 | <0.01 | -- | -- | -- | -- |
| 32-104 | Sour Stabilizer Feed Separator | 1.00 | 18.89 | 1.32 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 1.48 | <0.01 | 0.75 | <0.01 | 3.81 | <0.01 | 0.11 | <0.01 | 0.44 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | <0.01 | <0.01 |
| 32-111 | Stabilizer OH Compressor Suction Scrubber | 1.00 | 18.89 | 0.36 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.40 | <0.01 | 0.20 | <0.01 | 1.03 | <0.01 | 0.03 | <0.01 | 0.12 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| 32-112 | Overhead Compressor Interstage Scrubber | 1.00 | 18.89 | 0.29 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.36 | <0.01 | 0.16 | <0.01 | 0.82 | <0.01 | 0.05 | <0.01 | 0.19 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 |
| 32-202 | Amine Overhead Scrubber | 1.00 | 23.25 | 0.93 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.45 | <0.01 | 0.28 | <0.01 | 2.09 | <0.01 | 0.28 | <0.01 | 1.12 | <0.01 | 0.52 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.16 | <0.01 | 0.02 | <0.01 |
| 32-402A, 32-402B | Molecular Sieve Dehydration Bed | 1.00 | 23.25 | 3.51 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.46 | 0.01 | 1.05 | <0.01 | 7.88 | 0.02 | 1.06 | <0.01 | 4.23 | <0.01 | 1.96 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.59 | <0.01 | 0.09 | <0.01 |
| 32-504 | GSP Warm Separator | 1.00 | 23.25 | 0.99 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.55 | <0.01 | 0.30 | <0.01 | 2.23 | <0.01 | 0.30 | <0.01 | 1.20 | <0.01 | 0.55 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.17 | <0.01 | 0.02 | <0.01 |
| 32-805 | Propane Standpipe | 1.00 | 100.00 | 10.13 | 0.02 | -- | -- | -- | -- | 10.82 | 0.02 | -- | -- | -- | -- | 0.10 | <0.01 | 0.41 | <0.01 | 0.70 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-506 | GSP Cold Separator | 1.00 | 23.25 | 1.30 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.02 | <0.01 | 0.39 | <0.01 | 2.91 | <0.01 | 0.39 | <0.01 | 1.56 | <0.01 | 0.72 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.22 | <0.01 | 0.03 | <0.01 |
| 32-513 | Booster Compressor Suction Scrubber | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.03 | <0.01 | 0.23 | <0.01 | 0.04 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.18 | <0.01 | <0.01 | <0.01 |
| 32-510 | NGL Surge Tank | 1.00 | 71.97 | 356.72 | 0.71 | -- | -- | -- | -- | 418.05 | 0.84 | 0.45 | <0.01 | 0.44 | <0.01 | 5.55 | 0.01 | 22.10 | 0.04 | 61.33 | 0.12 | -- | -- | -- | -- | -- | -- | 0.08 | <0.01 | <0.01 | -- |
| 32-603 | Sales Compressor Suction Scrubber | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.13 | <0.01 | 0.25 | <0.01 | 0.05 | <0.01 | 0.18 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.22 | <0.01 | <0.01 | <0.01 |
| 32-605 | Sales Compressor Interstage Scrubber | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.60 | <0.01 | 0.14 | <0.01 | 0.05 | <0.01 | 0.21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.24 | <0.01 | <0.01 | <0.01 |
| 32-606 | Sales Compressor Discharge Scrubber | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.98 | <0.01 | 0.22 | <0.01 | 0.18 | <0.01 | 0.70 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.83 | <0.01 | <0.01 | <0.01 |
| 32-407 | Regen Gas Scrubber | 1.00 | 23.25 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.30 | <0.01 | 0.06 | <0.01 | 0.43 | <0.01 | 0.06 | <0.01 | 0.23 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 |
| 32-303 | Glycol Flash Tank | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 1 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | hours |
| 31-309 | Glycol Stahl Column | Glycol | 6.93 | 18 | 400.00 | 0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 | <0.01 | 150.17 | 1020.00 | 4.00 |
| 32-311 | Glycol Surge Tank | Glycol | 211.66 | 18 | 400.00 | 0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.09 | 0.09 | 0.09 | 150.17 | 1020.00 | 4.00 |
| V-110 | Glycol Still Column/Reflux Condenser | Glycol | 18.81 | 18 | 312.50 | 0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 | <0.01 | 150.17 | 1020.00 | 4.00 |
| 32-203 | Rich Amine Flash Tank | Amine | 522.68 | 148 | 200.00 | 0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.28 | 0.28 | 0.28 | 105.14 | 1020.00 | 4.00 |
| 32-215 | Amine Reflux Accumulator | Low C Acid Gas | 215.98 | 38 | 125.00 | - | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 495.22 | 429.90 | 495.22 | 42.33 | 5.70 | 4.00 |
| 32-211 | Amine Surge Drum | Amine | 931.33 | 63 | 125.00 | 0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.56 | 0.56 | 0.56 | 105.14 | 1020.00 | 4.00 |
| 32-806 | Propane Suction Scrubber | Propane | 43.20 | 43 | 8.00 | 174.83 | Y | Flare | RH1-FL-29-1003 | 98 | 140.15 | 107.49 | 140.15 | 44.10 | 2516.00 | 4.00 |
| 32-803 | Propane Accumulator | Propane | 933.05 | 283 | 225.00 | 174.83 | Y | Flare | RH1-FL-29-1003 | 98 | 8,425.02 | 1,585.92 | 8,425.02 | 44.10 | 2516.00 | 4.00 |
| 32-804 | Propane Economizer | Propane | 148.17 | 133 | 100.00 | 174.83 | Y | Flare | RH1-FL-29-1003 | 98 | 1,244.23 | 308.09 | 1,244.23 | 44.10 | 2516.00 | 4.00 |
| 32-701 | Hot Oil Surge Drum | Hot Oil | 1244.07 | 53 | 500.00 | 0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.46 | 0.46 | 0.46 | 200.00 | 1020.00 | 4.00 |
| 32-1003 | Flare KO Drum | Inlet Gas | 746.44 | 13 | 125.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 582.83 | 582.83 | 582.83 | 22.73 | 1097.43 | 4.00 |
| 32-901B, 32-901C, 32-901D, 32-901E | Bullet Tank | Condensate | 55230.12 | 248 | 125.00 | 6.80 | N | N/A | N/A | -- | 22,714.47 | 22,714.47 | - | 93.55 | -- | 4.00 |
| 32-1301 | Fuel Gas Scrubber | Residue Gas | 15.55 | 113 | 200.00 | - | Y | Flare | RH1-FL-29-1003 | 98 | 94.12 | 27.43 | 94.12 | 17.87 | 1126.07 | 4.00 |
| 32-1301B | Fuel Gas Scrubber | Residue Gas | 27.65 | 113 | 200.00 | - | N | N/A | N/A | -- | 167.33 | 167.33 | - | 17.87 | -- | 4.00 |
| 32-1201 | Closed Drain 3 Phase Separator | Inlet Gas | 105.98 | 113 | 125.00 | - | N | N/A | N/A | -- | 723.70 | 723.70 | - | 22.73 | -- | 4.00 |
| V-1501 | Hot Oil Expansion Tank | Hot Oil | 261.34 | 53 | 500.00 | 0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.10 | 0.10 | 0.10 | 200.00 | 1020.00 | 4.00 |
| V-1702 | Stabilizer Feed Separator | Condensate | 431.97 | 213 | 125.00 | 6.80 | Y | Flare | RH1-FL-29-1003 | 98 | 177.66 | 177.66 | 177.66 | 93.55 | 3394.62 | 4.00 |
| V-1801 | LPG Surge Tank | Y-Grade | 4885.44 | 168 | 125.00 | 397.30 | Y | Flare | RH1-FL-29-1003 | 98 | 49,613.26 | 9,724.09 | 49,613.26 | 40.97 | 1020.00 | 4.00 |

*Activity durations are conservative estimates.

**Train 2**

| Train 2 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | hours |
| AC-0501, AC-0502, AC-0503 | Amine Cooler | Amine | 635.59 | 103 | 162.50 | 0.01 | N | N/A | N/A | -- | 0.36 | 0.36 | - | 105.14 | -- | 4.00 |
| A-361A, A-361B, A-361C, A-361D | Refrigerant Condenser | Propane | 250.84 | 328 | 175.00 | 174.83 | Y | Flare | RH2-FL-5100 | 98 | 2,443.44 | 459.95 | 2,443.44 | 44.10 | 2516.00 | 4.00 |
| AC-0601, AC-0602 | Reflux Condenser | Low C Acid Gas | 237.16 | 38 | 187.50 | - | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 491.25 | 426.46 | 491.25 | 42.33 | 5.70 | 4.00 |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | 263 | 300.00 | - | N | N/A | N/A | -- | 1,712.34 | 1,712.34 | - | 17.87 | -- | 4.00 |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | Residue Gas | 126.72 | 263 | 300.00 | - | N | N/A | N/A | -- | 1,550.80 | 1,550.80 | - | 17.87 | -- | 4.00 |
| A-161, A-162, A-163 | Refrigerant Compressor Lube Oil Cooler | Lube Oil | 62.70 | 328 | 175.00 | 0.01 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 200.00 | -- | 4.00 |
| A-301 | Expander Compressor Aftercooler | Residue Gas | 56.19 | 373 | 147.50 | - | Y | Flare | RH2-FL-5100 | 98 | 1,220.30 | 107.69 | 1,220.30 | 17.87 | 1126.07 | 4.00 |
| A-341 | Regen Gas Cooler | Inlet Gas | 19.47 | 1058 | 312.50 | - | Y | Flare | RH2-FL-5100 | 98 | 943.26 | 29.34 | 943.26 | 22.73 | 1097.43 | 4.00 |
| AC-2501 | TEG Cooler | Glycol | 8.71 | 43 | 182.50 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| AC-2502 | TEG Condenser | Glycol | 3.47 | 18 | 175.00 | 0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 | <0.01 | 150.17 | 1020.00 | 4.00 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1011.48 | 263 | 300.00 | - | N | N/A | N/A | -- | 12,378.53 | 12,378.53 | - | 17.87 | -- | 4.00 |
| C-161, C-162, C-163 | Refrigerant Compressor | Propane | 973.73 | 185 | 116.50 | 174.83 | Y | Flare | RH2-FL-5100 | 98 | 10,448.06 | 1,966.74 | 10,448.06 | 44.10 | 2516.00 | 4.00 |
| EC-101 | Expander/Compressor | Inlet Gas | 122.34 | 715 | 22.50 | - | N | N/A | N/A | -- | 6,419.00 | 6,419.00 | - | 22.73 | -- | 4.00 |
| C-141 | Regen Gas Compressor | Inlet Gas | 2.54 | 1058 | 140.00 | - | N | N/A | N/A | -- | 158.42 | 158.42 | - | 22.73 | -- | 4.00 |
| F-0201, F-0202 | Amine Carbon Filter | Amine | 1105.84 | 148 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.59 | 0.59 | - | 105.14 | -- | 4.00 |
| F-1225 | Amine Inlet Gas Filter Coalescer | Inlet Gas | 233.55 | 313 | 150.00 | - | Y | Flare | RH2-FL-5100 | 98 | 4,238.73 | 445.80 | 4,238.73 | 22.73 | 1097.43 | 4.00 |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | Inlet Gas | 233.55 | 313 | 150.00 | - | Y | Flare | RH2-FL-5100 | 98 | 4,238.73 | 445.80 | 4,238.73 | 22.73 | 1097.43 | 4.00 |
| F-441 | Inlet Filter Coalescer | Inlet Gas | 134.77 | 313 | 150.00 | - | N | N/A | N/A | -- | 2,446.02 | 2,446.02 | - | 22.73 | -- | 4.00 |
| F-2202 | TEG Carbon Filter | Glycol | 105.83 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | 0.06 | 0.06 | - | 150.17 | -- | 4.00 |
| F-0203, F-0204 | Amine Rich Solids Filter | Amine | 63.36 | 148 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 105.14 | -- | 4.00 |
| F-445, F-446 | Mol Sieve Dust Filter | Inlet Gas | 62.72 | 1058 | 150.00 | - | N | N/A | N/A | -- | 3,848.20 | 3,848.20 | - | 22.73 | -- | 4.00 |
| F-0200 | Pre-Carbon Solids Filter | Amine | 31.68 | 148 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.02 | 0.02 | - | 105.14 | -- | 4.00 |
| F-0305 | Amine Lean Solids Filter | Amine | 31.68 | 103 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.02 | 0.02 | - | 105.14 | -- | 4.00 |
| F-0805 | Hot Oil Filter | Hot Oil | 24.25 | 103 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| F-2201 | TEG Pre-Carbon Filter | Glycol | 1.60 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F-2203 | TEG Rich Solids Filter | Glycol | 1.60 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F-2401 | TEG Lean Solids Filter | Glycol | 1.60 | 43 | 240.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F-1530 | Seal Gas Filter | Residue Gas | 0.16 | 1410 | 165.00 | - | N | N/A | N/A | -- | 12.71 | 12.71 | - | 17.87 | -- | 4.00 |
| E-203 | Chiller | Propane | 1784.74 | 43 | 8.00 | 174.83 | Y | Flare | RH2-FL-5100 | 98 | 5,790.60 | 4,441.12 | 5,790.60 | 44.10 | 2516.00 | 4.00 |
| E-0401, E-0404 | Amine Reboiler | Amine | 1308.19 | 38 | 275.00 | 0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 0.63 | 0.63 | 0.63 | 105.14 | 1020.00 | 4.00 |
| H-2301 | TEG Reboiler | Glycol | 914.69 | 18 | 400.00 | 0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 0.38 | 0.38 | 0.38 | 150.17 | 1020.00 | 4.00 |
| E-1101, E-1102 | Gas/Gas Exchanger | Inlet Gas | 255.43 | 1058 | 150.00 | - | Y | Flare | RH2-FL-5100 | 98 | 15,672.78 | 487.56 | 15,672.78 | 22.73 | 1097.43 | 4.00 |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 1 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| 31-309 | Glycol Stahl Column | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-311 | Glycol Surge Tank | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-110 | Glycol Still Column/Reflux Condenser | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-203 | Rich Amine Flash Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-215 | Amine Reflux Accumulator | 1.00 | 0.10 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 11.65 | 0.02 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 |
| 32-211 | Amine Surge Drum | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-806 | Propane Suction Scrubber | 1.00 | 100.00 | 3.13 | <0.01 | -- | -- | -- | -- | 3.21 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | 0.05 | <0.01 | 0.08 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-803 | Propane Accumulator | 1.00 | 100.00 | 46.13 | 0.09 | -- | -- | -- | -- | 51.03 | 0.10 | -- | -- | -- | -- | 0.73 | <0.01 | 2.91 | <0.01 | 4.90 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-804 | Propane Economizer | 1.00 | 100.00 | 8.96 | 0.02 | -- | -- | -- | -- | 9.69 | 0.02 | -- | -- | -- | -- | 0.11 | <0.01 | 0.43 | <0.01 | 0.72 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-701 | Hot Oil Surge Drum | 1.00 | 100.00 | 0.06 | <0.01 | -- | -- | -- | -- | 0.06 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-1003 | Flare KO Drum | 1.00 | 23.25 | 2.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.07 | <0.01 | 0.61 | <0.01 | 4.57 | <0.01 | 0.02 | <0.01 | 0.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| 32-901B, 32-901C, 32-901D, 32-901E | Bullet Tank | 1.00 | 95.47 | 1338.10 | 2.68 | -- | -- | 0.01 | <0.01 | 1338.10 | 2.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-1301 | Fuel Gas Scrubber | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.25 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| 32-1301B | Fuel Gas Scrubber | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.53 | <0.01 | 0.34 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-1201 | Closed Drain 3 Phase Separator | 1.00 | 23.25 | 2.52 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.52 | <0.01 | 0.76 | <0.01 | 5.67 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-1501 | Hot Oil Expansion Tank | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-1702 | Stabilizer Feed Separator | 1.00 | 95.47 | 10.47 | 0.02 | -- | -- | <0.01 | <0.01 | 10.67 | 0.02 | -- | -- | -- | -- | 0.02 | <0.01 | 0.08 | <0.01 | 0.21 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | -- | -- | -- | -- |
| V-1801 | LPG Surge Tank | 1.00 | 71.97 | 189.11 | 0.38 | -- | -- | -- | -- | 208.41 | 0.42 | 0.24 | <0.01 | 0.23 | <0.01 | 1.75 | <0.01 | 6.95 | 0.01 | 19.30 | 0.04 | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | <0.01 | -- |
| *Activity durations are conservative estimates. | | **Train 1 Vented SSM** | | **3474.74** | **6.95** | **0.05** | **<0.01** | **0.03** | **<0.01** | **3662.24** | **7.32** | **152.80** | **0.31** | **302.98** | **0.61** | | | | | | | | | | | | | | | | | | |
| | | **RH1-FL-29-1003** | | | | | | | | | | | | | | **47.38** | **0.09** | **188.68** | **0.38** | **168.19** | **0.34** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **1.02** | **<0.01** | **26.76** | **0.09** | **3.03** | **<0.01** |
| | | **RH1-FL-2850** | | | | | | | | | | | | | | **1.92** | **<0.01** | **7.64** | **0.02** | **19.31** | **0.04** | **--** | **--** | **--** | **--** | **1.89** | **<0.01** | **--** | **--** | **--** | **--** |
| | | **RH2-TO-5500** | | | | | | | | | | | | | | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.94** | **<0.01** | **<0.01** | **<0.01** |

**Train 2**

| Train 2 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Vented Emissions: Unflared VOC Emissions | | Vented Emissions: Total Unflared $H_2S$ Emissions | | Vented Emissions: Total Unflared HAP Emissions | | Vented Emissions: Total VOC Emissions | | Vented Emissions: Total Unflared $CO_2$ Emissions | | Vented Emissions: Total Unflared $CH_4$ Emissions | | Flared Emissions: $NO_x$ Emissions | | Flared Emissions: CO Emissions | | Flared Emissions: Controlled VOC Emissions | | Flared Emissions: $SO_2$ Emissions | | Flared Emissions: Total Controlled $H_2S$ Emissions | | Flared Emissions: Total Controlled HAP Emissions | | Flared Emissions: Total Controlled $CO_2$ Emissions | | Flared Emissions: Total Controlled $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-0501, AC-0502, AC-0503 | Amine Cooler | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-361A, A-361B, A-361C, A-361D | Refrigerant Condenser | 1.00 | 100.00 | 13.38 | 0.03 | -- | -- | -- | -- | 14.80 | 0.03 | -- | -- | -- | -- | 0.21 | <0.01 | 0.84 | <0.01 | 1.42 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-0601, AC-0602 | Reflux Condenser | 1.00 | 0.10 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 11.56 | 0.02 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 15.65 | 0.03 | 3.51 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 14.18 | 0.03 | 3.18 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-161, A-162, A-163 | Refrigerant Compressor Lube Oil Cooler | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-301 | Expander Compressor Aftercooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.98 | <0.01 | 0.22 | <0.01 | 0.05 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.22 | <0.01 | <0.01 | <0.01 |
| A-341 | Regen Gas Cooler | 1.00 | 23.25 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.17 | <0.01 | 0.03 | <0.01 | 0.23 | <0.01 | 0.04 | <0.01 | 0.14 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| AC-2501 | TEG Cooler | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-2502 | TEG Condenser | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 113.16 | 0.23 | 25.37 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-161, C-162, C-163 | Refrigerant Compressor | 1.00 | 100.00 | 57.21 | 0.11 | -- | -- | -- | -- | 63.29 | 0.13 | -- | -- | -- | -- | 0.91 | <0.01 | 3.61 | <0.01 | 6.08 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EC-101 | Expander/Compressor | 1.00 | 23.25 | 22.38 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | 22.38 | 0.04 | 6.70 | 0.01 | 50.29 | 0.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-141 | Regen Gas Compressor | 1.00 | 23.25 | 0.55 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.55 | <0.01 | 0.17 | <0.01 | 1.24 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0201, F-0202 | Amine Carbon Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1225 | Amine Inlet Gas Filter Coalescer | 1.00 | 23.25 | 1.55 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.85 | <0.01 | 0.47 | <0.01 | 3.49 | <0.01 | 0.16 | <0.01 | 0.64 | <0.01 | 0.30 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | 0.01 | <0.01 |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | 1.00 | 23.25 | 1.55 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.85 | <0.01 | 0.47 | <0.01 | 3.49 | <0.01 | 0.16 | <0.01 | 0.64 | <0.01 | 0.30 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | 0.01 | <0.01 |
| F-441 | Inlet Filter Coalescer | 1.00 | 23.25 | 8.53 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 8.53 | 0.02 | 2.55 | <0.01 | 19.16 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2202 | TEG Carbon Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0203, F-0204 | Amine Rich Solids Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-445, F-446 | Mol Sieve Dust Filter | 1.00 | 23.25 | 13.42 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | 13.42 | 0.03 | 4.02 | <0.01 | 30.15 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0200 | Pre-Carbon Solids Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0305 | Amine Lean Solids Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0805 | Hot Oil Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2201 | TEG Pre-Carbon Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2203 | TEG Rich Solids Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2401 | TEG Lean Soilds Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1530 | Seal Gas Filter | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.12 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-203 | Chiller | 1.00 | 100.00 | 129.18 | 0.26 | -- | -- | -- | -- | 132.55 | 0.27 | -- | -- | -- | -- | 0.50 | <0.01 | 2.00 | <0.01 | 3.37 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-0401, E-0404 | Amine Reboiler | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-2301 | TEG Reboiler | 1.00 | 100.00 | 0.04 | <0.01 | -- | -- | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-1101, E-1102 | Gas/Gas Exchanger | 1.00 | 23.25 | 1.70 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.79 | <0.01 | 0.51 | <0.01 | 3.82 | <0.01 | 0.59 | <0.01 | 2.36 | <0.01 | 1.09 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.33 | <0.01 | 0.05 | <0.01 |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 2 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | hours |
| E-201/E-206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | Inlet Gas | 239.91 | 715 | -17.50 | - | Y | Flare | RH2-FL-5100 | 98 | 13,725.96 | 631.42 | 13,725.96 | 22.73 | 1097.43 | 4.00 |
| E-202 | Gas/Product Exchanger | Y-Grade | 149.11 | 1383 | 140.00 | 397.30 | Y | Flare | RH2-FL-5100 | 98 | 3,493.28 | 289.36 | 3,493.28 | 40.97 | 1020.00 | 4.00 |
| E-0301, E-0302 | Amine Lean/Rich Exchanger | Amine | 71.85 | 93 | 237.50 | 0.01 | N | N/A | N/A | -- | 0.04 | 0.04 | - | 105.14 | -- | 4.00 |
| E-204/205 | Demethanizer Side Heater and Demethanizer Reboiler | Inlet Gas | 62.59 | 715 | 45.00 | - | Y | Flare | RH2-FL-5100 | 98 | 3,137.48 | 144.33 | 3,137.48 | 22.73 | 1097.43 | 4.00 |
| E-207 | Demethanizer Trim Reboiler | Y-Grade | 46.03 | 373 | 150.00 | 397.30 | Y | Flare | RH2-FL-5100 | 98 | 995.50 | 87.86 | 995.50 | 40.97 | 1020.00 | 4.00 |
| E-2204 | TEG/TEG Exchanger | Glycol | 24.08 | 83 | 275.00 | 0.01 | N | N/A | N/A | -- | 0.01 | 0.01 | - | 150.17 | -- | 4.00 |
| TO-5500 | Thermal Oxidizer | Low C Acid Gas | 6479.53 | 13 | 125.00 | - | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 5,059.27 | 5,059.27 | 5,059.27 | 42.33 | 5.70 | 4.00 |
| H-0901, H-1001 | Hot Oil Heater | Hot Oil | 1261.10 | 53 | 500.00 | 0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.46 | 0.46 | 0.46 | 200.00 | 1020.00 | 4.00 |
| H-781 | HMO Heater | Hot Oil | 244.17 | 53 | 500.00 | 0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.09 | 0.09 | 0.09 | 200.00 | 1020.00 | 4.00 |
| H-741 | Regen Gas Heater | Inlet Gas | 55.24 | 1058 | 500.00 | - | Y | Flare | RH2-FL-5100 | 98 | 2,153.36 | 66.99 | 2,153.36 | 22.73 | 1097.43 | 4.00 |
| P-0802, P-0803, P-0804 | Hot Oil Pump | Hot Oil | 17.88 | 53 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-600, P-601, P-602 | Product Charge Pump | Y-Grade | 13.11 | 373 | 150.00 | 397.30 | Y | Flare | RH2-FL-5100 | 98 | 283.52 | 25.02 | 283.52 | 40.97 | 1020.00 | 4.00 |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | Y-Grade | 9.85 | 373 | 150.00 | 397.30 | Y | Flare | RH2-FL-5100 | 98 | 213.02 | 18.80 | 213.02 | 40.97 | 1020.00 | 4.00 |
| P-0702, P-0703, P-0704 | Amine Main Solution Pump | Amine | 8.90 | 63 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-0303, P-0304 | Amine Booster Pump | Amine | 6.66 | 38 | 200.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-2601, P-2602 | TEG Main Solution Pump | Glycol | 2.61 | 43 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-781A, P-781B | HMO Pump | Hot Oil | 2.00 | 53 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-2402, P-2403 | TEG Booster Pump | Glycol | 1.32 | 18 | 240.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-5050 | Flare KO Pump | Condensate | 1.28 | 13 | 125.00 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | -- | 4.00 |
| P-7015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-5515 | CO2 Vent Scrubber Pump | Low C Acid Gas | 1.28 | 18 | 125.00 | - | N | N/A | N/A | -- | 1.39 | 1.39 | - | 42.33 | -- | 4.00 |
| P-7035 | TEG Storage Pump | Glycol | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-0605 | Defoaming Pump | Amine | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-6305 | Amine Sump Pump | Amine | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-6355 | Amine Skid Drain Sump Pump | Amine | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-6405 | Glycol Sump Pump | Glycol | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-6455 | Glycol Skid Drain Sump Pump | Glycol | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-6505 | Hot Oil Skid Drain Sump Pump | Hot Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-6555 | CO2 Vent Stack Skid Drain Sump Pump | Low C Acid Gas | 1.28 | 13 | 125.00 | - | N | N/A | N/A | -- | 1.00 | 1.00 | - | 42.33 | -- | 4.00 |
| P-6605 | Residue Compressor Skid Drain Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-6655 | IA Compressor Drain Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-2504 | TEG Diaphragm Condensate Drum Pump | Glycol | 1.28 | 18 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-0603, P-0604 | Reflux Pump | Amine | 1.08 | 38 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-7021 | Amine Make Up Pump | Amine | 0.72 | 43 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-7760 | Methanol Injection Pump | Methanol | 0.38 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 32.04 | -- | 4.00 |
| P-609 | Methanol Injection Pump | Methanol | 0.11 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 32.04 | -- | 4.00 |
| P-654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| TK-6200 | Slop Tank | Lube Oil | 2488.14 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 1.50 | 1.50 | - | 200.00 | -- | 4.00 |
| TK-7020 | Amine Storage Tank | Amine | 2488.14 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 1.50 | 1.50 | - | 105.14 | -- | 4.00 |
| TK-7030 | TEG Storage Tank | Glycol | 935.64 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.57 | 0.57 | - | 150.17 | -- | 4.00 |
| TK-6300 | Amine Sump Tank | Amine | 623.76 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.38 | 0.38 | - | 105.14 | -- | 4.00 |
| TK-7700 | Methanol Storage Tank | Methanol | 221.17 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 54.23 | 54.23 | - | 32.04 | -- | 4.00 |
| TK-7010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.34 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 200.00 | -- | 4.00 |
| TK-6400 | Glycol Sump Tank | Glycol | 110.58 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.07 | 0.07 | - | 150.17 | -- | 4.00 |
| TK-6350 | Amine Skid Drain Sump | Amine | 110.58 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.07 | 0.07 | - | 105.14 | -- | 4.00 |
| TK-6450 | Glycol Skid Drain Sump | Glycol | 110.58 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.07 | 0.07 | - | 150.17 | -- | 4.00 |
| TK-6500 | Hot Oil Skid Drain Sump | Hot Oil | 110.58 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.07 | 0.07 | - | 200.00 | -- | 4.00 |
| TK-6550 | CO2 Vent Stack Drain Sump | Low C Acid Gas | 110.58 | 13 | 125.00 | - | N | N/A | N/A | -- | 86.34 | 86.34 | - | 42.33 | -- | 4.00 |
| TK-6600 | Residue Compressor Drain Sump | Lube Oil | 110.58 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.07 | 0.07 | - | 200.00 | -- | 4.00 |
| TK-6650 | IA Compressor Drain Sump | Lube Oil | 110.58 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.07 | 0.07 | - | 200.00 | -- | 4.00 |
| TK-6700 | Cryo Refrig Skid Drain Sump | Lube Oil | 110.58 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.07 | 0.07 | - | 200.00 | -- | 4.00 |
| T-0402/T-0403 | Amine Still/Reflux Accumulator | Low C Acid Gas | 7317.55 | 38 | 250.00 | - | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 13,822.67 | 11,999.58 | 13,822.67 | 42.33 | 5.70 | 4.00 |
| T-501 | Demethanizer | Residue Gas | 4142.87 | 373 | 60.00 | - | Y | Flare | RH2-FL-5100 | 98 | 105,125.04 | 9,277.48 | 105,125.04 | 17.87 | 1126.07 | 4.00 |
| T-1201, T-1202 | Amine Contactor | Inlet Gas | 4015.15 | 1058 | 200.00 | - | Y | Flare | RH2-FL-5100 | 98 | 227,694.46 | 7,083.23 | 227,694.46 | 22.73 | 1097.43 | 4.00 |
| T-2701 | TEG Contactor | Inlet Gas | 1088.56 | 1058 | 150.00 | - | Y | Flare | RH2-FL-5100 | 98 | 66,793.70 | 2,077.85 | 66,793.70 | 22.73 | 1097.43 | 4.00 |
| T-2302 | TEG Still | Glycol | 55.29 | 18 | 400.00 | 0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 0.02 | 0.02 | 0.02 | 150.17 | 1020.00 | 4.00 |
| V-404 | Product Surge Tank | Y-Grade | 9589.37 | 413 | 125.00 | 397.30 | Y | Flare | RH2-FL-5100 | 98 | 230,423.26 | 19,086.91 | 230,423.26 | 40.97 | 1020.00 | 4.00 |
| V-0801 | Hot Oil Expansion Tank | Hot Oil | 2591.81 | 53 | 500.00 | 0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.96 | 0.96 | 0.96 | 200.00 | 1020.00 | 4.00 |
| V-0101 | Amine Flash Tank | Amine | 2591.81 | 148 | 200.00 | 0.01 | Y | Flare | RH2-FL-5100 | 98 | 1.39 | 1.39 | 1.39 | 105.14 | 1020.00 | 4.00 |
| V-0701 | Amine Surge Tank | Amine | 2591.81 | 63 | 125.00 | 0.01 | Y | Flare | RH2-FL-5100 | 98 | 1.57 | 1.57 | 1.57 | 105.14 | 1020.00 | 4.00 |
| V-442, V-443, V-444 | Mol Sieve Dehydrator | Inlet Gas | 1904.98 | 1058 | 140.00 | - | Y | Flare | RH2-FL-5100 | 98 | 118,838.20 | 3,696.88 | 118,838.20 | 22.73 | 1097.43 | 4.00 |
| V-402 | Cold Separator | Inlet Gas | 1119.66 | 1113 | 60.00 | - | Y | Flare | RH2-FL-5100 | 98 | 84,790.75 | 2,507.36 | 84,790.75 | 22.73 | 1097.43 | 4.00 |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 2 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| E-201/E-206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | 1.00 | 23.25 | 2.20 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.16 | <0.01 | 0.66 | <0.01 | 4.95 | <0.01 | 0.52 | <0.01 | 2.07 | <0.01 | 0.96 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.29 | <0.01 | 0.04 | <0.01 |
| E-202 | Gas/Product Exchanger | 1.00 | 71.97 | 5.63 | 0.01 | -- | -- | -- | -- | 6.99 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.12 | <0.01 | 0.49 | <0.01 | 1.36 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| E-0301, E-0302 | Amine Lean/Rich Exchanger | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-204/205 | Demethanizer Side Heater and Demethanizer Reboiler | 1.00 | 23.25 | 0.50 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.72 | <0.01 | 0.15 | <0.01 | 1.13 | <0.01 | 0.12 | <0.01 | 0.47 | <0.01 | 0.22 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 |
| E-207 | Demethanizer Trim Reboiler | 1.00 | 71.97 | 1.71 | <0.01 | -- | -- | -- | -- | 2.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.14 | <0.01 | 0.39 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| E-2204 | TEG/TEG Exchanger | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TO-5500 | Thermal Oxidizer | 1.00 | 0.10 | 0.15 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.15 | <0.01 | 137.15 | 0.27 | 0.14 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.37 | <0.01 | <0.01 | <0.01 |
| H-0901, H-1001 | Hot Oil Heater | 1.00 | 100.00 | 0.06 | <0.01 | -- | -- | -- | -- | 0.06 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-781 | HMO Heater | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-741 | Regen Gas Heater | 1.00 | 23.25 | 0.23 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.38 | <0.01 | 0.07 | <0.01 | 0.52 | <0.01 | 0.08 | <0.01 | 0.32 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 |
| P-0802, P-0803, P-0804 | Hot Oil Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-600, P-601, P-602 | Product Charge Pump | 1.00 | 71.97 | 0.49 | <0.01 | -- | -- | -- | -- | 0.60 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.11 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | 1.00 | 71.97 | 0.37 | <0.01 | -- | -- | -- | -- | 0.45 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.08 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| P-0702, P-0703, P-0704 | Amine Main Solution Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-0303, P-0304 | Amine Booster Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-2601, P-2602 | TEG Main Solution Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-781A, P-781B | HMO Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-2402, P-2403 | TEG Booster Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5050 | Flare KO Pump | 1.00 | 95.47 | 0.03 | <0.01 | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7015 | Residue Compressor Lube Oil Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5515 | CO2 Vent Scrubber Pump | 1.00 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7035 | TEG Storage Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-0605 | Defoaming Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6305 | Amine Sump Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6355 | Amine Skid Drain Sump Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6405 | Glycol Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6455 | Glycol Skid Drain Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6505 | Hot Oil Skid Drain Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6555 | CO2 Vent Stack Skid Drain Sump Pump | 1.00 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6605 | Residue Compressor Skid Drain Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6655 | IA Compressor Drain Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-2504 | TEG Diaphragm Condensate Drum Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-0603, P-0604 | Reflux Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7021 | Amine Make Up Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7760 | Methanol Injection Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-609 | Methanol Injection Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-654 | Expander Lube Oil Makeup Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6200 | Slop Tank | 1.00 | 100.00 | 0.20 | <0.01 | -- | -- | -- | -- | 0.20 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7020 | Amine Storage Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7030 | TEG Storage Tank | 1.00 | 100.00 | 0.06 | <0.01 | -- | -- | -- | -- | 0.06 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6300 | Amine Sump Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7700 | Methanol Storage Tank | 1.00 | 100.00 | 1.15 | <0.01 | -- | -- | <0.01 | <0.01 | 1.15 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7010 | Residue Compressor Lube Oil Storage Tank | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6400 | Glycol Sump Tank | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6350 | Amine Skid Drain Sump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6450 | Glycol Skid Drain Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6500 | Hot Oil Skid Drain Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6550 | CO2 Vent Stack Drain Sump | 1.00 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.34 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6600 | Residue Compressor Drain Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6650 | IA Compressor Drain Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6700 | Cryo Refrig Skid Drain Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-0402/T-0403 | Amine Still/Reflux Accumulator | 1.00 | 0.10 | 0.35 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 0.35 | <0.01 | 325.30 | 0.65 | 0.33 | <0.01 | 0.02 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.75 | <0.01 | <0.01 | <0.01 |
| T-501 | Demethanizer | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 84.81 | 0.17 | 19.02 | 0.04 | 4.08 | <0.01 | 16.27 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 19.22 | <0.01 | 0.09 | <0.01 |
| T-1201, T-1202 | Amine Contactor | 1.00 | 23.25 | 24.70 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | 40.58 | 0.08 | 7.40 | 0.01 | 55.49 | 0.11 | 8.62 | 0.02 | 34.33 | 0.07 | 15.88 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 4.76 | <0.01 | 0.71 | <0.01 |
| T-2701 | TEG Contactor | 1.00 | 23.25 | 7.25 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 11.90 | 0.02 | 2.17 | <0.01 | 16.28 | 0.03 | 2.53 | <0.01 | 10.07 | 0.02 | 4.66 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 1.39 | <0.01 | 0.21 | <0.01 |
| T-2302 | TEG Still | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-404 | Product Surge Tank | 1.00 | 71.97 | 371.20 | 0.74 | -- | -- | -- | -- | 460.83 | 0.92 | 0.47 | <0.01 | 0.45 | <0.01 | 8.11 | 0.02 | 32.29 | 0.06 | 89.62 | 0.18 | -- | -- | -- | -- | -- | -- | 0.11 | <0.01 | <0.01 | -- |
| V-0801 | Hot Oil Expansion Tank | 1.00 | 100.00 | 0.13 | <0.01 | -- | -- | -- | -- | 0.13 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-0101 | Amine Flash Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-0701 | Amine Surge Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-442, V-443, V-444 | Mol Sieve Dehydrator | 1.00 | 23.25 | 12.89 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | 21.18 | 0.04 | 3.86 | <0.01 | 28.96 | 0.06 | 4.50 | <0.01 | 17.92 | 0.04 | 8.29 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 2.48 | <0.01 | 0.37 | <0.01 |
| V-402 | Cold Separator | 1.00 | 23.25 | 8.74 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 14.66 | 0.03 | 2.62 | <0.01 | 19.64 | 0.04 | 3.21 | <0.01 | 12.79 | 0.03 | 5.91 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 1.77 | <0.01 | 0.27 | <0.01 |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 2 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | hours |
| V-5000 | Flare KO Drum | Inlet Gas | 933.05 | 13 | 125.00 | - | Y | Flare | RH2-FL-5100 | 98 | 728.53 | 728.53 | 728.53 | 22.73 | 1097.43 | 4.00 |
| V-463 | Refrigerant Accumulator | Propane | 647.95 | 328 | 225.00 | 174.83 | Y | Flare | RH2-FL-5100 | 98 | 5,850.71 | 1,101.33 | 5,850.71 | 44.10 | 2516.00 | 4.00 |
| V-403 | Cold Drain Tank | Y-Grade | 524.84 | 13 | 125.00 | 397.30 | Y | Flare | RH2-FL-5100 | 98 | 409.80 | 409.80 | 409.80 | 40.97 | 1020.00 | 4.00 |
| V-462 | Refrigerant Economizer | Propane | 373.22 | 133 | 100.00 | 174.83 | Y | Flare | RH2-FL-5100 | 98 | 3,134.15 | 776.05 | 3,134.15 | 44.10 | 2516.00 | 4.00 |
| V-5510 | CO2 Vent Scrubber | Low C Acid Gas | 365.01 | 18 | 125.00 | - | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 395.39 | 395.39 | 395.39 | 42.33 | 5.70 | 4.00 |
| V-1203 | Amine Scrubber | Inlet Gas | 365.01 | 1058 | 150.00 | - | Y | Flare | RH2-FL-5100 | 98 | 22,397.09 | 696.74 | 22,397.09 | 22.73 | 1097.43 | 4.00 |
| V-461 | Refrigerant Suction Scrubber | Propane | 311.02 | 43 | 8.00 | 174.83 | Y | Flare | RH2-FL-5100 | 98 | 1,009.10 | 773.93 | 1,009.10 | 44.10 | 2516.00 | 4.00 |
| T-2702 | TEG Scrubber | Inlet Gas | 261.34 | 1058 | 150.00 | - | Y | Flare | RH2-FL-5100 | 98 | 16,035.79 | 498.85 | 16,035.79 | 22.73 | 1097.43 | 4.00 |
| V-2101 | TEG Flash Tank | Glycol | 215.98 | 148 | 150.00 | 0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.13 | 0.13 | 0.13 | 150.17 | 1020.00 | 4.00 |
| V-5520 | CO2 Vent Stack | Low C Acid Gas | 207.35 | 13 | 125.00 | - | N | N/A | N/A | -- | 161.90 | 161.90 | - | 42.33 | -- | 4.00 |
| V-1050 | Inlet Gas Scrubber | Inlet Gas | 174.95 | 1058 | 150.00 | - | Y | Flare | RH2-FL-5100 | 98 | 10,734.70 | 333.94 | 10,734.70 | 22.73 | 1097.43 | 4.00 |
| V-2503 | TEG Vent Condensate Drum | Glycol | 77.75 | 18 | 125.00 | 0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 0.05 | 0.05 | 0.05 | 150.17 | 1020.00 | 4.00 |
| V-3100 | Amine Flash Gas Scrubber | Inlet Gas | 54.00 | 148 | 125.00 | - | N | N/A | N/A | -- | 483.03 | 483.03 | - | 22.73 | -- | 4.00 |
| V-481 | Fuel Gas Scrubber | Residue Gas | 20.73 | 153 | 125.00 | - | N | N/A | N/A | -- | 191.76 | 191.76 | - | 17.87 | -- | 4.00 |
| V-447 | Regen Gas Scrubber | Inlet Gas | 9.72 | 1058 | 125.00 | - | Y | Flare | RH2-FL-5100 | 98 | 621.87 | 19.35 | 621.87 | 22.73 | 1097.43 | 4.00 |
| V-464 | Refrigerant Reclaimer | Propane | 1.73 | 43 | 125.00 | 174.83 | Y | Flare | RH2-FL-5100 | 98 | 4.50 | 3.45 | 4.50 | 44.10 | 2516.00 | 4.00 |

*Activity durations are conservative estimates.

**Train 3**

| Train 3 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | hours |
| AC-6501 | TEG Cooler | Glycol | 8.71 | 43 | 182.50 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| AC-6502 | BTEX Condenser | Glycol | 3.47 | 18 | 175.00 | 0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 | <0.01 | 150.17 | 1020.00 | 4.00 |
| A-341 | Regen Gas Cooler | Inlet Gas | 19.47 | 1058 | 312.50 | - | Y | Flare | RH3-FL-5100 | 98 | 943.26 | 29.34 | 943.26 | 22.73 | 1097.43 | 4.00 |
| A-301 | Expander Compressor Aftercooler | Residue Gas | 56.19 | 373 | 147.50 | - | Y | Flare | RH3-FL-5100 | 98 | 1,220.30 | 107.69 | 1,220.30 | 17.87 | 1126.07 | 4.00 |
| A-361A, A-361B, A-361C, A-361D | Refrigerant Condenser | Propane | 250.84 | 328 | 175.00 | 174.83 | Y | Flare | RH3-FL-5100 | 98 | 2,443.44 | 459.95 | 2,443.44 | 44.10 | 2516.00 | 4.00 |
| A-161, A-162, A-163 | Refrigerant Compressor Lube Oil Cooler | Lube Oil | 62.70 | 328 | 175.00 | 0.01 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 200.00 | -- | 4.00 |
| HAL-1475-IC-1, HAL-1500-IC-1, HAL-1550-IC-1, HAL-1575-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | 263 | 300.00 | - | N | N/A | N/A | -- | 1,712.34 | 1,712.34 | - | 17.87 | -- | 4.00 |
| HAL-1475-AC-1, HAL-1500-AC-1, HAL-1550-AC-1, HAL-1575-AC-1 | Residue Compressor Aftercooler | Residue Gas | 126.72 | 263 | 300.00 | - | N | N/A | N/A | -- | 1,550.80 | 1,550.80 | - | 17.87 | -- | 4.00 |
| C-161, C-162, C-163 | Refrigerant Compressor | Propane | 973.73 | 185 | 116.50 | 174.83 | Y | Flare | RH3-FL-5100 | 98 | 10,448.06 | 1,966.74 | 10,448.06 | 44.10 | 2516.00 | 4.00 |
| C-1475, C-1500, C-1550, C-1575 | Residue Compressor | Residue Gas | 1011.48 | 263 | 300.00 | - | N | N/A | N/A | -- | 12,378.53 | 12,378.53 | - | 17.87 | -- | 4.00 |
| EC-101 | Expander/Compressor | Inlet Gas | 122.34 | 715 | 22.50 | - | N | N/A | N/A | -- | 6,419.00 | 6,419.00 | - | 22.73 | -- | 4.00 |
| C-141 | Regen Gas Compressor | Inlet Gas | 2.54 | 1058 | 140.00 | - | N | N/A | N/A | -- | 158.42 | 158.42 | - | 22.73 | -- | 4.00 |
| F-1530 | Seal Gas Filter | Residue Gas | 0.16 | 1410 | 165.00 | - | N | N/A | N/A | -- | 12.71 | 12.71 | - | 17.87 | -- | 4.00 |
| F-441 | Inlet Filter Coalescer | Inlet Gas | 134.77 | 313 | 150.00 | - | N | N/A | N/A | -- | 2,446.02 | 2,446.02 | - | 22.73 | -- | 4.00 |
| F-6201 | TEG Pre-Carbon Filter | Glycol | 1.60 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F-6202 | TEG Carbon Filter | Glycol | 105.83 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | 0.06 | 0.06 | - | 150.17 | -- | 4.00 |
| F-6203 | TEG Rich Soilds Filter | Glycol | 1.60 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F-6401 | TEG Lean Soilds Filter | Glycol | 1.60 | 43 | 240.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F-1235 | Amine Inlet Gas Filter Coalescer | Inlet Gas | 121.19 | 313 | 150.00 | - | Y | Flare | RH2-FL-5100 | 98 | 2,199.50 | 231.33 | 2,199.50 | 22.73 | 1097.43 | 4.00 |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | Inlet Gas | 121.19 | 313 | 150.00 | - | Y | Flare | RH2-FL-5100 | 98 | 2,199.50 | 231.33 | 2,199.50 | 22.73 | 1097.43 | 4.00 |
| F-445, F-446 | Mol Sieve Dust Filter | Inlet Gas | 62.72 | 1058 | 150.00 | - | N | N/A | N/A | -- | 3,848.20 | 3,848.20 | - | 22.73 | -- | 4.00 |
| E-3800 | Gas/Gas Exchanger | Inlet Gas | 138.71 | 1058 | 150.00 | - | Y | Flare | RH2-FL-5100 | 98 | 8,511.19 | 264.77 | 8,511.19 | 22.73 | 1097.43 | 4.00 |
| H-6301 | TEG Reboiler | Glycol | 950.52 | 18 | 400.00 | 0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 0.39 | 0.39 | 0.39 | 150.17 | 1020.00 | 4.00 |
| E-6204 | TEG/TEG Exchanger | Glycol | 24.08 | 83 | 275.00 | 0.01 | N | N/A | N/A | -- | 0.01 | 0.01 | - | 150.17 | -- | 4.00 |
| E-201/E-206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | Inlet Gas | 239.91 | 715 | -17.50 | - | Y | Flare | RH3-FL-5100 | 98 | 13,725.96 | 631.42 | 13,725.96 | 22.73 | 1097.43 | 4.00 |
| E-202 | Gas/Product Exchanger | Y-Grade | 149.11 | 1383 | 140.00 | 397.30 | Y | Flare | RH3-FL-5100 | 98 | 3,493.28 | 289.36 | 3,493.28 | 40.97 | 1020.00 | 4.00 |
| E-204/205 | Demethanizer Side Heater and Demethanizer Reboiler | Inlet Gas | 62.59 | 715 | 45.00 | - | Y | Flare | RH3-FL-5100 | 98 | 3,137.48 | 144.33 | 3,137.48 | 22.73 | 1097.43 | 4.00 |
| E-207 | Demethanizer Trim Reboiler | Y-Grade | 46.03 | 373 | 150.00 | 397.30 | Y | Flare | RH3-FL-5100 | 98 | 995.50 | 87.86 | 995.50 | 40.97 | 1020.00 | 4.00 |
| E-203 | Chiller | Propane | 1784.74 | 43 | 8.00 | 174.83 | Y | Flare | RH3-FL-5100 | 98 | 5,790.60 | 4,441.12 | 5,790.60 | 44.10 | 2516.00 | 4.00 |
| H-741 | Regen Gas Heater | Inlet Gas | 55.24 | 1058 | 500.00 | - | Y | Flare | RH3-FL-5100 | 98 | 2,153.36 | 66.99 | 2,153.36 | 22.73 | 1097.43 | 4.00 |
| H-781 | HMO Heater | Hot Oil | 244.17 | 53 | 500.00 | 0.01 | Y | Flare | RH3-FL-5100 | 98 | 0.09 | 0.09 | 0.09 | 200.00 | 1020.00 | 4.00 |
| P-5050 | Flare KO Pump | Condensate | 1.28 | 13 | 125.00 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | -- | 4.00 |
| P-6601, P-6602 | TEG Main Solution Pump | Glycol | 2.61 | 43 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-6605 | Residue Compressor Skid Drain Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-6402, P-6403 | TEG Booster Pump | Glycol | 1.32 | 18 | 240.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 2 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| V-5000 | Flare KO Drum | 1.00 | 23.25 | 2.54 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.59 | <0.01 | 0.76 | <0.01 | 5.71 | 0.01 | 0.03 | <0.01 | 0.11 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| V-463 | Refrigerant Accumulator | 1.00 | 100.00 | 32.04 | 0.06 | -- | -- | -- | -- | 35.44 | 0.07 | -- | -- | -- | -- | 0.51 | <0.01 | 2.02 | <0.01 | 3.40 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-403 | Cold Drain Tank | 1.00 | 71.97 | 7.97 | 0.02 | -- | -- | -- | -- | 8.13 | 0.02 | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 0.06 | <0.01 | 0.16 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| V-462 | Refrigerant Economizer | 1.00 | 100.00 | 22.57 | 0.05 | -- | -- | -- | -- | 24.40 | 0.05 | -- | -- | -- | -- | 0.27 | <0.01 | 1.08 | <0.01 | 1.82 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-5510 | CO2 Vent Scrubber | 1.00 | 0.10 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 10.72 | 0.02 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 |
| V-1203 | Amine Scrubber | 1.00 | 23.25 | 2.43 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.99 | <0.01 | 0.73 | <0.01 | 5.46 | 0.01 | 0.85 | <0.01 | 3.38 | <0.01 | 1.56 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.47 | <0.01 | 0.07 | <0.01 |
| V-461 | Refrigerant Suction Scrubber | 1.00 | 100.00 | 22.51 | 0.05 | -- | -- | -- | -- | 23.10 | 0.05 | -- | -- | -- | -- | 0.09 | <0.01 | 0.35 | <0.01 | 0.59 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-2702 | TEG Scrubber | 1.00 | 23.25 | 1.74 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.86 | <0.01 | 0.52 | <0.01 | 3.91 | <0.01 | 0.61 | <0.01 | 2.42 | <0.01 | 1.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.33 | <0.01 | 0.05 | <0.01 |
| V-2101 | TEG Flash Tank | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-5520 | CO2 Vent Stack | 1.00 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.39 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-1050 | Inlet Gas Scrubber | 1.00 | 23.25 | 1.16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.91 | <0.01 | 0.35 | <0.01 | 2.62 | <0.01 | 0.41 | <0.01 | 1.62 | <0.01 | 0.75 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.22 | <0.01 | 0.03 | <0.01 |
| V-2503 | TEG Vent Condensate Drum | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-3100 | Amine Flash Gas Scrubber | 1.00 | 23.25 | 1.68 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.68 | <0.01 | 0.50 | <0.01 | 3.78 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-481 | Fuel Gas Scrubber | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.75 | <0.01 | 0.39 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-447 | Regen Gas Scrubber | 1.00 | 23.25 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | 0.02 | <0.01 | 0.15 | <0.01 | 0.02 | <0.01 | 0.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| V-464 | Refrigerant Reclaimer | 1.00 | 100.00 | 0.10 | <0.01 | -- | -- | -- | -- | 0.10 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| *Activity durations are conservative estimates. | **Train 2 Vented SSM** | | | **782.63** | **1.57** | **0.04** | **<0.01** | **<0.01** | **<0.01** | **932.39** | **1.86** | **757.38** | **1.51** | **313.17** | **0.63** | | | | | | | | | | | | | | | | | |
| | **RH2-FL-5100** | | | | | | | | | | | | | | | **37.36** | **0.07** | **148.80** | **0.30** | **149.76** | **0.30** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.20** | **<0.01** | **31.94** | **<0.01** | **1.95** | **<0.01** |
| | **RH2-TO-5500** | | | | | | | | | | | | | | | **0.03** | ` | **0.02** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **5.36** | **<0.01** | **<0.01** | **<0.01** |

**Train 3**

| | | | | Vented Emissions | | | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Train 3 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-6501 | TEG Cooler | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-6502 | BTEX Condenser | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-341 | Regen Gas Cooler | 1.00 | 23.25 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.17 | <0.01 | 0.03 | <0.01 | 0.23 | <0.01 | 0.04 | <0.01 | 0.14 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| A-301 | Expander Compressor Aftercooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.98 | <0.01 | 0.22 | <0.01 | 0.05 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.22 | <0.01 | <0.01 | <0.01 |
| A-361A, A-361B, A-361C, A-361D | Refrigerant Condenser | 1.00 | 100.00 | 13.38 | 0.03 | -- | -- | -- | -- | 14.80 | 0.03 | -- | -- | -- | -- | 0.21 | <0.01 | 0.84 | <0.01 | 1.42 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-161, A-162, A-163 | Refrigerant Compressor Lube Oil Cooler | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1475-IC-1, HAL-1500-IC-1, HAL-1550-IC-1, HAL-1575-IC-1 | Residue Compressor Intercooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 15.65 | 0.03 | 3.51 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1475-AC-1, HAL-1500-AC-1, HAL-1550-AC-1, HAL-1575-AC-1 | Residue Compressor Aftercooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 14.18 | 0.03 | 3.18 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-161, C-162, C-163 | Refrigerant Compressor | 1.00 | 100.00 | 57.21 | 0.11 | -- | -- | -- | -- | 63.29 | 0.13 | -- | -- | -- | -- | 0.91 | <0.01 | 3.61 | <0.01 | 6.08 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1475, C-1500, C-1550, C-1575 | Residue Compressor | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 113.16 | 0.23 | 25.37 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EC-101 | Expander/Compressor | 1.00 | 23.25 | 22.38 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | 22.38 | 0.04 | 6.70 | 0.01 | 50.29 | 0.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-141 | Regen Gas Compressor | 1.00 | 23.25 | 0.55 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.55 | <0.01 | 0.17 | <0.01 | 1.24 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1530 | Seal Gas Filter | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.12 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-441 | Inlet Filter Coalescer | 1.00 | 23.25 | 8.53 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 8.53 | 0.02 | 2.55 | <0.01 | 19.16 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6201 | TEG Pre-Carbon Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6202 | TEG Carbon Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6203 | TEG Rich Solids Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6401 | TEG Lean Solids Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1235 | Amine Inlet Gas Filter Coalescer | 1.00 | 23.25 | 0.81 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.96 | <0.01 | 0.24 | <0.01 | 1.81 | <0.01 | 0.08 | <0.01 | 0.33 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | 1.00 | 23.25 | 0.81 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.96 | <0.01 | 0.24 | <0.01 | 1.81 | <0.01 | 0.08 | <0.01 | 0.33 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 |
| F-445, F-446 | Mol Sieve Dust Filter | 1.00 | 23.25 | 13.42 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | 13.42 | 0.03 | 4.02 | <0.01 | 30.15 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-3800 | Gas/Gas Exchanger | 1.00 | 23.25 | 0.92 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.52 | <0.01 | 0.28 | <0.01 | 2.07 | <0.01 | 0.32 | <0.01 | 1.28 | <0.01 | 0.59 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.18 | <0.01 | 0.03 | <0.01 |
| H-6301 | TEG Reboiler | 1.00 | 100.00 | 0.04 | <0.01 | -- | -- | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-6204 | TEG/TEG Exchanger | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-201/E-206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | 1.00 | 23.25 | 2.20 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.16 | <0.01 | 0.66 | <0.01 | 4.95 | <0.01 | 0.52 | <0.01 | 2.07 | <0.01 | 0.96 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.29 | <0.01 | 0.04 | <0.01 |
| E-202 | Gas/Product Exchanger | 1.00 | 71.97 | 5.63 | 0.01 | -- | -- | -- | -- | 6.99 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.12 | <0.01 | 0.49 | <0.01 | 1.36 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| E-204/205 | Demethanizer Side Heater and Demethanizer Reboiler | 1.00 | 23.25 | 0.50 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.72 | <0.01 | 0.15 | <0.01 | 1.13 | <0.01 | 0.12 | <0.01 | 0.47 | <0.01 | 0.22 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 |
| E-207 | Demethanizer Trim Reboiler | 1.00 | 71.97 | 1.71 | <0.01 | -- | -- | -- | -- | 2.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.14 | <0.01 | 0.39 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| E-203 | Chiller | 1.00 | 100.00 | 129.18 | 0.26 | -- | -- | -- | -- | 132.55 | 0.27 | -- | -- | -- | -- | 0.50 | <0.01 | 2.00 | <0.01 | 3.37 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-741 | Regen Gas Heater | 1.00 | 23.25 | 0.23 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.38 | <0.01 | 0.07 | <0.01 | 0.52 | <0.01 | 0.08 | <0.01 | 0.32 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 |
| H-781 | HMO Heater | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5050 | Flare KO Pump | 1.00 | 95.47 | 0.03 | <0.01 | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6601, P-6602 | TEG Main Solution Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6605 | Residue Compressor Skid Drain Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6402, P-6403 | TEG Booster Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 3 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ft³ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | Btu/scf | hours |
| P-6504 | BTEX Pump | Glycol | 1.28 | 18 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-600, P-601, P-602 | Product Charge Pump | Y-Grade | 13.11 | 373 | 150.00 | 397.30 | Y | Flare | RH3-FL-5100 | 98 | 283.52 | 25.02 | 283.52 | 40.97 | 1020.00 | 4.00 |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | Y-Grade | 9.85 | 373 | 150.00 | 397.30 | Y | Flare | RH3-FL-5100 | 98 | 213.02 | 18.80 | 213.02 | 40.97 | 1020.00 | 4.00 |
| P-609 | Methanol Injection Pump | Methanol | 0.11 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 32.04 | -- | 4.00 |
| P-654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-781A, P-781B | HMO Pump | Hot Oil | 2.00 | 53 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-7760 | Methanol Injection Pump | Methanol | 0.38 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 32.04 | -- | 4.00 |
| TK-6600 | Residue Compressor Drain Sump | Lube Oil | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 200.00 | -- | 4.00 |
| TK-6700 | Cryo Refrig Skid Drain Sump | Lube Oil | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 200.00 | -- | 4.00 |
| TK-7700 | Methanol Storage Tank | Methanol | 157.45 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 38.61 | 38.61 | - | 32.04 | -- | 4.00 |
| T-1801, T-1802 | Amine Contactor | Inlet Gas | 5604.80 | 1058 | 200.00 | - | Y | Flare | RH2-FL-5100 | 98 | 317,841.37 | 9,887.57 | 317,841.37 | 22.73 | 1097.43 | 4.00 |
| T-2801 | TEG Contactor | Inlet Gas | 1166.32 | 1058 | 150.00 | - | Y | Flare | RH2-FL-5100 | 98 | 71,564.68 | 2,226.27 | 71,564.68 | 22.73 | 1097.43 | 4.00 |
| T-501 | Demethanizer | Residue Gas | 4142.87 | 373 | 60.00 | - | Y | Flare | RH3-FL-5100 | 98 | 105,125.04 | 9,277.48 | 105,125.04 | 17.87 | 1126.07 | 4.00 |
| V-1050 | Inlet Gas Scrubber | Inlet Gas | 174.95 | 1058 | 150.00 | - | Y | Flare | RH2-FL-5100 | 98 | 10,734.70 | 333.94 | 10,734.70 | 22.73 | 1097.43 | 4.00 |
| V-5000 | Flare KO Drum | Inlet Gas | 933.05 | 13 | 125.00 | - | Y | Flare | RH3-FL-5100 | 98 | 728.53 | 728.53 | 728.53 | 22.73 | 1097.43 | 4.00 |
| V-1803 | Amine Scrubber | Inlet Gas | 977.91 | 1058 | 150.00 | - | Y | Flare | RH2-FL-5100 | 98 | 60,003.89 | 1,866.63 | 60,003.89 | 22.73 | 1097.43 | 4.00 |
| T-2802 | TEG Scrubber | Inlet Gas | 508.00 | 1058 | 150.00 | - | Y | Flare | RH2-FL-5100 | 98 | 31,170.39 | 969.66 | 31,170.39 | 22.73 | 1097.43 | 4.00 |
| V-6101 | TEG Flash Tank | Glycol | 174.95 | 148 | 150.00 | 0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.10 | 0.10 | 0.10 | 150.17 | 1020.00 | 4.00 |
| V-6503 | BTEX Drum | Glycol | 77.75 | 18 | 125.00 | 0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 0.05 | 0.05 | 0.05 | 150.17 | 1020.00 | 4.00 |
| V-442, V-443, V-444 | Mol Sieve Dehydrator | Inlet Gas | 1904.98 | 1058 | 140.00 | - | Y | Flare | RH3-FL-5100 | 98 | 118,838.20 | 3,696.88 | 118,838.20 | 22.73 | 1097.43 | 4.00 |
| V-447 | Regen Gas Scrubber | Inlet Gas | 9.72 | 1058 | 125.00 | - | Y | Flare | RH3-FL-5100 | 98 | 621.87 | 19.35 | 621.87 | 22.73 | 1097.43 | 4.00 |
| V-402 | Cold Separator | Inlet Gas | 1119.66 | 1113 | 60.00 | - | Y | Flare | RH3-FL-5100 | 98 | 84,790.75 | 2,507.36 | 84,790.75 | 22.73 | 1097.43 | 4.00 |
| V-404 | Product Surge Tank | Y-Grade | 9589.37 | 413 | 125.00 | 397.30 | Y | Flare | RH3-FL-5100 | 98 | 230,423.26 | 19,086.91 | 230,423.26 | 40.97 | 1020.00 | 4.00 |
| V-481 | Fuel Gas Scrubber | Residue Gas | 20.73 | 153 | 125.00 | - | N | N/A | N/A | -- | 191.76 | 191.76 | - | 17.87 | -- | 4.00 |
| V-403 | Cold Drain Tank | Y-Grade | 524.84 | 13 | 125.00 | 397.30 | Y | Flare | RH3-FL-5100 | 98 | 409.80 | 409.80 | 409.80 | 40.97 | 1020.00 | 4.00 |
| V-463 | Refrigerant Accumulator | Propane | 647.95 | 328 | 225.00 | 174.83 | Y | Flare | RH3-FL-5100 | 98 | 5,850.71 | 1,101.33 | 5,850.71 | 44.10 | 2516.00 | 4.00 |
| V-462 | Refrigerant Economizer | Propane | 373.22 | 133 | 100.00 | 174.83 | Y | Flare | RH3-FL-5100 | 98 | 3,134.15 | 776.05 | 3,134.15 | 44.10 | 2516.00 | 4.00 |
| V-461 | Refrigerant Suction Scrubber | Propane | 311.02 | 43 | 8.00 | 174.83 | Y | Flare | RH3-FL-5100 | 98 | 1,009.10 | 773.93 | 1,009.10 | 44.10 | 2516.00 | 4.00 |
| V-464 | Refrigerant Reclaimer | Propane | 1.73 | 43 | 125.00 | 174.83 | Y | Flare | RH3-FL-5100 | 98 | 4.50 | 3.45 | 4.50 | 44.10 | 2516.00 | 4.00 |

*Activity durations are conservative estimates.

**Train 4**

| Train 4 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ft³ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | Btu/scf | hours |
| AC-3601, AC-3602 | Reflux Condenser | Low C Acid Gas | 237.16 | 38 | 187.50 | - | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | 491.25 | 426.46 | 491.25 | 42.33 | 5.70 | 4.00 |
| AC-3501, AC-3502, AC-3503 | Amine Cooler | Amine | 635.59 | 103 | 162.50 | 0.01 | N | N/A | N/A | -- | 0.36 | 0.36 | - | 105.14 | -- | 4.00 |
| AC-5501 | TEG Cooler | Glycol | 8.71 | 43 | 182.50 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| AC-5502 | BTEX Condenser | Glycol | 3.47 | 18 | 175.00 | 0.01 | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | <0.01 | <0.01 | <0.01 | 150.17 | 1020.00 | 4.00 |
| A-341 | Regen Gas Cooler | Inlet Gas | 19.47 | 1058 | 312.50 | - | Y | Flare | RH4-FL-45100 | 98 | 943.26 | 29.34 | 943.26 | 22.73 | 1097.43 | 4.00 |
| A-301 | Expander Compressor Aftercooler | Residue Gas | 56.19 | 373 | 147.50 | - | Y | Flare | RH4-FL-45100 | 98 | 1,220.30 | 107.69 | 1,220.30 | 17.87 | 1126.07 | 4.00 |
| A-361A, A-361B, A-361C, A-361D | Refrigerant Condenser | Propane | 250.84 | 328 | 175.00 | 174.83 | Y | Flare | RH4-FL-45100 | 98 | 2,443.44 | 459.95 | 2,443.44 | 44.10 | 2516.00 | 4.00 |
| A-161, A-162, A-163 | Refrigerant Compressor Lube Oil Cooler | Lube Oil | 62.70 | 328 | 175.00 | 0.01 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 200.00 | -- | 4.00 |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | 263 | 300.00 | - | N | N/A | N/A | -- | 1,712.34 | 1,712.34 | - | 17.87 | -- | 4.00 |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | Residue Gas | 126.72 | 263 | 300.00 | - | N | N/A | N/A | -- | 1,550.80 | 1,550.80 | - | 17.87 | -- | 4.00 |
| C-161, C-162, C-163 | Refrigerant Compressor | Propane | 973.73 | 185 | 116.50 | 174.83 | Y | Flare | RH4-FL-45100 | 98 | 10,448.06 | 1,966.74 | 10,448.06 | 44.10 | 2516.00 | 4.00 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1011.48 | 263 | 300.00 | - | N | N/A | N/A | -- | 12,378.53 | 12,378.53 | - | 17.87 | -- | 4.00 |
| EC-101 | Expander/Compressor | Inlet Gas | 122.34 | 715 | 22.50 | - | N | N/A | N/A | -- | 6,419.00 | 6,419.00 | - | 22.73 | -- | 4.00 |
| C-141 | Regen Gas Compressor | Inlet Gas | 2.54 | 1058 | 140.00 | - | N | N/A | N/A | -- | 158.42 | 158.42 | - | 22.73 | -- | 4.00 |
| F-41530 | Seal Gas Filter | Residue Gas | 0.16 | 1410 | 165.00 | - | N | N/A | N/A | -- | 12.71 | 12.71 | - | 17.87 | -- | 4.00 |
| F-441 | Inlet Filter Coalescer | Inlet Gas | 134.77 | 313 | 150.00 | - | N | N/A | N/A | -- | 2,446.02 | 2,446.02 | - | 22.73 | -- | 4.00 |
| F-408 | Residue Gas Filter/Coalescer | Residue Gas | 16.85 | 313 | 150.00 | - | N | N/A | N/A | -- | 305.75 | 305.75 | - | 17.87 | -- | 4.00 |
| F-3200 | Pre-Carbon Solids Filter | Amine | 31.68 | 148 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.02 | 0.02 | - | 105.14 | -- | 4.00 |
| F-3201, F-3202 | Amine Carbon Filter | Amine | 1105.84 | 148 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.59 | 0.59 | - | 105.14 | -- | 4.00 |
| F-3203, F-3204 | Amine Rich Solids Filter | Amine | 63.36 | 148 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 105.14 | -- | 4.00 |
| F-3305 | Amine Lean Solids Filter | Amine | 31.68 | 103 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.02 | 0.02 | - | 105.14 | -- | 4.00 |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 3 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| P-6504 | BTEX Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-600, P-601, P-602 | Product Charge Pump | 1.00 | 71.97 | 0.49 | <0.01 | -- | -- | -- | -- | 0.60 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.11 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | 1.00 | 71.97 | 0.37 | <0.01 | -- | -- | -- | -- | 0.45 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.08 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| P-609 | Methanol Injection Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-654 | Expander Lube Oil Makeup Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-781A, P-781B | HMO Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7760 | Methanol Injection Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6600 | Residue Compressor Drain Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6700 | Cryo Refrig Skid Drain Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7700 | Methanol Storage Tank | 1.00 | 100.00 | 0.82 | <0.01 | -- | -- | <0.01 | <0.01 | 0.82 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-1801, T-1802 | Amine Contactor | 1.00 | 23.25 | 34.48 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | 56.65 | 0.11 | 10.32 | 0.02 | 77.46 | 0.15 | 12.03 | 0.02 | 47.93 | 0.10 | 22.17 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | 6.64 | <0.01 | 1.00 | <0.01 |
| T-2801 | TEG Contactor | 1.00 | 23.25 | 7.76 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 12.75 | 0.03 | 2.32 | <0.01 | 17.44 | 0.03 | 2.71 | <0.01 | 10.79 | 0.02 | 4.99 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 1.49 | <0.01 | 0.22 | <0.01 |
| T-501 | Demethanizer | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 84.81 | 0.17 | 19.02 | 0.04 | 4.08 | <0.01 | 16.27 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 19.22 | <0.01 | 0.09 | <0.01 |
| V-1050 | Inlet Gas Scrubber | 1.00 | 23.25 | 1.16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.91 | <0.01 | 0.35 | <0.01 | 2.62 | <0.01 | 0.41 | <0.01 | 1.62 | <0.01 | 0.75 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.22 | <0.01 | 0.03 | <0.01 |
| V-5000 | Flare KO Drum | 1.00 | 23.25 | 2.54 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.59 | <0.01 | 0.76 | <0.01 | 5.71 | 0.01 | 0.03 | <0.01 | 0.11 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| V-1803 | Amine Scrubber | 1.00 | 23.25 | 6.51 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 10.69 | 0.02 | 1.95 | <0.01 | 14.62 | 0.03 | 2.27 | <0.01 | 9.05 | 0.02 | 4.18 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 1.25 | <0.01 | 0.19 | <0.01 |
| T-2802 | TEG Scrubber | 1.00 | 23.25 | 3.38 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.56 | 0.01 | 1.01 | <0.01 | 7.60 | 0.02 | 1.18 | <0.01 | 4.70 | <0.01 | 2.17 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 0.65 | <0.01 | 0.10 | <0.01 |
| V-6101 | TEG Flash Tank | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-6503 | BTEX Drum | 1.00 | 100.00 | 4.66E-03 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-442, V-443, V-444 | Mol Sieve Dehydrator | 1.00 | 23.25 | 1.29E+01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | 21.18 | 0.04 | 3.86 | <0.01 | 28.96 | 0.06 | 4.50 | <0.01 | 17.92 | 0.04 | 8.29 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 2.48 | <0.01 | 0.37 | <0.01 |
| V-447 | Regen Gas Scrubber | 1.00 | 23.25 | 6.75E-02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | 0.02 | <0.01 | 0.15 | <0.01 | 0.02 | <0.01 | 0.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| V-402 | Cold Separator | 1.00 | 23.25 | 8.74E+00 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 14.66 | 0.03 | 2.62 | <0.01 | 19.64 | 0.04 | 3.21 | <0.01 | 12.79 | 0.03 | 5.91 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 1.77 | <0.01 | 0.27 | <0.01 |
| V-404 | Product Surge Tank | 1.00 | 71.97 | 3.71E+02 | 0.74 | -- | -- | -- | -- | 460.83 | 0.92 | 0.47 | <0.01 | 0.45 | <0.01 | 8.11 | 0.02 | 32.29 | 0.06 | 89.62 | 0.18 | -- | -- | -- | -- | -- | -- | 0.11 | <0.01 | <0.01 | -- |
| V-481 | Fuel Gas Scrubber | 1.00 | <0.01 | 1.36E-04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.75 | <0.01 | 0.39 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-403 | Cold Drain Tank | 1.00 | 71.97 | 7.97E+00 | 0.02 | -- | -- | -- | -- | 8.13 | 0.02 | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 0.06 | <0.01 | 0.16 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| V-463 | Refrigerant Accumulator | 1.00 | 100.00 | 32.04 | 0.06 | -- | -- | -- | -- | 35.44 | 0.07 | -- | -- | -- | -- | 0.51 | <0.01 | 2.02 | <0.01 | 3.40 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-462 | Refrigerant Economizer | 1.00 | 100.00 | 22.57 | 0.05 | -- | -- | -- | -- | 24.40 | 0.05 | -- | -- | -- | -- | 0.27 | <0.01 | 1.08 | <0.01 | 1.82 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-461 | Refrigerant Suction Scrubber | 1.00 | 100.00 | 22.51 | 0.05 | -- | -- | -- | -- | 23.10 | 0.05 | -- | -- | -- | -- | 0.09 | <0.01 | 0.35 | <0.01 | 0.59 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-464 | Refrigerant Reclaimer | 1.00 | 100.00 | 0.10 | <0.01 | -- | -- | -- | -- | 0.10 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| *Activity durations are conservative estimates. | **Train 3 Vented SSM** | | | **793.32** | **1.59** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **952.59** | **1.91** | **269.47** | **0.54** | **339.77** | **0.68** | | | | | | | | | | | | | | | | | | |
| | **RH2-FL-5100** | | | | | | | | | | | | | | | **19.09** | **0.04** | **76.03** | **0.15** | **35.17** | **0.07** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.17** | **<0.01** | **10.53** | **<0.01** | **1.58** | **<0.01** |
| | **RH3-FL-5100** | | | | | | | | | | | | | | | **23.44** | **0.05** | **93.34** | **0.19** | **124.10** | **0.25** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.08** | **<0.01** | **24.26** | **<0.01** | **0.79** | **<0.01** |
| | **RH2-TO-5500** | | | | | | | | | | | | | | | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Train 4**

| | | | | Vented Emissions | | | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Train 4 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-3601, AC-3602 | Reflux Condenser | 1.00 | 0.10 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 11.56 | 0.02 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 |
| AC-3501, AC-3502, AC-3503 | Amine Cooler | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-5501 | TEG Cooler | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-5502 | BTEX Condenser | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-341 | Regen Gas Cooler | 1.00 | 23.25 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.17 | <0.01 | 0.03 | <0.01 | 0.23 | <0.01 | 0.04 | <0.01 | 0.14 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| A-301 | Expander Compressor Aftercooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.98 | <0.01 | 0.22 | <0.01 | 0.05 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.22 | <0.01 | <0.01 | <0.01 |
| A-361A, A-361B, A-361C, A-361D | Refrigerant Condenser | 1.00 | 100.00 | 13.38 | 0.03 | -- | -- | -- | -- | 14.80 | 0.03 | -- | -- | -- | -- | 0.21 | <0.01 | 0.84 | <0.01 | 1.42 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-161, A-162, A-163 | Refrigerant Compressor Lube Oil Cooler | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 15.65 | 0.03 | 3.51 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 14.18 | 0.03 | 3.18 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-161, C-162, C-163 | Refrigerant Compressor | 1.00 | 100.00 | 57.21 | 0.11 | -- | -- | -- | -- | 63.29 | 0.13 | -- | -- | -- | -- | 0.91 | <0.01 | 3.61 | <0.01 | 6.08 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 113.16 | 0.23 | 25.37 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EC-101 | Expander/Compressor | 1.00 | 23.25 | 22.38 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | 22.38 | 0.04 | 6.70 | 0.01 | 50.29 | 0.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-141 | Regen Gas Compressor | 1.00 | 23.25 | 0.55 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.55 | <0.01 | 0.17 | <0.01 | 1.24 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-41530 | Seal Gas Filter | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.12 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-441 | Inlet Filter Coalescer | 1.00 | 23.25 | 8.53 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 8.53 | 0.02 | 2.55 | <0.01 | 19.16 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-408 | Residue Gas Filter/Coalescer | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.80 | <0.01 | 0.63 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3200 | Pre-Carbon Solids Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3201, F-3202 | Amine Carbon Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3203, F-3204 | Amine Rich Solids Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3305 | Amine Lean Solids Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 4 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | hours |
| F-3805 | Hot Oil Filter | Hot Oil | 24.25 | 103 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| F-5201 | TEG Pre-Carbon Filter | Glycol | 1.60 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F-5202 | TEG Carbon Filter | Glycol | 105.83 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | 0.06 | 0.06 | - | 150.17 | -- | 4.00 |
| F-5203 | TEG Rich Soilds Filter | Glycol | 1.60 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F-5401 | TEG Lean Soilds Filter | Glycol | 1.60 | 43 | 240.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F-41001A, F-41001B | Condensate Filter | Condensate | 48.38 | 313 | 150.00 | 6.80 | Y | Flare | RH4-FL-45100 | 98 | 19.08 | 19.08 | 19.08 | 93.55 | 3394.62 | 4.00 |
| F-41225 | Amine Inlet Gas Filter Coalescer | Inlet Gas | 148.17 | 313 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 2,689.06 | 282.82 | 2,689.06 | 22.73 | 1097.43 | 4.00 |
| F-41275 | Glycol Contactor Inlet Gas Filter Coalescer | Inlet Gas | 148.17 | 313 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 2,689.06 | 282.82 | 2,689.06 | 22.73 | 1097.43 | 4.00 |
| F-41500 | Fuel Gas Filter Coalescer | Residue Gas | 17.33 | 313 | 125.00 | - | N | N/A | N/A | -- | 328.02 | 328.02 | - | 17.87 | -- | 4.00 |
| F-445, F-446 | Mol Sieve Dust Filter | Inlet Gas | 62.72 | 1058 | 150.00 | - | N | N/A | N/A | -- | 3,848.20 | 3,848.20 | - | 22.73 | -- | 4.00 |
| E-4101, E-4102 | Gas/Gas Exchanger | Inlet Gas | 255.43 | 1058 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 15,672.78 | 487.56 | 15,672.78 | 22.73 | 1097.43 | 4.00 |
| E-3301, E-3302 | Amine Lean/Rich Exchanger | Amine | 71.85 | 93 | 237.50 | 0.01 | N | N/A | N/A | -- | 0.04 | 0.04 | - | 105.14 | -- | 4.00 |
| E-3401, E-3404 | Amine Reboiler | Amine | 1308.19 | 38 | 275.00 | 0.01 | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | 0.63 | 0.63 | 0.63 | 105.14 | 1020.00 | 4.00 |
| H-5301 | TEG Reboiler | Glycol | 914.69 | 18 | 400.00 | 0.01 | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | 0.38 | 0.38 | 0.38 | 150.17 | 1020.00 | 4.00 |
| E-5204 | TEG/TEG Exchanger | Glycol | 24.08 | 83 | 275.00 | 0.01 | N | N/A | N/A | -- | 0.01 | 0.01 | - | 150.17 | -- | 4.00 |
| E-201/E-206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | Inlet Gas | 315.27 | 715 | -17.50 | - | Y | Flare | RH4-FL-45100 | 98 | 18,037.65 | 829.76 | 18,037.65 | 22.73 | 1097.43 | 4.00 |
| E-202 | Gas/Product Exchanger | Y-Grade | 149.11 | 1383 | 140.00 | 397.30 | Y | Flare | RH4-FL-45100 | 98 | 3,493.28 | 289.36 | 3,493.28 | 40.97 | 1020.00 | 4.00 |
| E-204/205 | Demethanizer Side Heater and Demethanizer Reboiler | Inlet Gas | 62.59 | 715 | 45.00 | - | Y | Flare | RH4-FL-45100 | 98 | 3,137.48 | 144.33 | 3,137.48 | 22.73 | 1097.43 | 4.00 |
| E-207 | Demethanizer Trim Reboiler | Y-Grade | 46.03 | 373 | 150.00 | 397.30 | Y | Flare | RH4-FL-45100 | 98 | 995.50 | 87.86 | 995.50 | 40.97 | 1020.00 | 4.00 |
| E-203 | Chiller | Propane | 1784.74 | 43 | 8.00 | 174.83 | Y | Flare | RH4-FL-45100 | 98 | 5,790.60 | 4,441.12 | 5,790.60 | 44.10 | 2516.00 | 4.00 |
| TO-45500 | Thermal Oxidizer | Low C Acid Gas | 6565.93 | 13 | 125.00 | - | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | 5,126.73 | 5,126.73 | 5,126.73 | 42.33 | 5.70 | 4.00 |
| H-3901, H-4001 | Hot Oil Heater | Hot Oil | 1079.63 | 53 | 500.00 | 0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.40 | 0.40 | 0.40 | 200.00 | 1020.00 | 4.00 |
| H-741 | Regen Gas Heater | Inlet Gas | 55.24 | 1058 | 500.00 | - | Y | Flare | RH4-FL-45100 | 98 | 2,153.36 | 66.99 | 2,153.36 | 22.73 | 1097.43 | 4.00 |
| H-781 | HMO Heater | Hot Oil | 244.17 | 53 | 500.00 | 0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.09 | 0.09 | 0.09 | 200.00 | 1020.00 | 4.00 |
| H-41100 | Liquid Inline Heater | Condensate | 3.45 | 1058 | 125.00 | 6.80 | Y | Flare | RH4-FL-45100 | 98 | 1.42 | 1.42 | 1.42 | 93.55 | 3394.62 | 4.00 |
| H-41505 | Fuel Gas Inline Heater | Residue Gas | 2.53 | 1410 | 125.00 | - | Y | Flare | RH4-FL-45100 | 98 | 215.60 | 5.03 | 215.60 | 17.87 | 1126.07 | 4.00 |
| P-45050 | Flare KO Pump | Condensate | 1.28 | 13 | 125.00 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | -- | 4.00 |
| P-47015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-45515 | CO2 Vent Scrubber Pump | Low C Acid Gas | 1.28 | 18 | 125.00 | - | N | N/A | N/A | -- | 1.39 | 1.39 | - | 42.33 | -- | 4.00 |
| P-47035 | Glycol Storage Pump | Glycol | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-3802, P-3803, P-3804 | Hot Oil Pump | Hot Oil | 17.88 | 53 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-3303, P-3304 | Amine Booster Pump | Amine | 6.66 | 38 | 200.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-3605 | Defoaming Pump | Amine | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-47021 | Amine Make Up Pump | Amine | 0.72 | 43 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-3702, P-3703, P-3704 | Amine Main Solution Pump | Amine | 8.90 | 63 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-3603, P-3604 | Reflux Pump | Amine | 1.08 | 38 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-46305 | Amine Process Drain Tank Pump | Amine | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-46355 | Amine Area Sump Pump | Amine | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-5601, P-5602 | TEG Main Solution Pump | Glycol | 2.61 | 43 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-46405 | Glycol Process Drain Sump Pump | Glycol | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-46455 | Glycol Area Sump Pump | Glycol | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-46505 | Amine HMO Area Sump Pump | Hot Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-46555 | CO2 Vent Stack Area Sump Pump | Low C Acid Gas | 1.28 | 13 | 125.00 | - | N | N/A | N/A | -- | 1.00 | 1.00 | - | 42.33 | -- | 4.00 |
| P-46605 | Residue Compressor Area Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-46755 | Cryo HMO Skid Drain Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-46705 | Cryo / Refrig Area Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-5402, P-5403 | TEG Booster Pump | Glycol | 1.32 | 18 | 240.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-5504 | TEG Diaphragm Condensate Drum Pump | Glycol | 1.28 | 18 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-600, P-601, P-602 | Product Charge Pump | Y-Grade | 13.11 | 373 | 150.00 | 397.30 | Y | Flare | RH4-FL-45100 | 98 | 283.52 | 25.02 | 283.52 | 40.97 | 1020.00 | 4.00 |
| P-41600, P-41650, P-41700 | NGL Pipeline Pump | Y-Grade | 9.85 | 373 | 150.00 | 397.30 | Y | Flare | RH4-FL-45100 | 98 | 213.02 | 18.80 | 213.02 | 40.97 | 1020.00 | 4.00 |
| P-609 | Methanol Injection Pump | Methanol | 0.11 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 32.04 | -- | 4.00 |
| P-654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-781A, P-781B | HMO Pump | Hot Oil | 2.00 | 53 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-606, P-607 | Demethanizer Reflux Pump | Y-Grade | 1.66 | 373 | -150.00 | 397.30 | Y | Flare | RH4-FL-45100 | 98 | 70.48 | 6.22 | 70.48 | 40.97 | 1020.00 | 4.00 |
| P-47760 | Methanol Injection Pump | Methanol | 0.38 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 32.04 | -- | 4.00 |
| TK-46200, TK-46210, TK-46220, TK-46230 | Slop Tank | Lube Oil | 9952.57 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 6.02 | 6.02 | - | 200.00 | -- | 4.00 |
| TK-47010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.34 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 200.00 | -- | 4.00 |
| TK-47020 | Amine Storage Tank | Amine | 2488.14 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 1.50 | 1.50 | - | 105.14 | -- | 4.00 |
| HE-47025 | Amine Tank Immersion Heater | Amine | 0.00 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | - | - | - | 105.14 | -- | 4.00 |
| TK-47030 | TEG Storage Tank | Glycol | 935.64 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.57 | 0.57 | - | 150.17 | -- | 4.00 |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 4 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| F-3805 | Hot Oil Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5201 | TEG Pre-Carbon Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5202 | TEG Carbon Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5203 | TEG Rich Soilds Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5401 | TEG Lean Soilds Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-41001A, F-41001B | Condensate Filter | 1.00 | 95.47 | 1.12 | <0.01 | -- | -- | <0.01 | <0.01 | 1.15 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| F-41225 | Amine Inlet Gas Filter Coalescer | 1.00 | 23.25 | 0.99 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.17 | <0.01 | 0.30 | <0.01 | 2.22 | <0.01 | 0.10 | <0.01 | 0.41 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 |
| F-41275 | Glycol Contactor Inlet Gas Filter Coalescer | 1.00 | 23.25 | 0.99 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.17 | <0.01 | 0.30 | <0.01 | 2.22 | <0.01 | 0.10 | <0.01 | 0.41 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 |
| F-41500 | Fuel Gas Filter Coalescer | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.00 | <0.01 | 0.67 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-445, F-446 | Mol Sieve Dust Filter | 1.00 | 23.25 | 13.42 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | 13.42 | 0.03 | 4.02 | <0.01 | 30.15 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-4101, E-4102 | Gas/Gas Exchanger | 1.00 | 23.25 | 1.70 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.79 | <0.01 | 0.51 | <0.01 | 3.82 | <0.01 | 0.59 | <0.01 | 2.36 | <0.01 | 1.09 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.33 | <0.01 | 0.05 | <0.01 |
| E-3301, E-3302 | Amine Lean/Rich Exchanger | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-3401, E-3404 | Amine Reboiler | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-5301 | TEG Reboiler | 1.00 | 100.00 | 0.04 | <0.01 | -- | -- | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-5204 | TEG/TEG Exchanger | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-201/E-206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | 1.00 | 23.25 | 2.89 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.15 | <0.01 | 0.87 | <0.01 | 6.50 | 0.01 | 0.68 | <0.01 | 2.72 | <0.01 | 1.26 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.38 | <0.01 | 0.06 | <0.01 |
| E-202 | Gas/Product Exchanger | 1.00 | 71.97 | 5.63 | 0.01 | -- | -- | -- | -- | 6.99 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.12 | <0.01 | 0.49 | <0.01 | 1.36 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| E-204/205 | Demethanizer Side Heater and Demethanizer Reboiler | 1.00 | 23.25 | 0.50 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.72 | <0.01 | 0.15 | <0.01 | 1.13 | <0.01 | 0.12 | <0.01 | 0.47 | <0.01 | 0.22 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 |
| E-207 | Demethanizer Trim Reboiler | 1.00 | 71.97 | 1.71 | <0.01 | -- | -- | -- | -- | 2.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.14 | <0.01 | 0.39 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| E-203 | Chiller | 1.00 | 100.00 | 129.18 | 0.26 | -- | -- | -- | -- | 132.55 | 0.27 | -- | -- | -- | -- | 0.50 | <0.01 | 2.00 | <0.01 | 3.37 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TO-45500 | Thermal Oxidizer | 1.00 | 0.10 | 0.15 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.15 | <0.01 | 138.98 | 0.28 | 0.14 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.39 | <0.01 | <0.01 | <0.01 |
| H-3901, H-4001 | Hot Oil Heater | 1.00 | 100.00 | 0.05 | <0.01 | -- | -- | -- | -- | 0.05 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-741 | Regen Gas Heater | 1.00 | 23.25 | 0.23 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.38 | <0.01 | 0.07 | <0.01 | 0.52 | <0.01 | 0.08 | <0.01 | 0.32 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 |
| H-781 | HMO Heater | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-41100 | Liquid Inline Heater | 1.00 | 95.47 | 0.08 | <0.01 | -- | -- | <0.01 | <0.01 | 0.09 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| H-41505 | Fuel Gas Inline Heater | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 |
| P-45050 | Flare KO Pump | 1.00 | 95.47 | 0.03 | <0.01 | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-47015 | Residue Compressor Lube Oil Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-45515 | CO2 Vent Scrubber Pump | 1.00 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-47035 | Glycol Storage Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3802, P-3803, P-3804 | Hot Oil Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3303, P-3304 | Amine Booster Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3605 | Defoaming Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-47021 | Amine Make Up Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3702, P-3703, P-3704 | Amine Main Solution Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3603, P-3604 | Reflux Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46305 | Amine Process Drain Tank Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46355 | Amine Area Sump Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5601, P-5602 | TEG Main Solution Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46405 | Glycol Process Drain Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46455 | Glycol Area Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46505 | Amine HMO Area Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46555 | CO2 Vent Stack Area Sump Pump | 1.00 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46605 | Residue Compressor Area Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46755 | Cryo HMO Skid Drain Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46705 | Cryo / Refrig Area Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5402, P-5403 | TEG Booster Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5504 | TEG Diaphragm Condensate Drum Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-600, P-601, P-602 | Product Charge Pump | 1.00 | 71.97 | 0.49 | <0.01 | -- | -- | -- | -- | 0.60 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.11 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| P-41600, P-41650, P-41700 | NGL Pipeline Pump | 1.00 | 71.97 | 0.37 | <0.01 | -- | -- | -- | -- | 0.45 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.08 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| P-609 | Methanol Injection Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-654 | Expander Lube Oil Makeup Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-781A, P-781B | HMO Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-606, P-607 | Demethanizer Reflux Pump | 1.00 | 71.97 | 0.12 | <0.01 | -- | -- | -- | -- | 0.15 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| P-47760 | Methanol Injection Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46200, TK-46210, TK-46220, TK-46230 | Slop Tank | 1.00 | 100.00 | 0.79 | <0.01 | -- | -- | -- | -- | 0.79 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-47010 | Residue Compressor Lube Oil Storage Tank | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-47020 | Amine Storage Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HE-47025 | Amine Tank Immersion Heater | 1.00 | 5.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-47030 | TEG Storage Tank | 1.00 | 100.00 | 0.06 | <0.01 | -- | -- | -- | -- | 0.06 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 4 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | hours |
| TK-46300 | Amine Process Drain Tank | Amine | 623.76 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.38 | 0.38 | - | 105.14 | -- | 4.00 |
| TK-46400 | Glycol Process Drain Sump | Glycol | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 150.17 | -- | 4.00 |
| TK-46350 | Amine Area Sump | Amine | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 105.14 | -- | 4.00 |
| TK-46450 | Glycol Area Sump | Glycol | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 150.17 | -- | 4.00 |
| TK-46500 | Amine HMO Area Sump | Hot Oil | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 200.00 | -- | 4.00 |
| TK-46550 | CO2 Vent Stack Area Sump | Low C Acid Gas | 124.41 | 13 | 125.00 | - | N | N/A | N/A | -- | 97.14 | 97.14 | - | 42.33 | -- | 4.00 |
| TK-46600 | Residue Compressor Area Sump | Lube Oil | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 200.00 | -- | 4.00 |
| TK-46750 | Cryo HMO Skid Drain Sump | Lube Oil | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 200.00 | -- | 4.00 |
| TK-46700 | Cryo / Refrig Area Sump | Lube Oil | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 200.00 | -- | 4.00 |
| TK-47700 | Methanol Storage Tank | Methanol | 221.17 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 54.23 | 54.23 | - | 32.04 | -- | 4.00 |
| T-4201, T-4202 | Amine Contactor | Inlet Gas | 4015.15 | 1058 | 200.00 | - | Y | Flare | RH4-FL-45100 | 98 | 227,694.46 | 7,083.23 | 227,694.46 | 22.73 | 1097.43 | 4.00 |
| T-3402/T-3403 | Amine Still/Reflux Accumulator | Low C Acid Gas | 7317.55 | 38 | 250.00 | - | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | 13,822.67 | 11,999.58 | 13,822.67 | 42.33 | 5.70 | 4.00 |
| T-5701 | TEG Contactor | Inlet Gas | 1088.56 | 1058 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 66,793.70 | 2,077.85 | 66,793.70 | 22.73 | 1097.43 | 4.00 |
| T-5302 | TEG Still | Glycol | 55.29 | 18 | 400.00 | 0.01 | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | 0.02 | 0.02 | 0.02 | 150.17 | 1020.00 | 4.00 |
| T-501 | Demethanizer | Residue Gas | 4142.87 | 373 | 60.00 | - | Y | Flare | RH4-FL-45100 | 98 | 105,125.04 | 9,277.48 | 105,125.04 | 17.87 | 1126.07 | 4.00 |
| T-502 | Demethanizer Side Tower | Residue Gas | 3149.05 | 373 | 60.00 | - | Y | Flare | RH4-FL-45100 | 98 | 79,907.03 | 7,051.94 | 79,907.03 | 17.87 | 1126.07 | 4.00 |
| V-41000 | Slug Catcher | Inlet Gas | 18528.13 | 1058 | 130.00 | - | Y | Flare | RH4-FL-45100 | 98 | 1,175,437.83 | 36,566.12 | 1,175,437.83 | 22.73 | 1097.43 | 4.00 |
| V-41050 | Inlet Gas Scrubber | Inlet Gas | 174.95 | 1058 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 10,734.70 | 333.94 | 10,734.70 | 22.73 | 1097.43 | 4.00 |
| V-45000 | Flare KO Drum | Inlet Gas | 933.05 | 13 | 125.00 | - | Y | Flare | RH4-FL-45100 | 98 | 728.53 | 728.53 | 728.53 | 22.73 | 1097.43 | 4.00 |
| V-45510 | CO2 Vent Scrubber | Low C Acid Gas | 365.01 | 18 | 125.00 | - | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | 395.39 | 395.39 | 395.39 | 42.33 | 5.70 | 4.00 |
| V-45520 | CO2 Vent Stack | Low C Acid Gas | 207.35 | 13 | 125.00 | - | N | N/A | N/A | -- | 161.90 | 161.90 | - | 42.33 | -- | 4.00 |
| V-3801 | Hot Oil Expansion Tank | Hot Oil | 2591.81 | 53 | 500.00 | 0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.96 | 0.96 | 0.96 | 200.00 | 1020.00 | 4.00 |
| V-4203 | Amine Scrubber | Inlet Gas | 730.03 | 1058 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 44,794.19 | 1,393.48 | 44,794.19 | 22.73 | 1097.43 | 4.00 |
| V-3101 | Amine Flash Tank | Amine | 2591.81 | 148 | 200.00 | 0.01 | Y | Flare | RH4-FL-45100 | 98 | 1.39 | 1.39 | 1.39 | 105.14 | 1020.00 | 4.00 |
| V-3701 | Amine Surge Tank | Amine | 2591.81 | 63 | 125.00 | 0.01 | Y | Flare | RH4-FL-45100 | 98 | 1.57 | 1.57 | 1.57 | 105.14 | 1020.00 | 4.00 |
| T-5702 | TEG Scrubber | Inlet Gas | 261.34 | 1058 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 16,035.79 | 498.85 | 16,035.79 | 22.73 | 1097.43 | 4.00 |
| V-5101 | TEG Flash Tank | Glycol | 215.98 | 148 | 150.00 | 0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.13 | 0.13 | 0.13 | 150.17 | 1020.00 | 4.00 |
| V-5503 | TEG Vent Condensate Drum | Glycol | 77.75 | 18 | 125.00 | 0.01 | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | 0.05 | 0.05 | 0.05 | 150.17 | 1020.00 | 4.00 |
| V-442, V-443, V-444 | Mol Sieve Dehydrator | Inlet Gas | 1904.98 | 1058 | 140.00 | - | Y | Flare | RH4-FL-45100 | 98 | 118,838.20 | 3,696.88 | 118,838.20 | 22.73 | 1097.43 | 4.00 |
| V-447 | Regen Gas Scrubber | Inlet Gas | 9.72 | 1058 | 125.00 | - | Y | Flare | RH4-FL-45100 | 98 | 621.87 | 19.35 | 621.87 | 22.73 | 1097.43 | 4.00 |
| V-402 | Cold Separator | Inlet Gas | 1119.66 | 1113 | 60.00 | - | Y | Flare | RH4-FL-45100 | 98 | 84,790.75 | 2,507.36 | 84,790.75 | 22.73 | 1097.43 | 4.00 |
| V-404 | Product Surge Tank | Y-Grade | 9589.37 | 413 | 125.00 | 397.30 | Y | Flare | RH4-FL-45100 | 98 | 230,423.26 | 19,086.91 | 230,423.26 | 40.97 | 1020.00 | 4.00 |
| V-481 | Fuel Gas Scrubber | Residue Gas | 20.73 | 153 | 125.00 | - | N | N/A | N/A | -- | 191.76 | 191.76 | - | 17.87 | -- | 4.00 |
| V-403 | Cold Drain Tank | Y-Grade | 524.84 | 13 | 125.00 | 397.30 | Y | Flare | RH4-FL-45100 | 98 | 409.80 | 409.80 | 409.80 | 40.97 | 1020.00 | 4.00 |
| V-43100 | Amine Fuel Gas Scrubber | Inlet Gas | 77.75 | 148 | 125.00 | - | N | N/A | N/A | -- | 695.57 | 695.57 | - | 22.73 | -- | 4.00 |
| V-463 | Refrigerant Accumulator | Propane | 647.95 | 328 | 225.00 | 174.83 | Y | Flare | RH4-FL-45100 | 98 | 5,850.71 | 1,101.33 | 5,850.71 | 44.10 | 2516.00 | 4.00 |
| V-462 | Refrigerant Economizer | Propane | 373.22 | 133 | 100.00 | 174.83 | Y | Flare | RH4-FL-45100 | 98 | 3,134.15 | 776.05 | 3,134.15 | 44.10 | 2516.00 | 4.00 |
| V-461 | Refrigerant Suction Scrubber | Propane | 311.02 | 43 | 8.00 | 174.83 | Y | Flare | RH4-FL-45100 | 98 | 1,009.10 | 773.93 | 1,009.10 | 44.10 | 2516.00 | 4.00 |
| V-464 | Refrigerant Reclaimer | Propane | 1.73 | 43 | 125.00 | 174.83 | Y | Flare | RH4-FL-45100 | 98 | 4.50 | 3.45 | 4.50 | 44.10 | 2516.00 | 4.00 |

*Activity durations are conservative estimates.

**Train 5**

| Train 5 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | hours |
| AC-53601, AC-53602 | Reflux Condenser | Low C Acid Gas | 237.16 | 38 | 187.50 | - | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | 491.25 | 426.46 | 491.25 | 42.33 | 5.70 | 4.00 |
| AC-53501, AC-53502, AC-53503 | Amine Cooler | Amine | 635.59 | 103 | 162.50 | 0.01 | N | N/A | N/A | -- | 0.36 | 0.36 | - | 105.14 | -- | 4.00 |
| AC-55501 | TEG Cooler | Glycol | 8.71 | 43 | 182.50 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| AC-55502 | BTEX Condenser | Glycol | 3.47 | 18 | 175.00 | 0.01 | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | <0.01 | <0.01 | <0.01 | 150.17 | 1020.00 | 4.00 |
| AC-51800, AC-51801, AC-51802 | Residue Gas After Cooler | Residue Gas | 223.08 | 1410 | 185.00 | - | Y | Flare | RH5-FL-55100 | 98 | 17,252.14 | 402.70 | 17,252.14 | 17.87 | 1126.07 | 4.00 |
| A-50341 | Regen Gas Cooler | Inlet Gas | 19.47 | 1058 | 312.50 | - | Y | Flare | RH5-FL-55100 | 98 | 943.26 | 29.34 | 943.26 | 22.73 | 1097.43 | 4.00 |
| A-50301 | Expander Compressor Aftercooler | Residue Gas | 56.19 | 373 | 147.50 | - | Y | Flare | RH5-FL-55100 | 98 | 1,220.30 | 107.69 | 1,220.30 | 17.87 | 1126.07 | 4.00 |
| A-50361A, A-50361B, A-50361C, A-50361D | Refrigerant Condenser | Propane | 250.84 | 328 | 175.00 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 2,443.44 | 459.95 | 2,443.44 | 44.10 | 2516.00 | 4.00 |
| A-50161, A-50162, A-50163 | Refrigerant Compressor Lube Oil Cooler | Lube Oil | 62.70 | 328 | 175.00 | 0.01 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 200.00 | -- | 4.00 |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | 263 | 300.00 | - | N | N/A | N/A | -- | 1,712.34 | 1,712.34 | - | 17.87 | -- | 4.00 |
| C-50161, C-50162, C-50163 | Refrigerant Compressor | Propane | 973.73 | 185 | 116.50 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 10,448.06 | 1,966.74 | 10,448.06 | 44.10 | 2516.00 | 4.00 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1011.48 | 263 | 300.00 | - | N | N/A | N/A | -- | 12,378.53 | 12,378.53 | - | 17.87 | -- | 4.00 |
| EC-50101 | Expander/Compressor | Inlet Gas | 122.34 | 715 | 22.50 | - | N | N/A | N/A | -- | 6,419.00 | 6,419.00 | - | 22.73 | -- | 4.00 |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 4 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| TK-46300 | Amine Process Drain Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46400 | Glycol Process Drain Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46350 | Amine Area Sump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46450 | Glycol Area Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46500 | Amine HMO Area Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46550 | CO2 Vent Stack Area Sump | 1.00 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.63 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46600 | Residue Compressor Area Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46750 | Cryo HMO Skid Drain Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46700 | Cryo / Refrig Area Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-47700 | Methanol Storage Tank | 1.00 | 100.00 | 1.15 | <0.01 | -- | -- | <0.01 | <0.01 | 1.15 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-4201, T-4202 | Amine Contactor | 1.00 | 23.25 | 24.70 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | 40.58 | 0.08 | 7.40 | 0.01 | 55.49 | 0.11 | 8.62 | 0.02 | 34.33 | 0.07 | 15.88 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 4.76 | <0.01 | 0.71 | <0.01 |
| T-3402/T-3403 | Amine Still/Reflux Accumulator | 1.00 | 0.10 | 0.35 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 0.35 | <0.01 | 325.30 | 0.65 | 0.33 | <0.01 | 0.02 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.75 | <0.01 | <0.01 | <0.01 |
| T-5701 | TEG Contactor | 1.00 | 23.25 | 7.25 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 11.90 | 0.02 | 2.17 | <0.01 | 16.28 | 0.03 | 2.53 | <0.01 | 10.07 | 0.02 | 4.66 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 1.39 | <0.01 | 0.21 | <0.01 |
| T-5302 | TEG Still | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-501 | Demethanizer | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 84.81 | 0.17 | 19.02 | 0.04 | 4.08 | <0.01 | 16.27 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 19.22 | <0.01 | 0.09 | <0.01 |
| T-502 | Demethanizer Side Tower | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 64.46 | 0.13 | 14.46 | 0.03 | 3.10 | <0.01 | 12.36 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 14.61 | <0.01 | 0.07 | <0.01 |
| V-41000 | Slug Catcher | 1.00 | 23.25 | 127.52 | 0.26 | <0.01 | <0.01 | <0.01 | <0.01 | 209.50 | 0.42 | 38.18 | 0.08 | 286.47 | 0.57 | 44.50 | 0.09 | 177.24 | 0.35 | 81.98 | 0.16 | <0.01 | <0.01 | <0.01 | <0.01 | 0.41 | <0.01 | 24.55 | 0.26 | 3.68 | <0.01 |
| V-41050 | Inlet Gas Scrubber | 1.00 | 23.25 | 1.16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.91 | <0.01 | 0.35 | <0.01 | 2.62 | <0.01 | 0.41 | <0.01 | 1.62 | <0.01 | 0.75 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.22 | <0.01 | 0.03 | <0.01 |
| V-45000 | Flare KO Drum | 1.00 | 23.25 | 2.54 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.59 | <0.01 | 0.76 | <0.01 | 5.71 | 0.01 | 0.03 | <0.01 | 0.11 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| V-45510 | CO2 Vent Scrubber | 1.00 | 0.10 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 10.72 | 0.02 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 |
| V-45520 | CO2 Vent Stack | 1.00 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.39 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-3801 | Hot Oil Expansion Tank | 1.00 | 100.00 | 0.13 | <0.01 | -- | -- | -- | -- | 0.13 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-4203 | Amine Scrubber | 1.00 | 23.25 | 4.86 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 7.98 | 0.02 | 1.46 | <0.01 | 10.92 | 0.02 | 1.70 | <0.01 | 6.75 | 0.01 | 3.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 0.94 | <0.01 | 0.14 | <0.01 |
| V-3101 | Amine Flash Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-3701 | Amine Surge Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-5702 | TEG Scrubber | 1.00 | 23.25 | 1.74 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.86 | <0.01 | 0.52 | <0.01 | 3.91 | <0.01 | 0.61 | <0.01 | 2.42 | <0.01 | 1.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.33 | <0.01 | 0.05 | <0.01 |
| V-5101 | TEG Flash Tank | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-5503 | TEG Vent Condensate Drum | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-442, V-443, V-444 | Mol Sieve Dehydrator | 1.00 | 23.25 | 12.89 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | 21.18 | 0.04 | 3.86 | <0.01 | 28.96 | 0.06 | 4.50 | <0.01 | 17.92 | 0.04 | 8.29 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 2.48 | <0.01 | 0.37 | <0.01 |
| V-447 | Regen Gas Scrubber | 1.00 | 23.25 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | 0.02 | <0.01 | 0.15 | <0.01 | 0.02 | <0.01 | 0.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| V-402 | Cold Separator | 1.00 | 23.25 | 8.74 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 14.66 | 0.03 | 2.62 | <0.01 | 19.64 | 0.04 | 3.21 | <0.01 | 12.79 | 0.03 | 5.91 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 1.77 | <0.01 | 0.27 | <0.01 |
| V-404 | Product Surge Tank | 1.00 | 71.97 | 371.20 | 0.74 | -- | -- | -- | -- | 460.83 | 0.92 | 0.47 | <0.01 | 0.45 | <0.01 | 8.11 | 0.02 | 32.29 | 0.06 | 89.62 | 0.18 | -- | -- | -- | -- | -- | -- | 0.11 | <0.01 | <0.01 | -- |
| V-481 | Fuel Gas Scrubber | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.75 | <0.01 | 0.39 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-403 | Cold Drain Tank | 1.00 | 71.97 | 7.97 | 0.02 | -- | -- | -- | -- | 8.13 | 0.02 | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 0.06 | <0.01 | 0.16 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| V-43100 | Amine Fuel Gas Scrubber | 1.00 | 23.25 | 2.43 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.43 | <0.01 | 0.73 | <0.01 | 5.45 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-463 | Refrigerant Accumulator | 1.00 | 100.00 | 32.04 | 0.06 | -- | -- | -- | -- | 35.44 | 0.07 | -- | -- | -- | -- | 0.51 | <0.01 | 2.02 | <0.01 | 3.40 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-462 | Refrigerant Economizer | 1.00 | 100.00 | 22.57 | 0.05 | -- | -- | -- | -- | 24.40 | 0.05 | -- | -- | -- | -- | 0.27 | <0.01 | 1.08 | <0.01 | 1.82 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-461 | Refrigerant Suction Scrubber | 1.00 | 100.00 | 22.51 | 0.05 | -- | -- | -- | -- | 23.10 | 0.05 | -- | -- | -- | -- | 0.09 | <0.01 | 0.35 | <0.01 | 0.59 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-464 | Refrigerant Reclaimer | 1.00 | 100.00 | 0.10 | <0.01 | -- | -- | -- | -- | 0.10 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | **Train 4 Vented SSM** | | | **914.80** | **1.83** | **0.04** | **<0.01** | **<0.01** | **<0.01** | **1148.24** | **2.30** | **868.81** | **1.74** | **621.52** | **1.24** | | | | | | | | | | | | | | | | | | |
| | **RH4-FL-45100** | | | | | | | | | | | | | | | **85.88** | **0.17** | **342.01** | **0.68** | **233.44** | **0.47** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.62** | **<0.01** | **71.63** | **0.26** | **5.77** | **<0.01** |
| | **RH4-TO-45500** | | | | | | | | | | | | | | | **0.03** | **<0.01** | **0.02** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **5.38** | **<0.01** | **<0.01** | **<0.01** |

*Activity durations are conservative estimates.

**Train 5**

| | | | | Vented Emissions | | | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Train 5 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-53601, AC-53602 | Reflux Condenser | 1.00 | 0.10 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 11.56 | 0.02 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 |
| AC-53501, AC-53502, AC-53503 | Amine Cooler | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-55501 | TEG Cooler | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-55502 | BTEX Condenser | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-51800, AC-51801, AC-51802 | Residue Gas After Cooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.68 | <0.01 | 0.83 | <0.01 | 0.67 | <0.01 | 2.67 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.15 | <0.01 | 0.01 | <0.01 |
| A-50341 | Regen Gas Cooler | 1.00 | 23.25 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.17 | <0.01 | 0.03 | <0.01 | 0.23 | <0.01 | 0.04 | <0.01 | 0.14 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| A-50301 | Expander Compressor Aftercooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.98 | <0.01 | 0.22 | <0.01 | 0.05 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.22 | <0.01 | <0.01 | <0.01 |
| A-50361A, A-50361B, A-50361C, A-50361D | Refrigerant Condenser | 1.00 | 100.00 | 13.38 | 0.03 | -- | -- | -- | -- | 14.80 | 0.03 | -- | -- | -- | -- | 0.21 | <0.01 | 0.84 | <0.01 | 1.42 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-50161, A-50162, A-50163 | Refrigerant Compressor Lube Oil Cooler | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 15.65 | 0.03 | 3.51 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-50161, C-50162, C-50163 | Refrigerant Compressor | 1.00 | 100.00 | 57.21 | 0.11 | -- | -- | -- | -- | 63.29 | 0.13 | -- | -- | -- | -- | 0.91 | <0.01 | 3.61 | <0.01 | 6.08 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 113.16 | 0.23 | 25.37 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EC-50101 | Expander/Compressor | 1.00 | 23.25 | 22.38 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | 22.38 | 0.04 | 6.70 | 0.01 | 50.29 | 0.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 5 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | hours |
| C-50141 | Regen Gas Compressor | Inlet Gas | 2.54 | 1058 | 140.00 | - | N | N/A | N/A | -- | 158.42 | 158.42 | - | 22.73 | -- | 4.00 |
| F-51530 | Seal Gas Filter | Residue Gas | 0.16 | 1410 | 165.00 | - | N | N/A | N/A | -- | 12.71 | 12.71 | - | 17.87 | -- | 4.00 |
| F-50441 | Inlet Filter Coalescer | Inlet Gas | 134.77 | 313 | 150.00 | - | N | N/A | N/A | -- | 2,446.02 | 2,446.02 | - | 22.73 | -- | 4.00 |
| F-50408 | Residue Gas Filter/Coalescer | Residue Gas | 16.85 | 313 | 150.00 | - | N | N/A | N/A | -- | 305.75 | 305.75 | - | 17.87 | -- | 4.00 |
| F-53200 | Pre-Carbon Solids Filter | Amine | 31.68 | 148 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.02 | 0.02 | - | 105.14 | -- | 4.00 |
| F-53201, F-53202 | Amine Carbon Filter | Amine | 1727.88 | 148 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.93 | 0.93 | - | 105.14 | -- | 4.00 |
| F-53203, F-53204 | Amine Rich Solids Filter | Amine | 63.36 | 148 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 105.14 | -- | 4.00 |
| F-53304 | Amine Lean Solids Filter | Amine | 55.16 | 103 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 105.14 | -- | 4.00 |
| F-53805 | HMO Filter | Hot Oil | 40.37 | 103 | 500.00 | 0.01 | N | N/A | N/A | -- | 0.01 | 0.01 | - | 200.00 | -- | 4.00 |
| F-55201 | TEG Pre-Carbon Filter | Glycol | 1.75 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F-55202 | TEG Carbon Filter | Glycol | 105.83 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | 0.06 | 0.06 | - | 150.17 | -- | 4.00 |
| F-55203 | TEG Rich Soilds Filter | Glycol | 1.75 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F-55401 | TEG Lean Soilds Filter | Glycol | 1.75 | 43 | 240.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F-51225 | Inlet Filter Coalescer | Inlet Gas | 148.17 | 313 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 2,689.06 | 282.82 | 2,689.06 | 22.73 | 1097.43 | 4.00 |
| F-51275 | Glycol Inlet Filter Coalescer | Inlet Gas | 148.17 | 313 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 2,689.06 | 282.82 | 2,689.06 | 22.73 | 1097.43 | 4.00 |
| F-50445, F-50446 | Mol Sieve Dust Filter | Inlet Gas | 62.72 | 1058 | 150.00 | - | N | N/A | N/A | -- | 3,848.20 | 3,848.20 | - | 22.73 | -- | 4.00 |
| E-54101 | Gas/Gas Exchanger | Inlet Gas | 117.68 | 1058 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 7,220.73 | 224.63 | 7,220.73 | 22.73 | 1097.43 | 4.00 |
| E-53301 | Amine Lean/Rich Exchanger | Amine | 531.18 | 93 | 237.50 | 0.01 | N | N/A | N/A | -- | 0.27 | 0.27 | - | 105.14 | -- | 4.00 |
| E-53401 | Amine Reboiler | Amine | 1469.95 | 38 | 275.00 | 0.01 | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | 0.71 | 0.71 | 0.71 | 105.14 | 1020.00 | 4.00 |
| E-55301 | TEG Reboiler | Glycol | 584.36 | 18 | 400.00 | 0.01 | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | 0.24 | 0.24 | 0.24 | 150.17 | 1020.00 | 4.00 |
| E-55204 | TEG Lean/Rich Exchanger | Glycol | 29.38 | 83 | 275.00 | 0.01 | N | N/A | N/A | -- | 0.01 | 0.01 | - | 150.17 | -- | 4.00 |
| E-51100 | Prestabilizer Exchanger | Inlet Gas | 290.86 | 1058 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 17,847.18 | 555.20 | 17,847.18 | 22.73 | 1097.43 | 4.00 |
| E-50201/E-50206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | Inlet Gas | 315.27 | 715 | -17.50 | - | Y | Flare | RH5-FL-55100 | 98 | 18,037.65 | 829.76 | 18,037.65 | 22.73 | 1097.43 | 4.00 |
| E-50202 | Gas/Product Exchanger | Y-Grade | 149.11 | 1383 | 140.00 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 3,493.28 | 289.36 | 3,493.28 | 40.97 | 1020.00 | 4.00 |
| E-50204/50205 | Demethanizer Side Heater and Demethanizer Reboiler | Inlet Gas | 79.75 | 715 | 45.00 | - | Y | Flare | RH5-FL-55100 | 98 | 3,997.83 | 183.91 | 3,997.83 | 22.73 | 1097.43 | 4.00 |
| E-50207 | Demethanizer Trim Reboiler | Y-Grade | 46.03 | 373 | 150.00 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 995.50 | 87.86 | 995.50 | 40.97 | 1020.00 | 4.00 |
| E-50203 | Chiller | Propane | 1784.74 | 43 | 8.00 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 5,790.60 | 4,441.12 | 5,790.60 | 44.10 | 2516.00 | 4.00 |
| TO-55500 | Thermal Oxidizer | Low C Acid Gas | 6393.14 | 13 | 125.00 | - | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | 4,991.81 | 4,991.81 | 4,991.81 | 42.33 | 5.70 | 4.00 |
| H-50902, H-50001 | Hot Oil Heater | Hot Oil | 1109.92 | 53 | 500.00 | 0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.41 | 0.41 | 0.41 | 200.00 | 1020.00 | 4.00 |
| H-50741 | Regen Gas Heater | Inlet Gas | 55.24 | 1058 | 500.00 | - | Y | Flare | RH5-FL-55100 | 98 | 2,153.36 | 66.99 | 2,153.36 | 22.73 | 1097.43 | 4.00 |
| H-50781 | HMO Heater | Hot Oil | 244.17 | 53 | 500.00 | 0.01 | Y | Flare | RH5-FL-55100 | 98 | 0.09 | 0.09 | 0.09 | 200.00 | 1020.00 | 4.00 |
| P-55050 | Flare KO Pump | Condensate | 1.28 | 13 | 125.00 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | -- | 4.00 |
| P-57015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-55515 | CO2 Vent Scrubber Pump | Low C Acid Gas | 1.28 | 18 | 125.00 | - | N | N/A | N/A | -- | 1.39 | 1.39 | - | 42.33 | -- | 4.00 |
| P-57035 | Glycol Storage Pump | Glycol | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-53802, P-53803, P-53804 | HMO Pump | Hot Oil | 17.88 | 53 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-53302, P-53303 | Amine Booster Pump | Amine | 6.66 | 38 | 200.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-53605, P-53705 | Defoaming Pump | Amine | 2.56 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-57021 | Amine Make Up Pump | Amine | 0.72 | 43 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-53702, P-53703, P-53704 | Amine Main Solution Pump | Amine | 8.90 | 63 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-53603, P-53604 | Reflux Pump | Amine | 1.08 | 38 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-56305 | Amine Process Drain Tank Pump | Amine | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-56355 | Amine Area Sump Pump | Amine | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-55601, P-55602 | TEG Circulation Pumps | Glycol | 2.61 | 43 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-56405 | Glycol Process Drain Sump Pump | Glycol | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-56455 | Glycol Area Sump Pump | Glycol | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-56505 | Amine HMO Area Sump Pump | Hot Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-56555 | CO2 Vent Stack Area Sump Pump | Low C Acid Gas | 1.28 | 13 | 125.00 | - | N | N/A | N/A | -- | 1.00 | 1.00 | - | 42.33 | -- | 4.00 |
| P-56605 | Residue Compressor Area Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-56755 | Cryo HMO Skid Drain Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-56705 | Cryo / Refrig Area Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-55402, P-55403 | TEG Booster Pump | Glycol | 1.32 | 18 | 240.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-55504 | BTEX Pump | Glycol | 1.28 | 18 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-50600, P-50601, P-50602 | Product Charge Pump | Y-Grade | 13.11 | 373 | 150.00 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 283.52 | 25.02 | 283.52 | 40.97 | 1020.00 | 4.00 |
| P-51600, P-51650, P-51700 | NGL Pipeline Pump | Y-Grade | 9.85 | 373 | 150.00 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 213.02 | 18.80 | 213.02 | 40.97 | 1020.00 | 4.00 |
| P-50609 | Methanol Injection Pump | Methanol | 0.11 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 32.04 | -- | 4.00 |
| P-50654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-50781A, P-50781B | HMO Pump | Hot Oil | 2.00 | 53 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| TK-57010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.34 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 200.00 | -- | 4.00 |
| TK-57020 | Amine Storage Tank | Amine | 4981.47 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 3.01 | 3.01 | - | 105.14 | -- | 4.00 |
| HE-57025 | Amine Tank Immersion Heater | Amine | 0.00 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | - | - | - | 105.14 | -- | 4.00 |
| TK-57030 | Glycol Storage Tank | Glycol | 1866.11 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 1.13 | 1.13 | - | 150.17 | -- | 4.00 |
| TK-56300 | Amine Process Drain Tank | Amine | 623.76 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.38 | 0.38 | - | 105.14 | -- | 4.00 |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 5 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| C-50141 | Regen Gas Compressor | 1.00 | 23.25 | 0.55 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.55 | <0.01 | 0.17 | <0.01 | 1.24 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-51530 | Seal Gas Filter | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.12 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-50441 | Inlet Filter Coalescer | 1.00 | 23.25 | 8.53 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 8.53 | 0.02 | 2.55 | <0.01 | 19.16 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-50408 | Residue Gas Filter/Coalescer | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.80 | <0.01 | 0.63 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53200 | Pre-Carbon Solids Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53201, F-53202 | Amine Carbon Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53203, F-53204 | Amine Rich Solids Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53304 | Amine Lean Solids Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53805 | HMO Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55201 | TEG Pre-Carbon Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55202 | TEG Carbon Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55203 | TEG Rich Soilds Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55401 | TEG Lean Soilds Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-51225 | Inlet Filter Coalescer | 1.00 | 23.25 | 0.99 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.17 | <0.01 | 0.30 | <0.01 | 2.22 | <0.01 | 0.10 | <0.01 | 0.41 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 |
| F-51275 | Glycol Inlet Filter Coalescer | 1.00 | 23.25 | 0.99 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.17 | <0.01 | 0.30 | <0.01 | 2.22 | <0.01 | 0.10 | <0.01 | 0.41 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 |
| F-50445, F-50446 | Mol Sieve Dust Filter | 1.00 | 23.25 | 13.42 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | 13.42 | 0.03 | 4.02 | <0.01 | 30.15 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-54101 | Gas/Gas Exchanger | 1.00 | 23.25 | 0.78 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.29 | <0.01 | 0.23 | <0.01 | 1.76 | <0.01 | 0.27 | <0.01 | 1.09 | <0.01 | 0.50 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.15 | <0.01 | 0.02 | <0.01 |
| E-53301 | Amine Lean/Rich Exchanger | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-53401 | Amine Reboiler | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-55301 | TEG Reboiler | 1.00 | 100.00 | 0.02 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-55204 | TEG Lean/Rich Exchanger | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-51100 | Prestabilizer Exchanger | 1.00 | 23.25 | 1.94 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.18 | <0.01 | 0.58 | <0.01 | 4.35 | <0.01 | 0.68 | <0.01 | 2.69 | <0.01 | 1.24 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.37 | <0.01 | 0.06 | <0.01 |
| E-50201/E-50206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | 1.00 | 23.25 | 2.89 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.15 | <0.01 | 0.87 | <0.01 | 6.50 | 0.01 | 0.68 | <0.01 | 2.72 | <0.01 | 1.26 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.38 | <0.01 | 0.06 | <0.01 |
| E-50202 | Gas/Product Exchanger | 1.00 | 71.97 | 5.63 | 0.01 | -- | -- | -- | -- | 6.99 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.12 | <0.01 | 0.49 | <0.01 | 1.36 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| E-50204/50205 | Demethanizer Side Heater and Demethanizer Reboiler | 1.00 | 23.25 | 0.64 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.92 | <0.01 | 0.19 | <0.01 | 1.44 | <0.01 | 0.15 | <0.01 | 0.60 | <0.01 | 0.28 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 0.01 | <0.01 |
| E-50207 | Demethanizer Trim Reboiler | 1.00 | 71.97 | 1.71 | <0.01 | -- | -- | -- | -- | 2.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.14 | <0.01 | 0.39 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| E-50203 | Chiller | 1.00 | 100.00 | 129.18 | 0.26 | -- | -- | -- | -- | 132.55 | 0.27 | -- | -- | -- | -- | 0.50 | <0.01 | 2.00 | <0.01 | 3.37 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TO-55500 | Thermal Oxidizer | 1.00 | 0.10 | 0.14 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.15 | <0.01 | 135.32 | 0.27 | 0.14 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.35 | <0.01 | <0.01 | <0.01 |
| H-50902, H-50001 | Hot Oil Heater | 1.00 | 100.00 | 0.05 | <0.01 | -- | -- | -- | -- | 0.06 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-50741 | Regen Gas Heater | 1.00 | 23.25 | 0.23 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.38 | <0.01 | 0.07 | <0.01 | 0.52 | <0.01 | 0.08 | <0.01 | 0.32 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 |
| H-50781 | HMO Heater | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-55050 | Flare KO Pump | 1.00 | 95.47 | 0.03 | <0.01 | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-57015 | Residue Compressor Lube Oil Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-55515 | CO2 Vent Scrubber Pump | 1.00 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-57035 | Glycol Storage Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-53802, P-53803, P-53804 | HMO Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-53302, P-53303 | Amine Booster Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-53605, P-53705 | Defoaming Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-57021 | Amine Make Up Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-53702, P-53703, P-53704 | Amine Main Solution Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-53603, P-53604 | Reflux Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56305 | Amine Process Drain Tank Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56355 | Amine Area Sump Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-55601, P-55602 | TEG Circulation Pumps | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56405 | Glycol Process Drain Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56455 | Glycol Area Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56505 | Amine HMO Area Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56555 | CO2 Vent Stack Area Sump Pump | 1.00 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56605 | Residue Compressor Area Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56755 | Cryo HMO Skid Drain Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56705 | Cryo / Refrig Area Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-55402, P-55403 | TEG Booster Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-55504 | BTEX Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-50600, P-50601, P-50602 | Product Charge Pump | 1.00 | 71.97 | 0.49 | <0.01 | -- | -- | -- | -- | 0.60 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.11 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| P-51600, P-51650, P-51700 | NGL Pipeline Pump | 1.00 | 71.97 | 0.37 | <0.01 | -- | -- | -- | -- | 0.45 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.08 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| P-50609 | Methanol Injection Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-50654 | Expander Lube Oil Makeup Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-50781A, P-50781B | HMO Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-57010 | Residue Compressor Lube Oil Storage Tank | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-57020 | Amine Storage Tank | 1.00 | 5.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HE-57025 | Amine Tank Immersion Heater | 1.00 | 5.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-57030 | Glycol Storage Tank | 1.00 | 100.00 | 0.11 | <0.01 | -- | -- | -- | -- | 0.11 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56300 | Amine Process Drain Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 5 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | hours |
| TK-56400 | Glycol Process Drain Sump | Glycol | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 150.17 | -- | 4.00 |
| TK-56350 | Amine Area Sump | Amine | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 105.14 | -- | 4.00 |
| TK-56450 | Glycol Area Sump | Glycol | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 150.17 | -- | 4.00 |
| TK-56500 | Amine HMO Area Sump | Hot Oil | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 200.00 | -- | 4.00 |
| TK-56550 | CO2 Vent Stack Area Sump | Low C Acid Gas | 124.41 | 13 | 125.00 | - | N | N/A | N/A | -- | 97.14 | 97.14 | - | 42.33 | -- | 4.00 |
| TK-56600 | Residue Compressor Area Sump | Lube Oil | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 200.00 | -- | 4.00 |
| TK-56750 | Cryo HMO Skid Drain Sump | Lube Oil | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 200.00 | -- | 4.00 |
| TK-56700 | Cryo / Refrig Area Sump | Lube Oil | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 200.00 | -- | 4.00 |
| TK-57700 | Methanol Storage Tank | Methanol | 221.17 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 54.23 | 54.23 | - | 32.04 | -- | 4.00 |
| T-54201 | Amine Contactor | Inlet Gas | 4678.22 | 1058 | 200.00 | - | Y | Flare | RH4-FL-45100 | 98 | 265,296.50 | 8,252.98 | 265,296.50 | 22.73 | 1097.43 | 4.00 |
| T-53402/T-53403 | Amine Still/Reflux Accumulator | Low C Acid Gas | 7840.24 | 38 | 250.00 | - | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | 14,810.00 | 12,856.69 | 14,810.00 | 42.33 | 5.70 | 4.00 |
| T-55701 | TEG Contactor | Inlet Gas | 1088.56 | 1058 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 66,793.70 | 2,077.85 | 66,793.70 | 22.73 | 1097.43 | 4.00 |
| T-50501 | Demethanizer | Residue Gas | 6085.37 | 373 | 60.00 | - | Y | Flare | RH5-FL-55100 | 98 | 154,415.93 | 13,627.49 | 154,415.93 | 17.87 | 1126.07 | 4.00 |
| V-51200 | Prestabilizer Separator | Inlet Gas | 1669.78 | 1058 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 102,456.77 | 3,187.28 | 102,456.77 | 22.73 | 1097.43 | 4.00 |
| V-55000 | Flare KO Drum | Inlet Gas | 933.05 | 13 | 125.00 | - | Y | Flare | RH5-FL-55100 | 98 | 728.53 | 728.53 | 728.53 | 22.73 | 1097.43 | 4.00 |
| V-55510 | CO2 Vent Scrubber | Low C Acid Gas | 365.01 | 18 | 125.00 | - | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | 395.39 | 395.39 | 395.39 | 42.33 | 5.70 | 4.00 |
| V-55520 | CO2 Vent Stack | Low C Acid Gas | 207.35 | 13 | 125.00 | - | N | N/A | N/A | -- | 161.90 | 161.90 | - | 42.33 | -- | 4.00 |
| V-53801 | HMO Expansion Tank | Hot Oil | 2591.81 | 53 | 500.00 | 0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.96 | 0.96 | 0.96 | 200.00 | 1020.00 | 4.00 |
| V-54202 | Amine Scrubber | Inlet Gas | 846.66 | 1058 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 51,950.66 | 1,616.11 | 51,950.66 | 22.73 | 1097.43 | 4.00 |
| V-53101 | Amine Flash Tank | Amine | 5496.29 | 148 | 200.00 | 0.01 | Y | Flare | RH4-FL-45100 | 98 | 2.95 | 2.95 | 2.95 | 105.14 | 1020.00 | 4.00 |
| V-53701 | Amine Surge Tank | Amine | 5496.29 | 63 | 125.00 | 0.01 | Y | Flare | RH4-FL-45100 | 98 | 3.32 | 3.32 | 3.32 | 105.14 | 1020.00 | 4.00 |
| T-55801 | TEG Scrubber | Inlet Gas | 423.33 | 1058 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 25,975.33 | 808.05 | 25,975.33 | 22.73 | 1097.43 | 4.00 |
| V-55101 | TEG Flash Tank | Glycol | 215.98 | 148 | 150.00 | 0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.13 | 0.13 | 0.13 | 150.17 | 1020.00 | 4.00 |
| V-55503 | BTEX Drum | Glycol | 19.44 | 18 | 125.00 | 0.01 | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | 0.01 | 0.01 | 0.01 | 150.17 | 1020.00 | 4.00 |
| V-50442, V-50443, V-50444 | Mol Sieve Dehydrator | Inlet Gas | 1904.98 | 1058 | 140.00 | - | Y | Flare | RH5-FL-55100 | 98 | 118,838.20 | 3,696.88 | 118,838.20 | 22.73 | 1097.43 | 4.00 |
| V-50447 | Regen Gas Scrubber | Inlet Gas | 9.72 | 1058 | 125.00 | - | Y | Flare | RH5-FL-55100 | 98 | 621.87 | 19.35 | 621.87 | 22.73 | 1097.43 | 4.00 |
| V-50402 | Cold Separator | Inlet Gas | 1119.66 | 1113 | 60.00 | - | Y | Flare | RH5-FL-55100 | 98 | 84,790.75 | 2,507.36 | 84,790.75 | 22.73 | 1097.43 | 4.00 |
| V-50404 | Product Surge Tank | Y-Grade | 9589.37 | 413 | 125.00 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 230,423.26 | 19,086.91 | 230,423.26 | 40.97 | 1020.00 | 4.00 |
| V-50481 | Fuel Gas Scrubber | Residue Gas | 20.73 | 153 | 125.00 | - | N | N/A | N/A | -- | 191.76 | 191.76 | - | 17.87 | -- | 4.00 |
| V-50403 | Cold Drain Tank | Y-Grade | 524.84 | 13 | 125.00 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 409.80 | 409.80 | 409.80 | 40.97 | 1020.00 | 4.00 |
| V-53100 | Amine Fuel Gas Scrubber | Inlet Gas | 77.75 | 148 | 125.00 | - | N | N/A | N/A | -- | 695.57 | 695.57 | - | 22.73 | -- | 4.00 |
| V-50463 | Refrigerant Accumulator | Propane | 647.95 | 328 | 225.00 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 5,850.71 | 1,101.33 | 5,850.71 | 44.10 | 2516.00 | 4.00 |
| V-50462 | Refrigerant Economizer | Propane | 373.22 | 133 | 100.00 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 3,134.15 | 776.05 | 3,134.15 | 44.10 | 2516.00 | 4.00 |
| V-50461 | Refrigerant Suction Scrubber | Propane | 311.02 | 43 | 8.00 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 1,009.10 | 773.93 | 1,009.10 | 44.10 | 2516.00 | 4.00 |
| V-50464 | Refrigerant Reclaimer | Propane | 1.73 | 43 | 125.00 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 4.50 | 3.45 | 4.50 | 44.10 | 2516.00 | 4.00 |

*Activity durations are conservative estimates.

**Train 6**

| Train 6 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | hours |
| AC-62401 | NGL Reflux Condenser | Y-Grade | 129.70 | 273 | 162.50 | 397.30 | Y | Flare | RH4-FL-45100 | 98 | 2,011.72 | 242.59 | 2,011.72 | 40.97 | 1020.00 | 4.00 |
| AC-62402 | Product Cooler | Condensate | 15.29 | 273 | 162.50 | 6.80 | Y | Flare | RH4-FL-45100 | 98 | 5.91 | 5.91 | 5.91 | 93.55 | 3394.62 | 4.00 |
| AC-65501 | TEG Cooler | Glycol | 9.02 | 43 | 182.50 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| AC-65502 | BTEX Condenser | Glycol | 9.09 | 18 | 175.00 | 0.01 | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | <0.01 | <0.01 | <0.01 | 150.17 | 1020.00 | 4.00 |
| A-60341 | Regen Gas Cooler | Inlet Gas | 19.47 | 1058 | 312.50 | - | Y | Flare | RH5-FL-55100 | 98 | 943.26 | 29.34 | 943.26 | 22.73 | 1097.43 | 4.00 |
| A-60301 | Expander Compressor Aftercooler | Residue Gas | 56.19 | 373 | 147.50 | - | Y | Flare | RH5-FL-55100 | 98 | 1,220.30 | 107.69 | 1,220.30 | 17.87 | 1126.07 | 4.00 |
| A-60361A, A-60361B, A-60361C, A-60361D | Refrigerant Condenser | Propane | 250.84 | 328 | 175.00 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 2,443.44 | 459.95 | 2,443.44 | 44.10 | 2516.00 | 4.00 |
| A-60161, A-60162, A-60163 | Refrigerant Compressor Lube Oil Cooler | Lube Oil | 62.70 | 328 | 175.00 | 0.01 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 200.00 | -- | 4.00 |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | 263 | 300.00 | - | N | N/A | N/A | -- | 1,712.34 | 1,712.34 | - | 17.87 | -- | 4.00 |
| HAL-69300, HAL-69400 | Flash Gas Compressor Intercooler / Aftercooler | Inlet Gas | 48.06 | 163 | 300.00 | - | Y | Flare | RH4-FL-45100 | 98 | 364.42 | 73.62 | 364.42 | 22.73 | 1097.43 | 4.00 |
| C-60161, C-60162, C-60163 | Refrigerant Compressor | Propane | 973.73 | 185 | 116.50 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 10,448.06 | 1,966.74 | 10,448.06 | 44.10 | 2516.00 | 4.00 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1011.48 | 263 | 300.00 | - | N | N/A | N/A | -- | 12,378.53 | 12,378.53 | - | 17.87 | -- | 4.00 |
| C-69300, C-69400 | Flash Gas Compressor | Inlet Gas | 151.91 | 163 | 300.00 | - | Y | Flare | RH4-FL-45100 | 98 | 1,151.94 | 232.71 | 1,151.94 | 22.73 | 1097.43 | 4.00 |
| EC-60101 | Expander/Compressor | Inlet Gas | 122.34 | 715 | 22.50 | - | N | N/A | N/A | -- | 6,419.00 | 6,419.00 | - | 22.73 | -- | 4.00 |
| C-60141 | Regen Gas Compressor | Inlet Gas | 2.54 | 1058 | 140.00 | - | N | N/A | N/A | -- | 158.42 | 158.42 | - | 22.73 | -- | 4.00 |
| F-61530 | Seal Gas Filter | Residue Gas | 1.18 | 313 | 165.00 | - | N | N/A | N/A | -- | 20.99 | 20.99 | - | 17.87 | -- | 4.00 |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 5 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| TK-56400 | Glycol Process Drain Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56350 | Amine Area Sump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56450 | Glycol Area Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56500 | Amine HMO Area Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56550 | CO2 Vent Stack Area Sump | 1.00 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.63 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56600 | Residue Compressor Area Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56750 | Cryo HMO Skid Drain Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56700 | Cryo / Refrig Area Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-57700 | Methanol Storage Tank | 1.00 | 100.00 | 1.15 | <0.01 | -- | -- | <0.01 | <0.01 | 1.15 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-54201 | Amine Contactor | 1.00 | 23.25 | 28.78 | 0.06 | <0.01 | <0.01 | <0.01 | <0.01 | 47.28 | 0.09 | 8.62 | 0.02 | 64.66 | 0.13 | 10.04 | 0.02 | 40.00 | 0.08 | 18.50 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | 5.54 | <0.01 | 0.83 | <0.01 |
| T-53402/T-53403 | Amine Still/Reflux Accumulator | 1.00 | 0.10 | 0.37 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 0.38 | <0.01 | 348.53 | 0.70 | 0.35 | <0.01 | 0.02 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.01 | <0.01 | <0.01 | <0.01 |
| T-55701 | TEG Contactor | 1.00 | 23.25 | 7.25 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 11.90 | 0.02 | 2.17 | <0.01 | 16.28 | 0.03 | 2.53 | <0.01 | 10.07 | 0.02 | 4.66 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 1.39 | <0.01 | 0.21 | <0.01 |
| T-50501 | Demethanizer | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 124.57 | 0.25 | 27.93 | 0.06 | 6.00 | 0.01 | 23.89 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 28.23 | <0.01 | 0.13 | <0.01 |
| V-51200 | Prestabilizer Separator | 1.00 | 23.25 | 11.11 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 18.26 | 0.04 | 3.33 | <0.01 | 24.97 | 0.05 | 3.88 | <0.01 | 15.45 | 0.03 | 7.15 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 2.14 | <0.01 | 0.32 | <0.01 |
| V-55000 | Flare KO Drum | 1.00 | 23.25 | 2.54 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.59 | <0.01 | 0.76 | <0.01 | 5.71 | 0.01 | 0.03 | <0.01 | 0.11 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| V-55510 | CO2 Vent Scrubber | 1.00 | 0.10 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 10.72 | 0.02 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 |
| V-55520 | CO2 Vent Stack | 1.00 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.39 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-53801 | HMO Expansion Tank | 1.00 | 100.00 | 0.13 | <0.01 | -- | -- | -- | -- | 0.13 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-54202 | Amine Scrubber | 1.00 | 23.25 | 5.64 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 9.26 | 0.02 | 1.69 | <0.01 | 12.66 | 0.03 | 1.97 | <0.01 | 7.83 | 0.02 | 3.62 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 1.08 | <0.01 | 0.16 | <0.01 |
| V-53101 | Amine Flash Tank | 1.00 | 5.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-53701 | Amine Surge Tank | 1.00 | 5.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-55801 | TEG Scrubber | 1.00 | 23.25 | 2.82 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.63 | <0.01 | 0.84 | <0.01 | 6.33 | 0.01 | 0.98 | <0.01 | 3.92 | <0.01 | 1.81 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.54 | <0.01 | 0.08 | <0.01 |
| V-55101 | TEG Flash Tank | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-55503 | BTEX Drum | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-50442, V-50443, V-50444 | Mol Sieve Dehydrator | 1.00 | 23.25 | 12.89 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | 21.18 | 0.04 | 3.86 | <0.01 | 28.96 | 0.06 | 4.50 | <0.01 | 17.92 | 0.04 | 8.29 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 2.48 | <0.01 | 0.37 | <0.01 |
| V-50447 | Regen Gas Scrubber | 1.00 | 23.25 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | 0.02 | <0.01 | 0.15 | <0.01 | 0.02 | <0.01 | 0.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| V-50402 | Cold Separator | 1.00 | 23.25 | 8.74 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 14.66 | 0.03 | 2.62 | <0.01 | 19.64 | 0.04 | 3.21 | <0.01 | 12.79 | 0.03 | 5.91 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 1.77 | <0.01 | 0.27 | <0.01 |
| V-50404 | Product Surge Tank | 1.00 | 71.97 | 371.20 | 0.74 | -- | -- | -- | -- | 460.83 | 0.92 | 0.47 | <0.01 | 0.45 | <0.01 | 8.11 | 0.02 | 32.29 | 0.06 | 89.62 | 0.18 | -- | -- | -- | -- | -- | -- | 0.11 | <0.01 | <0.01 | -- |
| V-50481 | Fuel Gas Scrubber | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.75 | <0.01 | 0.39 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-50403 | Cold Drain Tank | 1.00 | 71.97 | 7.97 | 0.02 | -- | -- | -- | -- | 8.13 | 0.02 | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 0.06 | <0.01 | 0.16 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| V-53100 | Amine Fuel Gas Scrubber | 1.00 | 23.25 | 2.43 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.43 | <0.01 | 0.73 | <0.01 | 5.45 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-50463 | Refrigerant Accumulator | 1.00 | 100.00 | 32.04 | 0.06 | -- | -- | -- | -- | 35.44 | 0.07 | -- | -- | -- | -- | 0.51 | <0.01 | 2.02 | <0.01 | 3.40 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-50462 | Refrigerant Economizer | 1.00 | 100.00 | 22.57 | 0.05 | -- | -- | -- | -- | 24.40 | 0.05 | -- | -- | -- | -- | 0.27 | <0.01 | 1.08 | <0.01 | 1.82 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-50461 | Refrigerant Suction Scrubber | 1.00 | 100.00 | 22.51 | 0.05 | -- | -- | -- | -- | 23.10 | 0.05 | -- | -- | -- | -- | 0.09 | <0.01 | 0.35 | <0.01 | 0.59 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-50464 | Refrigerant Reclaimer | 1.00 | 100.00 | 0.10 | <0.01 | -- | -- | -- | -- | 0.10 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| *Activity durations are conservative estimates. | **Train 5 Vented SSM** | | | **802.28** | **1.60** | **0.04** | **<0.01** | **<0.01** | **<0.01** | **964.61** | **1.93** | **817.07** | **1.63** | **364.79** | **0.73** | | | | | | | | | | | | | | | | | | |
| | **RH4-FL-45100** | | | | | | | | | | | | | | | **20.56** | **0.04** | **81.87** | **0.16** | **37.87** | **0.08** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.19** | **<0.01** | **11.34** | **<0.01** | **1.70** | **<0.01** |
| | **RH5-FL-55100** | | | | | | | | | | | | | | | **26.22** | **0.05** | **104.41** | **0.21** | **124.46** | **0.25** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.08** | **<0.01** | **36.53** | **<0.01** | **0.87** | **<0.01** |
| | **RH5-TO-55500** | | | | | | | | | | | | | | | **0.03** | **<0.01** | **0.02** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **5.61** | **<0.01** | **<0.01** | **<0.01** |

**Train 6**

| Train 6 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Vented Emissions: Unflared VOC Emissions | | Vented Emissions: Total Unflared $H_2S$ Emissions | | Vented Emissions: Total Unflared HAP Emissions | | Vented Emissions: Total VOC Emissions | | Vented Emissions: Total Unflared $CO_2$ Emissions | | Vented Emissions: Total Unflared $CH_4$ Emissions | | Flared Emissions: $NO_x$ Emissions | | Flared Emissions: CO Emissions | | Flared Emissions: Controlled VOC Emissions | | Flared Emissions: $SO_2$ Emissions | | Flared Emissions: Total Controlled $H_2S$ Emissions | | Flared Emissions: Total Controlled HAP Emissions | | Flared Emissions: Total Controlled $CO_2$ Emissions | | Flared Emissions: Total Controlled $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-62401 | NGL Reflux Condenser | 1.00 | 71.97 | 4.72 | <0.01 | -- | -- | -- | -- | 5.50 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.07 | <0.01 | 0.28 | <0.01 | 0.78 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| AC-62402 | Product Cooler | 1.00 | 95.47 | 0.35 | <0.01 | -- | -- | <0.01 | <0.01 | 0.36 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| AC-65501 | TEG Cooler | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-65502 | BTEX Condenser | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-60341 | Regen Gas Cooler | 1.00 | 23.25 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.17 | <0.01 | 0.03 | <0.01 | 0.23 | <0.01 | 0.04 | <0.01 | 0.14 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| A-60301 | Expander Compressor Aftercooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.98 | <0.01 | 0.22 | <0.01 | 0.05 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.22 | <0.01 | <0.01 | <0.01 |
| A-60361A, A-60361B, A-60361C, A-60361D | Refrigerant Condenser | 1.00 | 100.00 | 13.38 | 0.03 | -- | -- | -- | -- | 14.80 | 0.03 | -- | -- | -- | -- | 0.21 | <0.01 | 0.84 | <0.01 | 1.42 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-60161, A-60162, A-60163 | Refrigerant Compressor Lube Oil Cooler | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 15.65 | 0.03 | 3.51 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-69300, HAL-69400 | Flash Gas Compressor Intercooler / Aftercooler | 1.00 | 23.25 | 0.26 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.28 | <0.01 | 0.08 | <0.01 | 0.58 | <0.01 | 0.01 | <0.01 | 0.05 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| C-60161, C-60162, C-60163 | Refrigerant Compressor | 1.00 | 100.00 | 57.21 | 0.11 | -- | -- | -- | -- | 63.29 | 0.13 | -- | -- | -- | -- | 0.91 | <0.01 | 3.61 | <0.01 | 6.08 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 113.16 | 0.23 | 25.37 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-69300, C-69400 | Flash Gas Compressor | 1.00 | 23.25 | 0.81 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.89 | <0.01 | 0.24 | <0.01 | 1.82 | <0.01 | 0.04 | <0.01 | 0.17 | <0.01 | 0.08 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| EC-60101 | Expander/Compressor | 1.00 | 23.25 | 22.38 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | 22.38 | 0.04 | 6.70 | 0.01 | 50.29 | 0.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-60141 | Regen Gas Compressor | 1.00 | 23.25 | 0.55 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.55 | <0.01 | 0.17 | <0.01 | 1.24 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-61530 | Seal Gas Filter | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.19 | <0.01 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 6 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | hours |
| F-60441 | Inlet Filter Coalescer | Inlet Gas | 134.77 | 313 | 150.00 | - | N | N/A | N/A | -- | 2,446.02 | 2,446.02 | - | 22.73 | -- | 4.00 |
| F-60408 | Residue Gas Filter/Coalescer | Residue Gas | 16.85 | 313 | 150.00 | - | N | N/A | N/A | -- | 305.75 | 305.75 | - | 17.87 | -- | 4.00 |
| F-62101, F-62102 | Condensate Filter | Condensate | 63.36 | 313 | 125.00 | 6.80 | Y | Flare | RH4-FL-45100 | 98 | 26.06 | 26.06 | 26.06 | 93.55 | 3394.62 | 4.00 |
| F-63805 | HMO Filter | Hot Oil | 26.62 | 103 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| F-65201 | TEG Pre-Carbon Filter | Glycol | 1.75 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F-65202 | TEG Carbon Filter | Glycol | 138.23 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 150.17 | -- | 4.00 |
| F-65203 | TEG Rich Soilds Filter | Glycol | 1.75 | 148 | 150.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F-65401 | TEG Lean Soilds Filter | Glycol | 1.75 | 43 | 240.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| F-61225 | Inlet Filter Coalescer | Inlet Gas | 121.19 | 313 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 2,199.50 | 231.33 | 2,199.50 | 22.73 | 1097.43 | 4.00 |
| F-61275 | Glycol Inlet Filter Coalescer | Inlet Gas | 121.19 | 313 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 2,199.50 | 231.33 | 2,199.50 | 22.73 | 1097.43 | 4.00 |
| F-60445, F-60446 | Mol Sieve Dust Filter | Inlet Gas | 62.72 | 1058 | 150.00 | - | N | N/A | N/A | -- | 3,848.20 | 3,848.20 | - | 22.73 | -- | 4.00 |
| E-64101, E-64102 | Gas/Gas Exchanger | Inlet Gas | 231.99 | 1058 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 14,235.07 | 442.83 | 14,235.07 | 22.73 | 1097.43 | 4.00 |
| E-62201 | De-ethanizer Feed/Bottoms Exchanger | Condensate | 13.86 | 313 | 195.00 | 6.80 | Y | Flare | RH4-FL-45100 | 98 | 5.09 | 5.09 | 5.09 | 93.55 | 3394.62 | 4.00 |
| E-62204 | De-ethanizer Reboiler | Condensate | 296.57 | 313 | 300.00 | 6.80 | Y | Flare | RH4-FL-45100 | 98 | 93.87 | 93.87 | 93.87 | 93.55 | 3394.62 | 4.00 |
| E-62301 | Stabilizer Feed/Bottoms Exchanger | Condensate | 32.51 | 273 | 285.00 | 6.80 | Y | Flare | RH4-FL-45100 | 98 | 10.50 | 10.50 | 10.50 | 93.55 | 3394.62 | 4.00 |
| E-63204 | Stabilizer Reboiler | Condensate | 327.20 | 273 | 380.00 | 6.80 | Y | Flare | RH4-FL-45100 | 98 | 93.70 | 93.70 | 93.70 | 93.55 | 3394.62 | 4.00 |
| E-69200 | Flash Gas Suction Pre-Heat Exchanger | Inlet Gas | 3.82 | 313 | 137.50 | - | Y | Flare | RH4-FL-45100 | 98 | 70.84 | 7.45 | 70.84 | 22.73 | 1097.43 | 4.00 |
| E-65301 | TEG Reboiler | Glycol | 239.64 | 18 | 400.00 | 0.01 | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | 0.10 | 0.10 | 0.10 | 150.17 | 1020.00 | 4.00 |
| E-65204 | TEG Lean/Rich Exchanger | Glycol | 81.52 | 83 | 275.00 | 0.01 | N | N/A | N/A | -- | 0.04 | 0.04 | - | 150.17 | -- | 4.00 |
| E-60201/E-60206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | Inlet Gas | 348.51 | 715 | -17.50 | - | Y | Flare | RH5-FL-55100 | 98 | 19,939.01 | 917.23 | 19,939.01 | 22.73 | 1097.43 | 4.00 |
| E-60202 | Gas/Product Exchanger | Y-Grade | 149.11 | 1383 | 140.00 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 3,493.28 | 289.36 | 3,493.28 | 40.97 | 1020.00 | 4.00 |
| E-60204/60205 | Demethanizer Side Heater and Demethanizer Reboiler | Inlet Gas | 79.75 | 715 | 45.00 | - | Y | Flare | RH5-FL-55100 | 98 | 3,997.83 | 183.91 | 3,997.83 | 22.73 | 1097.43 | 4.00 |
| E-60207 | Demethanizer Trim Reboiler | Y-Grade | 46.03 | 373 | 150.00 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 995.50 | 87.86 | 995.50 | 40.97 | 1020.00 | 4.00 |
| E-60203 | Chiller | Propane | 1784.74 | 43 | 8.00 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 5,790.60 | 4,441.12 | 5,790.60 | 44.10 | 2516.00 | 4.00 |
| H-60001 | Hot Oil Heater | Hot Oil | 554.96 | 53 | 500.00 | 0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.20 | 0.20 | 0.20 | 200.00 | 1020.00 | 4.00 |
| H-60741 | Regen Gas Heater | Inlet Gas | 55.24 | 1058 | 500.00 | - | Y | Flare | RH5-FL-55100 | 98 | 2,153.36 | 66.99 | 2,153.36 | 22.73 | 1097.43 | 4.00 |
| H-60781 | HMO Heater | Hot Oil | 244.17 | 53 | 500.00 | 0.01 | Y | Flare | RH5-FL-55100 | 98 | 0.09 | 0.09 | 0.09 | 200.00 | 1020.00 | 4.00 |
| P-67015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-67005 | Flash Gas Compressor Lube Oil Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-63802, P-63803, P-63804 | HMO Pump | Hot Oil | 17.88 | 53 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-61500, P-61525 | Stabilizer NGL Booster Pump | Y-Grade | 9.55 | 273 | 125.00 | 397.30 | N | N/A | N/A | -- | 157.61 | 157.61 | - | 40.97 | -- | 4.00 |
| P-61550, P-61575 | Stabilizer NGL Pipeline Pump | Y-Grade | 5.09 | 273 | 135.00 | 397.30 | Y | Flare | RH4-FL-45100 | 98 | 82.65 | 9.97 | 82.65 | 40.97 | 1020.00 | 4.00 |
| P-65601, P-65602 | TEG Circulation Pumps | Glycol | 2.61 | 43 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-66755 | Stabilizer Area Sump Pump | Condensate | 1.28 | 13 | 125.00 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | -- | 4.00 |
| P-66805 | Stabilizer HMO Area Sump Pump | Hot Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-66605 | Residue Compressor Area Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-66850 | Flash Gas Compressor Area Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-66705 | Cryo / Refrig Area Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-65402, P-65403 | TEG Booster Pump | Glycol | 1.32 | 18 | 240.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-65504 | BTEX Pump | Glycol | 1.28 | 18 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 150.17 | -- | 4.00 |
| P-60600, P-60601, P-60602 | Product Charge Pump | Y-Grade | 13.11 | 373 | 150.00 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 283.52 | 25.02 | 283.52 | 40.97 | 1020.00 | 4.00 |
| P-61600, P-61650, P-61700 | NGL Pipeline Pump | Y-Grade | 9.85 | 373 | 150.00 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 213.02 | 18.80 | 213.02 | 40.97 | 1020.00 | 4.00 |
| P-60609 | Methanol Injection Pump | Methanol | 0.11 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 32.04 | -- | 4.00 |
| P-60654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-60781A, P-60781B | HMO Pump | Hot Oil | 2.00 | 53 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| TK-67010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.34 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 200.00 | -- | 4.00 |
| TK-67000 | Flash Gas Compressor Lube Oil Storage Tank | Lube Oil | 152.34 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 200.00 | -- | 4.00 |
| TK-66750 | Stabilizer Area Sump | Condensate | 124.41 | 13 | 125.00 | 6.80 | N | N/A | N/A | -- | 51.16 | 51.16 | - | 93.55 | -- | 4.00 |
| TK-66800 | Stabilizer HMO Area Sump | Hot Oil | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 200.00 | -- | 4.00 |
| TK-66600 | Residue Compressor Area Sump | Lube Oil | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 200.00 | -- | 4.00 |
| TK-66850 | Flash Gas Compressor Area Sump | Lube Oil | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 200.00 | -- | 4.00 |
| TK-66700 | Cryo / Refrig Area Sump | Lube Oil | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 200.00 | -- | 4.00 |
| TK-67700 | Methanol Storage Tank | Methanol | 221.17 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 54.23 | 54.23 | - | 32.04 | -- | 4.00 |
| T-64201, T-64202 | Amine Contactor | Inlet Gas | 5079.96 | 1058 | 200.00 | - | Y | Flare | RH4-FL-45100 | 98 | 288,078.19 | 8,961.68 | 288,078.19 | 22.73 | 1097.43 | 4.00 |
| T-65701 | TEG Contactor | Inlet Gas | 1277.55 | 1058 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 78,389.83 | 2,438.59 | 78,389.83 | 22.73 | 1097.43 | 4.00 |
| T-62202 | De-ethanizer Tower | Inlet Gas | 787.26 | 313 | 195.00 | - | Y | Flare | RH4-FL-45100 | 98 | 13,305.94 | 1,399.44 | 13,305.94 | 22.73 | 1097.43 | 4.00 |
| T-62302 | Stabilizer Tower | Y-Grade | 1568.05 | 273 | 285.00 | 397.30 | Y | Flare | RH4-FL-45100 | 98 | 20,320.92 | 2,450.48 | 20,320.92 | 40.97 | 1020.00 | 4.00 |
| T-60501 | Demethanizer | Residue Gas | 6085.37 | 373 | 60.00 | - | Y | Flare | RH5-FL-55100 | 98 | 154,415.93 | 13,627.49 | 154,415.93 | 17.87 | 1126.07 | 4.00 |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 6 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| F-60441 | Inlet Filter Coalescer | 1.00 | 23.25 | 8.53 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 8.53 | 0.02 | 2.55 | <0.01 | 19.16 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-60408 | Residue Gas Filter/Coalescer | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.80 | <0.01 | 0.63 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-62101, F-62102 | Condensate Filter | 1.00 | 95.47 | 1.53 | <0.01 | -- | -- | <0.01 | <0.01 | 1.57 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | 0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| F-63805 | HMO Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65201 | TEG Pre-Carbon Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65202 | TEG Carbon Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65203 | TEG Rich Soilds Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65401 | TEG Lean Soilds Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-61225 | Inlet Filter Coalescer | 1.00 | 23.25 | 0.81 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.96 | <0.01 | 0.24 | <0.01 | 1.81 | <0.01 | 0.08 | <0.01 | 0.33 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 |
| F-61275 | Glycol Inlet Filter Coalescer | 1.00 | 23.25 | 0.81 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.96 | <0.01 | 0.24 | <0.01 | 1.81 | <0.01 | 0.08 | <0.01 | 0.33 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 |
| F-60445, F-60446 | Mol Sieve Dust Filter | 1.00 | 23.25 | 13.42 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | 13.42 | 0.03 | 4.02 | <0.01 | 30.15 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-64101, E-64102 | Gas/Gas Exchanger | 1.00 | 23.25 | 1.54 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.54 | <0.01 | 0.46 | <0.01 | 3.47 | <0.01 | 0.54 | <0.01 | 2.15 | <0.01 | 0.99 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.30 | <0.01 | 0.04 | <0.01 |
| E-62201 | De-ethanizer Feed/Bottoms Exchanger | 1.00 | 95.47 | 0.30 | <0.01 | -- | -- | <0.01 | <0.01 | 0.31 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| E-62204 | De-ethanizer Reboiler | 1.00 | 95.47 | 5.53 | 0.01 | -- | -- | <0.01 | <0.01 | 5.64 | 0.01 | -- | -- | -- | -- | 0.01 | <0.01 | 0.04 | <0.01 | 0.11 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- |
| E-62301 | Stabilizer Feed/Bottoms Exchanger | 1.00 | 95.47 | 0.62 | <0.01 | -- | -- | <0.01 | <0.01 | 0.63 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| E-63204 | Stabilizer Reboiler | 1.00 | 95.47 | 5.52 | 0.01 | -- | -- | <0.01 | <0.01 | 5.63 | 0.01 | -- | -- | -- | -- | 0.01 | <0.01 | 0.04 | <0.01 | 0.11 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- |
| E-69200 | Flash Gas Suction Pre-Heat Exchanger | 1.00 | 23.25 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| E-65301 | TEG Reboiler | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-65204 | TEG Lean/Rich Exchanger | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-60201/E-60206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | 1.00 | 23.25 | 3.20 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.59 | <0.01 | 0.96 | <0.01 | 7.19 | 0.01 | 0.75 | <0.01 | 3.01 | <0.01 | 1.39 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.42 | <0.01 | 0.06 | <0.01 |
| E-60202 | Gas/Product Exchanger | 1.00 | 71.97 | 5.63 | 0.01 | -- | -- | -- | -- | 6.99 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.12 | <0.01 | 0.49 | <0.01 | 1.36 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| E-60204/60205 | Demethanizer Side Heater and Demethanizer Reboiler | 1.00 | 23.25 | 0.64 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.92 | <0.01 | 0.19 | <0.01 | 1.44 | <0.01 | 0.15 | <0.01 | 0.60 | <0.01 | 0.28 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 0.01 | <0.01 |
| E-60207 | Demethanizer Trim Reboiler | 1.00 | 71.97 | 1.71 | <0.01 | -- | -- | -- | -- | 2.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.14 | <0.01 | 0.39 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| E-60203 | Chiller | 1.00 | 100.00 | 129.18 | 0.26 | -- | -- | -- | -- | 132.55 | 0.27 | -- | -- | -- | -- | 0.50 | <0.01 | 2.00 | <0.01 | 3.37 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-60001 | Hot Oil Heater | 1.00 | 100.00 | 0.03 | <0.01 | -- | -- | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-60741 | Regen Gas Heater | 1.00 | 23.25 | 0.23 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.38 | <0.01 | 0.07 | <0.01 | 0.52 | <0.01 | 0.08 | <0.01 | 0.32 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 |
| H-60781 | HMO Heater | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-67015 | Residue Compressor Lube Oil Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-67005 | Flash Gas Compressor Lube Oil Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-63802, P-63803, P-63804 | HMO Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-61500, P-61525 | Stabilizer NGL Booster Pump | 1.00 | 71.97 | 3.07 | <0.01 | -- | -- | -- | -- | 3.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-61550, P-61575 | Stabilizer NGL Pipeline Pump | 1.00 | 71.97 | 0.19 | <0.01 | -- | -- | -- | -- | 0.23 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| P-65601, P-65602 | TEG Circulation Pumps | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-66755 | Stabilizer Area Sump Pump | 1.00 | 95.47 | 0.03 | <0.01 | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-66805 | Stabilizer HMO Area Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-66605 | Residue Compressor Area Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-66850 | Flash Gas Compressor Area Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-66705 | Cryo / Refrig Area Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-65402, P-65403 | TEG Booster Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-65504 | BTEX Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-60600, P-60601, P-60602 | Product Charge Pump | 1.00 | 71.97 | 0.49 | <0.01 | -- | -- | -- | -- | 0.60 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.11 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| P-61600, P-61650, P-61700 | NGL Pipeline Pump | 1.00 | 71.97 | 0.37 | <0.01 | -- | -- | -- | -- | 0.45 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.08 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| P-60609 | Methanol Injection Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-60654 | Expander Lube Oil Makeup Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-60781A, P-60781B | HMO Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-67010 | Residue Compressor Lube Oil Storage Tank | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-67000 | Flash Gas Compressor Lube Oil Storage Tank | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-66750 | Stabilizer Area Sump | 1.00 | 95.47 | 3.01 | <0.01 | -- | -- | <0.01 | <0.01 | 3.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-66800 | Stabilizer HMO Area Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-66600 | Residue Compressor Area Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-66850 | Flash Gas Compressor Area Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-66700 | Cryo / Refrig Area Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-67700 | Methanol Storage Tank | 1.00 | 100.00 | 1.15 | <0.01 | -- | -- | <0.01 | <0.01 | 1.15 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-64201, T-64202 | Amine Contactor | 1.00 | 23.25 | 31.25 | 0.06 | <0.01 | <0.01 | <0.01 | <0.01 | 51.34 | 0.10 | 9.36 | 0.02 | 70.21 | 0.14 | 10.91 | 0.02 | 43.44 | 0.09 | 20.09 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | 0.10 | <0.01 | 6.02 | <0.01 | 0.90 | <0.01 |
| T-65701 | TEG Contactor | 1.00 | 23.25 | 8.50 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 13.97 | 0.03 | 2.55 | <0.01 | 19.10 | 0.04 | 2.97 | <0.01 | 11.82 | 0.02 | 5.47 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 1.64 | <0.01 | 0.25 | <0.01 |
| T-62202 | De-ethanizer Tower | 1.00 | 23.25 | 4.88 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.81 | 0.01 | 1.46 | <0.01 | 10.96 | 0.02 | 0.50 | <0.01 | 2.01 | <0.01 | 0.93 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.28 | <0.01 | 0.04 | <0.01 |
| T-62302 | Stabilizer Tower | 1.00 | 71.97 | 47.66 | 0.10 | -- | -- | -- | -- | 55.56 | 0.11 | 0.06 | <0.01 | 0.06 | <0.01 | 0.72 | <0.01 | 2.85 | <0.01 | 7.90 | 0.02 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| T-60501 | Demethanizer | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 124.57 | 0.25 | 27.93 | 0.06 | 6.00 | 0.01 | 23.89 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 28.23 | <0.01 | 0.13 | <0.01 |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 6 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | hours |
| V-62203 | De-ethanizer Drain Pot | Condensate | 18.69 | 313 | 195.00 | 6.80 | N | N/A | N/A | -- | 6.87 | 6.87 | - | 93.55 | -- | 4.00 |
| V-62303 | Stabilizer Drain Pot | Condensate | 18.69 | 273 | 285.00 | 6.80 | N | N/A | N/A | -- | 6.04 | 6.04 | - | 93.55 | -- | 4.00 |
| V-62501 | NGL Surge Tank | Y-Grade | 846.66 | 273 | 125.00 | 397.30 | Y | Flare | RH4-FL-45100 | 98 | 13,974.81 | 1,685.21 | 13,974.81 | 40.97 | 1020.00 | 4.00 |
| V-63801 | HMO Expansion Tank | Hot Oil | 2591.81 | 53 | 500.00 | 0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.96 | 0.96 | 0.96 | 200.00 | 1020.00 | 4.00 |
| V-64301, V-64302 | Amine Scrubber | Inlet Gas | 1045.36 | 1058 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 64,143.16 | 1,995.40 | 64,143.16 | 22.73 | 1097.43 | 4.00 |
| V-65303 | TEG Surge Tank | Amine | 280.78 | 63 | 125.00 | 0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.17 | 0.17 | 0.17 | 105.14 | 1020.00 | 4.00 |
| T-65801 | TEG Scrubber | Inlet Gas | 485.97 | 1058 | 150.00 | - | Y | Flare | RH4-FL-45100 | 98 | 29,818.62 | 927.61 | 29,818.62 | 22.73 | 1097.43 | 4.00 |
| V-65101 | TEG Flash Tank | Glycol | 138.23 | 148 | 150.00 | 0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.08 | 0.08 | 0.08 | 150.17 | 1020.00 | 4.00 |
| V-65503 | BTEX Drum | Glycol | 34.56 | 18 | 125.00 | 0.01 | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | 0.02 | 0.02 | 0.02 | 150.17 | 1020.00 | 4.00 |
| V-60442, V-60443, V-60444 | Mol Sieve Dehydrator | Inlet Gas | 1904.98 | 1058 | 140.00 | - | Y | Flare | RH5-FL-55100 | 98 | 118,838.20 | 3,696.88 | 118,838.20 | 22.73 | 1097.43 | 4.00 |
| V-60447 | Regen Gas Scrubber | Inlet Gas | 9.72 | 1058 | 125.00 | - | Y | Flare | RH5-FL-55100 | 98 | 621.87 | 19.35 | 621.87 | 22.73 | 1097.43 | 4.00 |
| V-60402 | Cold Separator | Inlet Gas | 1119.66 | 1113 | 60.00 | - | Y | Flare | RH5-FL-55100 | 98 | 84,790.75 | 2,507.36 | 84,790.75 | 22.73 | 1097.43 | 4.00 |
| V-60404 | Product Surge Tank | Y-Grade | 9589.37 | 413 | 125.00 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 230,423.26 | 19,086.91 | 230,423.26 | 40.97 | 1020.00 | 4.00 |
| V-60481 | Fuel Gas Scrubber | Residue Gas | 20.73 | 153 | 125.00 | - | N | N/A | N/A | -- | 191.76 | 191.76 | - | 17.87 | -- | 4.00 |
| V-60403 | Cold Drain Tank | Y-Grade | 524.84 | 13 | 125.00 | 397.30 | Y | Flare | RH5-FL-55100 | 98 | 409.80 | 409.80 | 409.80 | 40.97 | 1020.00 | 4.00 |
| V-69060 | Condensate Surge Tank | Inlet Gas | 13079.86 | 313 | 125.00 | - | Y | Flare | RH4-FL-45100 | 98 | 247,536.99 | 26,034.46 | 247,536.99 | 22.73 | 1097.43 | 4.00 |
| V-60463 | Refrigerant Accumulator | Propane | 647.95 | 328 | 225.00 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 5,850.71 | 1,101.33 | 5,850.71 | 44.10 | 2516.00 | 4.00 |
| V-60462 | Refrigerant Economizer | Propane | 373.22 | 133 | 100.00 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 3,134.15 | 776.05 | 3,134.15 | 44.10 | 2516.00 | 4.00 |
| V-60461 | Refrigerant Suction Scrubber | Propane | 311.02 | 43 | 8.00 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 1,009.10 | 773.93 | 1,009.10 | 44.10 | 2516.00 | 4.00 |
| V-60464 | Refrigerant Reclaimer | Propane | 1.73 | 43 | 125.00 | 174.83 | Y | Flare | RH5-FL-55100 | 98 | 4.50 | 3.45 | 4.50 | 44.10 | 2516.00 | 4.00 |

*Activity durations are conservative estimates.

**FET-1**

| FET-1 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | hours |
| AC-4601 | Reflux Condenser | Acid Gas | 36.19 | 38 | 187.50 | - | Y | Flare | RHA-FL-5100 | 98 | 74.96 | 65.08 | 74.96 | 41.22 | 75.39 | 4.00 |
| AC-4501 | Amine Cooler | Amine | 80.30 | 103 | 162.50 | 0.01 | N | N/A | N/A | -- | 0.05 | 0.05 | - | 105.14 | -- | 4.00 |
| HAL-5530 | Acid Gas Compressor Intercooler / Aftercooler | Acid Gas | 9.20 | 23 | 300.00 | - | Y | Flare | RHA-FL-5100 | 98 | 9.81 | 9.81 | 9.81 | 41.22 | 75.39 | 4.00 |
| HAL-5540 | Acid Gas Compressor Intercooler / Aftercooler | Acid Gas | 12.18 | 23 | 300.00 | - | Y | Flare | RHA-FL-5100 | 98 | 12.99 | 12.99 | 12.99 | 41.22 | 75.39 | 4.00 |
| C-5530 | Acid Gas Compressor | Acid Gas | 47.60 | 23 | 300.00 | - | Y | Flare | RHA-FL-5100 | 98 | 50.77 | 50.77 | 50.77 | 41.22 | 75.39 | 4.00 |
| C-5540 | Acid Gas Compressor | Acid Gas | 75.37 | 23 | 300.00 | - | Y | Flare | RHA-FL-5100 | 98 | 80.37 | 80.37 | 80.37 | 41.22 | 75.39 | 4.00 |
| F-4201 | Pre-Carbon Solids Filter | Amine | 41.93 | 148 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.02 | 0.02 | - | 105.14 | -- | 4.00 |
| F-4202, F-4204 | Carbon Filter | Amine | 846.66 | 148 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.45 | 0.45 | - | 105.14 | -- | 4.00 |
| F-4203 | Rich Amine Solids Filter | Amine | 41.93 | 148 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.02 | 0.02 | - | 105.14 | -- | 4.00 |
| F-4303 | Lean Amine Solids Filter | Amine | 41.93 | 103 | 200.00 | 0.01 | N | N/A | N/A | -- | 0.02 | 0.02 | - | 105.14 | -- | 4.00 |
| F-4805 | Hot Oil Filter | Hot Oil | 13.98 | 103 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| F-5002 | NGL Solids Pre-Filter | Condensate | 3.23 | 1058 | 150.00 | 6.80 | Y | Flare | RHA-FL-5100 | 98 | 1.27 | 1.27 | 1.27 | 93.55 | 3394.62 | 4.00 |
| F-5003 | Liquid/Liquid Coalescer | Condensate | 8.29 | 1058 | 150.00 | 6.80 | Y | Flare | RHA-FL-5100 | 98 | 3.27 | 3.27 | 3.27 | 93.55 | 3394.62 | 4.00 |
| F-5101 | Filter Separator | Sour Inlet Gas (B&S) | 34.56 | 213 | 150.00 | - | Y | Flare | RHA-FL-5100 | 98 | 426.75 | 65.96 | 426.75 | 24.07 | 1170.00 | 4.00 |
| F-5104 | Filter Separator | Sour Inlet Gas (B&S) | 27.65 | 213 | 150.00 | - | Y | Flare | RHA-FL-5100 | 98 | 341.40 | 52.77 | 341.40 | 24.07 | 1170.00 | 4.00 |
| F-1100A, F-1100B | Condensate Filters | Condensate | 8.78 | 63 | 125.00 | 6.80 | Y | Flare | RHA-FL-5100 | 98 | 3.61 | 3.61 | 3.61 | 93.55 | 3394.62 | 4.00 |
| E-4301, E-4302 | Lean/Rich Amine Exchanger | Amine | 10.44 | 93 | 237.50 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| E-4401 | Amine Reboiler | Amine | 340.02 | 38 | 275.00 | 0.01 | Y | Flare | RHA-FL-5100 | 98 | 0.16 | 0.16 | 0.16 | 105.14 | 1020.00 | 4.00 |
| E-5102 | Gas/Gas Exchanger | Sour Inlet Gas (B&S) | 42.38 | 1058 | 150.00 | - | Y | Flare | RHA-FL-5100 | 98 | 2,600.14 | 80.89 | 2,600.14 | 24.07 | 1170.00 | 4.00 |
| E-5103 | NGL/Amine Exchanger | Condensate | 3.13 | 1058 | 125.00 | 6.80 | Y | Flare | RHA-FL-5100 | 98 | 1.29 | 1.29 | 1.29 | 93.55 | 3394.62 | 4.00 |
| H-4901 | Hot Oil Heater | Hot Oil | 169.50 | 53 | 500.00 | 0.01 | Y | Flare | RHA-FL-5100 | 98 | 0.06 | 0.06 | 0.06 | 200.00 | 1020.00 | 4.00 |
| H-3001 | Fuel Gas In-Line Heater | Residue Gas | 0.64 | 1410 | 150.00 | - | N | N/A | N/A | -- | 51.95 | 51.95 | - | 17.87 | -- | 4.00 |
| P-4304, P-4305 | Amine Booster Pumps | Amine | 6.66 | 38 | 200.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-4404, P-4405 | Reflux Pumps | Acid Gas | 1.08 | 38 | 125.00 | - | N | N/A | N/A | -- | 2.47 | 2.47 | - | 41.22 | -- | 4.00 |
| P-4802, P-4803, P-4804 | Hot Oil Pumps | Hot Oil | 17.88 | 53 | 500.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-4701, P-4702 | Amine Solution Pumps | Amine | 8.35 | 63 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-5805 | Condensate Drip Pot Pump | Condensate | 1.28 | 13 | 125.00 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | -- | 4.00 |
| P-5150 | Flare Drain Pump | Condensate | 1.28 | 13 | 125.00 | 6.80 | N | N/A | N/A | -- | 0.53 | 0.53 | - | 93.55 | -- | 4.00 |
| P-5525 | Acid Gas K.O. Drum Pump | Sour Water | 1.28 | 13 | 125.00 | 0.71 | N | N/A | N/A | -- | 0.05 | 0.05 | - | 40.58 | -- | 4.00 |
| P-5515 | Acid Gas Scrubber Pump | Sour Water | 1.28 | 13 | 125.00 | 0.71 | N | N/A | N/A | -- | 0.05 | 0.05 | - | 40.58 | -- | 4.00 |
| PBA-7100 | CO2 Pipeline Supply Pump | Acid Gas | 2.37 | 1963 | 125.00 | - | Y | Flare | RHA-FL-5100 | 98 | 281.11 | 4.71 | 281.11 | 41.22 | 75.39 | 4.00 |
| P-6305 | Amine Process Drain Sump Pump | Amine | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-6405 | AGI Compressor Drain Sump Pump | Lube Oil | 1.28 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-7021 | Amine Make Up Pump | Amine | 0.72 | 43 | 125.00 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-7760 | Methanol Injection Pump | Methanol | 0.38 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 32.04 | -- | 4.00 |
| P-7770 | Methanol Injection Pump | Methanol | 0.38 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 32.04 | -- | 4.00 |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| Train 6 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| V-62203 | De-ethanizer Drain Pot | 1.00 | 95.47 | 0.40 | <0.01 | -- | -- | <0.01 | <0.01 | 0.40 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-62303 | Stabilizer Drain Pot | 1.00 | 95.47 | 0.36 | <0.01 | -- | -- | <0.01 | <0.01 | 0.36 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-62501 | NGL Surge Tank | 1.00 | 71.97 | 32.77 | 0.07 | -- | -- | -- | -- | 38.21 | 0.08 | 0.04 | <0.01 | 0.04 | <0.01 | 0.49 | <0.01 | 1.96 | <0.01 | 5.44 | 0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| V-63801 | HMO Expansion Tank | 1.00 | 100.00 | 0.13 | <0.01 | -- | -- | -- | -- | 0.13 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-64301, V-64302 | Amine Scrubber | 1.00 | 23.25 | 6.96 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 11.43 | 0.02 | 2.08 | <0.01 | 15.63 | 0.03 | 2.43 | <0.01 | 9.67 | 0.02 | 4.47 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 1.34 | <0.01 | 0.20 | <0.01 |
| V-65303 | TEG Surge Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-65801 | TEG Scrubber | 1.00 | 23.25 | 3.23 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.31 | 0.01 | 0.97 | <0.01 | 7.27 | 0.01 | 1.13 | <0.01 | 4.50 | <0.01 | 2.08 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 0.62 | <0.01 | 0.09 | <0.01 |
| V-65101 | TEG Flash Tank | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-65503 | BTEX Drum | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-60442, V-60443, V-60444 | Mol Sieve Dehydrator | 1.00 | 23.25 | 12.89 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | 21.18 | 0.04 | 3.86 | <0.01 | 28.96 | 0.06 | 4.50 | <0.01 | 17.92 | 0.04 | 8.29 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 2.48 | <0.01 | 0.37 | <0.01 |
| V-60447 | Regen Gas Scrubber | 1.00 | 23.25 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | 0.02 | <0.01 | 0.15 | <0.01 | 0.02 | <0.01 | 0.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| V-60402 | Cold Separator | 1.00 | 23.25 | 8.74 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 14.66 | 0.03 | 2.62 | <0.01 | 19.64 | 0.04 | 3.21 | <0.01 | 12.79 | 0.03 | 5.91 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 1.77 | <0.01 | 0.27 | <0.01 |
| V-60404 | Product Surge Tank | 1.00 | 71.97 | 371.20 | 0.74 | -- | -- | -- | -- | 460.83 | 0.92 | 0.47 | <0.01 | 0.45 | <0.01 | 8.11 | 0.02 | 32.29 | 0.06 | 89.62 | 0.18 | -- | -- | -- | -- | -- | -- | 0.11 | <0.01 | <0.01 | -- |
| V-60481 | Fuel Gas Scrubber | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.75 | <0.01 | 0.39 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-60403 | Cold Drain Tank | 1.00 | 71.97 | 7.97 | 0.02 | -- | -- | -- | -- | 8.13 | 0.02 | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 0.06 | <0.01 | 0.16 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | -- |
| V-69060 | Condensate Surge Tank | 1.00 | 23.25 | 90.79 | 0.18 | <0.01 | <0.01 | <0.01 | <0.01 | 108.05 | 0.22 | 27.19 | 0.05 | 203.96 | 0.41 | 9.37 | 0.02 | 37.33 | 0.07 | 17.26 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | 5.17 | <0.01 | 0.78 | <0.01 |
| V-60463 | Refrigerant Accumulator | 1.00 | 100.00 | 32.04 | 0.06 | -- | -- | -- | -- | 35.44 | 0.07 | -- | -- | -- | -- | 0.51 | <0.01 | 2.02 | <0.01 | 3.40 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-60462 | Refrigerant Economizer | 1.00 | 100.00 | 22.57 | 0.05 | -- | -- | -- | -- | 24.40 | 0.05 | -- | -- | -- | -- | 0.27 | <0.01 | 1.08 | <0.01 | 1.82 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-60461 | Refrigerant Suction Scrubber | 1.00 | 100.00 | 22.51 | 0.05 | -- | -- | -- | -- | 23.10 | 0.05 | -- | -- | -- | -- | 0.09 | <0.01 | 0.35 | <0.01 | 0.59 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-60464 | Refrigerant Reclaimer | 1.00 | 100.00 | 0.10 | <0.01 | -- | -- | -- | -- | 0.10 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| *Activity durations are conservative estimates. | **Train 6 Vented SSM** | | | **992.49** | **1.98** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **1183.18** | **2.37** | **325.78** | **0.65** | **554.35** | **1.11** | | | | | | | | | | | | | | | | | |
| | **RH4-FL-45100** | | | | | | | | | | | | | | | **0.13** | **<0.01** | **0.52** | **<0.01** | **0.93** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.03** | **<0.01** | **<0.01** | **<0.01** |
| | **RH5-FL-55100** | | | | | | | | | | | | | | | **25.59** | **0.05** | **101.92** | **0.20** | **124.54** | **0.25** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.08** | **<0.01** | **33.40** | **<0.01** | **0.85** | **<0.01** |
| | **RH5-TO-55500** | | | | | | | | | | | | | | | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** |

**FET-1**

| | | | | Vented Emissions | | | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FET-1 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-4601 | Reflux Condenser | 1.00 | 0.05 | <0.01 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.56 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 |
| AC-4501 | Amine Cooler | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-5530 | Acid Gas Compressor Intercooler / Aftercooler | 1.00 | 0.05 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.24 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| HAL-5540 | Acid Gas Compressor Intercooler / Aftercooler | 1.00 | 0.05 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.31 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| C-5530 | Acid Gas Compressor | 1.00 | 0.05 | <0.01 | <0.01 | 0.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.22 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| C-5540 | Acid Gas Compressor | 1.00 | 0.05 | <0.01 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.93 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 |
| F-4201 | Pre-Carbon Solids Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4202, F-4204 | Carbon Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4203 | Rich Amine Solids Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4303 | Lean Amine Solids Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4805 | Hot Oil Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5002 | NGL Solids Pre-Filter | 1.00 | 95.47 | 0.08 | <0.01 | -- | -- | <0.01 | <0.01 | 0.08 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| F-5003 | Liquid/Liquid Coalescer | 1.00 | 95.47 | 0.19 | <0.01 | -- | -- | <0.01 | <0.01 | 0.20 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| F-5101 | Filter Separator | 1.00 | 18.89 | 0.20 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.22 | <0.01 | 0.11 | <0.01 | 0.57 | <0.01 | 0.02 | <0.01 | 0.07 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| F-5104 | Filter Separator | 1.00 | 18.89 | 0.16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.18 | <0.01 | 0.09 | <0.01 | 0.46 | <0.01 | 0.01 | <0.01 | 0.05 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| F-1100A, F-1100B | Condensate Filters | 1.00 | 95.47 | 0.21 | <0.01 | -- | -- | <0.01 | <0.01 | 0.22 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| E-4301, E-4302 | Lean/Rich Amine Exchanger | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-4401 | Amine Reboiler | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-5102 | Gas/Gas Exchanger | 1.00 | 18.89 | 0.24 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.40 | <0.01 | 0.14 | <0.01 | 0.70 | <0.01 | 0.10 | <0.01 | 0.42 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | <0.01 | <0.01 |
| E-5103 | NGL/Amine Exchanger | 1.00 | 95.47 | 0.08 | <0.01 | -- | -- | <0.01 | <0.01 | 0.08 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| H-4901 | Hot Oil Heater | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-3001 | Fuel Gas In-Line Heater | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.47 | <0.01 | 0.11 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-4304, P-4305 | Amine Booster Pumps | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-4404, P-4405 | Reflux Pumps | 1.00 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-4802, P-4803, P-4804 | Hot Oil Pumps | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-4701, P-4702 | Amine Solution Pumps | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5805 | Condensate Drip Pot Pump | 1.00 | 95.47 | 0.03 | <0.01 | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5150 | Flare Drain Pump | 1.00 | 95.47 | 0.03 | <0.01 | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5525 | Acid Gas K.O. Drum Pump | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5515 | Acid Gas Scrubber Pump | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| PBA-7100 | CO2 Pipeline Supply Pump | 1.00 | 0.05 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 |
| P-6305 | Amine Process Drain Sump Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6405 | AGI Compressor Drain Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7021 | Amine Make Up Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7760 | Methanol Injection Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7770 | Methanol Injection Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| FET-1 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | hours |
| TK-6100, TK-6200 | Sour Slop Tank | Sour Water | 6584.17 | 13 | 125.00 | 0.71 | Y | Flare | EP-9 | 98 | 281.08 | 281.08 | 281.08 | 40.58 | 1020.00 | 4.00 |
| TK-6300 | Amine Process Drain Sump | Amine | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 105.14 | -- | 4.00 |
| TK-6400 | AGI Compressor Drain Sump | Lube Oil | 124.41 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.08 | 0.08 | - | 200.00 | -- | 4.00 |
| TK-7020 | Amine Storage Tank | Amine | 1295.91 | 13 | 125.00 | 0.01 | N | N/A | N/A | -- | 0.78 | 0.78 | - | 105.14 | -- | 4.00 |
| TK-7700 | Methanol Storage Tank | Methanol | 221.17 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 54.23 | 54.23 | - | 32.04 | -- | 4.00 |
| TK-7710 | Methanol Storage Tank | Methanol | 221.17 | 13 | 125.00 | 4.05 | N | N/A | N/A | -- | 54.23 | 54.23 | - | 32.04 | -- | 4.00 |
| T-4402, T-4403 | Amine Still/Accumulator | Acid Gas (B&S) | 1049.68 | 30 | 250.00 | - | Y | Flare | RHA-FL-5100 | 98 | 1,569.11 | 1,569.11 | 1,569.11 | 24.07 | 1020.00 | 4.00 |
| T-4102 | Flash Gas Contactor | Amine | 1.32 | 148 | 200.00 | 0.01 | Y | Flare | RHA-FL-5100 | 98 | <0.01 | <0.01 | <0.01 | 105.14 | 1020.00 | 4.00 |
| T-5203 | Amine Contactor | Sour Inlet Gas (B&S) | 874.74 | 1058 | 200.00 | - | Y | Flare | RHA-FL-5100 | 98 | 49,605.30 | 1,543.15 | 49,605.30 | 24.07 | 1170.00 | 4.00 |
| V-4101 | Amine Flash Tank | Amine | 1382.30 | 148 | 200.00 | 0.01 | Y | Flare | RHA-FL-5100 | 98 | 0.74 | 0.74 | 0.74 | 105.14 | 1020.00 | 4.00 |
| V-4502 | Amine Surge Tank | Amine | 933.05 | 63 | 125.00 | 0.01 | Y | Flare | RHA-FL-5100 | 98 | 0.56 | 0.56 | 0.56 | 105.14 | 1020.00 | 4.00 |
| V-4801 | Hot Oil Expansion Tank | Hot Oil | 423.33 | 53 | 500.00 | 0.01 | Y | Flare | RHA-FL-5100 | 98 | 0.16 | 0.16 | 0.16 | 200.00 | 1020.00 | 4.00 |
| V-5204 | Amine Scrubber | Treated Inlet Gas | 207.35 | 1058 | 150.00 | - | Y | Flare | RHA-FL-5100 | 98 | 12,722.61 | 395.78 | 12,722.61 | 22.73 | 1097.43 | 4.00 |
| V-1000 | Slug Catcher | Sour Inlet Gas (B&S) | 2964.50 | 1058 | 150.00 | - | Y | Flare | Flare | 98 | 181,900.48 | 5,658.65 | 181,900.48 | 24.07 | 1170.00 | 4.00 |
| V-1050 | Inlet Gas Scrubber | Sour Inlet Gas (B&S) | 174.95 | 1058 | 150.00 | - | Y | Flare | RHA-FL-5100 | 98 | 10,734.70 | 333.94 | 10,734.70 | 24.07 | 1170.00 | 4.00 |
| V-2000 | Water Flash Tank | Sour Inlet Gas (B&S) | 431.97 | 63 | 150.00 | - | Y | Flare | RHA-FL-5100 | 98 | 1,576.18 | 824.54 | 1,576.18 | 24.07 | 1170.00 | 4.00 |
| V-5800 | Condensate Drip Pot | Sour Inlet Gas (B&S) | 77.75 | 13 | 125.00 | - | Y | Flare | EP-9 | 98 | 63.06 | 63.06 | 63.06 | 24.07 | 1170.00 | 4.00 |
| V-3000 | Fuel Gas Scrubber | Residue Gas | 62.20 | 163 | 150.00 | - | N | N/A | N/A | -- | 587.76 | 587.76 | - | 17.87 | -- | 4.00 |
| V-5520 | Acid Gas K.O. Drum | Acid Gas (B&S) | 349.89 | 13 | 125.00 | - | Y | Flare | RHA-FL-5100 | 98 | 273.20 | 273.20 | 273.20 | 24.07 | 1020.00 | 4.00 |
| V-5510 | Acid Gas Scrubber | Acid Gas (B&S) | 138.23 | 38 | 125.00 | - | Y | Flare | RHA-FL-5100 | 98 | 316.94 | 275.14 | 316.94 | 24.07 | 1020.00 | 4.00 |

*Activity durations are conservative estimates.

**FET-2**

2 4 9.00 11 13 23 21 22 23

| FET-2 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | (hours) |
| AC-22301 | Product Cooler | Condensate | 3.11 | 213 | 160 | 6.80 | Y | Flare | RA2-FL-25100 | 98 | 1.21 | 1.21 | 1.21 | 93.55 | 3394.62 | 4.00 |
| HAL-25530, HAL-25540, HAL-25550 | Acid Gas Compressor Intercooler / Aftercooler | Acid Gas (B&S) | 340.92 | 23 | 313 | - | Y | Flare | RA2-FL-25100 | 98 | 357.49 | 279.47 | 357.49 | 24.07 | 1020.00 | 4.00 |
| HAL-29300, HAL-29400, HAL-29500 | Flash Gas Compressor Intercooler / Aftercooler | Sour Inlet Gas (B&S) | 70.07 | 88 | 313 | - | Y | Flare | RA2-FL-25100 | 98 | 281.95 | 105.55 | 281.95 | 24.07 | 1170.00 | 4.00 |
| AC-24300, AC-24302 | Treated Gas Cooler | Treated Inlet Gas | 42.43 | 1153 | 163 | - | Y | Flare | RA2-FL-25100 | 98 | 2,778.63 | 79.32 | 2,778.63 | 22.73 | 1097.43 | 4.00 |
| AC-23601 | Reflux Condenser | Acid Gas (B&S) | 218.07 | 38 | 200 | - | Y | Flare | RA2-FL-25100 | 98 | 442.87 | 384.46 | 442.87 | 24.07 | 1020.00 | 4.00 |
| AC-23501, AC-23502 | Amine Cooler | Amine | 316.36 | 103 | 175 | 0.01 | N | N/A | N/A | -- | 0.18 | 0.18 | - | 105.14 | -- | 4.00 |
| C-25530, C-25540, C-25550 | Acid Gas Compressor | Acid Gas (B&S) | 945.67 | 23 | 313 | - | Y | Flare | RA2-FL-25100 | 98 | 991.63 | 775.21 | 991.63 | 24.07 | 1020.00 | 4.00 |
| C-21410, C-21420, C-21430, C-21440 | Closed Drain VRU Compressor | Sour Inlet Gas (B&S) | 94.86 | 63 | 313 | - | Y | Flare | RA2-FL-25100 | 98 | 273.15 | 142.89 | 273.15 | 24.07 | 1170.00 | 4.00 |
| C-29300, C-29400, C-29500 | Flash Gas Compressor | Sour Inlet Gas (B&S) | 495.91 | 88 | 313 | - | Y | Flare | RA2-FL-25100 | 98 | 1,995.39 | 746.99 | 1,995.39 | 24.07 | 1170.00 | 4.00 |
| F-21001, F-21002 | Condensate Filters | Condensate | 56.78 | 63 | 163 | 6.80 | Y | Flare | RA2-FL-25100 | 98 | 21.93 | 21.93 | 21.93 | 93.55 | 3394.62 | 4.00 |
| F-22101, F-22102 | Condensate Feed Filters | Condensate | 5.10 | 63 | 138 | 6.80 | Y | Flare | RA2-FL-25100 | 98 | 2.05 | 2.05 | 2.05 | 93.55 | 3394.62 | 4.00 |
| F-22103 | Liquid/Liquid Coalescing Filter | Condensate | 12.10 | 63 | 138 | 6.80 | Y | Flare | RA2-FL-25100 | 98 | 4.87 | 4.87 | 4.87 | 93.55 | 3394.62 | 4.00 |
| F-21500 | Fuel Gas Filter Coalescer | Residue Gas | 2.94 | 213 | 163 | - | N | N/A | N/A | -- | 35.53 | 35.53 | - | 17.87 | -- | 4.00 |
| F-23805 | HMO Filter | Hot Oil | 23.04 | 103 | 513 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| F-21225 | Inlet Filter Coalescer | Sour Inlet Gas (B&S) | 121.49 | 213 | 163 | - | Y | Flare | RA2-FL-25100 | 98 | 1,469.18 | 227.09 | 1,469.18 | 24.07 | 1170.00 | 4.00 |
| F-23200 | Rich Amine Pre-Carbon Filter | Amine | 27.36 | 148 | 213 | 0.01 | N | N/A | N/A | -- | 0.01 | 0.01 | - | 105.14 | -- | 4.00 |
| F-23201, F-23202 | Rich Amine Carbon Filter | Amine | 1248.39 | 148 | 213 | 0.01 | N | N/A | N/A | -- | 0.66 | 0.66 | - | 105.14 | -- | 4.00 |
| F-23203, F-23204 | Rich Amine Post-Carbon Filter | Amine | 54.72 | 148 | 213 | 0.01 | N | N/A | N/A | -- | 0.03 | 0.03 | - | 105.14 | -- | 4.00 |
| F-23304 | Lean Amine Filter | Amine | 27.36 | 103 | 213 | 0.01 | N | N/A | N/A | -- | 0.01 | 0.01 | - | 105.14 | -- | 4.00 |
| E-21100 | Condensate Pre-Heat Exchanger | Condensate | 6.21 | 1153 | 138 | 6.80 | Y | Flare | RA2-FL-25100 | 98 | 2.50 | 2.50 | 2.50 | 93.55 | 3394.62 | 4.00 |
| E-22201 | Feed/Bottoms Exchanger | Condensate | 26.33 | 213 | 288 | 6.80 | Y | Flare | RA2-FL-25100 | 98 | 8.47 | 8.47 | 8.47 | 93.55 | 3394.62 | 4.00 |
| E-22204 | Stabilizer Reboiler | Condensate | 153.89 | 213 | 393 | 6.80 | Y | Flare | RA2-FL-25100 | 98 | 43.40 | 43.40 | 43.40 | 93.55 | 3394.62 | 4.00 |
| E-29200 | Flash Gas Suction Pre-Heat Exchanger | Sour Inlet Gas (B&S) | 7.37 | 213 | 150 | - | Y | Flare | RA2-FL-25100 | 98 | 90.99 | 14.06 | 90.99 | 24.07 | 1170.00 | 4.00 |
| E-24101, E-24102 | Gas/Gas Exchanger | Sour Inlet Gas (B&S) | 376.29 | 1153 | 163 | - | Y | Flare | RA2-FL-25100 | 98 | 24,640.80 | 703.38 | 24,640.80 | 24.07 | 1170.00 | 4.00 |
| E-23301 | Lean/Rich Amine Exchanger | Amine | 209.07 | 93 | 250 | 0.01 | N | N/A | N/A | -- | 0.10 | 0.10 | - | 105.14 | -- | 4.00 |
| E-23401 | Amine Reboiler | Amine | 861.83 | 38 | 288 | 0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.41 | 0.41 | 0.41 | 105.14 | 1020.00 | 4.00 |
| H-21505 | Fuel Gas In-Line Heater | Residue Gas | 2.90 | 1410 | 163 | - | N | N/A | N/A | -- | 232.31 | 232.31 | - | 17.87 | -- | 4.00 |
| H-20001 | HMO Heater | Hot Oil | 554.96 | 53 | 513 | 0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.20 | 0.20 | 0.20 | 200.00 | 1020.00 | 4.00 |
| P-25515 | Acid Gas Scrubber Pump | Sour Water | 1.28 | 38 | 138 | 0.71 | N | N/A | N/A | -- | 0.05 | 0.05 | - | 40.58 | -- | 4.00 |
| P-21404, P-21405 | Off-Spec Condensate Re-run Pumps | Condensate | 3.13 | 63 | 138 | 6.80 | Y | Flare | RA2-FL-25850 | 98 | 1.26 | 1.26 | 1.26 | 93.55 | 3394.62 | 4.00 |
| P-29305, P-29405, P-29505 | Flash Gas Compressor PSV Discharge Pump | Sour Inlet Gas (B&S) | 3.84 | 13 | 138 | - | N | N/A | N/A | -- | 2.93 | 2.93 | - | 24.07 | -- | 4.00 |
| P-25535, P-25545, P-25555 | Acid Gas Compressor PSV Discharge Pump | Sour Water | 3.84 | 13 | 138 | 0.71 | N | N/A | N/A | -- | 0.16 | 0.16 | - | 40.58 | -- | 4.00 |
| P-25150 | Flare KO Drum Pump | Condensate | 1.28 | 13 | 138 | 6.80 | N | N/A | N/A | -- | 0.51 | 0.51 | - | 93.55 | -- | 4.00 |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| FET-1 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | activities/yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| TK-6100, TK-6200 | Sour Slop Tank | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| TK-6300 | Amine Process Drain Sump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6400 | AGI Compressor Drain Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7020 | Amine Storage Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7700 | Methanol Storage Tank | 1.00 | 100.00 | 1.15 | <0.01 | -- | -- | <0.01 | <0.01 | 1.15 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7710 | Methanol Storage Tank | 1.00 | 100.00 | 1.15 | <0.01 | -- | -- | <0.01 | <0.01 | 1.15 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-4402, T-4403 | Amine Still/Accumulator | 1.00 | 18.89 | 4.71 | <0.01 | 0.11 | <0.01 | -- | -- | 4.80 | <0.01 | -- | -- | -- | -- | 0.06 | <0.01 | 0.22 | <0.01 | 0.09 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- |
| T-4102 | Flash Gas Contactor | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-5203 | Amine Contactor | 1.00 | 18.89 | 4.63 | <0.01 | 0.08 | <0.01 | <0.01 | <0.01 | 7.60 | 0.02 | 2.61 | <0.01 | 13.35 | 0.03 | 2.00 | <0.01 | 7.97 | 0.02 | 2.98 | <0.01 | 0.02 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | 1.68 | <0.01 | 0.17 | <0.01 |
| V-4101 | Amine Flash Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-4502 | Amine Surge Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-4801 | Hot Oil Expansion Tank | 1.00 | 100.00 | 0.02 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-5204 | Amine Scrubber | 1.00 | 23.25 | 1.38 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.27 | <0.01 | 0.41 | <0.01 | 3.10 | <0.01 | 0.48 | <0.01 | 1.92 | <0.01 | 0.89 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.27 | <0.01 | 0.04 | <0.01 |
| V-1000 | Slug Catcher | 1.00 | 18.89 | 16.97 | 0.03 | 0.31 | <0.01 | <0.01 | <0.01 | 27.89 | 0.06 | 9.58 | 0.02 | 48.94 | 0.10 | 7.34 | 0.01 | 29.24 | 0.06 | 10.91 | 0.02 | 0.07 | <0.01 | 0.04 | <0.01 | 0.03 | <0.01 | 6.16 | <0.01 | 0.63 | <0.01 |
| V-1050 | Inlet Gas Scrubber | 1.00 | 18.89 | 1.00 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 1.65 | <0.01 | 0.57 | <0.01 | 2.89 | <0.01 | 0.43 | <0.01 | 1.73 | <0.01 | 0.64 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.36 | <0.01 | 0.04 | <0.01 |
| V-2000 | Water Flash Tank | 1.00 | 18.89 | 2.47 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | 2.57 | <0.01 | 1.40 | <0.01 | 7.13 | 0.01 | 0.06 | <0.01 | 0.25 | <0.01 | 0.09 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 |
| V-5800 | Condensate Drip Pot | 1.00 | 18.89 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.19 | <0.01 | 0.11 | <0.01 | 0.55 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| V-3000 | Fuel Gas Scrubber | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.37 | 0.01 | 1.20 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-5520 | Acid Gas K.O. Drum | 1.00 | 18.89 | 0.82 | <0.01 | 0.02 | <0.01 | -- | -- | 0.84 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | 0.04 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- |
| V-5510 | Acid Gas Scrubber | 1.00 | 18.89 | 0.83 | <0.01 | 0.02 | <0.01 | -- | -- | 0.84 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | 0.04 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- |
| *Activity durations are conservative estimates. | | **FET-1 Vented SSM** | | **36.56** | **0.07** | **1.16** | **<0.01** | **<0.01** | **<0.01** | **52.43** | **0.10** | **26.30** | **0.05** | **78.99** | **0.16** | | | | | | | | | | | | | | | | | | |
| | | **RHA-FL-5100** | | | | | | | | | | | | | | **3.20** | **<0.01** | **12.73** | **0.03** | **4.95** | **<0.01** | **0.03** | **<0.01** | **0.01** | **<0.01** | **0.02** | **<0.01** | **2.72** | **<0.01** | **0.27** | **<0.01** |
| | | **RHA-FL-5850** | | | | | | | | | | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**FET-2**

| | 2 | 3 | | Vented Emissions | | | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FET-2 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
| | | (activities/yr) | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-22301 | Product Cooler | 1.00 | 95.47 | 0.07 | <0.01 | -- | -- | <0.01 | <0.01 | 0.07 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| HAL-25530, HAL-25540, HAL-25550 | Acid Gas Compressor Intercooler / Aftercooler | 1.00 | 18.89 | 0.84 | <0.01 | 0.02 | <0.01 | -- | -- | 0.86 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | 0.05 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- |
| HAL-29300, HAL-29400, HAL-29500 | Flash Gas Compressor Intercooler / Aftercooler | 1.00 | 18.89 | 0.32 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.33 | <0.01 | 0.18 | <0.01 | 0.91 | <0.01 | 0.01 | <0.01 | 0.05 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| AC-24300, AC-24302 | Treated Gas Cooler | 1.00 | 23.25 | 0.28 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.47 | <0.01 | 0.08 | <0.01 | 0.62 | <0.01 | 0.11 | <0.01 | 0.42 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 |
| AC-23601 | Reflux Condenser | 1.00 | 18.89 | 1.15 | <0.01 | 0.03 | <0.01 | -- | -- | 1.18 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | 0.06 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- |
| AC-23501, AC-23502 | Amine Cooler | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-25530, C-25540, C-25550 | Acid Gas Compressor | 1.00 | 18.89 | 2.33 | <0.01 | 0.05 | <0.01 | -- | -- | 2.38 | <0.01 | -- | -- | -- | -- | 0.03 | <0.01 | 0.14 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- |
| C-21410, C-21420, C-21430, C-21440 | Closed Drain VRU Compressor | 1.00 | 18.89 | 0.43 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.44 | <0.01 | 0.24 | <0.01 | 1.24 | <0.01 | 0.01 | <0.01 | 0.04 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| C-29300, C-29400, C-29500 | Flash Gas Compressor | 1.00 | 18.89 | 2.24 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | 2.36 | <0.01 | 1.26 | <0.01 | 6.46 | 0.01 | 0.08 | <0.01 | 0.32 | <0.01 | 0.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 |
| F-21001, F-21002 | Condensate Filters | 1.00 | 95.47 | 1.29 | <0.01 | -- | -- | <0.01 | <0.01 | 1.32 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | 0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| F-22101, F-22102 | Condensate Feed Filters | 1.00 | 95.47 | 0.12 | <0.01 | -- | -- | <0.01 | <0.01 | 0.12 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| F-22103 | Liquid/Liquid Coalescing Filter | 1.00 | 95.47 | 0.29 | <0.01 | -- | -- | <0.01 | <0.01 | 0.29 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| F-21500 | Fuel Gas Filter Coalescer | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.32 | <0.01 | 0.07 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23805 | HMO Filter | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-21225 | Inlet Filter Coalescer | 1.00 | 18.89 | 0.68 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | 0.77 | <0.01 | 0.38 | <0.01 | 1.96 | <0.01 | 0.06 | <0.01 | 0.24 | <0.01 | 0.09 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 |
| F-23200 | Rich Amine Pre-Carbon Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23201, F-23202 | Rich Amine Carbon Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23203, F-23204 | Rich Amine Post-Carbon Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23304 | Lean Amine Filter | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-21100 | Condensate Pre-Heat Exchanger | 1.00 | 95.47 | 0.15 | <0.01 | -- | -- | <0.01 | <0.01 | 0.15 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| E-22201 | Feed/Bottoms Exchanger | 1.00 | 95.47 | 0.50 | <0.01 | -- | -- | <0.01 | <0.01 | 0.51 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| E-22204 | Stabilizer Reboiler | 1.00 | 95.47 | 2.56 | <0.01 | -- | -- | <0.01 | <0.01 | 2.61 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.05 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| E-29200 | Flash Gas Suction Pre-Heat Exchanger | 1.00 | 18.89 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | 0.02 | <0.01 | 0.12 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| E-24101, E-24102 | Gas/Gas Exchanger | 1.00 | 18.89 | 2.11 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | 3.59 | <0.01 | 1.19 | <0.01 | 6.08 | 0.01 | 0.99 | <0.01 | 3.96 | <0.01 | 1.48 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.83 | <0.01 | 0.09 | <0.01 |
| E-23301 | Lean/Rich Amine Exchanger | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-23401 | Amine Reboiler | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-21505 | Fuel Gas In-Line Heater | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.12 | <0.01 | 0.48 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-20001 | HMO Heater | 1.00 | 100.00 | 0.03 | <0.01 | -- | -- | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-25515 | Acid Gas Scrubber Pump | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-21404, P-21405 | Off-Spec Condensate Re-run Pumps | 1.00 | 95.47 | 0.07 | <0.01 | -- | -- | <0.01 | <0.01 | 0.08 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| P-29305, P-29405, P-29505 | Flash Gas Compressor PSV Discharge Pump | 1.00 | 18.89 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-25535, P-25545, P-25555 | Acid Gas Compressor PSV Discharge Pump | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-25150 | Flare KO Drum Pump | 1.00 | 95.47 | 0.03 | <0.01 | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| FET-2 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Operating Pressure | Temperature | Mixture Vapor Pressure | Flared? | Control Device Type | Control Device | DRE % | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Vapor Heating Value Btu/scf | Activity Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | scf | scf | scf | lb/ lb-mol | | (hours) |
| P-25525 | Acid Gas KO Drum Pump | Sour Water | 1.28 | 13 | 138 | 0.71 | N | N/A | N/A | -- | 0.05 | 0.05 | - | 40.58 | -- | 4.00 |
| P-25805 | Sour Slop Tank Flare Knockout Drum Pump | Condensate | 1.28 | 13 | 138 | 6.80 | N | N/A | N/A | -- | 0.51 | 0.51 | - | 93.55 | -- | 4.00 |
| P-27021 | Amine Makeup Pump | Amine | 0.72 | 43 | 138 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-27760 | Methanol Injection Pump | Methanol | 0.38 | 13 | 138 | 4.05 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 32.04 | -- | 4.00 |
| P-27770 | AGI Compressor Methanol Injection Pump | Methanol | 0.38 | 13 | 138 | 4.05 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 32.04 | -- | 4.00 |
| P-27005 | PAG ISO 100 Lube Oil Makeup Pump | Lube Oil | 1.28 | 13 | 138 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-27015 | PAG ISO 150 Lube Oil Makeup Pump | Lube Oil | 1.28 | 13 | 138 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-26605 | AGI Compressor Sump Pump | Lube Oil | 1.28 | 13 | 138 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-26855 | Flash Gas Compressor Sump Pump | Lube Oil | 1.28 | 13 | 138 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-23802, P-23803, P-23804 | HMO Pump | Hot Oil | 17.88 | 53 | 513 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-26505 | HMO Area Sump Pump | Hot Oil | 1.28 | 13 | 138 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 200.00 | -- | 4.00 |
| P-23302, P-23303 | Amine Booster Pump | Amine | 6.66 | 38 | 213 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-23605 | Anti-Foam Injection Pump | Amine | 1.28 | 13 | 138 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-23603, P-23604 | Reflux Pump | Amine | 1.08 | 38 | 138 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-23702, P-23703 | Amine Solution Pump | Amine | 5.93 | 63 | 138 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-26355 | Amine Area Sump Pump | Amine | 1.28 | 13 | 138 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| P-26305 | Amine Process Drain Tank Pump | Amine | 1.28 | 13 | 138 | 0.01 | N | N/A | N/A | -- | <0.01 | <0.01 | - | 105.14 | -- | 4.00 |
| TK-27020 | Amine Storage Tank | Amine | 4981.47 | 13 | 138 | 0.01 | N | N/A | N/A | -- | 2.95 | 2.95 | - | 105.14 | -- | 4.00 |
| TK-27700 | Methanol Storage Tank | Methanol | 221.17 | 13 | 138 | 4.05 | N | N/A | N/A | -- | 53.06 | 53.06 | - | 32.04 | -- | 4.00 |
| TK-27710 | AGI Compressor Methanol Storage Tank | Methanol | 221.17 | 13 | 138 | 4.05 | N | N/A | N/A | -- | 53.06 | 53.06 | - | 32.04 | -- | 4.00 |
| TK-27000 | PAG ISO 100 Lube Oil Tank | Lube Oil | 152.05 | 13 | 138 | 0.01 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 200.00 | -- | 4.00 |
| TK-27010 | PAG ISO 150 Lube Oil Tank | Lube Oil | 152.05 | 13 | 138 | 0.01 | N | N/A | N/A | -- | 0.09 | 0.09 | - | 200.00 | -- | 4.00 |
| TK-26100, TK-26200 | Sour Slop Tank | Sour Water | 6584.17 | 13 | 138 | 0.71 | Y | Flare | RA2-FL-25850 | 98 | 275.00 | 275.00 | 275.00 | 40.58 | 1020.00 | 4.00 |
| TK-26600 | AGI Compressor Area Sump | Lube Oil | 124.41 | 13 | 138 | 0.01 | N | N/A | N/A | -- | 0.07 | 0.07 | - | 200.00 | -- | 4.00 |
| TK-26850 | Flash Gas Compressor Area Sump | Lube Oil | 124.41 | 13 | 138 | 0.01 | N | N/A | N/A | -- | 0.07 | 0.07 | - | 200.00 | -- | 4.00 |
| TK-26500 | HMO Area Sump | Hot Oil | 124.41 | 13 | 138 | 0.01 | N | N/A | N/A | -- | 0.07 | 0.07 | - | 200.00 | -- | 4.00 |
| TK-26350 | Amine Area Sump | Amine | 124.41 | 13 | 138 | 0.01 | N | N/A | N/A | -- | 0.07 | 0.07 | - | 105.14 | -- | 4.00 |
| TK-26300 | Amine Process Drain Tank | Amine | 623.76 | 13 | 138 | 0.01 | N | N/A | N/A | -- | 0.37 | 0.37 | - | 105.14 | -- | 4.00 |
| T-22202 | Condensate Stabilizer Tower | Condensate | 2.19 | 213 | 288 | 6.80 | Y | Flare | RA2-FL-25100 | 98 | 0.70 | 0.70 | 0.70 | 93.55 | 3394.62 | 4.00 |
| T-24201, T-24202 | Amine Gas Contactor | Sour Inlet Gas (B&S) | 4645.39 | 1153 | 213 | - | Y | Flare | RA2-FL-25100 | 98 | 281,580.49 | 8,037.76 | 281,580.49 | 24.07 | 1170.00 | 4.00 |
| T-23402 | Amine Still | Acid Gas (B&S) | 3593.98 | 38 | 263 | - | Y | Flare | RA2-FL-25100 | 98 | 6,667.64 | 5,788.24 | 6,667.64 | 24.07 | 1020.00 | 5.00 |
| V-21000 | Slug Catcher | Sour Inlet Gas (B&S) | 11903.79 | 1153 | 163 | - | Y | Flare | RA2-FL-25100 | 98 | 779,496.22 | 22,250.84 | 779,496.22 | 24.07 | 1170.00 | 5.00 |
| V-29060 | Condensate Surge Tank | Sour Inlet Gas (B&S) | 13600.11 | 213 | 138 | - | Y | Flare | RA2-FL-25100 | 98 | 171,344.82 | 26,485.17 | 171,344.82 | 24.07 | 1170.00 | 5.00 |
| V-25510 | Acid Gas Scrubber | Acid Gas (B&S) | 761.99 | 38 | 138 | - | Y | Flare | RA2-FL-25100 | 98 | 1,709.38 | 1,483.92 | 1,709.38 | 24.07 | 1020.00 | 5.00 |
| V-21403 | Off-Spec Closed Drain Tank | Sour Inlet Gas (B&S) | 632.40 | 63 | 138 | - | Y | Flare | RA2-FL-25100 | 98 | 2,354.21 | 1,231.56 | 2,354.21 | 24.07 | 1170.00 | 4.00 |
| ~~V-25000~~ | ~~Flare KO Drum~~ | ~~Sour Inlet Gas (B&S)~~ | ~~2799.16~~ | ~~13~~ | ~~138~~ | - | ~~Y~~ | ~~Flare~~ | ~~RA2-FL-25100~~ | ~~98~~ | ~~2,138.39~~ | ~~2,138.39~~ | ~~2,138.39~~ | ~~24.07~~ | ~~1170.00~~ | ~~4.00~~ |
| ~~V-25520~~ | ~~Acid Gas KO Drum~~ | ~~Acid Gas (B&S)~~ | ~~1095.04~~ | ~~13~~ | ~~138~~ | - | ~~Y~~ | ~~Flare~~ | ~~RA2-FL-25100~~ | ~~98~~ | ~~836.54~~ | ~~836.54~~ | ~~836.54~~ | ~~24.07~~ | ~~1020.00~~ | ~~5.00~~ |
| V-25800 | Sour Slop Tank Flare Knockout Drum | Sour Inlet Gas (B&S) | 17.28 | 13 | 138 | - | Y | Flare | RA2-FL-25850 | 98 | 13.71 | 13.71 | 13.71 | 24.07 | 1170.00 | 4.00 |
| V-23801 | HMO Expansion Tank | Hot Oil | 1105.84 | 53 | 513 | 0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.40 | 0.40 | 0.40 | 200.00 | 1020.00 | 4.00 |
| V-21050 | Inlet Gas Vortex Scrubber | Sour Inlet Gas (B&S) | 58.64 | 1153 | 163 | - | Y | Flare | RA2-FL-25100 | 98 | 3,839.91 | 109.61 | 3,839.91 | 24.07 | 1170.00 | 4.00 |
| V-24301, V-24303 | Amine Scrubber | Treated Inlet Gas | 989.21 | 1153 | 163 | - | Y | Flare | RA2-FL-25100 | 98 | 64,776.40 | 1,849.05 | 64,776.40 | 22.73 | 1097.43 | 4.00 |
| V-23101 | Amine Flash Tank | Amine | 3455.75 | 148 | 213 | 0.01 | Y | Flare | RA2-FL-25100 | 98 | 1.82 | 1.82 | 1.82 | 105.14 | 1020.00 | 4.00 |
| V-23403 | Reflux Accumulator | Acid Gas (B&S) | 423.33 | 38 | 138 | - | Y | Flare | RA2-FL-25100 | 98 | 949.65 | 824.40 | 949.65 | 24.07 | 1020.00 | 5.00 |
| V-23701 | Amine Surge Tank | Amine | 3455.75 | 63 | 138 | 0.01 | Y | Flare | RA2-FL-25100 | 98 | 2.04 | 2.04 | 2.04 | 105.14 | 1020.00 | 4.00 |

*Activity durations are conservative estimates.

## Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

| FET-2 Equipment ID | Equipment Description | Annual Activities | Mixture VOC wt% | Unflared VOC Emissions | | Total Unflared $H_2S$ Emissions | | Total Unflared HAP Emissions | | Total VOC Emissions | | Total Unflared $CO_2$ Emissions | | Total Unflared $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | Controlled VOC Emissions | | $SO_2$ Emissions | | Total Controlled $H_2S$ Emissions | | Total Controlled HAP Emissions | | Total Controlled $CO_2$ Emissions | | Total Controlled $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (activities/yr) | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| P-25525 | Acid Gas KO Drum Pump | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-25805 | Sour Slop Tank Flare Knockout Drum Pump | 1.00 | 95.47 | 0.03 | <0.01 | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-27021 | Amine Makeup Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-27760 | Methanol Injection Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-27770 | AGI Compressor Methanol Injection Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-27005 | PAG ISO 100 Lube Oil Makeup Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-27015 | PAG ISO 150 Lube Oil Makeup Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-26605 | AGI Compressor Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-26855 | Flash Gas Compressor Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-23802, P-23803, P-23804 | HMO Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-26505 | HMO Area Sump Pump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-23302, P-23303 | Amine Booster Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-23605 | Anti-Foam Injection Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-23603, P-23604 | Reflux Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-23702, P-23703 | Amine Solution Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-26355 | Amine Area Sump Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-26305 | Amine Process Drain Tank Pump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-27020 | Amine Storage Tank | 1.00 | 5.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-27700 | Methanol Storage Tank | 1.00 | 100.00 | 1.12 | <0.01 | -- | -- | <0.01 | <0.01 | 1.12 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-27710 | AGI Compressor Methanol Storage Tank | 1.00 | 100.00 | 1.12 | <0.01 | -- | -- | <0.01 | <0.01 | 1.12 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-27000 | PAG ISO 100 Lube Oil Tank | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-27010 | PAG ISO 150 Lube Oil Tank | 1.00 | 100.00 | 0.01 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-26100, TK-26200 | Sour Slop Tank | 1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| TK-26600 | AGI Compressor Area Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-26850 | Flash Gas Compressor Area Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-26500 | HMO Area Sump | 1.00 | 100.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-26350 | Amine Area Sump | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-26300 | Amine Process Drain Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-22202 | Condensate Stabilizer Tower | 1.00 | 95.47 | 0.04 | <0.01 | -- | -- | <0.01 | <0.01 | 0.04 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| T-24201, T-24202 | Amine Gas Contactor | 1.00 | 18.89 | 24.11 | 0.05 | 0.43 | <0.01 | <0.01 | <0.01 | 41.00 | 0.08 | 13.60 | 0.03 | 69.51 | 0.14 | 11.37 | 0.02 | 45.27 | 0.09 | 16.89 | 0.03 | 0.11 | <0.01 | 0.06 | <0.01 | 0.05 | <0.01 | 9.53 | <0.01 | 0.97 | <0.01 |
| T-23402 | Amine Still | 1.00 | 18.89 | 13.89 | 0.03 | 0.31 | <0.01 | -- | -- | 14.21 | 0.04 | -- | -- | -- | -- | 0.19 | <0.01 | 0.75 | <0.01 | 0.32 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- |
| V-21000 | Slug Catcher | 1.00 | 18.89 | 53.39 | 0.13 | 0.96 | <0.01 | <0.01 | <0.01 | 90.80 | 0.23 | 30.13 | 0.08 | 153.94 | 0.38 | 25.17 | 0.06 | 100.25 | 0.25 | 37.41 | 0.09 | 0.24 | <0.01 | 0.13 | <0.01 | 0.11 | <0.01 | 21.11 | 0.05 | 2.16 | <0.01 |
| V-29060 | Condensate Surge Tank | 1.00 | 18.89 | 63.55 | 0.16 | 1.15 | <0.01 | <0.01 | <0.01 | 71.78 | 0.18 | 35.86 | 0.09 | 183.24 | 0.46 | 5.53 | 0.01 | 22.04 | 0.06 | 8.22 | 0.02 | 0.05 | <0.01 | 0.03 | <0.01 | 0.02 | <0.01 | 4.64 | <0.01 | 0.47 | <0.01 |
| V-25510 | Acid Gas Scrubber | 1.00 | 18.89 | 3.56 | <0.01 | 0.08 | <0.01 | -- | -- | 3.64 | <0.01 | -- | -- | -- | -- | 0.05 | <0.01 | 0.19 | <0.01 | 0.08 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- |
| V-21403 | Off-Spec Closed Drain Tank | 1.00 | 18.89 | 3.69 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | 3.84 | <0.01 | 2.08 | <0.01 | 10.65 | 0.02 | 0.10 | <0.01 | 0.38 | <0.01 | 0.14 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | <0.01 | <0.01 |
| ~~V-25000~~ | ~~Flare KO Drum~~ | ~~1.00~~ | ~~18.89~~ | ~~6.41~~ | ~~0.01~~ | | -- | ~~<0.01~~ | ~~<0.01~~ | ~~6.54~~ | ~~0.01~~ | ~~3.62~~ | ~~<0.01~~ | ~~18.49~~ | ~~0.04~~ | ~~0.09~~ | ~~<0.01~~ | ~~0.34~~ | ~~<0.01~~ | ~~0.13~~ | ~~<0.01~~ | ~~<0.01~~ | ~~<0.01~~ | ~~<0.01~~ | ~~<0.01~~ | ~~<0.01~~ | ~~<0.01~~ | ~~0.07~~ | ~~<0.01~~ | ~~<0.01~~ | ~~<0.01~~ |
| ~~V-25520~~ | ~~Acid Gas KO Drum~~ | ~~1.00~~ | ~~18.89~~ | ~~2.01~~ | ~~<0.01~~ | | -- | -- | -- | ~~2.05~~ | ~~<0.01~~ | -- | -- | -- | -- | ~~0.02~~ | ~~<0.01~~ | ~~0.09~~ | ~~<0.01~~ | ~~0.04~~ | ~~<0.01~~ | ~~<0.01~~ | ~~<0.01~~ | ~~<0.01~~ | ~~<0.01~~ | -- | -- | -- | -- | -- | -- |
| V-25800 | Sour Slop Tank Flare Knockout Drum | 1.00 | 18.89 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.02 | <0.01 | 0.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| V-23801 | HMO Expansion Tank | 1.00 | 100.00 | 0.05 | <0.01 | -- | -- | -- | -- | 0.05 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-21050 | Inlet Gas Vortex Scrubber | 1.00 | 18.89 | 0.33 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.56 | <0.01 | 0.19 | <0.01 | 0.95 | <0.01 | 0.15 | <0.01 | 0.62 | <0.01 | 0.23 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.13 | <0.01 | 0.01 | <0.01 |
| V-24301, V-24303 | Amine Scrubber | 1.00 | 23.25 | 6.45 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 10.97 | 0.02 | 1.93 | <0.01 | 14.49 | 0.03 | 2.45 | <0.01 | 9.77 | 0.02 | 4.52 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 1.35 | <0.01 | 0.20 | <0.01 |
| V-23101 | Amine Flash Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-23403 | Reflux Accumulator | 1.00 | 18.89 | 1.98 | <0.01 | 0.04 | <0.01 | -- | -- | 2.02 | <0.01 | -- | -- | -- | -- | 0.03 | <0.01 | 0.11 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- |
| V-23701 | Amine Surge Tank | 1.00 | 5.00 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **FET-2 Vented SSM** | | **197.40** | **0.46** | **3.27** | **<0.01** | **<0.01** | **<0.01** | **267.56** | **0.63** | **93.28** | **0.22** | **469.36** | **1.11** | | | | | | | | | | | | | | | | | | |
| | | **RA2-FL-25100** | | | | | | | | | | | | | | **46.48** | **0.11** | **185.13** | **0.43** | **70.16** | **0.16** | **0.41** | **<0.01** | **0.22** | **<0.01** | **0.22** | **<0.01** | **37.95** | **0.06** | **3.95** | **<0.01** |
| | | **RA2-FL-25850** | | | | | | | | | | | | | | **0.01** | **<0.01** | **0.04** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** |

*Activity durations are conservative estimates.

# Full Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

### Vented Equiment Blowdown Summary

| | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| **Train 1 Vented SSM** | 3474.74 | 6.95 | 0.05 | <0.01 | 0.03 | <0.01 | 3662.24 | 7.32 | 152.80 | 0.31 |
| **Train 2 Vented SSM** | 782.63 | 1.57 | 0.04 | <0.01 | <0.01 | <0.01 | 932.39 | 1.86 | 757.38 | 1.51 |
| **Train 3 Vented SSM** | 793.32 | 1.59 | <0.01 | <0.01 | <0.01 | <0.01 | 952.59 | 1.91 | 269.47 | 0.54 |
| **Train 4 Vented SSM** | 914.80 | 1.83 | 0.04 | <0.01 | <0.01 | <0.01 | 1148.24 | 2.30 | 868.81 | 1.74 |
| **Train 5 Vented SSM** | 802.28 | 1.60 | 0.04 | <0.01 | <0.01 | <0.01 | 964.61 | 1.93 | 817.07 | 1.63 |
| **Train 6 Vented SSM** | 992.49 | 1.98 | <0.01 | <0.01 | <0.01 | <0.01 | 1183.18 | 2.37 | 325.78 | 0.65 |
| **FET-1 Vented SSM** | 36.56 | 0.07 | 1.16 | <0.01 | <0.01 | <0.01 | 52.43 | 0.10 | 26.30 | 0.05 |
| **FET-2 Vented SSM** | 197.40 | 0.46 | 3.27 | <0.01 | <0.01 | <0.01 | 267.56 | 0.63 | 93.28 | 0.22 |

### Flared Equiment Blowdown Summary

| | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| **RH1-FL-29-1003** | 47.38 | 0.09 | 188.68 | 0.38 | 168.19 | 0.34 | <0.01 | <0.01 | <0.01 | <0.01 | 1.02 | <0.01 | 26.76 | 0.09 | 3.03 | <0.01 |
| **RH2-FL-5100** | 56.45 | 0.11 | 224.83 | 0.45 | 184.92 | 0.37 | <0.01 | <0.01 | <0.01 | <0.01 | 0.38 | <0.01 | 42.47 | 0.01 | 3.53 | <0.01 |
| **RH3-FL-5100** | 23.44 | 0.05 | 93.34 | 0.19 | 124.10 | 0.25 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 24.26 | <0.01 | 0.79 | <0.01 |
| **RH4-FL-45100** | 106.56 | 0.21 | 424.40 | 0.85 | 272.23 | 0.54 | <0.01 | <0.01 | <0.01 | <0.01 | 0.81 | <0.01 | 83.00 | 0.27 | 7.48 | <0.01 |
| **RH5-FL-55100** | 51.81 | 0.10 | 206.33 | 0.41 | 249.00 | 0.50 | <0.01 | <0.01 | <0.01 | <0.01 | 0.16 | <0.01 | 69.93 | <0.01 | 1.72 | <0.01 |
| **RHA-FL-5100** | 3.20 | <0.01 | 12.73 | 0.03 | 4.95 | <0.01 | 0.03 | <0.01 | 0.01 | <0.01 | 0.02 | <0.01 | 2.72 | <0.01 | 0.27 | <0.01 |
| **RA2-FL-25100** | 46.48 | 0.11 | 185.13 | 0.43 | 70.16 | 0.16 | 0.41 | <0.01 | 0.22 | <0.01 | 0.22 | <0.01 | 37.95 | 0.06 | 3.95 | <0.01 |
| **RH1-FL-2850** | 1.92 | <0.01 | 7.64 | 0.02 | 19.31 | 0.04 | -- | -- | -- | -- | 1.89 | <0.01 | -- | -- | -- | -- |
| **RHA-FL-5850** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RA2-FL-25850** | 0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| **RH2-TO-5500** | 0.03 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 6.29 | <0.01 | <0.01 | <0.01 |
| **RH4-TO-45500** | 0.03 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.38 | <0.01 | <0.01 | <0.01 |
| **RH5-TO-55500** | 0.03 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.61 | <0.01 | <0.01 | <0.01 |

**Sample Calculations:**

Vo = V * Pmin1 * (519.67 °R) / (14.696 psia * To)

Va = V * Pmin2 * (519.67 °R) / (14.696 psia * To)

Vf = Vo - Va

Where:

Vo = Volume at Operating Conditions ($ft^3$)

V = Volume of Vessel ($ft^3$)

Pmin1 = Minimum of vapor and operating pressure (psia)

To = Operating temperature (°R)

Va = Volume released to atmosphere ($ft^3$)

Pmin2 = Minimum of vapor, flared blowdown, and operating pressure (psia)

Vf = Volume of gas sent to flare ($ft^3$)

Efh = Vf / (379 scf/lb-mol) * MW * VOC wt% / t * (1 - DRE)

Efy = Efh * t * a

Eah = Va / (379 scf/lb-mol) * MW * VOC wt% / t

Eay = Eah * t * a

Where:

Efh = hourly flared VOC emission rate (lb/hr)

MW = molecular weight (lb/lb-mol)

VOC wt% = weight percent of VOC (%)

t = activity duration (hr)

DRE = Destruction efficiency of flare (%)

Efy = yearly flared VOC emission rate (tpy)

a = activities per year

Eah = hourly vented VOC emission rate (lb/hr)

Eay = yearly vented VOC emission rate (tpy)

These example calculations are not intended to be representations under 116.116(b), but are an example of the emission calculation approach for a sub-category of MSS emissions activities. The basis of the example emission calculation (such as volume, concentration, pressure) are example conditions and should not be interpreted as representations of a specific plant or activity condition under 116.116(b). Individual activities in this MSS sub-category are performed which may have slight variations in procedure or equipment configuration.

# Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Calculation Basis:**

Emissions from vessel maintenance activities are calculated using a four step pressurization, where vessels are blown down to check for leaks after pressurizing. The minimum of the vapor pressure or pressurization steps is used to determine the volume of gas or vapor vented to atmosphere or flare.

**Train 1**

Atmospheric Pressure: 12.91 psia; 1st Step Pressurization: 25 psig; 2nd Step Pressurization: 50 psig; 3rd Step Pressurization: 100 psig; 4th Step Pressurization: 100 psig

| Train 1 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| 21-107 | Condensate Cooler | Condensate | 4.12 | 6.80 | 6.80 | 1.91 | 0.47 | 6.80 | 1.91 | 0.47 | 6.80 | 1.91 | 0.47 | 6.80 | 1.91 | 0.47 | 93.55 | 1.88 |
| 21-110 | Overhead Compressor Interstage Cooler | Sour Inlet Gas (B&S) | 0.88 | - | 37.91 | 2.28 | 0.14 | 62.91 | 3.78 | 0.24 | 112.91 | 6.78 | 0.43 | 112.91 | 6.78 | 0.43 | 24.07 | 1.25 |
| 21-602 | Expander/Compressor Discharge Cooler | Residue Gas | 33.23 | - | 37.91 | 85.73 | 4.04 | 62.91 | 142.26 | 6.71 | 112.91 | 255.33 | 12.04 | 112.91 | 255.33 | 12.04 | 17.87 | 34.83 |
| 21-604 | Sales Compression Interstage Discharge Cooler | Residue Gas | 43.09 | - | 37.91 | 111.14 | 5.24 | 62.91 | 184.44 | 8.70 | 112.91 | 331.03 | 15.61 | 112.91 | 331.03 | 15.61 | 17.87 | 45.15 |
| 21-607 | Sales Compression Discharge Cooler | Residue Gas | 68.08 | - | 37.91 | 175.63 | 8.28 | 62.91 | 291.45 | 13.74 | 112.91 | 523.09 | 24.66 | 112.91 | 523.09 | 24.66 | 17.87 | 71.35 |
| HAL-42-15-U205, HAL-42-15-U206 | Flash Gas Compressor Intercooler / Aftercooler | Inlet Gas | 53.75 | - | 37.91 | 138.66 | 8.32 | 62.91 | 230.10 | 13.80 | 112.91 | 412.99 | 24.77 | 112.91 | 412.99 | 24.77 | 22.73 | 71.67 |
| 21-405 | Regen Gas Cooler | Inlet Gas | 10.80 | - | 37.91 | 27.86 | 1.67 | 62.91 | 46.23 | 2.77 | 112.91 | 82.97 | 4.98 | 112.91 | 82.97 | 4.98 | 22.73 | 14.40 |
| HZZ-1100 | Glycol Vapor Condenser | Glycol | 3.89 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| 21-213 | Lean Amine Cooler | Amine | 58.23 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 105.14 | 0.04 |
| 21-214 | Amine Stripper Reflux Cooler | Low C Acid Gas | 67.35 | - | 37.91 | 173.73 | 19.40 | 62.91 | 288.30 | 32.20 | 112.91 | 517.44 | 57.79 | 112.91 | 517.44 | 57.79 | 42.33 | 167.18 |
| 21-802A, 21-802B | Propane Condenser | Propane | 142.64 | 174.83 | 37.91 | 367.95 | 42.81 | 62.91 | 610.59 | 71.04 | 112.91 | 1095.89 | 127.51 | 112.91 | 1095.89 | 127.51 | 44.10 | 368.87 |
| AC-1401 | Product Cooler | Condensate | 4.59 | 6.80 | 6.80 | 2.12 | 0.52 | 6.80 | 2.12 | 0.52 | 6.80 | 2.12 | 0.52 | 6.80 | 2.12 | 0.52 | 93.55 | 2.10 |
| AC-1401 | Product Cooler | Condensate | 4.59 | 6.80 | 6.80 | 2.12 | 0.52 | 6.80 | 2.12 | 0.52 | 6.80 | 2.12 | 0.52 | 6.80 | 2.12 | 0.52 | 93.55 | 2.10 |
| 42-108A, 42-108B | Stabilizer Overhead Compressor | Sour Inlet Gas (B&S) | 12.21 | - | 37.91 | 31.51 | 2.00 | 62.91 | 52.28 | 3.32 | 112.91 | 93.83 | 5.96 | 112.91 | 93.83 | 5.96 | 24.07 | 17.24 |
| 45-507 | Expander/Compressor | Inlet Gas | 36.67 | - | 37.91 | 94.59 | 5.67 | 62.91 | 156.96 | 9.42 | 112.91 | 281.71 | 16.90 | 112.91 | 281.71 | 16.90 | 22.73 | 48.89 |
| 42-601A, 42-601B, 42-601C | Sales Gas Compressor | Residue Gas | 179.89 | - | 37.91 | 464.05 | 21.88 | 62.91 | 770.06 | 36.31 | 112.91 | 1382.10 | 65.17 | 112.91 | 1382.10 | 65.17 | 17.87 | 188.53 |
| 42-15-U205, 42-15-U206 | Flash Gas Compressor | Inlet Gas | 472.90 | - | 37.91 | 1219.89 | 73.18 | 62.91 | 2024.36 | 121.43 | 112.91 | 3633.29 | 217.94 | 112.91 | 3633.29 | 217.94 | 22.73 | 630.49 |
| 42-801A, 42-801B | Propane Compressor | Propane | 324.58 | 174.83 | 37.91 | 837.29 | 97.42 | 62.91 | 1389.44 | 161.66 | 112.91 | 2493.75 | 290.15 | 112.91 | 2493.75 | 290.15 | 44.10 | 839.38 |
| F-009A, F-009B | Condensate Filter | Condensate | 48.38 | 100.00 | 37.91 | 124.80 | 30.80 | 62.91 | 207.11 | 51.12 | 100.00 | 329.21 | 81.26 | 100.00 | 329.21 | 81.26 | 93.55 | 244.43 |
| 26-217 | Amine Contactor Inlet Coalescing Filter | Inlet Gas | 24.69 | - | 37.91 | 63.70 | 3.82 | 62.91 | 105.71 | 6.34 | 112.91 | 189.73 | 11.38 | 112.91 | 189.73 | 11.38 | 22.73 | 32.92 |
| 26-401 | Inlet Filter/Separator | Inlet Gas | 18.87 | - | 37.91 | 48.69 | 2.92 | 62.91 | 80.80 | 4.85 | 112.91 | 145.01 | 8.70 | 112.91 | 145.01 | 8.70 | 22.73 | 25.16 |
| 26-403 | Inlet Dust Filter | Inlet Gas | 8.91 | - | 37.91 | 22.98 | 1.38 | 62.91 | 38.14 | 2.29 | 112.91 | 68.45 | 4.11 | 112.91 | 68.45 | 4.11 | 22.73 | 11.88 |
| 26-520 | NGL/Water Coalescer | Y-Grade | 4.90 | 397.30 | 37.91 | 12.64 | 1.37 | 62.91 | 20.97 | 2.27 | 112.91 | 37.64 | 4.07 | 112.91 | 37.64 | 4.07 | 40.97 | 11.77 |
| 26-115 | LPG/Water Coalescer | Y-Grade | 19.20 | 397.30 | 37.91 | 49.53 | 5.35 | 62.91 | 82.18 | 8.88 | 112.91 | 147.50 | 15.94 | 112.91 | 147.50 | 15.94 | 40.97 | 46.12 |
| 26-305 | Glycol Charcoal Filter | Glycol | 23.33 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 150.17 | 0.03 |
| 26-306 | Glycol Filter | Glycol | 0.88 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| F51-208, F51-209 | Lean Amine Filter | Amine | 18.93 | 0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 105.14 | 0.01 |
| 26-208 | Amine Filter | Amine | 23.61 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 105.14 | 0.02 |
| 32-209 | Amine Carbon Filter | Amine | 165.88 | 0.01 | 0.01 | 0.11 | 0.03 | 0.01 | 0.11 | 0.03 | 0.01 | 0.11 | 0.03 | 0.01 | 0.11 | 0.03 | 105.14 | 0.13 |
| 26-210 | Amine Guard Filter | Amine | 5.12 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| 26-703A, 26-703B | Hot Oil Filter | Hot Oil | 66.42 | 0.01 | 0.01 | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 200.00 | 0.10 |
| F-1101, F-1102 | Condensate Filter | Condensate | 7.63 | 6.80 | 6.80 | 3.53 | 0.87 | 6.80 | 3.53 | 0.87 | 6.80 | 3.53 | 0.87 | 6.80 | 3.53 | 0.87 | 93.55 | 3.48 |
| F-1504 | Hot Oil Filter | Hot Oil | 9.73 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | 0.01 |
| E-XXXX | Gas/Gas Exchanger | Inlet Gas | 42.38 | - | 37.91 | 109.31 | 6.56 | 62.91 | 181.40 | 10.88 | 112.91 | 325.57 | 19.53 | 112.91 | 325.57 | 19.53 | 22.73 | 56.50 |
| 21-106 | Condensate Stabilizer Reboiler | Condensate | 17.34 | 6.80 | 6.80 | 8.03 | 1.98 | 6.80 | 8.03 | 1.98 | 6.80 | 8.03 | 1.98 | 6.80 | 8.03 | 1.98 | 93.55 | 7.92 |
| 21-304 | Gas/Glycol Heat Exchanger | Inlet Gas | 6.83 | - | 37.91 | 17.61 | 1.06 | 62.91 | 29.23 | 1.75 | 112.91 | 52.45 | 3.15 | 112.91 | 52.45 | 3.15 | 22.73 | 9.10 |
| 21-503 | GSP Warm Gas/Gas Heat Exchanger | Inlet Gas | 52.03 | - | 37.91 | 134.22 | 8.05 | 62.91 | 222.73 | 13.36 | 112.91 | 399.75 | 23.98 | 112.91 | 399.75 | 23.98 | 22.73 | 69.37 |
| 21-511 | GSP Trim Reboiler | Y-Grade | 77.79 | 397.30 | 37.91 | 200.68 | 21.69 | 62.91 | 333.02 | 36.00 | 112.91 | 597.70 | 64.60 | 112.91 | 597.70 | 64.60 | 40.97 | 186.90 |
| 21-501 | Demethanizer Bottom Reboiler | Inlet Gas | 57.37 | - | 37.91 | 148.00 | 8.88 | 62.91 | 245.60 | 14.73 | 112.91 | 440.79 | 26.44 | 112.91 | 440.79 | 26.44 | 22.73 | 76.49 |
| 21-502 | Demethanizer Side Tray Heat Exchanger | Inlet Gas | 232.46 | - | 37.91 | 599.66 | 35.97 | 62.91 | 995.11 | 59.69 | 112.91 | 1786.01 | 107.13 | 112.91 | 1786.01 | 107.13 | 22.73 | 309.93 |
| 21-505 | GSP Chiller | Inlet Gas | 33.33 | - | 37.91 | 85.98 | 5.16 | 62.91 | 142.68 | 8.56 | 112.91 | 256.08 | 15.36 | 112.91 | 256.08 | 15.36 | 22.73 | 44.44 |
| 21-508 | GSP Subcooler Heat Exchanger | Residue Gas | 39.93 | - | 37.91 | 103.00 | 4.86 | 62.91 | 170.93 | 8.06 | 112.91 | 306.78 | 14.47 | 112.91 | 306.78 | 14.47 | 17.87 | 41.85 |
| 21-404 | Regen Gas Heater | Inlet Gas | 19.94 | - | 37.91 | 51.45 | 3.09 | 62.91 | 85.38 | 5.12 | 112.91 | 153.23 | 9.19 | 112.91 | 153.23 | 9.19 | 22.73 | 26.59 |
| 21-308 | Glycol/Glycol Exchanger | Glycol | 21.23 | 0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 150.17 | 0.02 |
| 21-310 | Glycol Reboiler | Glycol | 211.66 | 0.01 | 0.01 | 0.14 | 0.06 | 0.01 | 0.14 | 0.06 | 0.01 | 0.14 | 0.06 | 0.01 | 0.14 | 0.06 | 150.17 | 0.23 |
| 21-204, 21-204B | Lean/Rich Exchanger | Amine | 292.59 | 0.01 | 0.01 | 0.20 | 0.06 | 0.01 | 0.20 | 0.06 | 0.01 | 0.20 | 0.06 | 0.01 | 0.20 | 0.06 | 105.14 | 0.22 |
| 21-206 | Amine Stripper Reboiler | Amine | 177.33 | 0.01 | 0.01 | 0.12 | 0.03 | 0.01 | 0.12 | 0.03 | 0.01 | 0.12 | 0.03 | 0.01 | 0.12 | 0.03 | 105.14 | 0.13 |
| E-1201 | Feed/Bottoms Exchanger | Condensate | 51.37 | 6.80 | 6.80 | 23.77 | 5.87 | 6.80 | 23.77 | 5.87 | 6.80 | 23.77 | 5.87 | 6.80 | 23.77 | 5.87 | 93.55 | 23.47 |
| E-1203 | Deethanizer Reboiler | Condensate | 100.17 | 6.80 | 6.80 | 46.35 | 11.44 | 6.80 | 46.35 | 11.44 | 6.80 | 46.35 | 11.44 | 6.80 | 46.35 | 11.44 | 93.55 | 45.76 |
| E-1302 | Stabilizer Reboiler | Condensate | 302.57 | 6.80 | 6.80 | 140.00 | 34.56 | 6.80 | 140.00 | 34.56 | 6.80 | 140.00 | 34.56 | 6.80 | 140.00 | 34.56 | 93.55 | 138.22 |
| E-1701 | Pre-Heat Exchanger | Condensate | 25.76 | 6.80 | 6.80 | 11.92 | 2.94 | 6.80 | 11.92 | 2.94 | 6.80 | 11.92 | 2.94 | 6.80 | 11.92 | 2.94 | 93.55 | 11.77 |
| 23-704 | Hot Oil Heater | Hot Oil | 7.71 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | 0.01 |
| H-1101 | Hot Oil Heater | Hot Oil | 152.49 | 0.01 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 200.00 | 0.22 |
| 42-2500 | Truck Unloading Pump | Condensate | 3.33 | 6.80 | 6.80 | 1.54 | 0.38 | 6.80 | 1.54 | 0.38 | 6.80 | 1.54 | 0.38 | 6.80 | 1.54 | 0.38 | 93.55 | 1.52 |
| P-1575 | Sour Stabilizer Rerun Pump | Condensate | 3.33 | 6.80 | 6.80 | 1.54 | 0.38 | 6.80 | 1.54 | 0.38 | 6.80 | 1.54 | 0.38 | 6.80 | 1.54 | 0.38 | 93.55 | 1.52 |
| 41-512A, 41-512B | NGL Booster Pump | Y-Grade | 22.80 | 397.30 | 37.91 | 58.81 | 6.36 | 62.91 | 97.59 | 10.55 | 112.91 | 175.16 | 18.93 | 112.91 | 175.16 | 18.93 | 40.97 | 54.77 |
| 41-919DD | Flash Gas Compressors Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| 41-307A, 41-307B | Glycol Pump | Glycol | 2.61 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| 41-207A, 41-207B | Lean Amine Booster Pump | Amine | 6.66 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| 41-216A, 41-216B | Amine Reflux Pump | Amine | 1.08 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |

# Full Startup SSM Emissions
**Targa Northern Delaware, LLC**

**Train 1**

| Train 1 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| 21-107 | Condensate Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 0.45 | <0.01 | 0.05 | <0.01 | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 21-110 | Overhead Compressor Interstage Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 0.08 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 21-602 | Expander/Compressor Discharge Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 21-604 | Sales Compression Interstage Discharge Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 21-607 | Sales Compression Discharge Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| HAL-42-15-U205, HAL-42-15-U206 | Flash Gas Compressor Intercooler / Aftercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 5.76 | <0.01 | 0.12 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.04 | 0.06 |
| 21-405 | Regen Gas Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 1.16 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | 0.01 |
| HZZ-1100 | Glycol Vapor Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 21-213 | Lean Amine Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 21-214 | Amine Stripper Reflux Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | 5.70 | 0.06 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 |
| 21-802A, 21-802B | Propane Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 127.51 | 0.18 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.86 | 1.42 |
| AC-1401 | Product Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 0.50 | <0.01 | 0.05 | <0.01 | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.01 | 0.01 |
| AC-1401 | Product Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 0.50 | <0.01 | 0.05 | <0.01 | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.01 | 0.01 |
| 42-108A, 42-108B | Stabilizer Overhead Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 1.13 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | 0.01 |
| 45-507 | Expander/Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 3.93 | <0.01 | 0.08 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.03 | 0.04 |
| 42-601A, 42-601B, 42-601C | Sales Gas Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 42-15-U205, 42-15-U206 | Flash Gas Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 50.68 | 0.07 | 1.08 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.34 | 0.56 |
| 42-801A, 42-801B | Propane Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 290.15 | 0.42 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 1.95 | 3.23 |
| F-009A, F-009B | Condensate Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 77.57 | 0.12 | 7.94 | <0.01 | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.59 | 0.98 |
| 26-217 | Amine Contactor Inlet Coalescing Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 2.65 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.02 | 0.03 |
| 26-401 | Inlet Filter/Separator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 2.02 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.01 | 0.02 |
| 26-403 | Inlet Dust Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 0.95 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | 0.01 |
| 26-520 | NGL/Water Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 2.93 | <0.01 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.02 | 0.03 |
| 26-115 | LPG/Water Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 11.47 | 0.02 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.08 | 0.13 |
| 26-305 | Glycol Charcoal Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 26-306 | Glycol Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F51-208, F51-209 | Lean Amine Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 26-208 | Amine Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 32-209 | Amine Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 26-210 | Amine Guard Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 26-703A, 26-703B | Hot Oil Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.02 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.02 | 0.02 |
| F-1101, F-1102 | Condensate Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 0.83 | <0.01 | 0.09 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.83 | 0.83 |
| F-1504 | Hot Oil Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| E-XXXX | Gas/Gas Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 4.54 | <0.01 | 0.10 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.03 | 0.05 |
| 21-106 | Condensate Stabilizer Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 1.89 | <0.01 | 0.19 | <0.01 | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.04 | 0.04 |
| 21-304 | Gas/Glycol Heat Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 0.73 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 21-503 | GSP Warm Gas/Gas Heat Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 5.58 | <0.01 | 0.12 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.04 | 0.06 |
| 21-511 | GSP Trim Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 46.50 | 0.07 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.31 | 0.52 |
| 21-501 | Demethanizer Bottom Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 6.15 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.04 | 0.07 |
| 21-502 | Demethanizer Side Tray Heat Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 24.91 | 0.04 | 0.53 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.17 | 0.28 |
| 21-505 | GSP Chiller | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 3.57 | <0.01 | 0.08 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.02 | 0.04 |
| 21-508 | GSP Subcooler Heat Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 21-404 | Regen Gas Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 2.14 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.01 | 0.02 |
| 21-308 | Glycol/Glycol Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 21-310 | Glycol Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.06 | <0.01 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 21-204, 21-204B | Lean/Rich Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 21-206 | Amine Stripper Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 |
| E-1201 | Feed/Bottoms Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 5.60 | 0.01 | 0.57 | <0.01 | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.11 | 0.11 |
| E-1203 | Deethanizer Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 10.92 | 0.02 | 1.12 | <0.01 | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.22 | 0.22 |
| E-1302 | Stabilizer Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 32.99 | 0.07 | 3.38 | <0.01 | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.66 | 0.66 |
| E-1701 | Pre-Heat Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 2.81 | <0.01 | 0.29 | <0.01 | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.06 | 0.06 |
| 23-704 | Hot Oil Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| H-1101 | Hot Oil Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.05 | <0.01 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 42-2500 | Truck Unloading Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 0.36 | <0.01 | 0.04 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.36 | 0.36 |
| P-1575 | Sour Stabilizer Rerun Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 0.36 | <0.01 | 0.04 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.36 | 0.36 |
| 41-512A, 41-512B | NGL Booster Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | -- | 13.63 | 0.02 | -- | -- | -- | -- | N | N/A | N/A | -- | 4.57 | 7.59 |
| 41-919DD | Flash Gas Compressors Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 41-307A, 41-307B | Glycol Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 41-207A, 41-207B | Lean Amine Booster Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 41-216A, 41-216B | Amine Reflux Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |

# Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Train 1**

| Train 1 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| 21-107 | Condensate Cooler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| 21-110 | Overhead Compressor Interstage Cooler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 |
| 21-602 | Expander/Compressor Discharge Cooler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 9.34 | 0.01 | 0.04 | <0.01 |
| 21-604 | Sales Compression Interstage Discharge Cooler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.20 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 12.10 | 0.02 | 0.05 | <0.01 |
| 21-607 | Sales Compression Discharge Cooler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.08 | <0.01 | 0.32 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 19.13 | 0.03 | 0.09 | <0.01 |
| HAL-42-15-U205, HAL-42-15-U206 | Flash Gas Compressor Intercooler / Aftercooler | 0.12 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.06 | <0.01 | 0.25 | <0.01 | 0.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.73 | <0.01 | 0.26 | <0.01 |
| 21-405 | Regen Gas Cooler | 0.02 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.05 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.35 | <0.01 | 0.05 | <0.01 |
| HZZ-1100 | Glycol Vapor Condenser | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21-213 | Lean Amine Cooler | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21-214 | Amine Stripper Reflux Cooler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 56.11 | 0.08 | <0.01 | <0.01 |
| 21-802A, 21-802B | Propane Condenser | 2.55 | 2.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.38 | <0.01 | 1.52 | <0.01 | 2.55 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-1401 | Product Cooler | 0.01 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| AC-1401 | Product Cooler | 0.01 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| 42-108A, 42-108B | Stabilizer Overhead Compressor | 0.02 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.06 | <0.01 | 0.02 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.64 | <0.01 | 0.06 | <0.01 |
| 45-507 | Expander/Compressor | 0.08 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | 0.17 | <0.01 | 0.08 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.18 | <0.01 | 0.18 | <0.01 |
| 42-601A, 42-601B, 42-601C | Sales Gas Compressor | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.21 | <0.01 | 0.86 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 50.54 | 0.07 | 0.23 | <0.01 |
| 42-15-U205, 42-15-U206 | Flash Gas Compressor | 1.01 | 1.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.55 | <0.01 | 2.19 | <0.01 | 1.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 15.18 | 0.02 | 2.28 | <0.01 |
| 42-801A, 42-801B | Propane Compressor | 5.80 | 5.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.87 | <0.01 | 3.45 | <0.01 | 5.80 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-009A, F-009B | Condensate Filter | 1.55 | 1.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.15 | <0.01 | 0.61 | <0.01 | 1.55 | <0.01 | -- | -- | -- | -- | 0.16 | <0.01 | -- | -- | -- | -- |
| 26-217 | Amine Contactor Inlet Coalescing Filter | 0.05 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | 0.11 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.79 | <0.01 | 0.12 | <0.01 |
| 26-401 | Inlet Filter/Separator | 0.04 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.61 | <0.01 | 0.09 | <0.01 |
| 26-403 | Inlet Dust Filter | 0.02 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.04 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.29 | <0.01 | 0.04 | <0.01 |
| 26-520 | NGL/Water Coalescer | 0.06 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.06 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| 26-115 | LPG/Water Coalescer | 0.23 | 0.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.08 | <0.01 | 0.23 | <0.01 | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | <0.01 | <0.01 |
| 26-305 | Glycol Charcoal Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-306 | Glycol Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F51-208, F51-209 | Lean Amine Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-208 | Amine Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-209 | Amine Carbon Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-210 | Amine Guard Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26-703A, 26-703B | Hot Oil Filter | 0.02 | 0.02 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1101, F-1102 | Condensate Filter | 0.83 | 0.83 | 0.83 | <0.01 | 0.08 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1504 | Hot Oil Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-XXXX | Gas/Gas Exchanger | 0.09 | 0.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.20 | <0.01 | 0.09 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.36 | <0.01 | 0.20 | <0.01 |
| 21-106 | Condensate Stabilizer Reboiler | 0.04 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.01 | <0.01 | 0.04 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| 21-304 | Gas/Glycol Heat Exchanger | 0.01 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.22 | <0.01 | 0.03 | <0.01 |
| 21-503 | GSP Warm Gas/Gas Heat Exchanger | 0.11 | 0.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.06 | <0.01 | 0.24 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.67 | <0.01 | 0.25 | <0.01 |
| 21-511 | GSP Trim Reboiler | 0.93 | 0.93 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.08 | <0.01 | 0.34 | <0.01 | 0.93 | <0.01 | -- | -- | -- | -- | -- | -- | 0.06 | <0.01 | <0.01 | <0.01 |
| 21-501 | Demethanizer Bottom Reboiler | 0.12 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.27 | <0.01 | 0.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.84 | <0.01 | 0.28 | <0.01 |
| 21-502 | Demethanizer Side Tray Heat Exchanger | 0.50 | 0.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.27 | <0.01 | 1.08 | <0.01 | 0.50 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 7.46 | 0.01 | 1.12 | <0.01 |
| 21-505 | GSP Chiller | 0.07 | 0.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | 0.15 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.07 | <0.01 | 0.16 | <0.01 |
| 21-508 | GSP Subcooler Heat Exchanger | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 11.22 | 0.02 | 0.05 | <0.01 |
| 21-404 | Regen Gas Heater | 0.04 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.64 | <0.01 | 0.10 | <0.01 |
| 21-308 | Glycol/Glycol Exchanger | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21-310 | Glycol Reboiler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21-204, 21-204B | Lean/Rich Exchanger | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21-206 | Amine Stripper Reboiler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-1201 | Feed/Bottoms Exchanger | 0.11 | 0.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.04 | <0.01 | 0.11 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- |
| E-1203 | Deethanizer Reboiler | 0.22 | 0.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.09 | <0.01 | 0.22 | <0.01 | -- | -- | -- | -- | 0.02 | <0.01 | -- | -- | -- | -- |
| E-1302 | Stabilizer Reboiler | 0.66 | 0.66 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.26 | <0.01 | 0.66 | <0.01 | -- | -- | -- | -- | 0.07 | <0.01 | -- | -- | -- | -- |
| E-1701 | Pre-Heat Exchanger | 0.06 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.06 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| 23-704 | Hot Oil Heater | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-1101 | Hot Oil Heater | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 42-2500 | Truck Unloading Pump | 0.36 | 0.36 | 0.36 | <0.01 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-1575 | Sour Stabilizer Rerun Pump | 0.36 | 0.36 | 0.36 | <0.01 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-512A, 41-512B | NGL Booster Pump | 13.63 | 13.63 | 13.63 | 0.02 | -- | -- | -- | -- | 0.02 | <0.01 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919DD | Flash Gas Compressors Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-307A, 41-307B | Glycol Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-207A, 41-207B | Lean Amine Booster Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-216A, 41-216B | Amine Reflux Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 1 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| 41-212A, 41-212B, 41-212C | Amine Circulation Pump | Amine | 12.53 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-XXXX | Propane Suction Scrubber Pump | Propane | 1.30 | 174.83 | 37.91 | 3.36 | 0.39 | 62.91 | 5.58 | 0.65 | 112.91 | 10.01 | 1.17 | 112.91 | 10.01 | 1.17 | 44.10 | 3.37 |
| 41-702A, 41-702B | Hot Oil Circulation Pump | Hot Oil | 11.92 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | 0.02 |
| 42-1002A, 42-1002B | Flare KO Drum Pumps | Condensate | 2.56 | 6.80 | 6.80 | 1.18 | 0.29 | 6.80 | 1.18 | 0.29 | 6.80 | 1.18 | 0.29 | 6.80 | 1.18 | 0.29 | 93.55 | 1.17 |
| P-41-516A, P-41-516B, P-41-516C | NGL Pipeline Pump | Y-Grade | 7.64 | 397.30 | 37.91 | 19.71 | 2.13 | 62.91 | 32.70 | 3.53 | 112.91 | 58.70 | 6.34 | 112.91 | 58.70 | 6.34 | 40.97 | 18.35 |
| 41-902A, 41-902B | Condensate Transfer Pump | Condensate | 9.55 | 6.80 | 6.80 | 4.42 | 1.09 | 6.80 | 4.42 | 1.09 | 6.80 | 4.42 | 1.09 | 6.80 | 4.42 | 1.09 | 93.55 | 4.36 |
| 41-903A, 41-903B | NGL Truck Unloading Pump | Condensate | 9.55 | 6.80 | 6.80 | 4.42 | 1.09 | 6.80 | 4.42 | 1.09 | 6.80 | 4.42 | 1.09 | 6.80 | 4.42 | 1.09 | 93.55 | 4.36 |
| P-69100, P-69150 | Condensate Transfer Pump | Condensate | 9.55 | 6.80 | 6.80 | 4.42 | 1.09 | 6.80 | 4.42 | 1.09 | 6.80 | 4.42 | 1.09 | 6.80 | 4.42 | 1.09 | 93.55 | 4.36 |
| 41-910 | TEG Make-up Pump | Glycol | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| 41-907 | Amine Make-up Pump | Amine | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| 41-918 | Hot Oil Make-up Pump | Hot Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| 41-919A, 41-919B, 41-919C | Sump Pump | Lube Oil | 3.84 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| 41-919D, 41-919E, 41-919F | Sump Pump | Glycol | 3.84 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| 41-919G, 41-919H, 41-919J | Sump Pump | Lube Oil | 5.12 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| 41-919K, 41-919L, 41-919M | Sump Pump | Amine | 3.84 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| 41-919N, 41-919P, 41-919R | Sump Pump | Lube Oil | 3.84 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| 41-919S, 41-919T, 41-919U | Sump Pump | Hot Oil | 3.84 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| 41-919V, 41-919W, 41-919X | Sump Pump | Lube Oil | 3.84 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| 41-919Y, 41-919Z | Sump Pump | Lube Oil | 5.12 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-XXXX, P-XXXX, P-XXXX, P-XXXX | Sump Pump | Lube Oil | 5.12 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-1502, P-1503 | Hot Oil Pump | Hot Oil | 11.92 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | 0.02 |
| P-1802, P-1803 | LPG Booster Pump | Y-Grade | 9.55 | 397.30 | 37.91 | 24.63 | 2.66 | 62.91 | 40.88 | 4.42 | 112.91 | 73.36 | 7.93 | 112.91 | 73.36 | 7.93 | 40.97 | 22.94 |
| P-1804, P-1805 | LPG Main Solution Pump | Y-Grade | 5.09 | 397.30 | 37.91 | 13.14 | 1.42 | 62.91 | 21.80 | 2.36 | 112.91 | 39.13 | 4.23 | 112.91 | 39.13 | 4.23 | 40.97 | 12.24 |
| P-XXXX1 | Pig Receiver Pump | Condensate | 1.28 | 6.80 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 93.55 | 0.58 |
| P-XXXX2 | Pig Receiver Pump | Condensate | 1.28 | 6.80 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 93.55 | 0.58 |
| ST-U205 | Flash Gas Compressors Sump Tank | Lube Oil | 73.52 | 0.01 | 0.01 | 0.05 | 0.03 | 0.01 | 0.05 | 0.03 | 0.01 | 0.05 | 0.03 | 0.01 | 0.05 | 0.03 | 200.00 | 0.11 |
| 33-909 | TEG Storage Tank | Glycol | 746.44 | 0.01 | 0.01 | 0.51 | 0.20 | 0.01 | 0.51 | 0.20 | 0.01 | 0.51 | 0.20 | 0.01 | 0.51 | 0.20 | 150.17 | 0.81 |
| 33-906 | Amine Storage Tank | Amine | 746.44 | 0.01 | 0.01 | 0.51 | 0.14 | 0.01 | 0.51 | 0.14 | 0.01 | 0.51 | 0.14 | 0.01 | 0.51 | 0.14 | 105.14 | 0.56 |
| 33-515 | Expander Methanol Tank | Methanol | 36.76 | 4.05 | 4.05 | 10.14 | 0.86 | 4.05 | 10.14 | 0.86 | 4.05 | 10.14 | 0.86 | 4.05 | 10.14 | 0.86 | 32.04 | 3.43 |
| 33-905 | Hot Oil Storage Tank | Hot Oil | 746.44 | 0.01 | 0.01 | 0.51 | 0.27 | 0.01 | 0.51 | 0.27 | 0.01 | 0.51 | 0.27 | 0.01 | 0.51 | 0.27 | 200.00 | 1.07 |
| TK-XXXX | Open Drain Storage Tank | Lube Oil | 6,641.96 | 0.01 | 0.01 | 4.52 | 2.38 | 0.01 | 4.52 | 2.38 | 0.01 | 4.52 | 2.38 | 0.01 | 4.52 | 2.38 | 200.00 | 9.54 |
| 33-1601 | PSV-1601 Relief Knock-Out | Hot Oil | 89.34 | 0.01 | 0.01 | 0.06 | 0.03 | 0.01 | 0.06 | 0.03 | 0.01 | 0.06 | 0.03 | 0.01 | 0.06 | 0.03 | 200.00 | 0.13 |
| TK-20101, TK-20102, TK-20103, TK-20104, TK-20105, TK-20106 | Condensate Tank | Condensate | 19,925.87 | 6.80 | 6.80 | 9219.92 | 2275.68 | 6.80 | 9219.92 | 2275.68 | 6.80 | 9219.92 | 2275.68 | 6.80 | 9219.92 | 2275.68 | 93.55 | 9102.74 |
| TK-20107, TK-20108, TK-20109, TK-20110, TK-20111, TK-20112 | Condensate Tank | Condensate | 19,925.87 | 6.80 | 6.80 | 9219.92 | 2275.68 | 6.80 | 9219.92 | 2275.68 | 6.80 | 9219.92 | 2275.68 | 6.80 | 9219.92 | 2275.68 | 93.55 | 9102.74 |
| 31-105 | Condensate Sour Stabilizer | Condensate | 131.21 | 6.80 | 6.80 | 60.71 | 14.99 | 6.80 | 60.71 | 14.99 | 6.80 | 60.71 | 14.99 | 6.80 | 60.71 | 14.99 | 93.55 | 59.94 |
| 31-201 | Amine Contactor | Inlet Gas | 1,166.32 | - | 37.91 | 3008.65 | 180.47 | 62.91 | 4992.72 | 299.49 | 112.91 | 8960.86 | 537.52 | 112.91 | 8960.86 | 537.52 | 22.73 | 1555.00 |
| 31-301 | TEG Absorber | Inlet Gas | 338.66 | - | 37.91 | 873.62 | 52.40 | 62.91 | 1449.74 | 86.96 | 112.91 | 2601.97 | 156.08 | 112.91 | 2601.97 | 156.08 | 22.73 | 451.53 |
| 31-509 | Demethanizer | Residue Gas | 970.51 | - | 37.91 | 2503.54 | 118.05 | 62.91 | 4154.51 | 195.89 | 112.91 | 7456.47 | 351.59 | 112.91 | 7456.47 | 351.59 | 17.87 | 1017.12 |
| 31-205 | Amine Stripper | Low C Acid Gas | 1,490.29 | - | 37.91 | 3844.38 | 429.34 | 62.91 | 6379.58 | 712.47 | 112.91 | 11449.99 | 1278.74 | 112.91 | 11449.99 | 1278.74 | 42.33 | 3699.28 |
| T-1202 | Deethanizer Tower | Inlet Gas | 388.77 | - | 37.91 | 1002.88 | 60.16 | 62.91 | 1664.24 | 99.83 | 112.91 | 2986.95 | 179.17 | 112.91 | 2986.95 | 179.17 | 22.73 | 518.33 |
| T-1301 | Stabilizer Tower | Y-Grade | 1,306.71 | 397.30 | 37.91 | 3370.80 | 364.35 | 62.91 | 5593.69 | 604.62 | 112.91 | 10039.48 | 1085.16 | 112.91 | 10039.48 | 1085.16 | 40.97 | 3139.27 |
| 32-101, 32-101B | Inlet Slug Catcher | Inlet Gas | 14,822.50 | - | 37.91 | 38236.32 | 2293.62 | 62.91 | 63451.52 | 3806.16 | 112.91 | 113881.90 | 6831.24 | 112.91 | 113881.90 | 6831.24 | 22.73 | 19762.26 |
| 32-901A | Condensate Surge Vessel | Condensate | 12,864.62 | 6.80 | 6.80 | 5952.60 | 1469.24 | 6.80 | 5952.60 | 1469.24 | 6.80 | 5952.60 | 1469.24 | 6.80 | 5952.60 | 1469.24 | 93.55 | 5876.95 |
| 32-104 | Sour Stabilizer Feed Separator | Sour Inlet Gas (B&S) | 221.17 | - | 37.91 | 570.53 | 36.23 | 62.91 | 946.77 | 60.12 | 112.91 | 1699.24 | 107.90 | 112.91 | 1699.24 | 107.90 | 24.07 | 312.16 |
| 32-111 | Stabilizer OH Compressor Suction Scrubber | Sour Inlet Gas (B&S) | 62.20 | - | 37.91 | 160.46 | 10.19 | 62.91 | 266.28 | 16.91 | 112.91 | 477.91 | 30.35 | 112.91 | 477.91 | 30.35 | 24.07 | 87.79 |
| 32-112 | Overhead Compressor Interstage Scrubber | Sour Inlet Gas (B&S) | 62.20 | - | 37.91 | 160.46 | 10.19 | 62.91 | 266.28 | 16.91 | 112.91 | 477.91 | 30.35 | 112.91 | 477.91 | 30.35 | 24.07 | 87.79 |
| 32-202 | Amine Overhead Scrubber | Inlet Gas | 139.96 | - | 37.91 | 361.04 | 21.66 | 62.91 | 599.13 | 35.94 | 112.91 | 1075.30 | 64.50 | 112.91 | 1075.30 | 64.50 | 22.73 | 186.60 |
| 32-402A, 32-402B | Molecular Sieve Dehydration Bed | Inlet Gas | 518.36 | - | 37.91 | 1337.18 | 80.21 | 62.91 | 2218.98 | 133.11 | 112.91 | 3982.60 | 238.90 | 112.91 | 3982.60 | 238.90 | 22.73 | 691.11 |
| 32-504 | GSP Warm Separator | Inlet Gas | 127.00 | - | 37.91 | 327.61 | 19.65 | 62.91 | 543.65 | 32.61 | 112.91 | 975.74 | 58.53 | 112.91 | 975.74 | 58.53 | 22.73 | 169.32 |
| 32-805 | Propane Standpipe | Propane | 155.51 | 174.83 | 37.91 | 401.15 | 46.67 | 62.91 | 665.70 | 77.45 | 112.91 | 1194.78 | 139.01 | 112.91 | 1194.78 | 139.01 | 44.10 | 402.16 |
| 32-506 | GSP Cold Separator | Inlet Gas | 165.88 | - | 37.91 | 427.90 | 25.67 | 62.91 | 710.08 | 42.59 | 112.91 | 1274.43 | 76.45 | 112.91 | 1274.43 | 76.45 | 22.73 | 221.16 |
| 32-513 | Booster Compressor Suction Scrubber | Residue Gas | 54.43 | - | 37.91 | 140.40 | 6.62 | 62.91 | 232.99 | 10.99 | 112.91 | 418.17 | 19.72 | 112.91 | 418.17 | 19.72 | 17.87 | 57.04 |
| 32-510 | NGL Surge Tank | Y-Grade | 9,215.34 | 397.30 | 37.91 | 23772.01 | 2569.49 | 62.91 | 39448.62 | 4263.96 | 112.91 | 70801.84 | 7652.89 | 112.91 | 70801.84 | 7652.89 | 40.97 | 22139.23 |
| 32-603 | Sales Compressor Suction Scrubber | Residue Gas | 62.20 | - | 37.91 | 160.46 | 7.57 | 62.91 | 266.28 | 12.56 | 112.91 | 477.91 | 22.53 | 112.91 | 477.91 | 22.53 | 17.87 | 65.19 |
| 32-605 | Sales Compressor Interstage Scrubber | Residue Gas | 43.20 | - | 37.91 | 111.43 | 5.25 | 62.91 | 184.92 | 8.72 | 112.91 | 331.88 | 15.65 | 112.91 | 331.88 | 15.65 | 17.87 | 45.27 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 1 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| 41-212A, 41-212B, 41-212C | Amine Circulation Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-XXXX | Propane Suction Scrubber Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 1.17 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.39 | 0.65 |
| 41-702A, 41-702B | Hot Oil Circulation Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 42-1002A, 42-1002B | Flare KO Drum Pumps | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 0.28 | <0.01 | 0.03 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.28 | 0.28 |
| P-41-516A, P-41-516B, P-41-516C | NGL Pipeline Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | -- | 4.57 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 1.53 | 2.54 |
| 41-902A, 41-902B | Condensate Transfer Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 1.04 | <0.01 | 0.11 | <0.01 | -- | -- | N | N/A | N/A | -- | 1.04 | 1.04 |
| 41-903A, 41-903B | NGL Truck Unloading Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 1.04 | <0.01 | 0.11 | <0.01 | -- | -- | N | N/A | N/A | -- | 1.04 | 1.04 |
| P-69100, P-69150 | Condensate Transfer Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 1.04 | <0.01 | 0.11 | <0.01 | -- | -- | N | N/A | N/A | -- | 1.04 | 1.04 |
| 41-910 | TEG Make-up Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 41-907 | Amine Make-up Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 41-918 | Hot Oil Make-up Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 41-919A, 41-919B, 41-919C | Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 41-919D, 41-919E, 41-919F | Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 41-919G, 41-919H, 41-919J | Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 41-919K, 41-919L, 41-919M | Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 41-919N, 41-919P, 41-919R | Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 41-919S, 41-919T, 41-919U | Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 41-919V, 41-919W, 41-919X | Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 41-919Y, 41-919Z | Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-XXXX, P-XXXX, P-XXXX, P-XXXX | Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-1502, P-1503 | Hot Oil Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-1802, P-1803 | LPG Booster Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | -- | 5.71 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 1.92 | 3.18 |
| P-1804, P-1805 | LPG Main Solution Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | -- | 3.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 1.02 | 1.70 |
| P-XXXX1 | Pig Receiver Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.14 | 0.14 |
| P-XXXX2 | Pig Receiver Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.14 | 0.14 |
| ST-U205 | Flash Gas Compressors Sump Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.03 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.03 | 0.03 |
| 33-909 | TEG Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.20 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.20 | 0.20 |
| 33-906 | Amine Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| 33-515 | Expander Methanol Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.86 | <0.01 | 0.86 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.86 | 0.86 |
| 33-905 | Hot Oil Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.27 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.27 | 0.27 |
| TK-XXXX | Open Drain Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 2.38 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 2.38 | 2.38 |
| 33-1601 | PSV-1601 Relief Knock-Out | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.03 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.03 | 0.03 |
| TK-20101, TK-20102, TK-20103, TK-20104, TK-20105, TK-20106 | Condensate Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 2,172.57 | 4.35 | 222.47 | 0.11 | -- | -- | Y | Flare | RH1-FL-2850 | 98 | 43.45 | 43.45 |
| TK-20107, TK-20108, TK-20109, TK-20110, TK-20111, TK-20112 | Condensate Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 2,172.57 | 4.35 | 222.47 | 0.11 | -- | -- | Y | Flare | RH1-FL-2850 | 98 | 43.45 | 43.45 |
| 31-105 | Condensate Sour Stabilizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 14.31 | 0.03 | 1.46 | <0.01 | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.29 | 0.29 |
| 31-201 | Amine Contactor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 125.00 | 0.18 | 2.66 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.84 | 1.39 |
| 31-301 | TEG Absorber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 36.30 | 0.05 | 0.77 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.24 | 0.40 |
| 31-509 | Demethanizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | 0.02 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 31-205 | Amine Stripper | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | 5.70 | 1.33 | <0.01 | 0.82 | <0.01 | 0.09 | <0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 |
| T-1202 | Deethanizer Tower | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 41.67 | 0.06 | 0.89 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.28 | 0.46 |
| T-1301 | Stabilizer Tower | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 780.99 | 1.13 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 5.24 | 8.70 |
| 32-101, 32-101B | Inlet Slug Catcher | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 1,588.55 | 2.30 | 33.81 | 0.02 | 0.04 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 10.67 | 17.70 |
| 32-901A | Condensate Surge Vessel | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 1,402.67 | 2.81 | 143.63 | 0.07 | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 28.05 | 28.05 |
| 32-104 | Sour Stabilizer Feed Separator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 20.39 | 0.03 | 0.31 | <0.01 | 0.37 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.14 | 0.23 |
| 32-111 | Stabilizer OH Compressor Suction Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 5.73 | <0.01 | 0.09 | <0.01 | 0.10 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.04 | 0.06 |
| 32-112 | Overhead Compressor Interstage Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 5.73 | <0.01 | 0.09 | <0.01 | 0.10 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.04 | 0.06 |
| 32-202 | Amine Overhead Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 15.00 | 0.02 | 0.32 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.10 | 0.17 |
| 32-402A, 32-402B | Molecular Sieve Dehydration Bed | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 55.55 | 0.08 | 1.18 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.37 | 0.62 |
| 32-504 | GSP Warm Separator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 13.61 | 0.02 | 0.29 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.09 | 0.15 |
| 32-805 | Propane Standpipe | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 139.01 | 0.20 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.93 | 1.55 |
| 32-506 | GSP Cold Separator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 17.78 | 0.03 | 0.38 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.12 | 0.20 |
| 32-513 | Booster Compressor Suction Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 32-510 | NGL Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 5,507.79 | 7.97 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 36.99 | 61.38 |
| 32-603 | Sales Compressor Suction Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 32-605 | Sales Compressor Interstage Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 1 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| 41-212A, 41-212B, 41-212C | Amine Circulation Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-XXXX | Propane Suction Scrubber Pump | 1.17 | 1.17 | 1.17 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-702A, 41-702B | Hot Oil Circulation Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 42-1002A, 42-1002B | Flare KO Drum Pumps | 0.28 | 0.28 | 0.28 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-41-516A, P-41-516B, P-41-516C | NGL Pipeline Pump | 4.57 | 4.57 | 4.57 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-902A, 41-902B | Condensate Transfer Pump | 1.04 | 1.04 | 1.04 | <0.01 | 0.10 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-903A, 41-903B | NGL Truck Unloading Pump | 1.04 | 1.04 | 1.04 | <0.01 | 0.10 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-69100, P-69150 | Condensate Transfer Pump | 1.04 | 1.04 | 1.04 | <0.01 | 0.10 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-910 | TEG Make-up Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-907 | Amine Make-up Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-918 | Hot Oil Make-up Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919A, 41-919B, 41-919C | Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919D, 41-919E, 41-919F | Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919G, 41-919H, 41-919J | Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919K, 41-919L, 41-919M | Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919N, 41-919P, 41-919R | Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919S, 41-919T, 41-919U | Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919V, 41-919W, 41-919X | Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 41-919Y, 41-919Z | Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-XXXX, P-XXXX, P-XXXX, P-XXXX | Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-1502, P-1503 | Hot Oil Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-1802, P-1803 | LPG Booster Pump | 5.71 | 5.71 | 5.71 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-1804, P-1805 | LPG Main Solution Pump | 3.04 | 3.04 | 3.04 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-XXXX1 | Pig Receiver Pump | 0.14 | 0.14 | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-XXXX2 | Pig Receiver Pump | 0.14 | 0.14 | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ST-U205 | Flash Gas Compressors Sump Tank | 0.03 | 0.03 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 33-909 | TEG Storage Tank | 0.20 | 0.20 | 0.20 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 33-906 | Amine Storage Tank | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 33-515 | Expander Methanol Tank | 0.86 | 0.86 | 0.86 | <0.01 | 0.86 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 33-905 | Hot Oil Storage Tank | 0.27 | 0.27 | 0.27 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-XXXX | Open Drain Storage Tank | 2.38 | 2.38 | 2.38 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 33-1601 | PSV-1601 Relief Knock-Out | 0.03 | 0.03 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-20101, TK-20102, TK-20103, TK-20104, TK-20105, TK-20106 | Condensate Tank | 43.45 | 43.45 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.32 | <0.01 | 17.20 | 0.03 | 43.45 | 0.09 | -- | -- | -- | -- | 4.45 | <0.01 | -- | -- | -- | -- |
| TK-20107, TK-20108, TK-20109, TK-20110, TK-20111, TK-20112 | Condensate Tank | 43.45 | 43.45 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.32 | <0.01 | 17.20 | 0.03 | 43.45 | 0.09 | -- | -- | -- | -- | 4.45 | <0.01 | -- | -- | -- | -- |
| 31-105 | Condensate Sour Stabilizer | 0.29 | 0.29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | 0.11 | <0.01 | 0.29 | <0.01 | -- | -- | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- |
| 31-201 | Amine Contactor | 2.50 | 2.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.36 | <0.01 | 5.40 | <0.01 | 2.50 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | 37.43 | 0.05 | 5.62 | <0.01 |
| 31-301 | TEG Absorber | 0.73 | 0.73 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.39 | <0.01 | 1.57 | <0.01 | 0.73 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 10.87 | 0.02 | 1.63 | <0.01 |
| 31-509 | Demethanizer | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.16 | <0.01 | 4.61 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 272.65 | 0.39 | 1.22 | <0.01 |
| 31-205 | Amine Stripper | 0.01 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | 0.05 | <0.01 | 0.03 | 0.01 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1,241.60 | 1.80 | 0.01 | <0.01 |
| T-1202 | Deethanizer Tower | 0.83 | 0.83 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.45 | <0.01 | 1.80 | <0.01 | 0.83 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 12.48 | 0.02 | 1.87 | <0.01 |
| T-1301 | Stabilizer Tower | 15.62 | 15.62 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.41 | <0.01 | 5.63 | <0.01 | 15.62 | 0.02 | -- | -- | -- | -- | -- | -- | 0.99 | <0.01 | 0.02 | <0.01 |
| 32-101, 32-101B | Inlet Slug Catcher | 31.77 | 31.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17.25 | 0.02 | 68.69 | 0.10 | 31.77 | 0.05 | 0.07 | <0.01 | <0.01 | <0.01 | 0.68 | <0.01 | 475.68 | 0.69 | 71.37 | 0.10 |
| 32-901A | Condensate Surge Vessel | 28.05 | 28.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.79 | <0.01 | 11.11 | 0.02 | 28.05 | 0.06 | -- | -- | -- | -- | 2.87 | <0.01 | -- | -- | -- | -- |
| 32-104 | Sour Stabilizer Feed Separator | 0.41 | 0.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.27 | <0.01 | 1.09 | <0.01 | 0.41 | <0.01 | 0.68 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 11.50 | 0.02 | 1.18 | <0.01 |
| 32-111 | Stabilizer OH Compressor Suction Scrubber | 0.11 | 0.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.08 | <0.01 | 0.31 | <0.01 | 0.11 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.24 | <0.01 | 0.33 | <0.01 |
| 32-112 | Overhead Compressor Interstage Scrubber | 0.11 | 0.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.08 | <0.01 | 0.31 | <0.01 | 0.11 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.24 | <0.01 | 0.33 | <0.01 |
| 32-202 | Amine Overhead Scrubber | 0.30 | 0.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.16 | <0.01 | 0.65 | <0.01 | 0.30 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.49 | <0.01 | 0.67 | <0.01 |
| 32-402A, 32-402B | Molecular Sieve Dehydration Bed | 1.11 | 1.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.60 | <0.01 | 2.40 | <0.01 | 1.11 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 16.64 | 0.02 | 2.50 | <0.01 |
| 32-504 | GSP Warm Separator | 0.27 | 0.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.15 | <0.01 | 0.59 | <0.01 | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.08 | <0.01 | 0.61 | <0.01 |
| 32-805 | Propane Standpipe | 2.78 | 2.78 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.41 | <0.01 | 1.65 | <0.01 | 2.78 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-506 | GSP Cold Separator | 0.36 | 0.36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.19 | <0.01 | 0.77 | <0.01 | 0.36 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.32 | <0.01 | 0.80 | <0.01 |
| 32-513 | Booster Compressor Suction Scrubber | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.06 | <0.01 | 0.26 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 15.29 | 0.02 | 0.07 | <0.01 |
| 32-510 | NGL Surge Tank | 110.16 | 110.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.97 | 0.01 | 39.69 | 0.06 | 110.16 | 0.16 | -- | -- | -- | -- | -- | -- | 6.96 | 0.01 | 0.13 | <0.01 |
| 32-603 | Sales Compressor Suction Scrubber | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.30 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 17.48 | 0.03 | 0.08 | <0.01 |
| 32-605 | Sales Compressor Interstage Scrubber | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 12.14 | 0.02 | 0.05 | <0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 1 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| 32-606 | Sales Compressor Discharge Scrubber | Residue Gas | 54.00 | - | 37.91 | 139.29 | 6.57 | 62.91 | 231.14 | 10.90 | 112.91 | 414.85 | 19.56 | 112.91 | 414.85 | 19.56 | 17.87 | 56.59 |
| 32-407 | Regen Gas Scrubber | Inlet Gas | 27.65 | - | 37.91 | 71.32 | 4.28 | 62.91 | 118.35 | 7.10 | 112.91 | 212.41 | 12.74 | 112.91 | 212.41 | 12.74 | 22.73 | 36.86 |
| 32-303 | Glycol Flash Tank | Glycol | 27.65 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 150.17 | 0.03 |
| 31-309 | Glycol Stahl Column | Glycol | 6.93 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| 32-311 | Glycol Surge Tank | Glycol | 211.66 | 0.01 | 0.01 | 0.14 | 0.06 | 0.01 | 0.14 | 0.06 | 0.01 | 0.14 | 0.06 | 0.01 | 0.14 | 0.06 | 150.17 | 0.23 |
| V-110 | Glycol Still Column/Reflux Condenser | Glycol | 18.81 | 0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 150.17 | 0.02 |
| 32-203 | Rich Amine Flash Tank | Amine | 522.68 | 0.01 | 0.01 | 0.36 | 0.10 | 0.01 | 0.36 | 0.10 | 0.01 | 0.36 | 0.10 | 0.01 | 0.36 | 0.10 | 105.14 | 0.39 |
| 32-215 | Amine Reflux Accumulator | Low C Acid Gas | 215.98 | - | 37.91 | 557.16 | 62.22 | 62.91 | 924.58 | 103.26 | 112.91 | 1659.42 | 185.32 | 112.91 | 1659.42 | 185.32 | 42.33 | 536.13 |
| 32-211 | Amine Surge Drum | Amine | 931.33 | 0.01 | 0.01 | 0.63 | 0.18 | 0.01 | 0.63 | 0.18 | 0.01 | 0.63 | 0.18 | 0.01 | 0.63 | 0.18 | 105.14 | 0.70 |
| 32-806 | Propane Suction Scrubber | Propane | 43.20 | 174.83 | 37.91 | 111.43 | 12.97 | 62.91 | 184.92 | 21.52 | 112.91 | 331.88 | 38.61 | 112.91 | 331.88 | 38.61 | 44.10 | 111.71 |
| 32-803 | Propane Accumulator | Propane | 933.05 | 174.83 | 37.91 | 2406.92 | 280.05 | 62.91 | 3994.17 | 464.73 | 112.91 | 7168.69 | 834.08 | 112.91 | 7168.69 | 834.08 | 44.10 | 2412.94 |
| 32-804 | Propane Economizer | Propane | 148.17 | 174.83 | 37.91 | 382.21 | 44.47 | 62.91 | 634.26 | 73.80 | 112.91 | 1138.36 | 132.45 | 112.91 | 1138.36 | 132.45 | 44.10 | 383.17 |
| 32-701 | Hot Oil Surge Drum | Hot Oil | 1,244.07 | 0.01 | 0.01 | 0.85 | 0.45 | 0.01 | 0.85 | 0.45 | 0.01 | 0.85 | 0.45 | 0.01 | 0.85 | 0.45 | 200.00 | 1.79 |
| 32-1003 | Flare KO Drum | Inlet Gas | 746.44 | - | 37.91 | 1925.53 | 115.50 | 62.91 | 3195.34 | 191.67 | 112.91 | 5734.95 | 344.01 | 112.91 | 5734.95 | 344.01 | 22.73 | 995.20 |
| 32-901B, 32-901C, 32-901D, 32-901E | Bullet Tank | Condensate | 55,230.12 | 6.80 | 6.80 | 25555.58 | 6307.70 | 6.80 | 25555.58 | 6307.70 | 6.80 | 25555.58 | 6307.70 | 6.80 | 25555.58 | 6307.70 | 93.55 | 25230.79 |
| 32-1301 | Fuel Gas Scrubber | Residue Gas | 15.55 | - | 37.91 | 40.12 | 1.89 | 62.91 | 66.57 | 3.14 | 112.91 | 119.48 | 5.63 | 112.91 | 119.48 | 5.63 | 17.87 | 16.30 |
| 32-1301B | Fuel Gas Scrubber | Residue Gas | 27.65 | - | 37.91 | 71.32 | 3.36 | 62.91 | 118.35 | 5.58 | 112.91 | 212.41 | 10.02 | 112.91 | 212.41 | 10.02 | 17.87 | 28.97 |
| 32-1201 | Closed Drain 3 Phase Separator | Inlet Gas | 105.98 | - | 37.91 | 273.38 | 16.40 | 62.91 | 453.66 | 27.21 | 112.91 | 814.22 | 48.84 | 112.91 | 814.22 | 48.84 | 22.73 | 141.29 |
| V-1501 | Hot Oil Expansion Tank | Hot Oil | 261.34 | 0.01 | 0.01 | 0.18 | 0.09 | 0.01 | 0.18 | 0.09 | 0.01 | 0.18 | 0.09 | 0.01 | 0.18 | 0.09 | 200.00 | 0.38 |
| V-1702 | Stabilizer Feed Separator | Condensate | 431.97 | 6.80 | 6.80 | 199.88 | 49.33 | 6.80 | 199.88 | 49.33 | 6.80 | 199.88 | 49.33 | 6.80 | 199.88 | 49.33 | 93.55 | 197.34 |
| V-1801 | LPG Surge Tank | Y-Grade | 4,885.44 | 397.30 | 37.91 | 12602.54 | 1362.19 | 62.91 | 20913.37 | 2260.50 | 112.91 | 37535.03 | 4057.12 | 112.91 | 37535.03 | 4057.12 | 40.97 | 11736.94 |

*Activity durations are conservative estimates.

**Train 2**

| Train 2 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| AC-0501, AC-0502, AC-0503 | Amine Cooler | Amine | 635.59 | 0.01 | 0.01 | 0.43 | 0.12 | 0.01 | 0.43 | 0.12 | 0.01 | 0.43 | 0.12 | 0.01 | 0.43 | 0.12 | 105.14 | 0.48 |
| A-361A, A-361B, A-361C, A-361D | Refrigerant Condenser | Propane | 250.84 | 174.83 | 37.91 | 647.08 | 75.29 | 62.91 | 1073.80 | 124.94 | 112.91 | 1927.25 | 224.24 | 112.91 | 1927.25 | 224.24 | 44.10 | 648.70 |
| AC-0601, AC-0602 | Reflux Condenser | Low C Acid Gas | 237.16 | - | 37.91 | 611.78 | 68.32 | 62.91 | 1015.22 | 113.38 | 112.91 | 1822.11 | 203.49 | 112.91 | 1822.11 | 203.49 | 42.33 | 588.69 |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | - | 37.91 | 360.94 | 17.02 | 62.91 | 598.96 | 28.24 | 112.91 | 1075.01 | 50.69 | 112.91 | 1075.01 | 50.69 | 17.87 | 146.64 |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | Residue Gas | 126.72 | - | 37.91 | 326.89 | 15.41 | 62.91 | 542.46 | 25.58 | 112.91 | 973.60 | 45.91 | 112.91 | 973.60 | 45.91 | 17.87 | 132.81 |
| A-161, A-162, A-163 | Refrigerant Compressor Lube Oil Cooler | Lube Oil | 62.70 | 0.01 | 0.01 | 0.04 | 0.02 | 0.01 | 0.04 | 0.02 | 0.01 | 0.04 | 0.02 | 0.01 | 0.04 | 0.02 | 200.00 | 0.09 |
| A-301 | Expander Compressor Aftercooler | Residue Gas | 56.19 | - | 37.91 | 144.94 | 6.83 | 62.91 | 240.53 | 11.34 | 112.91 | 431.69 | 20.36 | 112.91 | 431.69 | 20.36 | 17.87 | 58.89 |
| A-341 | Regen Gas Cooler | Inlet Gas | 19.47 | - | 37.91 | 50.23 | 3.01 | 62.91 | 83.35 | 5.00 | 112.91 | 149.59 | 8.97 | 112.91 | 149.59 | 8.97 | 22.73 | 25.96 |
| AC-2501 | TEG Cooler | Glycol | 8.71 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| AC-2502 | TEG Condenser | Glycol | 3.47 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1,011.48 | - | 37.91 | 2609.23 | 123.03 | 62.91 | 4329.91 | 204.17 | 112.91 | 7771.26 | 366.43 | 112.91 | 7771.26 | 366.43 | 17.87 | 1060.06 |
| C-161, C-162, C-163 | Refrigerant Compressor | Propane | 973.73 | 174.83 | 37.91 | 2511.86 | 292.26 | 62.91 | 4168.32 | 484.99 | 112.91 | 7481.24 | 870.45 | 112.91 | 7481.24 | 870.45 | 44.10 | 2518.14 |
| EC-101 | Expander/Compressor | Inlet Gas | 122.34 | - | 37.91 | 315.60 | 18.93 | 62.91 | 523.73 | 31.42 | 112.91 | 939.98 | 56.38 | 112.91 | 939.98 | 56.38 | 22.73 | 163.12 |
| C-141 | Regen Gas Compressor | Inlet Gas | 2.54 | - | 37.91 | 6.55 | 0.39 | 62.91 | 10.87 | 0.65 | 112.91 | 19.51 | 1.17 | 112.91 | 19.51 | 1.17 | 22.73 | 3.39 |
| F-0201, F-0202 | Amine Carbon Filter | Amine | 1,105.84 | 0.01 | 0.01 | 0.75 | 0.21 | 0.01 | 0.75 | 0.21 | 0.01 | 0.75 | 0.21 | 0.01 | 0.75 | 0.21 | 105.14 | 0.83 |
| F-1225 | Amine Inlet Gas Filter Coalescer | Inlet Gas | 233.55 | - | 37.91 | 602.47 | 36.14 | 62.91 | 999.78 | 59.97 | 112.91 | 1794.38 | 107.64 | 112.91 | 1794.38 | 107.64 | 22.73 | 311.38 |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | Inlet Gas | 233.55 | - | 37.91 | 602.47 | 36.14 | 62.91 | 999.78 | 59.97 | 112.91 | 1794.38 | 107.64 | 112.91 | 1794.38 | 107.64 | 22.73 | 311.38 |
| F-441 | Inlet Filter Coalescer | Inlet Gas | 134.77 | - | 37.91 | 347.67 | 20.85 | 62.91 | 576.94 | 34.61 | 112.91 | 1035.48 | 62.11 | 112.91 | 1035.48 | 62.11 | 22.73 | 179.69 |
| F-2202 | TEG Carbon Filter | Glycol | 105.83 | 0.01 | 0.01 | 0.07 | 0.03 | 0.01 | 0.07 | 0.03 | 0.01 | 0.07 | 0.03 | 0.01 | 0.07 | 0.03 | 150.17 | 0.11 |
| F-0203, F-0204 | Amine Rich Solids Filter | Amine | 63.36 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 105.14 | 0.05 |
| F-445, F-446 | Mol Sieve Dust Filter | Inlet Gas | 62.72 | - | 37.91 | 161.78 | 9.70 | 62.91 | 268.47 | 16.10 | 112.91 | 481.85 | 28.90 | 112.91 | 481.85 | 28.90 | 22.73 | 83.62 |
| F-0200 | Pre-Carbon Solids Filter | Amine | 31.68 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 105.14 | 0.02 |
| F-0305 | Amine Lean Solids Filter | Amine | 31.68 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 105.14 | 0.02 |
| F-0805 | Hot Oil Filter | Hot Oil | 24.25 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 200.00 | 0.03 |
| F-2201 | TEG Pre-Carbon Filter | Glycol | 1.60 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| F-2203 | TEG Rich Soilds Filter | Glycol | 1.60 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| F-2401 | TEG Lean Soilds Filter | Glycol | 1.60 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 1 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| 32-606 | Sales Compressor Discharge Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 32-407 | Regen Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 2.96 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.02 | 0.03 |
| 32-303 | Glycol Flash Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 31-309 | Glycol Stahl Column | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 32-311 | Glycol Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.06 | <0.01 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| V-110 | Glycol Still Column/Reflux Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 32-203 | Rich Amine Flash Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 32-215 | Amine Reflux Accumulator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | 5.70 | 0.19 | <0.01 | 0.12 | <0.01 | 0.01 | <0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 |
| 32-211 | Amine Surge Drum | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 32-806 | Propane Suction Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 38.61 | 0.06 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.26 | 0.43 |
| 32-803 | Propane Accumulator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 834.08 | 1.21 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 5.60 | 9.29 |
| 32-804 | Propane Economizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 132.45 | 0.19 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.89 | 1.48 |
| 32-701 | Hot Oil Surge Drum | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.45 | <0.01 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 32-1003 | Flare KO Drum | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 80.00 | 0.12 | 1.70 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | 0.54 | 0.89 |
| 32-901B, 32-901C, 32-901D, 32-901E | Bullet Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 6,021.89 | 12.04 | 616.65 | 0.31 | -- | -- | N | N/A | N/A | -- | 6,021.89 | 6,021.89 |
| 32-1301 | Fuel Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| 32-1301B | Fuel Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| 32-1201 | Closed Drain 3 Phase Separator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 11.36 | 0.02 | 0.24 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 3.81 | 6.33 |
| V-1501 | Hot Oil Expansion Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.09 | <0.01 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | <0.01 | <0.01 |
| V-1702 | Stabilizer Feed Separator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 47.10 | 0.09 | 4.82 | <0.01 | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 0.94 | 0.94 |
| V-1801 | LPG Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 2,919.91 | 4.22 | -- | -- | -- | -- | Y | Flare | RH1-FL-29-1003 | 98 | 19.61 | 32.54 |

*Activity durations are conservative estimates.

**Train 2**

| Train 2 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| AC-0501, AC-0502, AC-0503 | Amine Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| A-361A, A-361B, A-361C, A-361D | Refrigerant Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 224.24 | 0.32 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | 1.51 | 2.50 |
| AC-0601, AC-0602 | Reflux Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | 5.70 | 0.21 | <0.01 | 0.13 | <0.01 | 0.01 | <0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| A-161, A-162, A-163 | Refrigerant Compressor Lube Oil Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.02 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.02 | 0.02 |
| A-301 | Expander Compressor Aftercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | <0.01 | <0.01 |
| A-341 | Regen Gas Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 2.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.01 | 0.02 |
| AC-2501 | TEG Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| AC-2502 | TEG Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | 0.02 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | 0.01 |
| C-161, C-162, C-163 | Refrigerant Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 870.45 | 1.26 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | 5.85 | 9.70 |
| EC-101 | Expander/Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 13.11 | 0.02 | 0.28 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 4.40 | 7.31 |
| C-141 | Regen Gas Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 0.09 | 0.15 |
| F-0201, F-0202 | Amine Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | 0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.01 | 0.01 |
| F-1225 | Amine Inlet Gas Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 25.03 | 0.04 | 0.53 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.17 | 0.28 |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 25.03 | 0.04 | 0.53 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.17 | 0.28 |
| F-441 | Inlet Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 14.44 | 0.02 | 0.31 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 4.85 | 8.05 |
| F-2202 | TEG Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.03 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.03 | 0.03 |
| F-0203, F-0204 | Amine Rich Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-445, F-446 | Mol Sieve Dust Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 6.72 | <0.01 | 0.14 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 2.26 | 3.74 |
| F-0200 | Pre-Carbon Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-0305 | Amine Lean Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-0805 | Hot Oil Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-2201 | TEG Pre-Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-2203 | TEG Rich Soilds Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-2401 | TEG Lean Soilds Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 1 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| 32-606 | Sales Compressor Discharge Scrubber | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.06 | <0.01 | 0.26 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 15.17 | 0.02 | 0.07 | <0.01 |
| 32-407 | Regen Gas Scrubber | 0.06 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | 0.13 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.89 | <0.01 | 0.13 | <0.01 |
| 32-303 | Glycol Flash Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 31-309 | Glycol Stahl Column | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-311 | Glycol Surge Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-110 | Glycol Still Column/Reflux Condenser | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-203 | Rich Amine Flash Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-215 | Amine Reflux Accumulator | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 179.94 | 0.26 | <0.01 | <0.01 |
| 32-211 | Amine Surge Drum | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-806 | Propane Suction Scrubber | 0.77 | 0.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.12 | <0.01 | 0.46 | <0.01 | 0.77 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-803 | Propane Accumulator | 16.68 | 16.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.49 | <0.01 | 9.91 | 0.01 | 16.68 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-804 | Propane Economizer | 2.65 | 2.65 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.40 | <0.01 | 1.57 | <0.01 | 2.65 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-701 | Hot Oil Surge Drum | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-1003 | Flare KO Drum | 1.60 | 1.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.87 | <0.01 | 3.46 | <0.01 | 1.60 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 23.95 | 0.03 | 3.59 | <0.01 |
| 32-901B, 32-901C, 32-901D, 32-901E | Bullet Tank | 6,021.89 | 6,021.89 | 6,021.89 | 12.04 | 588.71 | 0.29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-1301 | Fuel Gas Scrubber | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.37 | <0.01 | 0.02 | <0.01 |
| 32-1301B | Fuel Gas Scrubber | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 7.77 | 0.01 | 1.74 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32-1201 | Closed Drain 3 Phase Separator | 11.36 | 11.36 | 11.36 | 0.02 | 0.06 | <0.01 | <0.01 | <0.01 | 3.40 | <0.01 | 25.52 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-1501 | Hot Oil Expansion Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-1702 | Stabilizer Feed Separator | 0.94 | 0.94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.09 | <0.01 | 0.37 | <0.01 | 0.94 | <0.01 | -- | -- | -- | -- | 0.10 | <0.01 | -- | -- | -- | -- |
| V-1801 | LPG Surge Tank | 58.40 | 58.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.28 | <0.01 | 21.04 | 0.03 | 58.40 | 0.08 | -- | -- | -- | -- | -- | -- | 3.69 | <0.01 | 0.07 | <0.01 |
| *Activity durations are conservative estimates. | **Train 1 Vented SSM** | **6,070.44** | **12.12** | **590.13** | **0.30** | **<0.01** | **<0.01** | **11.20** | **0.02** | **27.29** | **0.04** | | | | | | | | | | | | | | | | | | |
| | **RH1-FL-29-1003** | | | | | | | | | | | | | **49.63** | **0.07** | **197.64** | **0.29** | **291.07** | **0.44** | **1.20** | **<0.01** | **0.01** | **<0.01** | **4.17** | **<0.01** | **1,095.97** | **1.59** | **98.06** | **0.14** |
| | **RH1-FL-2850** | | | | | | | | | | | | | **4.35** | **<0.01** | **17.31** | **0.03** | **43.74** | **0.09** | **--** | **--** | **--** | **--** | **4.48** | **<0.01** | **--** | **--** | **--** | **--** |
| | **RH2-TO-5500** | | | | | | | | | | | | | **1.55** | **<0.01** | **6.18** | **<0.01** | **16.62** | **0.02** | **--** | **--** | **--** | **--** | **0.02** | **<0.01** | **0.99** | **<0.01** | **0.02** | **<0.01** |

**Train 2**

| Train 2 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | Vented Emissions: TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Flared Emissions: Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-0501, AC-0502, AC-0503 | Amine Cooler | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-361A, A-361B, A-361C, A-361D | Refrigerant Condenser | 4.48 | 4.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.67 | <0.01 | 2.66 | <0.01 | 4.48 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-0601, AC-0602 | Reflux Condenser | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 197.58 | 0.29 | <0.01 | <0.01 |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 39.31 | 0.06 | 8.81 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 35.60 | 0.05 | 7.98 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-161, A-162, A-163 | Refrigerant Compressor Lube Oil Cooler | 0.02 | 0.02 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-301 | Expander Compressor Aftercooler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 15.79 | 0.02 | 0.07 | <0.01 |
| A-341 | Regen Gas Cooler | 0.04 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.62 | <0.01 | 0.09 | <0.01 |
| AC-2501 | TEG Cooler | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-2502 | TEG Condenser | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | 0.02 | 0.02 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 284.16 | 0.41 | 63.72 | 0.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-161, C-162, C-163 | Refrigerant Compressor | 17.41 | 17.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.60 | <0.01 | 10.35 | 0.01 | 17.41 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EC-101 | Expander/Compressor | 13.11 | 13.11 | 13.11 | 0.02 | 0.06 | <0.01 | <0.01 | <0.01 | 3.93 | <0.01 | 29.46 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-141 | Regen Gas Compressor | 0.27 | 0.27 | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 0.61 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0201, F-0202 | Amine Carbon Filter | 0.01 | 0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1225 | Amine Inlet Gas Filter Coalescer | 0.50 | 0.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.27 | <0.01 | 1.08 | <0.01 | 0.50 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 7.49 | 0.01 | 1.12 | <0.01 |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | 0.50 | 0.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.27 | <0.01 | 1.08 | <0.01 | 0.50 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 7.49 | 0.01 | 1.12 | <0.01 |
| F-441 | Inlet Filter Coalescer | 14.44 | 14.44 | 14.44 | 0.02 | 0.07 | <0.01 | <0.01 | <0.01 | 4.33 | <0.01 | 32.45 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2202 | TEG Carbon Filter | 0.03 | 0.03 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0203, F-0204 | Amine Rich Solids Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-445, F-446 | Mol Sieve Dust Filter | 6.72 | 6.72 | 6.72 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | 2.01 | <0.01 | 15.10 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0200 | Pre-Carbon Solids Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0305 | Amine Lean Solids Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-0805 | Hot Oil Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2201 | TEG Pre-Carbon Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2203 | TEG Rich Soilds Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-2401 | TEG Lean Soilds Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 2 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| F-1530 | Seal Gas Filter | Residue Gas | 0.16 | - | 37.91 | 0.41 | 0.02 | 62.91 | 0.68 | 0.03 | 112.91 | 1.22 | 0.06 | 112.91 | 1.22 | 0.06 | 17.87 | 0.17 |
| E-203 | Chiller | Propane | 1,784.74 | 174.83 | 37.91 | 4603.95 | 535.67 | 62.91 | 7640.05 | 888.93 | 112.91 | 13712.26 | 1595.43 | 112.91 | 13712.26 | 1595.43 | 44.10 | 4615.47 |
| E-0401, E-0404 | Amine Reboiler | Amine | 1,308.19 | 0.01 | 0.01 | 0.89 | 0.25 | 0.01 | 0.89 | 0.25 | 0.01 | 0.89 | 0.25 | 0.01 | 0.89 | 0.25 | 105.14 | 0.99 |
| H-2301 | TEG Reboiler | Glycol | 914.69 | 0.01 | 0.01 | 0.62 | 0.25 | 0.01 | 0.62 | 0.25 | 0.01 | 0.62 | 0.25 | 0.01 | 0.62 | 0.25 | 150.17 | 0.99 |
| E-1101, E-1102 | Gas/Gas Exchanger | Inlet Gas | 255.43 | - | 37.91 | 658.90 | 39.52 | 62.91 | 1093.41 | 65.59 | 112.91 | 1962.44 | 117.72 | 112.91 | 1962.44 | 117.72 | 22.73 | 340.55 |
| E-201/E-206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | Inlet Gas | 239.91 | - | 37.91 | 618.88 | 37.12 | 62.91 | 1027.00 | 61.60 | 112.91 | 1843.24 | 110.57 | 112.91 | 1843.24 | 110.57 | 22.73 | 319.86 |
| E-202 | Gas/Product Exchanger | Y-Grade | 149.11 | 397.30 | 37.91 | 384.64 | 41.58 | 62.91 | 638.29 | 68.99 | 112.91 | 1145.60 | 123.83 | 112.91 | 1145.60 | 123.83 | 40.97 | 358.22 |
| E-0301, E-0302 | Amine Lean/Rich Exchanger | Amine | 71.85 | 0.01 | 0.01 | 0.05 | 0.01 | 0.01 | 0.05 | 0.01 | 0.01 | 0.05 | 0.01 | 0.01 | 0.05 | 0.01 | 105.14 | 0.05 |
| E-204/205 | Demethanizer Side Heater and Demethanizer Reboiler | Inlet Gas | 62.59 | - | 37.91 | 161.46 | 9.69 | 62.91 | 267.93 | 16.07 | 112.91 | 480.88 | 28.85 | 112.91 | 480.88 | 28.85 | 22.73 | 83.45 |
| E-207 | Demethanizer Trim Reboiler | Y-Grade | 46.03 | 397.30 | 37.91 | 118.73 | 12.83 | 62.91 | 197.03 | 21.30 | 112.91 | 353.62 | 38.22 | 112.91 | 353.62 | 38.22 | 40.97 | 110.57 |
| E-2204 | TEG/TEG Exchanger | Glycol | 24.08 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 150.17 | 0.03 |
| TO-5500 | Thermal Oxidizer | Low C Acid Gas | 6,479.53 | - | 37.91 | 16714.70 | 1866.70 | 62.91 | 27737.31 | 3097.71 | 112.91 | 49782.54 | 5559.72 | 112.91 | 49782.54 | 5559.72 | 42.33 | 16083.85 |
| H-0901, H-1001 | Hot Oil Heater | Hot Oil | 1,261.10 | 0.01 | 0.01 | 0.86 | 0.45 | 0.01 | 0.86 | 0.45 | 0.01 | 0.86 | 0.45 | 0.01 | 0.86 | 0.45 | 200.00 | 1.81 |
| H-781 | HMO Heater | Hot Oil | 244.17 | 0.01 | 0.01 | 0.17 | 0.09 | 0.01 | 0.17 | 0.09 | 0.01 | 0.17 | 0.09 | 0.01 | 0.17 | 0.09 | 200.00 | 0.35 |
| H-741 | Regen Gas Heater | Inlet Gas | 55.24 | - | 37.91 | 142.50 | 8.55 | 62.91 | 236.47 | 14.18 | 112.91 | 424.42 | 25.46 | 112.91 | 424.42 | 25.46 | 22.73 | 73.65 |
| P-0802, P-0803, P-0804 | Hot Oil Pump | Hot Oil | 17.88 | 0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 200.00 | 0.03 |
| P-600, P-601, P-602 | Product Charge Pump | Y-Grade | 13.11 | 397.30 | 37.91 | 33.81 | 3.65 | 62.91 | 56.11 | 6.07 | 112.91 | 100.71 | 10.89 | 112.91 | 100.71 | 10.89 | 40.97 | 31.49 |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | Y-Grade | 9.85 | 397.30 | 37.91 | 25.41 | 2.75 | 62.91 | 42.16 | 4.56 | 112.91 | 75.67 | 8.18 | 112.91 | 75.67 | 8.18 | 40.97 | 23.66 |
| P-0702, P-0703, P-0704 | Amine Main Solution Pump | Amine | 8.90 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-0303, P-0304 | Amine Booster Pump | Amine | 6.66 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-2601, P-2602 | TEG Main Solution Pump | Glycol | 2.61 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-781A, P-781B | HMO Pump | Hot Oil | 2.00 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-2402, P-2403 | TEG Booster Pump | Glycol | 1.32 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-5050 | Flare KO Pump | Condensate | 1.28 | 6.80 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 93.55 | 0.58 |
| P-7015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-5515 | CO2 Vent Scrubber Pump | Low C Acid Gas | 1.28 | - | 37.91 | 3.30 | 0.37 | 62.91 | 5.48 | 0.61 | 112.91 | 9.83 | 1.10 | 112.91 | 9.83 | 1.10 | 42.33 | 3.18 |
| P-7035 | TEG Storage Pump | Glycol | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-0605 | Defoaming Pump | Amine | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-6305 | Amine Sump Pump | Amine | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-6355 | Amine Skid Drain Sump Pump | Amine | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-6405 | Glycol Sump Pump | Glycol | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-6455 | Glycol Skid Drain Sump Pump | Glycol | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-6505 | Hot Oil Skid Drain Sump Pump | Hot Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-6555 | CO2 Vent Stack Skid Drain Sump Pump | Low C Acid Gas | 1.28 | - | 37.91 | 3.30 | 0.37 | 62.91 | 5.48 | 0.61 | 112.91 | 9.83 | 1.10 | 112.91 | 9.83 | 1.10 | 42.33 | 3.18 |
| P-6605 | Residue Compressor Skid Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-6655 | IA Compressor Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-2504 | TEG Diaphragm Condensate Drum Pump | Glycol | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-0603, P-0604 | Reflux Pump | Amine | 1.08 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-7021 | Amine Make Up Pump | Amine | 0.72 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-7760 | Methanol Injection Pump | Methanol | 0.38 | 4.05 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 32.04 | 0.04 |
| P-609 | Methanol Injection Pump | Methanol | 0.11 | 4.05 | 4.05 | 0.03 | <0.01 | 4.05 | 0.03 | <0.01 | 4.05 | 0.03 | <0.01 | 4.05 | 0.03 | <0.01 | 32.04 | 0.01 |
| P-654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| TK-6200 | Slop Tank | Lube Oil | 2,488.14 | 0.01 | 0.01 | 1.69 | 0.89 | 0.01 | 1.69 | 0.89 | 0.01 | 1.69 | 0.89 | 0.01 | 1.69 | 0.89 | 200.00 | 3.57 |
| TK-7020 | Amine Storage Tank | Amine | 2,488.14 | 0.01 | 0.01 | 1.69 | 0.47 | 0.01 | 1.69 | 0.47 | 0.01 | 1.69 | 0.47 | 0.01 | 1.69 | 0.47 | 105.14 | 1.88 |
| TK-7030 | TEG Storage Tank | Glycol | 935.64 | 0.01 | 0.01 | 0.64 | 0.25 | 0.01 | 0.64 | 0.25 | 0.01 | 0.64 | 0.25 | 0.01 | 0.64 | 0.25 | 150.17 | 1.01 |
| TK-6300 | Amine Sump Tank | Amine | 623.76 | 0.01 | 0.01 | 0.42 | 0.12 | 0.01 | 0.42 | 0.12 | 0.01 | 0.42 | 0.12 | 0.01 | 0.42 | 0.12 | 105.14 | 0.47 |
| TK-7700 | Methanol Storage Tank | Methanol | 221.17 | 4.05 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 32.04 | 20.63 |
| TK-7010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.34 | 0.01 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 200.00 | 0.22 |
| TK-6400 | Glycol Sump Tank | Glycol | 110.58 | 0.01 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 150.17 | 0.12 |
| TK-6350 | Amine Skid Drain Sump | Amine | 110.58 | 0.01 | 0.01 | 0.08 | 0.02 | 0.01 | 0.08 | 0.02 | 0.01 | 0.08 | 0.02 | 0.01 | 0.08 | 0.02 | 105.14 | 0.08 |
| TK-6450 | Glycol Skid Drain Sump | Glycol | 110.58 | 0.01 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 150.17 | 0.12 |
| TK-6500 | Hot Oil Skid Drain Sump | Hot Oil | 110.58 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.16 |
| TK-6550 | CO2 Vent Stack Drain Sump | Low C Acid Gas | 110.58 | - | 37.91 | 285.26 | 31.86 | 62.91 | 473.38 | 52.87 | 112.91 | 849.62 | 94.89 | 112.91 | 849.62 | 94.89 | 42.33 | 274.50 |
| TK-6600 | Residue Compressor Drain Sump | Lube Oil | 110.58 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.16 |
| TK-6650 | IA Compressor Drain Sump | Lube Oil | 110.58 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.16 |
| TK-6700 | Cryo Refrig Skid Drain Sump | Lube Oil | 110.58 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.16 |
| T-0402/T-0403 | Amine Still/Reflux Accumulator | Low C Acid Gas | 7,317.55 | - | 37.91 | 18876.46 | 2108.13 | 62.91 | 31324.67 | 3498.34 | 112.91 | 56221.09 | 6278.78 | 112.91 | 56221.09 | 6278.78 | 42.33 | 18164.02 |
| T-501 | Demethanizer | Residue Gas | 4,142.87 | - | 37.91 | 10687.00 | 503.92 | 62.91 | 17734.62 | 836.23 | 112.91 | 31829.85 | 1500.85 | 112.91 | 31829.85 | 1500.85 | 17.87 | 4341.84 |
| T-1201, T-1202 | Amine Contactor | Inlet Gas | 4,015.15 | - | 37.91 | 10357.54 | 621.30 | 62.91 | 17187.89 | 1031.02 | 112.91 | 30848.58 | 1850.46 | 112.91 | 30848.58 | 1850.46 | 22.73 | 5353.24 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 2 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| F-1530 | Seal Gas Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| E-203 | Chiller | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 1,595.43 | 2.31 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | 10.71 | 17.78 |
| E-0401, E-0404 | Amine Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | 0.01 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 |
| H-2301 | TEG Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.25 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 |
| E-1101, E-1102 | Gas/Gas Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 27.37 | 0.04 | 0.58 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.18 | 0.31 |
| E-201/E-206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 25.71 | 0.04 | 0.55 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.17 | 0.29 |
| E-202 | Gas/Product Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 89.12 | 0.13 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | 0.60 | 0.99 |
| E-0301, E-0302 | Amine Lean/Rich Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| E-204/205 | Demethanizer Side Heater and Demethanizer Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 6.71 | <0.01 | 0.14 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.05 | 0.07 |
| E-207 | Demethanizer Trim Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 27.51 | 0.04 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | 0.18 | 0.31 |
| E-2204 | TEG/TEG Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TO-5500 | Thermal Oxidizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | 5.70 | 5.78 | <0.01 | 3.54 | <0.01 | 0.37 | <0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 0.02 | 0.03 |
| H-0901, H-1001 | Hot Oil Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.45 | <0.01 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | <0.01 | <0.01 |
| H-781 | HMO Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.09 | <0.01 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | <0.01 | <0.01 |
| H-741 | Regen Gas Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 5.92 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.04 | 0.07 |
| P-0802, P-0803, P-0804 | Hot Oil Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-600, P-601, P-602 | Product Charge Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 7.83 | 0.01 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | 0.05 | 0.09 |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 5.89 | <0.01 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | 0.04 | 0.07 |
| P-0702, P-0703, P-0704 | Amine Main Solution Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-0303, P-0304 | Amine Booster Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-2601, P-2602 | TEG Main Solution Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-781A, P-781B | HMO Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-2402, P-2403 | TEG Booster Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-5050 | Flare KO Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.14 | 0.14 |
| P-7015 | Residue Compressor Lube Oil Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-5515 | CO2 Vent Scrubber Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-7035 | TEG Storage Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-0605 | Defoaming Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-6305 | Amine Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-6355 | Amine Skid Drain Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-6405 | Glycol Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-6455 | Glycol Skid Drain Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-6505 | Hot Oil Skid Drain Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-6555 | CO2 Vent Stack Skid Drain Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-6605 | Residue Compressor Skid Drain Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-6655 | IA Compressor Drain Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-2504 | TEG Diaphragm Condensate Drum Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-0603, P-0604 | Reflux Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-7021 | Amine Make Up Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-7760 | Methanol Injection Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-609 | Methanol Injection Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-654 | Expander Lube Oil Makeup Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TK-6200 | Slop Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.89 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.89 | 0.89 |
| TK-7020 | Amine Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | 0.02 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.02 | 0.02 |
| TK-7030 | TEG Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.25 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.25 | 0.25 |
| TK-6300 | Amine Sump Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TK-7700 | Methanol Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | N | N/A | N/A | -- | 5.16 | 5.16 |
| TK-7010 | Residue Compressor Lube Oil Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.05 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.05 | 0.05 |
| TK-6400 | Glycol Sump Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.03 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.03 | 0.03 |
| TK-6350 | Amine Skid Drain Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TK-6450 | Glycol Skid Drain Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.03 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.03 | 0.03 |
| TK-6500 | Hot Oil Skid Drain Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-6550 | CO2 Vent Stack Drain Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | -- | 0.10 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 0.03 | 0.05 |
| TK-6600 | Residue Compressor Drain Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-6650 | IA Compressor Drain Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-6700 | Cryo Refrig Skid Drain Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| T-0402/T-0403 | Amine Still/Reflux Accumulator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | 5.70 | 6.53 | <0.01 | 4.00 | <0.01 | 0.42 | <0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | 0.02 | 0.04 |
| T-501 | Demethanizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | 0.09 | <0.01 | 0.09 | <0.01 | 0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | <0.01 | <0.01 |
| T-1201, T-1202 | Amine Contactor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 430.31 | 0.62 | 9.16 | <0.01 | 0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 2.89 | 4.80 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 2 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| F-1530 | Seal Gas Filter | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-203 | Chiller | 31.91 | 31.91 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.76 | <0.01 | 18.96 | 0.03 | 31.91 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-0401, E-0404 | Amine Reboiler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-2301 | TEG Reboiler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-1101, E-1102 | Gas/Gas Exchanger | 0.55 | 0.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.30 | <0.01 | 1.18 | <0.01 | 0.55 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 8.20 | 0.01 | 1.23 | <0.01 |
| E-201/E-206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | 0.51 | 0.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.28 | <0.01 | 1.11 | <0.01 | 0.51 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 7.70 | 0.01 | 1.16 | <0.01 |
| E-202 | Gas/Product Exchanger | 1.78 | 1.78 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.16 | <0.01 | 0.64 | <0.01 | 1.78 | <0.01 | -- | -- | -- | -- | -- | -- | 0.11 | <0.01 | <0.01 | <0.01 |
| E-0301, E-0302 | Amine Lean/Rich Exchanger | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-204/205 | Demethanizer Side Heater and Demethanizer Reboiler | 0.13 | 0.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.29 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.01 | <0.01 | 0.30 | <0.01 |
| E-207 | Demethanizer Trim Reboiler | 0.55 | 0.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.20 | <0.01 | 0.55 | <0.01 | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | <0.01 | <0.01 |
| E-2204 | TEG/TEG Exchanger | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TO-5500 | Thermal Oxidizer | 0.06 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | 0.20 | 0.04 | 0.12 | 0.06 | <0.01 | 0.69 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 5,398.27 | 7.81 | 0.05 | <0.01 |
| H-0901, H-1001 | Hot Oil Heater | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-781 | HMO Heater | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-741 | Regen Gas Heater | 0.12 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.06 | <0.01 | 0.26 | <0.01 | 0.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.77 | <0.01 | 0.27 | <0.01 |
| P-0802, P-0803, P-0804 | Hot Oil Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-600, P-601, P-602 | Product Charge Pump | 0.16 | 0.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.06 | <0.01 | 0.16 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | 0.12 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.04 | <0.01 | 0.12 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| P-0702, P-0703, P-0704 | Amine Main Solution Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-0303, P-0304 | Amine Booster Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-2601, P-2602 | TEG Main Solution Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-781A, P-781B | HMO Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-2402, P-2403 | TEG Booster Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5050 | Flare KO Pump | 0.14 | 0.14 | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7015 | Residue Compressor Lube Oil Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5515 | CO2 Vent Scrubber Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.07 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7035 | TEG Storage Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-0605 | Defoaming Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6305 | Amine Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6355 | Amine Skid Drain Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6405 | Glycol Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6455 | Glycol Skid Drain Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6505 | Hot Oil Skid Drain Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6555 | CO2 Vent Stack Skid Drain Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.07 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6605 | Residue Compressor Skid Drain Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6655 | IA Compressor Drain Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-2504 | TEG Diaphragm Condensate Drum Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-0603, P-0604 | Reflux Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7021 | Amine Make Up Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7760 | Methanol Injection Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-609 | Methanol Injection Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-654 | Expander Lube Oil Makeup Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6200 | Slop Tank | 0.89 | 0.89 | 0.89 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7020 | Amine Storage Tank | 0.02 | 0.02 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7030 | TEG Storage Tank | 0.25 | 0.25 | 0.25 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6300 | Amine Sump Tank | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7700 | Methanol Storage Tank | 5.16 | 5.16 | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7010 | Residue Compressor Lube Oil Storage Tank | 0.05 | 0.05 | 0.05 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6400 | Glycol Sump Tank | 0.03 | 0.03 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6350 | Amine Skid Drain Sump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6450 | Glycol Skid Drain Sump | 0.03 | 0.03 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6500 | Hot Oil Skid Drain Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6550 | CO2 Vent Stack Drain Sump | 0.10 | 0.10 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 92.13 | 0.13 | 0.09 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6600 | Residue Compressor Drain Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6650 | IA Compressor Drain Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6700 | Cryo Refrig Skid Drain Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-0402/T-0403 | Amine Still/Reflux Accumulator | 0.07 | 0.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.08 | 0.23 | 0.05 | 0.14 | 0.07 | <0.01 | 0.78 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 6,096.44 | 8.82 | 0.06 | <0.01 |
| T-501 | Demethanizer | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.95 | <0.01 | 19.70 | 0.03 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1,163.88 | 1.68 | 5.22 | <0.01 |
| T-1201, T-1202 | Amine Contactor | 8.61 | 8.61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.67 | <0.01 | 18.61 | 0.03 | 8.61 | 0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 0.18 | <0.01 | 128.85 | 0.19 | 19.33 | 0.03 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 2 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| T-2701 | TEG Contactor | Inlet Gas | 1,088.56 | - | 37.91 | 2808.07 | 168.44 | 62.91 | 4659.87 | 279.52 | 112.91 | 8363.47 | 501.69 | 112.91 | 8363.47 | 501.69 | 22.73 | 1451.34 |
| T-2302 | TEG Still | Glycol | 55.29 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 150.17 | 0.06 |
| V-404 | Product Surge Tank | Y-Grade | 9,589.37 | 397.30 | 37.91 | 24736.87 | 2673.78 | 62.91 | 41049.76 | 4437.02 | 112.91 | 73675.54 | 7963.51 | 112.91 | 73675.54 | 7963.51 | 40.97 | 23037.82 |
| V-0801 | Hot Oil Expansion Tank | Hot Oil | 2,591.81 | 0.01 | 0.01 | 1.76 | 0.93 | 0.01 | 1.76 | 0.93 | 0.01 | 1.76 | 0.93 | 0.01 | 1.76 | 0.93 | 200.00 | 3.72 |
| V-0101 | Amine Flash Tank | Amine | 2,591.81 | 0.01 | 0.01 | 1.76 | 0.49 | 0.01 | 1.76 | 0.49 | 0.01 | 1.76 | 0.49 | 0.01 | 1.76 | 0.49 | 105.14 | 1.96 |
| V-0701 | Amine Surge Tank | Amine | 2,591.81 | 0.01 | 0.01 | 1.76 | 0.49 | 0.01 | 1.76 | 0.49 | 0.01 | 1.76 | 0.49 | 0.01 | 1.76 | 0.49 | 105.14 | 1.96 |
| V-442, V-443, V-444 | Mol Sieve Dehydrator | Inlet Gas | 1,904.98 | - | 37.91 | 4914.12 | 294.78 | 62.91 | 8154.77 | 489.17 | 112.91 | 14636.07 | 877.95 | 112.91 | 14636.07 | 877.95 | 22.73 | 2539.84 |
| V-402 | Cold Separator | Inlet Gas | 1,119.66 | - | 37.91 | 2888.30 | 173.26 | 62.91 | 4793.01 | 287.51 | 112.91 | 8602.42 | 516.02 | 112.91 | 8602.42 | 516.02 | 22.73 | 1492.80 |
| V-5000 | Flare KO Drum | Inlet Gas | 933.05 | - | 37.91 | 2406.92 | 144.38 | 62.91 | 3994.17 | 239.59 | 112.91 | 7168.69 | 430.02 | 112.91 | 7168.69 | 430.02 | 22.73 | 1244.00 |
| V-463 | Refrigerant Accumulator | Propane | 647.95 | 174.83 | 37.91 | 1671.47 | 194.48 | 62.91 | 2773.73 | 322.73 | 112.91 | 4978.25 | 579.22 | 112.91 | 4978.25 | 579.22 | 44.10 | 1675.65 |
| V-403 | Cold Drain Tank | Y-Grade | 524.84 | 397.30 | 37.91 | 1353.89 | 146.34 | 62.91 | 2246.72 | 242.85 | 112.91 | 4032.39 | 435.86 | 112.91 | 4032.39 | 435.86 | 40.97 | 1260.90 |
| V-462 | Refrigerant Economizer | Propane | 373.22 | 174.83 | 37.91 | 962.77 | 112.02 | 62.91 | 1597.67 | 185.89 | 112.91 | 2867.47 | 333.63 | 112.91 | 2867.47 | 333.63 | 44.10 | 965.18 |
| V-5510 | CO2 Vent Scrubber | Low C Acid Gas | 365.01 | - | 37.91 | 941.59 | 105.16 | 62.91 | 1562.54 | 174.50 | 112.91 | 2804.42 | 313.20 | 112.91 | 2804.42 | 313.20 | 42.33 | 906.06 |
| V-1203 | Amine Scrubber | Inlet Gas | 365.01 | - | 37.91 | 941.59 | 56.48 | 62.91 | 1562.54 | 93.73 | 112.91 | 2804.42 | 168.22 | 112.91 | 2804.42 | 168.22 | 22.73 | 486.66 |
| V-461 | Refrigerant Suction Scrubber | Propane | 311.02 | 174.83 | 37.91 | 802.31 | 93.35 | 62.91 | 1331.39 | 154.91 | 112.91 | 2389.56 | 278.03 | 112.91 | 2389.56 | 278.03 | 44.10 | 804.31 |
| T-2702 | TEG Scrubber | Inlet Gas | 261.34 | - | 37.91 | 674.16 | 40.44 | 62.91 | 1118.74 | 67.11 | 112.91 | 2007.90 | 120.44 | 112.91 | 2007.90 | 120.44 | 22.73 | 348.44 |
| V-2101 | TEG Flash Tank | Glycol | 215.98 | 0.01 | 0.01 | 0.15 | 0.06 | 0.01 | 0.15 | 0.06 | 0.01 | 0.15 | 0.06 | 0.01 | 0.15 | 0.06 | 150.17 | 0.23 |
| V-5520 | CO2 Vent Stack | Low C Acid Gas | 207.35 | - | 37.91 | 534.87 | 59.73 | 62.91 | 887.59 | 99.13 | 112.91 | 1593.04 | 177.91 | 112.91 | 1593.04 | 177.91 | 42.33 | 514.68 |
| V-1050 | Inlet Gas Scrubber | Inlet Gas | 174.95 | - | 37.91 | 451.30 | 27.07 | 62.91 | 748.91 | 44.92 | 112.91 | 1344.13 | 80.63 | 112.91 | 1344.13 | 80.63 | 22.73 | 233.25 |
| V-2503 | TEG Vent Condensate Drum | Glycol | 77.75 | 0.01 | 0.01 | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 150.17 | 0.08 |
| V-3100 | Amine Flash Gas Scrubber | Inlet Gas | 54.00 | - | 37.91 | 139.29 | 8.36 | 62.91 | 231.14 | 13.87 | 112.91 | 414.85 | 24.89 | 112.91 | 414.85 | 24.89 | 22.73 | 71.99 |
| V-481 | Fuel Gas Scrubber | Residue Gas | 20.73 | - | 37.91 | 53.49 | 2.52 | 62.91 | 88.76 | 4.19 | 112.91 | 159.30 | 7.51 | 112.91 | 159.30 | 7.51 | 17.87 | 21.73 |
| V-447 | Regen Gas Scrubber | Inlet Gas | 9.72 | - | 37.91 | 25.07 | 1.50 | 62.91 | 41.61 | 2.50 | 112.91 | 74.67 | 4.48 | 112.91 | 74.67 | 4.48 | 22.73 | 12.96 |
| V-464 | Refrigerant Reclaimer | Propane | 1.73 | 174.83 | 37.91 | 4.47 | 0.52 | 62.91 | 7.42 | 0.86 | 112.91 | 13.32 | 1.55 | 112.91 | 13.32 | 1.55 | 44.10 | 4.48 |

*Activity durations are conservative estimates.

**Train 3**

| Train 3 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| AC-6501 | TEG Cooler | Glycol | 8.71 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| AC-6502 | BTEX Condenser | Glycol | 3.47 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| A-341 | Regen Gas Cooler | Inlet Gas | 19.47 | - | 37.91 | 50.23 | 3.01 | 62.91 | 83.35 | 5.00 | 112.91 | 149.59 | 8.97 | 112.91 | 149.59 | 8.97 | 22.73 | 25.96 |
| A-301 | Expander Compressor Aftercooler | Residue Gas | 56.19 | - | 37.91 | 144.94 | 6.83 | 62.91 | 240.53 | 11.34 | 112.91 | 431.69 | 20.36 | 112.91 | 431.69 | 20.36 | 17.87 | 58.89 |
| A-361A, A-361B, A-361C, A-361D | Refrigerant Condenser | Propane | 250.84 | 174.83 | 37.91 | 647.08 | 75.29 | 62.91 | 1073.80 | 124.94 | 112.91 | 1927.25 | 224.24 | 112.91 | 1927.25 | 224.24 | 44.10 | 648.70 |
| A-161, A-162, A-163 | Refrigerant Compressor Lube Oil Cooler | Lube Oil | 62.70 | 0.01 | 0.01 | 0.04 | 0.02 | 0.01 | 0.04 | 0.02 | 0.01 | 0.04 | 0.02 | 0.01 | 0.04 | 0.02 | 200.00 | 0.09 |
| HAL-1475-IC-1, HAL-1500-IC-1, HAL-1550-IC-1, HAL-1575-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | - | 37.91 | 360.94 | 17.02 | 62.91 | 598.96 | 28.24 | 112.91 | 1075.01 | 50.69 | 112.91 | 1075.01 | 50.69 | 17.87 | 146.64 |
| HAL-1475-AC-1, HAL-1500-AC-1, HAL-1550-AC-1, HAL-1575-AC-1 | Residue Compressor Aftercooler | Residue Gas | 126.72 | - | 37.91 | 326.89 | 15.41 | 62.91 | 542.46 | 25.58 | 112.91 | 973.60 | 45.91 | 112.91 | 973.60 | 45.91 | 17.87 | 132.81 |
| C-161, C-162, C-163 | Refrigerant Compressor | Propane | 973.73 | 174.83 | 37.91 | 2511.86 | 292.26 | 62.91 | 4168.32 | 484.99 | 112.91 | 7481.24 | 870.45 | 112.91 | 7481.24 | 870.45 | 44.10 | 2518.14 |
| C-1475, C-1500, C-1550, C-1575 | Residue Compressor | Residue Gas | 1,011.48 | - | 37.91 | 2609.23 | 123.03 | 62.91 | 4329.91 | 204.17 | 112.91 | 7771.26 | 366.43 | 112.91 | 7771.26 | 366.43 | 17.87 | 1060.06 |
| EC-101 | Expander/Compressor | Inlet Gas | 122.34 | - | 37.91 | 315.60 | 18.93 | 62.91 | 523.73 | 31.42 | 112.91 | 939.98 | 56.38 | 112.91 | 939.98 | 56.38 | 22.73 | 163.12 |
| C-141 | Regen Gas Compressor | Inlet Gas | 2.54 | - | 37.91 | 6.55 | 0.39 | 62.91 | 10.87 | 0.65 | 112.91 | 19.51 | 1.17 | 112.91 | 19.51 | 1.17 | 22.73 | 3.39 |
| F-1530 | Seal Gas Filter | Residue Gas | 0.16 | - | 37.91 | 0.41 | 0.02 | 62.91 | 0.68 | 0.03 | 112.91 | 1.22 | 0.06 | 112.91 | 1.22 | 0.06 | 17.87 | 0.17 |
| F-441 | Inlet Filter Coalescer | Inlet Gas | 134.77 | - | 37.91 | 347.67 | 20.85 | 62.91 | 576.94 | 34.61 | 112.91 | 1035.48 | 62.11 | 112.91 | 1035.48 | 62.11 | 22.73 | 179.69 |
| F-6201 | TEG Pre-Carbon Filter | Glycol | 1.60 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| F-6202 | TEG Carbon Filter | Glycol | 105.83 | 0.01 | 0.01 | 0.07 | 0.03 | 0.01 | 0.07 | 0.03 | 0.01 | 0.07 | 0.03 | 0.01 | 0.07 | 0.03 | 150.17 | 0.11 |
| F-6203 | TEG Rich Solids Filter | Glycol | 1.60 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| F-6401 | TEG Lean Solids Filter | Glycol | 1.60 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| F-1235 | Amine Inlet Gas Filter Coalescer | Inlet Gas | 121.19 | - | 37.91 | 312.63 | 18.75 | 62.91 | 518.79 | 31.12 | 112.91 | 931.12 | 55.85 | 112.91 | 931.12 | 55.85 | 22.73 | 161.58 |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | Inlet Gas | 121.19 | - | 37.91 | 312.63 | 18.75 | 62.91 | 518.79 | 31.12 | 112.91 | 931.12 | 55.85 | 112.91 | 931.12 | 55.85 | 22.73 | 161.58 |
| F-445, F-446 | Mol Sieve Dust Filter | Inlet Gas | 62.72 | - | 37.91 | 161.78 | 9.70 | 62.91 | 268.47 | 16.10 | 112.91 | 481.85 | 28.90 | 112.91 | 481.85 | 28.90 | 22.73 | 83.62 |
| E-3800 | Gas/Gas Exchanger | Inlet Gas | 138.71 | - | 37.91 | 357.82 | 21.46 | 62.91 | 593.78 | 35.62 | 112.91 | 1065.72 | 63.93 | 112.91 | 1065.72 | 63.93 | 22.73 | 184.94 |
| H-6301 | TEG Reboiler | Glycol | 950.52 | 0.01 | 0.01 | 0.65 | 0.26 | 0.01 | 0.65 | 0.26 | 0.01 | 0.65 | 0.26 | 0.01 | 0.65 | 0.26 | 150.17 | 1.03 |
| E-6204 | TEG/TEG Exchanger | Glycol | 24.08 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 150.17 | 0.03 |
| E-201/E-206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | Inlet Gas | 239.91 | - | 37.91 | 618.88 | 37.12 | 62.91 | 1027.00 | 61.60 | 112.91 | 1843.24 | 110.57 | 112.91 | 1843.24 | 110.57 | 22.73 | 319.86 |
| E-202 | Gas/Product Exchanger | Y-Grade | 149.11 | 397.30 | 37.91 | 384.64 | 41.58 | 62.91 | 638.29 | 68.99 | 112.91 | 1145.60 | 123.83 | 112.91 | 1145.60 | 123.83 | 40.97 | 358.22 |

## Full Startup SSM Emissions
**Targa Northern Delaware, LLC**

| Train 2 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| T-2701 | TEG Contactor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 116.66 | 0.17 | 2.48 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.78 | 1.30 |
| T-2302 | TEG Still | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.01 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 |
| V-404 | Product Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 5,731.34 | 8.29 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | 38.49 | 63.87 |
| V-0801 | Hot Oil Expansion Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.93 | <0.01 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | 0.02 | 0.02 |
| V-0101 | Amine Flash Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | 0.02 | <0.01 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | <0.01 | <0.01 |
| V-0701 | Amine Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | 0.02 | <0.01 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | <0.01 | <0.01 |
| V-442, V-443, V-444 | Mol Sieve Dehydrator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 204.16 | 0.30 | 4.35 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 1.37 | 2.28 |
| V-402 | Cold Separator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 120.00 | 0.17 | 2.55 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.81 | 1.34 |
| V-5000 | Flare KO Drum | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 100.00 | 0.14 | 2.13 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.67 | 1.11 |
| V-463 | Refrigerant Accumulator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 579.22 | 0.84 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | 3.89 | 6.45 |
| V-403 | Cold Drain Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 313.69 | 0.45 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | 2.11 | 3.50 |
| V-462 | Refrigerant Economizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 333.63 | 0.48 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | 2.24 | 3.72 |
| V-5510 | CO2 Vent Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | 5.70 | 0.33 | <0.01 | 0.20 | <0.01 | 0.02 | <0.01 | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 |
| V-1203 | Amine Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 39.12 | 0.06 | 0.83 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.26 | 0.44 |
| V-461 | Refrigerant Suction Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 278.03 | 0.40 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | 1.87 | 3.10 |
| T-2702 | TEG Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 28.01 | 0.04 | 0.60 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.19 | 0.31 |
| V-2101 | TEG Flash Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.06 | <0.01 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | <0.01 | <0.01 |
| V-5520 | CO2 Vent Stack | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | -- | 0.19 | <0.01 | 0.11 | <0.01 | 0.01 | <0.01 | N | N/A | N/A | -- | 0.06 | 0.10 |
| V-1050 | Inlet Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 18.75 | 0.03 | 0.40 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.13 | 0.21 |
| V-2503 | TEG Vent Condensate Drum | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.02 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 |
| V-3100 | Amine Flash Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 5.79 | <0.01 | 0.12 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 1.94 | 3.22 |
| V-481 | Fuel Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| V-447 | Regen Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 1.04 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | <0.01 | 0.01 |
| V-464 | Refrigerant Reclaimer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 1.55 | <0.01 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | 0.01 | 0.02 |

*Activity durations are conservative estimates.

**Train 3**

| Train 3 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| AC-6501 | TEG Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| AC-6502 | BTEX Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 |
| A-341 | Regen Gas Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 2.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | Y | Flare | RH3-FL-5100 | 98 | 0.01 | 0.02 |
| A-301 | Expander Compressor Aftercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH3-FL-5100 | 98 | <0.01 | <0.01 |
| A-361A, A-361B, A-361C, A-361D | Refrigerant Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 224.24 | 0.32 | -- | -- | -- | -- | Y | Flare | RH3-FL-5100 | 98 | 1.51 | 2.50 |
| A-161, A-162, A-163 | Refrigerant Compressor Lube Oil Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.02 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.02 | 0.02 |
| HAL-1475-IC-1, HAL-1500-IC-1, HAL-1550-IC-1, HAL-1575-IC-1 | Residue Compressor Intercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| HAL-1475-AC-1, HAL-1500-AC-1, HAL-1550-AC-1, HAL-1575-AC-1 | Residue Compressor Aftercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| C-161, C-162, C-163 | Refrigerant Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 870.45 | 1.26 | -- | -- | -- | -- | Y | Flare | RH3-FL-5100 | 98 | 5.85 | 9.70 |
| C-1475, C-1500, C-1550, C-1575 | Residue Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | 0.02 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | 0.01 |
| EC-101 | Expander/Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 13.11 | 0.02 | 0.28 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 4.40 | 7.31 |
| C-141 | Regen Gas Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 0.09 | 0.15 |
| F-1530 | Seal Gas Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-441 | Inlet Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 14.44 | 0.02 | 0.31 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 4.85 | 8.05 |
| F-6201 | TEG Pre-Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-6202 | TEG Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.03 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.03 | 0.03 |
| F-6203 | TEG Rich Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-6401 | TEG Lean Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-1235 | Amine Inlet Gas Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 12.99 | 0.02 | 0.28 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.09 | 0.14 |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 12.99 | 0.02 | 0.28 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.09 | 0.14 |
| F-445, F-446 | Mol Sieve Dust Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 6.72 | <0.01 | 0.14 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 2.26 | 3.74 |
| E-3800 | Gas/Gas Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 14.87 | 0.02 | 0.32 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.10 | 0.17 |
| H-6301 | TEG Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.26 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 |
| E-6204 | TEG/TEG Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| E-201/E-206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 25.71 | 0.04 | 0.55 | <0.01 | <0.01 | <0.01 | Y | Flare | RH3-FL-5100 | 98 | 0.17 | 0.29 |
| E-202 | Gas/Product Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 89.12 | 0.13 | -- | -- | -- | -- | Y | Flare | RH3-FL-5100 | 98 | 0.60 | 0.99 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 2 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| T-2701 | TEG Contactor | 2.33 | 2.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.27 | <0.01 | 5.04 | <0.01 | 2.33 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | 34.93 | 0.05 | 5.24 | <0.01 |
| T-2302 | TEG Still | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-404 | Product Surge Tank | 114.63 | 114.63 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10.37 | 0.02 | 41.30 | 0.06 | 114.63 | 0.17 | -- | -- | -- | -- | -- | -- | 7.25 | 0.01 | 0.14 | <0.01 |
| V-0801 | Hot Oil Expansion Tank | 0.02 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-0101 | Amine Flash Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-0701 | Amine Surge Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-442, V-443, V-444 | Mol Sieve Dehydrator | 4.08 | 4.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.22 | <0.01 | 8.83 | 0.01 | 4.08 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | 61.13 | 0.09 | 9.17 | 0.01 |
| V-402 | Cold Separator | 2.40 | 2.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.30 | <0.01 | 5.19 | <0.01 | 2.40 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | 35.93 | 0.05 | 5.39 | <0.01 |
| V-5000 | Flare KO Drum | 2.00 | 2.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.09 | <0.01 | 4.32 | <0.01 | 2.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 29.94 | 0.04 | 4.49 | <0.01 |
| V-463 | Refrigerant Accumulator | 11.58 | 11.58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.73 | <0.01 | 6.88 | <0.01 | 11.58 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-403 | Cold Drain Tank | 6.27 | 6.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.57 | <0.01 | 2.26 | <0.01 | 6.27 | <0.01 | -- | -- | -- | -- | -- | -- | 0.40 | <0.01 | <0.01 | <0.01 |
| V-462 | Refrigerant Economizer | 6.67 | 6.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.00 | <0.01 | 3.97 | <0.01 | 6.67 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-5510 | CO2 Vent Scrubber | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 304.10 | 0.44 | <0.01 | <0.01 |
| V-1203 | Amine Scrubber | 0.78 | 0.78 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.42 | <0.01 | 1.69 | <0.01 | 0.78 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 11.71 | 0.02 | 1.76 | <0.01 |
| V-461 | Refrigerant Suction Scrubber | 5.56 | 5.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.83 | <0.01 | 3.30 | <0.01 | 5.56 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-2702 | TEG Scrubber | 0.56 | 0.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.30 | <0.01 | 1.21 | <0.01 | 0.56 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 8.39 | 0.01 | 1.26 | <0.01 |
| V-2101 | TEG Flash Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-5520 | CO2 Vent Stack | 0.19 | 0.19 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 172.74 | 0.25 | 0.17 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-1050 | Inlet Gas Scrubber | 0.37 | 0.37 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.20 | <0.01 | 0.81 | <0.01 | 0.37 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.61 | <0.01 | 0.84 | <0.01 |
| V-2503 | TEG Vent Condensate Drum | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-3100 | Amine Flash Gas Scrubber | 5.79 | 5.79 | 5.79 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | 1.73 | <0.01 | 13.00 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-481 | Fuel Gas Scrubber | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.83 | <0.01 | 1.31 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-447 | Regen Gas Scrubber | 0.02 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.05 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.31 | <0.01 | 0.05 | <0.01 |
| V-464 | Refrigerant Reclaimer | 0.03 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | **Train 2 Vented SSM** | **47.51** | **0.07** | **5.38** | **<0.01** | **<0.01** | **<0.01** | **644.02** | **0.93** | **172.72** | **0.25** | | | | | | | | | | | | | | | | | | |
| | **RH2-FL-5100** | | | | | | | | | | | | | **40.54** | **0.06** | **161.46** | **0.23** | **224.71** | **0.33** | **0.07** | **<0.01** | **<0.01** | **<0.01** | **0.50** | **<0.01** | **1,539.58** | **2.23** | **58.28** | **0.08** |
| | **RH2-TO-5500** | | | | | | | | | | | | | **0.15** | **0.45** | **0.09** | **0.27** | **0.13** | **<0.01** | **1.54** | **<0.01** | **<0.01** | **<0.01** | **0.08** | **<0.01** | **11,996.39** | **17.35** | **0.12** | **<0.01** |

*Activity durations are conservative estimates.

**Train 3**

| Train 3 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | Vented Emissions: TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Flared Emissions: Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-6501 | TEG Cooler | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-6502 | BTEX Condenser | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-341 | Regen Gas Cooler | 0.04 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.62 | <0.01 | 0.09 | <0.01 |
| A-301 | Expander Compressor Aftercooler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 15.79 | 0.02 | 0.07 | <0.01 |
| A-361A, A-361B, A-361C, A-361D | Refrigerant Condenser | 4.48 | 4.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.67 | <0.01 | 2.66 | <0.01 | 4.48 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-161, A-162, A-163 | Refrigerant Compressor Lube Oil Cooler | 0.02 | 0.02 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1475-IC-1, HAL-1500-IC-1, HAL-1550-IC-1, HAL-1575-IC-1 | Residue Compressor Intercooler | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 39.31 | 0.06 | 8.81 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1475-AC-1, HAL-1500-AC-1, HAL-1550-AC-1, HAL-1575-AC-1 | Residue Compressor Aftercooler | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 35.60 | 0.05 | 7.98 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-161, C-162, C-163 | Refrigerant Compressor | 17.41 | 17.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.60 | <0.01 | 10.35 | 0.01 | 17.41 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1475, C-1500, C-1550, C-1575 | Residue Compressor | 0.02 | 0.02 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 284.16 | 0.41 | 63.72 | 0.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EC-101 | Expander/Compressor | 13.11 | 13.11 | 13.11 | 0.02 | 0.06 | <0.01 | <0.01 | <0.01 | 3.93 | <0.01 | 29.46 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-141 | Regen Gas Compressor | 0.27 | 0.27 | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 0.61 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1530 | Seal Gas Filter | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-441 | Inlet Filter Coalescer | 14.44 | 14.44 | 14.44 | 0.02 | 0.07 | <0.01 | <0.01 | <0.01 | 4.33 | <0.01 | 32.45 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6201 | TEG Pre-Carbon Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6202 | TEG Carbon Filter | 0.03 | 0.03 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6203 | TEG Rich Soilds Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-6401 | TEG Lean Soilds Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-1235 | Amine Inlet Gas Filter Coalescer | 0.26 | 0.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.14 | <0.01 | 0.56 | <0.01 | 0.26 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.89 | <0.01 | 0.58 | <0.01 |
| F-1275 | Glycol Contactor Inlet Gas Filter Coalescer | 0.26 | 0.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.14 | <0.01 | 0.56 | <0.01 | 0.26 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.89 | <0.01 | 0.58 | <0.01 |
| F-445, F-446 | Mol Sieve Dust Filter | 6.72 | 6.72 | 6.72 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | 2.01 | <0.01 | 15.10 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-3800 | Gas/Gas Exchanger | 0.30 | 0.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.16 | <0.01 | 0.64 | <0.01 | 0.30 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.45 | <0.01 | 0.67 | <0.01 |
| H-6301 | TEG Reboiler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-6204 | TEG/TEG Exchanger | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-201/E-206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | 0.51 | 0.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.28 | <0.01 | 1.11 | <0.01 | 0.51 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 7.70 | 0.01 | 1.16 | <0.01 |
| E-202 | Gas/Product Exchanger | 1.78 | 1.78 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.16 | <0.01 | 0.64 | <0.01 | 1.78 | <0.01 | -- | -- | -- | -- | -- | -- | 0.11 | <0.01 | <0.01 | <0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 3 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| E-204/205 | Demethanizer Side Heater and Demethanizer Reboiler | Inlet Gas | 62.59 | - | 37.91 | 161.46 | 9.69 | 62.91 | 267.93 | 16.07 | 112.91 | 480.88 | 28.85 | 112.91 | 480.88 | 28.85 | 22.73 | 83.45 |
| E-207 | Demethanizer Trim Reboiler | Y-Grade | 46.03 | 397.30 | 37.91 | 118.73 | 12.83 | 62.91 | 197.03 | 21.30 | 112.91 | 353.62 | 38.22 | 112.91 | 353.62 | 38.22 | 40.97 | 110.57 |
| E-203 | Chiller | Propane | 1,784.74 | 174.83 | 37.91 | 4603.95 | 535.67 | 62.91 | 7640.05 | 888.93 | 112.91 | 13712.26 | 1595.43 | 112.91 | 13712.26 | 1595.43 | 44.10 | 4615.47 |
| H-741 | Regen Gas Heater | Inlet Gas | 55.24 | - | 37.91 | 142.50 | 8.55 | 62.91 | 236.47 | 14.18 | 112.91 | 424.42 | 25.46 | 112.91 | 424.42 | 25.46 | 22.73 | 73.65 |
| H-781 | HMO Heater | Hot Oil | 244.17 | 0.01 | 0.01 | 0.17 | 0.09 | 0.01 | 0.17 | 0.09 | 0.01 | 0.17 | 0.09 | 0.01 | 0.17 | 0.09 | 200.00 | 0.35 |
| P-5050 | Flare KO Pump | Condensate | 1.28 | 6.80 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 93.55 | 0.58 |
| P-6601, P-6602 | TEG Main Solution Pump | Glycol | 2.61 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-6605 | Residue Compressor Skid Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-6402, P-6403 | TEG Booster Pump | Glycol | 1.32 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-6504 | BTEX Pump | Glycol | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-600, P-601, P-602 | Product Charge Pump | Y-Grade | 13.11 | 397.30 | 37.91 | 33.81 | 3.65 | 62.91 | 56.11 | 6.07 | 112.91 | 100.71 | 10.89 | 112.91 | 100.71 | 10.89 | 40.97 | 31.49 |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | Y-Grade | 9.85 | 397.30 | 37.91 | 25.41 | 2.75 | 62.91 | 42.16 | 4.56 | 112.91 | 75.67 | 8.18 | 112.91 | 75.67 | 8.18 | 40.97 | 23.66 |
| P-609 | Methanol Injection Pump | Methanol | 0.11 | 4.05 | 4.05 | 0.03 | <0.01 | 4.05 | 0.03 | <0.01 | 4.05 | 0.03 | <0.01 | 4.05 | 0.03 | <0.01 | 32.04 | 0.01 |
| P-654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-781A, P-781B | HMO Pump | Hot Oil | 2.00 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-7760 | Methanol Injection Pump | Methanol | 0.38 | 4.05 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 32.04 | 0.04 |
| TK-6600 | Residue Compressor Drain Sump | Lube Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-6700 | Cryo Refrig Skid Drain Sump | Lube Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-7700 | Methanol Storage Tank | Methanol | 157.45 | 4.05 | 4.05 | 43.44 | 3.67 | 4.05 | 43.44 | 3.67 | 4.05 | 43.44 | 3.67 | 4.05 | 43.44 | 3.67 | 32.04 | 14.69 |
| T-1801, T-1802 | Amine Contactor | Inlet Gas | 5,604.80 | - | 37.91 | 14458.21 | 867.28 | 62.91 | 23992.77 | 1439.21 | 112.91 | 43061.90 | 2583.08 | 112.91 | 43061.90 | 2583.08 | 22.73 | 7472.66 |
| T-2801 | TEG Contactor | Inlet Gas | 1,166.32 | - | 37.91 | 3008.65 | 180.47 | 62.91 | 4992.72 | 299.49 | 112.91 | 8960.86 | 537.52 | 112.91 | 8960.86 | 537.52 | 22.73 | 1555.00 |
| T-501 | Demethanizer | Residue Gas | 4,142.87 | - | 37.91 | 10687.00 | 503.92 | 62.91 | 17734.62 | 836.23 | 112.91 | 31829.85 | 1500.85 | 112.91 | 31829.85 | 1500.85 | 17.87 | 4341.84 |
| V-1050 | Inlet Gas Scrubber | Inlet Gas | 174.95 | - | 37.91 | 451.30 | 27.07 | 62.91 | 748.91 | 44.92 | 112.91 | 1344.13 | 80.63 | 112.91 | 1344.13 | 80.63 | 22.73 | 233.25 |
| V-5000 | Flare KO Drum | Inlet Gas | 933.05 | - | 37.91 | 2406.92 | 144.38 | 62.91 | 3994.17 | 239.59 | 112.91 | 7168.69 | 430.02 | 112.91 | 7168.69 | 430.02 | 22.73 | 1244.00 |
| V-1803 | Amine Scrubber | Inlet Gas | 977.91 | - | 37.91 | 2522.62 | 151.32 | 62.91 | 4186.18 | 251.11 | 112.91 | 7513.29 | 450.69 | 112.91 | 7513.29 | 450.69 | 22.73 | 1303.80 |
| T-2802 | TEG Scrubber | Inlet Gas | 508.00 | - | 37.91 | 1310.43 | 78.61 | 62.91 | 2174.61 | 130.44 | 112.91 | 3902.95 | 234.12 | 112.91 | 3902.95 | 234.12 | 22.73 | 677.29 |
| V-6101 | TEG Flash Tank | Glycol | 174.95 | 0.01 | 0.01 | 0.12 | 0.05 | 0.01 | 0.12 | 0.05 | 0.01 | 0.12 | 0.05 | 0.01 | 0.12 | 0.05 | 150.17 | 0.19 |
| V-6503 | BTEX Drum | Glycol | 77.75 | 0.01 | 0.01 | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 150.17 | 0.08 |
| V-442, V-443, V-444 | Mol Sieve Dehydrator | Inlet Gas | 1,904.98 | - | 37.91 | 4914.12 | 294.78 | 62.91 | 8154.77 | 489.17 | 112.91 | 14636.07 | 877.95 | 112.91 | 14636.07 | 877.95 | 22.73 | 2539.84 |
| V-447 | Regen Gas Scrubber | Inlet Gas | 9.72 | - | 37.91 | 25.07 | 1.50 | 62.91 | 41.61 | 2.50 | 112.91 | 74.67 | 4.48 | 112.91 | 74.67 | 4.48 | 22.73 | 12.96 |
| V-402 | Cold Separator | Inlet Gas | 1,119.66 | - | 37.91 | 2888.30 | 173.26 | 62.91 | 4793.01 | 287.51 | 112.91 | 8602.42 | 516.02 | 112.91 | 8602.42 | 516.02 | 22.73 | 1492.80 |
| V-404 | Product Surge Tank | Y-Grade | 9,589.37 | 397.30 | 37.91 | 24736.87 | 2673.78 | 62.91 | 41049.76 | 4437.02 | 112.91 | 73675.54 | 7963.51 | 112.91 | 73675.54 | 7963.51 | 40.97 | 23037.82 |
| V-481 | Fuel Gas Scrubber | Residue Gas | 20.73 | - | 37.91 | 53.49 | 2.52 | 62.91 | 88.76 | 4.19 | 112.91 | 159.30 | 7.51 | 112.91 | 159.30 | 7.51 | 17.87 | 21.73 |
| V-403 | Cold Drain Tank | Y-Grade | 524.84 | 397.30 | 37.91 | 1353.89 | 146.34 | 62.91 | 2246.72 | 242.85 | 112.91 | 4032.39 | 435.86 | 112.91 | 4032.39 | 435.86 | 40.97 | 1260.90 |
| V-463 | Refrigerant Accumulator | Propane | 647.95 | 174.83 | 37.91 | 1671.47 | 194.48 | 62.91 | 2773.73 | 322.73 | 112.91 | 4978.25 | 579.22 | 112.91 | 4978.25 | 579.22 | 44.10 | 1675.65 |
| V-462 | Refrigerant Economizer | Propane | 373.22 | 174.83 | 37.91 | 962.77 | 112.02 | 62.91 | 1597.67 | 185.89 | 112.91 | 2867.47 | 333.63 | 112.91 | 2867.47 | 333.63 | 44.10 | 965.18 |
| V-461 | Refrigerant Suction Scrubber | Propane | 311.02 | 174.83 | 37.91 | 802.31 | 93.35 | 62.91 | 1331.39 | 154.91 | 112.91 | 2389.56 | 278.03 | 112.91 | 2389.56 | 278.03 | 44.10 | 804.31 |
| V-464 | Refrigerant Reclaimer | Propane | 1.73 | 174.83 | 37.91 | 4.47 | 0.52 | 62.91 | 7.42 | 0.86 | 112.91 | 13.32 | 1.55 | 112.91 | 13.32 | 1.55 | 44.10 | 4.48 |

*Activity durations are conservative estimates.

**Train 4**

| Train 4 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| AC-3601, AC-3602 | Reflux Condenser | Low C Acid Gas | 237.16 | - | 37.91 | 611.78 | 68.32 | 62.91 | 1015.22 | 113.38 | 112.91 | 1822.11 | 203.49 | 112.91 | 1822.11 | 203.49 | 42.33 | 588.69 |
| AC-3501, AC-3502, AC-3503 | Amine Cooler | Amine | 635.59 | 0.01 | 0.01 | 0.43 | 0.12 | 0.01 | 0.43 | 0.12 | 0.01 | 0.43 | 0.12 | 0.01 | 0.43 | 0.12 | 105.14 | 0.48 |
| AC-5501 | TEG Cooler | Glycol | 8.71 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| AC-5502 | BTEX Condenser | Glycol | 3.47 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| A-341 | Regen Gas Cooler | Inlet Gas | 19.47 | - | 37.91 | 50.23 | 3.01 | 62.91 | 83.35 | 5.00 | 112.91 | 149.59 | 8.97 | 112.91 | 149.59 | 8.97 | 22.73 | 25.96 |
| A-301 | Expander Compressor Aftercooler | Residue Gas | 56.19 | - | 37.91 | 144.94 | 6.83 | 62.91 | 240.53 | 11.34 | 112.91 | 431.69 | 20.36 | 112.91 | 431.69 | 20.36 | 17.87 | 58.89 |
| A-361A, A-361B, A-361C, A-361D | Refrigerant Condenser | Propane | 250.84 | 174.83 | 37.91 | 647.08 | 75.29 | 62.91 | 1073.80 | 124.94 | 112.91 | 1927.25 | 224.24 | 112.91 | 1927.25 | 224.24 | 44.10 | 648.70 |
| A-161, A-162, A-163 | Refrigerant Compressor Lube Oil Cooler | Lube Oil | 62.70 | 0.01 | 0.01 | 0.04 | 0.02 | 0.01 | 0.04 | 0.02 | 0.01 | 0.04 | 0.02 | 0.01 | 0.04 | 0.02 | 200.00 | 0.09 |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | - | 37.91 | 360.94 | 17.02 | 62.91 | 598.96 | 28.24 | 112.91 | 1075.01 | 50.69 | 112.91 | 1075.01 | 50.69 | 17.87 | 146.64 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 3 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| E-204/205 | Demethanizer Side Heater and Demethanizer Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 6.71 | <0.01 | 0.14 | <0.01 | <0.01 | <0.01 | Y | Flare | RH3-FL-5100 | 98 | 0.05 | 0.07 |
| E-207 | Demethanizer Trim Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 27.51 | 0.04 | -- | -- | -- | -- | Y | Flare | RH3-FL-5100 | 98 | 0.18 | 0.31 |
| E-203 | Chiller | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 1,595.43 | 2.31 | -- | -- | -- | -- | Y | Flare | RH3-FL-5100 | 98 | 10.71 | 17.78 |
| H-741 | Regen Gas Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 5.92 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 | Y | Flare | RH3-FL-5100 | 98 | 0.04 | 0.07 |
| H-781 | HMO Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.09 | <0.01 | -- | -- | -- | -- | Y | Flare | RH3-FL-5100 | 98 | <0.01 | <0.01 |
| P-5050 | Flare KO Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.14 | 0.14 |
| P-6601, P-6602 | TEG Main Solution Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-6605 | Residue Compressor Skid Drain Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-6402, P-6403 | TEG Booster Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-6504 | BTEX Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-600, P-601, P-602 | Product Charge Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 7.83 | 0.01 | -- | -- | -- | -- | Y | Flare | RH3-FL-5100 | 98 | 0.05 | 0.09 |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 5.89 | <0.01 | -- | -- | -- | -- | Y | Flare | RH3-FL-5100 | 98 | 0.04 | 0.07 |
| P-609 | Methanol Injection Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-654 | Expander Lube Oil Makeup Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-781A, P-781B | HMO Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-7760 | Methanol Injection Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TK-6600 | Residue Compressor Drain Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-6700 | Cryo Refrig Skid Drain Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-7700 | Methanol Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 3.67 | <0.01 | 3.67 | <0.01 | -- | -- | N | N/A | N/A | -- | 3.67 | 3.67 |
| T-1801, T-1802 | Amine Contactor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 600.67 | 0.87 | 12.79 | <0.01 | 0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 4.03 | 6.69 |
| T-2801 | TEG Contactor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 125.00 | 0.18 | 2.66 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.84 | 1.39 |
| T-501 | Demethanizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | 0.09 | <0.01 | 0.09 | <0.01 | 0.01 | <0.01 | Y | Flare | RH3-FL-5100 | 98 | <0.01 | <0.01 |
| V-1050 | Inlet Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 18.75 | 0.03 | 0.40 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.13 | 0.21 |
| V-5000 | Flare KO Drum | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 100.00 | 0.14 | 2.13 | <0.01 | <0.01 | <0.01 | Y | Flare | RH3-FL-5100 | 98 | 0.67 | 1.11 |
| V-1803 | Amine Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 104.80 | 0.15 | 2.23 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.70 | 1.17 |
| T-2802 | TEG Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 54.44 | 0.08 | 1.16 | <0.01 | <0.01 | <0.01 | Y | Flare | RH2-FL-5100 | 98 | 0.37 | 0.61 |
| V-6101 | TEG Flash Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.05 | <0.01 | -- | -- | -- | -- | Y | Flare | RH2-FL-5100 | 98 | <0.01 | <0.01 |
| V-6503 | BTEX Drum | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.02 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH2-TO-5500 | 99 | <0.01 | <0.01 |
| V-442, V-443, V-444 | Mol Sieve Dehydrator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 204.16 | 0.30 | 4.35 | <0.01 | <0.01 | <0.01 | Y | Flare | RH3-FL-5100 | 98 | 1.37 | 2.28 |
| V-447 | Regen Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 1.04 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | Y | Flare | RH3-FL-5100 | 98 | <0.01 | 0.01 |
| V-402 | Cold Separator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 120.00 | 0.17 | 2.55 | <0.01 | <0.01 | <0.01 | Y | Flare | RH3-FL-5100 | 98 | 0.81 | 1.34 |
| V-404 | Product Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 5,731.34 | 8.29 | -- | -- | -- | -- | Y | Flare | RH3-FL-5100 | 98 | 38.49 | 63.87 |
| V-481 | Fuel Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| V-403 | Cold Drain Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 313.69 | 0.45 | -- | -- | -- | -- | Y | Flare | RH3-FL-5100 | 98 | 2.11 | 3.50 |
| V-463 | Refrigerant Accumulator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 579.22 | 0.84 | -- | -- | -- | -- | Y | Flare | RH3-FL-5100 | 98 | 3.89 | 6.45 |
| V-462 | Refrigerant Economizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 333.63 | 0.48 | -- | -- | -- | -- | Y | Flare | RH3-FL-5100 | 98 | 2.24 | 3.72 |
| V-461 | Refrigerant Suction Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 278.03 | 0.40 | -- | -- | -- | -- | Y | Flare | RH3-FL-5100 | 98 | 1.87 | 3.10 |
| V-464 | Refrigerant Reclaimer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 1.55 | <0.01 | -- | -- | -- | -- | Y | Flare | RH3-FL-5100 | 98 | 0.01 | 0.02 |

*Activity durations are conservative estimates.

**Train 4**

| Train 4 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| AC-3601, AC-3602 | Reflux Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | 5.70 | 0.21 | <0.01 | 0.13 | <0.01 | 0.01 | <0.01 | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | <0.01 | <0.01 |
| AC-3501, AC-3502, AC-3503 | Amine Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| AC-5501 | TEG Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| AC-5502 | BTEX Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | <0.01 | <0.01 |
| A-341 | Regen Gas Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 2.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.01 | 0.02 |
| A-301 | Expander Compressor Aftercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| A-361A, A-361B, A-361C, A-361D | Refrigerant Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 224.24 | 0.32 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 1.51 | 2.50 |
| A-161, A-162, A-163 | Refrigerant Compressor Lube Oil Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.02 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.02 | 0.02 |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 3 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| E-204/205 | Demethanizer Side Heater and Demethanizer Reboiler | 0.13 | 0.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.29 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.01 | <0.01 | 0.30 | <0.01 |
| E-207 | Demethanizer Trim Reboiler | 0.55 | 0.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.20 | <0.01 | 0.55 | <0.01 | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | <0.01 | <0.01 |
| E-203 | Chiller | 31.91 | 31.91 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.76 | <0.01 | 18.96 | 0.03 | 31.91 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-741 | Regen Gas Heater | 0.12 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.06 | <0.01 | 0.26 | <0.01 | 0.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.77 | <0.01 | 0.27 | <0.01 |
| H-781 | HMO Heater | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5050 | Flare KO Pump | 0.14 | 0.14 | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6601, P-6602 | TEG Main Solution Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6605 | Residue Compressor Skid Drain Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6705 | Cryo Refrig Skid Drain Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6402, P-6403 | TEG Booster Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6504 | BTEX Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-600, P-601, P-602 | Product Charge Pump | 0.16 | 0.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.06 | <0.01 | 0.16 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| P-1600, P-1650, P-1700 | NGL Pipeline Pump | 0.12 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.04 | <0.01 | 0.12 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| P-609 | Methanol Injection Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-654 | Expander Lube Oil Makeup Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-781A, P-781B | HMO Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7760 | Methanol Injection Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6600 | Residue Compressor Drain Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6700 | Cryo Refrig Skid Drain Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7700 | Methanol Storage Tank | 3.67 | 3.67 | 3.67 | <0.01 | 3.67 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-1801, T-1802 | Amine Contactor | 12.01 | 12.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.52 | <0.01 | 25.97 | 0.04 | 12.01 | 0.02 | 0.03 | <0.01 | <0.01 | <0.01 | 0.26 | <0.01 | 179.87 | 0.26 | 26.99 | 0.04 |
| T-2801 | TEG Contactor | 2.50 | 2.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.36 | <0.01 | 5.40 | <0.01 | 2.50 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | 37.43 | 0.05 | 5.62 | <0.01 |
| T-501 | Demethanizer | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.95 | <0.01 | 19.70 | 0.03 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1,163.88 | 1.68 | 5.22 | <0.01 |
| V-1050 | Inlet Gas Scrubber | 0.37 | 0.37 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.20 | <0.01 | 0.81 | <0.01 | 0.37 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.61 | <0.01 | 0.84 | <0.01 |
| V-5000 | Flare KO Drum | 2.00 | 2.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.09 | <0.01 | 4.32 | <0.01 | 2.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 29.94 | 0.04 | 4.49 | <0.01 |
| V-1803 | Amine Scrubber | 2.10 | 2.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.14 | <0.01 | 4.53 | <0.01 | 2.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 31.38 | 0.05 | 4.71 | <0.01 |
| T-2802 | TEG Scrubber | 1.09 | 1.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.59 | <0.01 | 2.35 | <0.01 | 1.09 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 16.30 | 0.02 | 2.45 | <0.01 |
| V-6101 | TEG Flash Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-6503 | BTEX Drum | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-442, V-443, V-444 | Mol Sieve Dehydrator | 4.08 | 4.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.22 | <0.01 | 8.83 | 0.01 | 4.08 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | 61.13 | 0.09 | 9.17 | 0.01 |
| V-447 | Regen Gas Scrubber | 0.02 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.05 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.31 | <0.01 | 0.05 | <0.01 |
| V-402 | Cold Separator | 2.40 | 2.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.30 | <0.01 | 5.19 | <0.01 | 2.40 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | 35.93 | 0.05 | 5.39 | <0.01 |
| V-404 | Product Surge Tank | 114.63 | 114.63 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10.37 | 0.02 | 41.30 | 0.06 | 114.63 | 0.17 | -- | -- | -- | -- | -- | -- | 7.25 | 0.01 | 0.14 | <0.01 |
| V-481 | Fuel Gas Scrubber | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.83 | <0.01 | 1.31 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-403 | Cold Drain Tank | 6.27 | 6.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.57 | <0.01 | 2.26 | <0.01 | 6.27 | <0.01 | -- | -- | -- | -- | -- | -- | 0.40 | <0.01 | <0.01 | <0.01 |
| V-463 | Refrigerant Accumulator | 11.58 | 11.58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.73 | <0.01 | 6.88 | <0.01 | 11.58 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-462 | Refrigerant Economizer | 6.67 | 6.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.00 | <0.01 | 3.97 | <0.01 | 6.67 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-461 | Refrigerant Suction Scrubber | 5.56 | 5.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.83 | <0.01 | 3.30 | <0.01 | 5.56 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-464 | Refrigerant Reclaimer | 0.03 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| *Activity durations are conservative estimates. | **Train 3 Vented SSM** | **38.55** | **0.06** | **3.87** | **<0.01** | **<0.01** | **<0.01** | **375.28** | **0.54** | **159.45** | **0.23** | | | | | | | | | | | | | | | | | | |
| | **RH2-FL-5100** | | | | | | | | | | | | | **10.25** | **0.01** | **40.84** | **0.06** | **18.89** | **0.03** | **0.04** | **<0.01** | **<0.01** | **<0.01** | **0.40** | **<0.01** | **282.82** | **0.41** | **42.44** | **0.06** |
| | **RH3-FL-5100** | | | | | | | | | | | | | **32.83** | **0.05** | **130.74** | **0.19** | **210.47** | **0.30** | **0.04** | **<0.01** | **<0.01** | **<0.01** | **0.20** | **<0.01** | **1,326.90** | **1.92** | **26.36** | **0.04** |
| | **RH2-TO-5500** | | | | | | | | | | | | | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** |

**Train 4**

| Train 4 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | Vented Emissions: TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Flared Emissions: Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-3601, AC-3602 | Reflux Condenser | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 197.58 | 0.29 | <0.01 | <0.01 |
| AC-3501, AC-3502, AC-3503 | Amine Cooler | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-5501 | TEG Cooler | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-5502 | BTEX Condenser | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-341 | Regen Gas Cooler | 0.04 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.62 | <0.01 | 0.09 | <0.01 |
| A-301 | Expander Compressor Aftercooler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 15.79 | 0.02 | 0.07 | <0.01 |
| A-361A, A-361B, A-361C, A-361D | Refrigerant Condenser | 4.48 | 4.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.67 | <0.01 | 2.66 | <0.01 | 4.48 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-161, A-162, A-163 | Refrigerant Compressor Lube Oil Cooler | 0.02 | 0.02 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 39.31 | 0.06 | 8.81 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 4 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | Residue Gas | 126.72 | - | 37.91 | 326.89 | 15.41 | 62.91 | 542.46 | 25.58 | 112.91 | 973.60 | 45.91 | 112.91 | 973.60 | 45.91 | 17.87 | 132.81 |
| C-161, C-162, C-163 | Refrigerant Compressor | Propane | 973.73 | 174.83 | 37.91 | 2511.86 | 292.26 | 62.91 | 4168.32 | 484.99 | 112.91 | 7481.24 | 870.45 | 112.91 | 7481.24 | 870.45 | 44.10 | 2518.14 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1,011.48 | - | 37.91 | 2609.23 | 123.03 | 62.91 | 4329.91 | 204.17 | 112.91 | 7771.26 | 366.43 | 112.91 | 7771.26 | 366.43 | 17.87 | 1060.06 |
| EC-101 | Expander/Compressor | Inlet Gas | 122.34 | - | 37.91 | 315.60 | 18.93 | 62.91 | 523.73 | 31.42 | 112.91 | 939.98 | 56.38 | 112.91 | 939.98 | 56.38 | 22.73 | 163.12 |
| C-141 | Regen Gas Compressor | Inlet Gas | 2.54 | - | 37.91 | 6.55 | 0.39 | 62.91 | 10.87 | 0.65 | 112.91 | 19.51 | 1.17 | 112.91 | 19.51 | 1.17 | 22.73 | 3.39 |
| F-41530 | Seal Gas Filter | Residue Gas | 0.16 | - | 37.91 | 0.41 | 0.02 | 62.91 | 0.68 | 0.03 | 112.91 | 1.22 | 0.06 | 112.91 | 1.22 | 0.06 | 17.87 | 0.17 |
| F-441 | Inlet Filter Coalescer | Inlet Gas | 134.77 | - | 37.91 | 347.67 | 20.85 | 62.91 | 576.94 | 34.61 | 112.91 | 1035.48 | 62.11 | 112.91 | 1035.48 | 62.11 | 22.73 | 179.69 |
| F-408 | Residue Gas Filter/Coalescer | Residue Gas | 16.85 | - | 37.91 | 43.46 | 2.05 | 62.91 | 72.12 | 3.40 | 112.91 | 129.43 | 6.10 | 112.91 | 129.43 | 6.10 | 17.87 | 17.66 |
| F-3200 | Pre-Carbon Solids Filter | Amine | 31.68 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 105.14 | 0.02 |
| F-3201, F-3202 | Amine Carbon Filter | Amine | 1,105.84 | 0.01 | 0.01 | 0.75 | 0.21 | 0.01 | 0.75 | 0.21 | 0.01 | 0.75 | 0.21 | 0.01 | 0.75 | 0.21 | 105.14 | 0.83 |
| F-3203, F-3204 | Amine Rich Solids Filter | Amine | 63.36 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 105.14 | 0.05 |
| F-3305 | Amine Lean Solids Filter | Amine | 31.68 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 105.14 | 0.02 |
| F-3805 | Hot Oil Filter | Hot Oil | 24.25 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 200.00 | 0.03 |
| F-5201 | TEG Pre-Carbon Filter | Glycol | 1.60 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| F-5202 | TEG Carbon Filter | Glycol | 105.83 | 0.01 | 0.01 | 0.07 | 0.03 | 0.01 | 0.07 | 0.03 | 0.01 | 0.07 | 0.03 | 0.01 | 0.07 | 0.03 | 150.17 | 0.11 |
| F-5203 | TEG Rich Solids Filter | Glycol | 1.60 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| F-5401 | TEG Lean Solids Filter | Glycol | 1.60 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| F-41001A, F-41001B | Condensate Filter | Condensate | 48.38 | 6.80 | 6.80 | 22.39 | 5.53 | 6.80 | 22.39 | 5.53 | 6.80 | 22.39 | 5.53 | 6.80 | 22.39 | 5.53 | 93.55 | 22.10 |
| F-41225 | Amine Inlet Gas Filter Coalescer | Inlet Gas | 148.17 | - | 37.91 | 382.21 | 22.93 | 62.91 | 634.26 | 38.05 | 112.91 | 1138.36 | 68.28 | 112.91 | 1138.36 | 68.28 | 22.73 | 197.54 |
| F-41275 | Glycol Contactor Inlet Gas Filter Coalescer | Inlet Gas | 148.17 | - | 37.91 | 382.21 | 22.93 | 62.91 | 634.26 | 38.05 | 112.91 | 1138.36 | 68.28 | 112.91 | 1138.36 | 68.28 | 22.73 | 197.54 |
| F-41500 | Fuel Gas Filter Coalescer | Residue Gas | 17.33 | - | 37.91 | 44.71 | 2.11 | 62.91 | 74.20 | 3.50 | 112.91 | 133.17 | 6.28 | 112.91 | 133.17 | 6.28 | 17.87 | 18.17 |
| F-445, F-446 | Mol Sieve Dust Filter | Inlet Gas | 62.72 | - | 37.91 | 161.78 | 9.70 | 62.91 | 268.47 | 16.10 | 112.91 | 481.85 | 28.90 | 112.91 | 481.85 | 28.90 | 22.73 | 83.62 |
| E-4101, E-4102 | Gas/Gas Exchanger | Inlet Gas | 255.43 | - | 37.91 | 658.90 | 39.52 | 62.91 | 1093.41 | 65.59 | 112.91 | 1962.44 | 117.72 | 112.91 | 1962.44 | 117.72 | 22.73 | 340.55 |
| E-3301, E-3302 | Amine Lean/Rich Exchanger | Amine | 71.85 | 0.01 | 0.01 | 0.05 | 0.01 | 0.01 | 0.05 | 0.01 | 0.01 | 0.05 | 0.01 | 0.01 | 0.05 | 0.01 | 105.14 | 0.05 |
| E-3401, E-3404 | Amine Reboiler | Amine | 1,308.19 | 0.01 | 0.01 | 0.89 | 0.25 | 0.01 | 0.89 | 0.25 | 0.01 | 0.89 | 0.25 | 0.01 | 0.89 | 0.25 | 105.14 | 0.99 |
| H-5301 | TEG Reboiler | Glycol | 914.69 | 0.01 | 0.01 | 0.62 | 0.25 | 0.01 | 0.62 | 0.25 | 0.01 | 0.62 | 0.25 | 0.01 | 0.62 | 0.25 | 150.17 | 0.99 |
| E-5204 | TEG/TEG Exchanger | Glycol | 24.08 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 150.17 | 0.03 |
| E-201/E-206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | Inlet Gas | 315.27 | - | 37.91 | 813.28 | 48.78 | 62.91 | 1349.60 | 80.96 | 112.91 | 2422.25 | 145.30 | 112.91 | 2422.25 | 145.30 | 22.73 | 420.34 |
| E-202 | Gas/Product Exchanger | Y-Grade | 149.11 | 397.30 | 37.91 | 384.64 | 41.58 | 62.91 | 638.29 | 68.99 | 112.91 | 1145.60 | 123.83 | 112.91 | 1145.60 | 123.83 | 40.97 | 358.22 |
| E-204/205 | Demethanizer Side Heater and Demethanizer Reboiler | Inlet Gas | 62.59 | - | 37.91 | 161.46 | 9.69 | 62.91 | 267.93 | 16.07 | 112.91 | 480.88 | 28.85 | 112.91 | 480.88 | 28.85 | 22.73 | 83.45 |
| E-207 | Demethanizer Trim Reboiler | Y-Grade | 46.03 | 397.30 | 37.91 | 118.73 | 12.83 | 62.91 | 197.03 | 21.30 | 112.91 | 353.62 | 38.22 | 112.91 | 353.62 | 38.22 | 40.97 | 110.57 |
| E-203 | Chiller | Propane | 1,784.74 | 174.83 | 37.91 | 4603.95 | 535.67 | 62.91 | 7640.05 | 888.93 | 112.91 | 13712.26 | 1595.43 | 112.91 | 13712.26 | 1595.43 | 44.10 | 4615.47 |
| TO-45500 | Thermal Oxidizer | Low C Acid Gas | 6,565.93 | - | 37.91 | 16937.56 | 1891.59 | 62.91 | 28107.14 | 3139.01 | 112.91 | 50446.31 | 5633.85 | 112.91 | 50446.31 | 5633.85 | 42.33 | 16298.30 |
| H-3901, H-4001 | Hot Oil Heater | Hot Oil | 1,079.63 | 0.01 | 0.01 | 0.73 | 0.39 | 0.01 | 0.73 | 0.39 | 0.01 | 0.73 | 0.39 | 0.01 | 0.73 | 0.39 | 200.00 | 1.55 |
| H-741 | Regen Gas Heater | Inlet Gas | 55.24 | - | 37.91 | 142.50 | 8.55 | 62.91 | 236.47 | 14.18 | 112.91 | 424.42 | 25.46 | 112.91 | 424.42 | 25.46 | 22.73 | 73.65 |
| H-781 | HMO Heater | Hot Oil | 244.17 | 0.01 | 0.01 | 0.17 | 0.09 | 0.01 | 0.17 | 0.09 | 0.01 | 0.17 | 0.09 | 0.01 | 0.17 | 0.09 | 200.00 | 0.35 |
| H-41100 | Liquid Inline Heater | Condensate | 3.45 | 6.80 | 6.80 | 1.60 | 0.39 | 6.80 | 1.60 | 0.39 | 6.80 | 1.60 | 0.39 | 6.80 | 1.60 | 0.39 | 93.55 | 1.58 |
| H-41505 | Fuel Gas Inline Heater | Residue Gas | 2.53 | - | 37.91 | 6.52 | 0.31 | 62.91 | 10.82 | 0.51 | 112.91 | 19.43 | 0.92 | 112.91 | 19.43 | 0.92 | 17.87 | 2.65 |
| P-45050 | Flare KO Pump | Condensate | 1.28 | 6.80 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 93.55 | 0.58 |
| P-47015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-45515 | CO2 Vent Scrubber Pump | Low C Acid Gas | 1.28 | - | 37.91 | 3.30 | 0.37 | 62.91 | 5.48 | 0.61 | 112.91 | 9.83 | 1.10 | 112.91 | 9.83 | 1.10 | 42.33 | 3.18 |
| P-47035 | Glycol Storage Pump | Glycol | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-3802, P-3803, P-3804 | Hot Oil Pump | Hot Oil | 17.88 | 0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 200.00 | 0.03 |
| P-3303, P-3304 | Amine Booster Pump | Amine | 6.66 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-3605 | Defoaming Pump | Amine | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-47021 | Amine Make Up Pump | Amine | 0.72 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-3702, P-3703, P-3704 | Amine Main Solution Pump | Amine | 8.90 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-3603, P-3604 | Reflux Pump | Amine | 1.08 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-46305 | Amine Process Drain Tank Pump | Amine | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-46355 | Amine Area Sump Pump | Amine | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-5601, P-5602 | TEG Main Solution Pump | Glycol | 2.61 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-46405 | Glycol Process Drain Sump Pump | Glycol | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-46455 | Glycol Area Sump Pump | Glycol | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-46505 | Amine HMO Area Sump Pump | Hot Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-46555 | CO2 Vent Stack Area Sump Pump | Low C Acid Gas | 1.28 | - | 37.91 | 3.30 | 0.37 | 62.91 | 5.48 | 0.61 | 112.91 | 9.83 | 1.10 | 112.91 | 9.83 | 1.10 | 42.33 | 3.18 |
| P-46605 | Residue Compressor Area Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-46755 | Cryo HMO Skid Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-46705 | Cryo / Refrig Area Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-5402, P-5403 | TEG Booster Pump | Glycol | 1.32 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-5504 | TEG Diaphragm Condensate Drum Pump | Glycol | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 4 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| C-161, C-162, C-163 | Refrigerant Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 870.45 | 1.26 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 5.85 | 9.70 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | 0.02 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | 0.01 |
| EC-101 | Expander/Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 13.11 | 0.02 | 0.28 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 4.40 | 7.31 |
| C-141 | Regen Gas Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 0.09 | 0.15 |
| F-41530 | Seal Gas Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-441 | Inlet Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 14.44 | 0.02 | 0.31 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 4.85 | 8.05 |
| F-408 | Residue Gas Filter/Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-3200 | Pre-Carbon Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-3201, F-3202 | Amine Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | 0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.01 | 0.01 |
| F-3203, F-3204 | Amine Rich Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-3305 | Amine Lean Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-3805 | Hot Oil Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-5201 | TEG Pre-Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-5202 | TEG Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.03 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.03 | 0.03 |
| F-5203 | TEG Rich Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-5401 | TEG Lean Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-41001A, F-41001B | Condensate Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 5.28 | 0.01 | 0.54 | <0.01 | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.11 | 0.11 |
| F-41225 | Amine Inlet Gas Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 15.88 | 0.02 | 0.34 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.11 | 0.18 |
| F-41275 | Glycol Contactor Inlet Gas Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 15.88 | 0.02 | 0.34 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.11 | 0.18 |
| F-41500 | Fuel Gas Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-445, F-446 | Mol Sieve Dust Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 6.72 | <0.01 | 0.14 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 2.26 | 3.74 |
| E-4101, E-4102 | Gas/Gas Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 27.37 | 0.04 | 0.58 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.18 | 0.31 |
| E-3301, E-3302 | Amine Lean/Rich Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| E-3401, E-3404 | Amine Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | 0.01 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | <0.01 | <0.01 |
| H-5301 | TEG Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.25 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | <0.01 | <0.01 |
| E-5204 | TEG/TEG Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| E-201/E-206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 33.79 | 0.05 | 0.72 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.23 | 0.38 |
| E-202 | Gas/Product Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 89.12 | 0.13 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.60 | 0.99 |
| E-204/205 | Demethanizer Side Heater and Demethanizer Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 6.71 | <0.01 | 0.14 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.05 | 0.07 |
| E-207 | Demethanizer Trim Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 27.51 | 0.04 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.18 | 0.31 |
| E-203 | Chiller | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 1,595.43 | 2.31 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 10.71 | 17.78 |
| TO-45500 | Thermal Oxidizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | 5.70 | 5.86 | <0.01 | 3.59 | <0.01 | 0.38 | <0.01 | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | 0.02 | 0.03 |
| H-3901, H-4001 | Hot Oil Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.39 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| H-741 | Regen Gas Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 5.92 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.04 | 0.07 |
| H-781 | HMO Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.09 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| H-41100 | Liquid Inline Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 0.38 | <0.01 | 0.04 | <0.01 | -- | -- | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| H-41505 | Fuel Gas Inline Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| P-45050 | Flare KO Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.14 | 0.14 |
| P-47015 | Residue Compressor Lube Oil Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-45515 | CO2 Vent Scrubber Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-47035 | Glycol Storage Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-3802, P-3803, P-3804 | Hot Oil Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-3303, P-3304 | Amine Booster Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-3605 | Defoaming Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-47021 | Amine Make Up Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-3702, P-3703, P-3704 | Amine Main Solution Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-3603, P-3604 | Reflux Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-46305 | Amine Process Drain Tank Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-46355 | Amine Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-5601, P-5602 | TEG Main Solution Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-46405 | Glycol Process Drain Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-46455 | Glycol Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-46505 | Amine HMO Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-46555 | CO2 Vent Stack Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-46605 | Residue Compressor Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-46755 | Cryo HMO Skid Drain Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-46705 | Cryo / Refrig Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-5402, P-5403 | TEG Booster Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-5504 | TEG Diaphragm Condensate Drum Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 4 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| HAL-1300-AC-1, HAL-1350-AC-1, HAL-1400-AC-1, HAL-1450-AC-1 | Residue Compressor Aftercooler | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 35.60 | 0.05 | 7.98 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-161, C-162, C-163 | Refrigerant Compressor | 17.41 | 17.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.60 | <0.01 | 10.35 | 0.01 | 17.41 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | 0.02 | 0.02 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 284.16 | 0.41 | 63.72 | 0.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EC-101 | Expander/Compressor | 13.11 | 13.11 | 13.11 | 0.02 | 0.06 | <0.01 | <0.01 | <0.01 | 3.93 | <0.01 | 29.46 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-141 | Regen Gas Compressor | 0.27 | 0.27 | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 0.61 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-41530 | Seal Gas Filter | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-441 | Inlet Filter Coalescer | 14.44 | 14.44 | 14.44 | 0.02 | 0.07 | <0.01 | <0.01 | <0.01 | 4.33 | <0.01 | 32.45 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-408 | Residue Gas Filter/Coalescer | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.73 | <0.01 | 1.06 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3200 | Pre-Carbon Solids Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3201, F-3202 | Amine Carbon Filter | 0.01 | 0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3203, F-3204 | Amine Rich Solids Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3305 | Amine Lean Solids Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-3805 | Hot Oil Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5201 | TEG Pre-Carbon Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5202 | TEG Carbon Filter | 0.03 | 0.03 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5203 | TEG Rich Solids Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5401 | TEG Lean Solids Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-41001A, F-41001B | Condensate Filter | 0.11 | 0.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.04 | <0.01 | 0.11 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- |
| F-41225 | Amine Inlet Gas Filter Coalescer | 0.32 | 0.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.17 | <0.01 | 0.69 | <0.01 | 0.32 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.75 | <0.01 | 0.71 | <0.01 |
| F-41275 | Glycol Contactor Inlet Gas Filter Coalescer | 0.32 | 0.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.17 | <0.01 | 0.69 | <0.01 | 0.32 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.75 | <0.01 | 0.71 | <0.01 |
| F-41500 | Fuel Gas Filter Coalescer | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.87 | <0.01 | 1.09 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-445, F-446 | Mol Sieve Dust Filter | 6.72 | 6.72 | 6.72 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | 2.01 | <0.01 | 15.10 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-4101, E-4102 | Gas/Gas Exchanger | 0.55 | 0.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.30 | <0.01 | 1.18 | <0.01 | 0.55 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 8.20 | 0.01 | 1.23 | <0.01 |
| E-3301, E-3302 | Amine Lean/Rich Exchanger | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-3401, E-3404 | Amine Reboiler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-5301 | TEG Reboiler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-5204 | TEG/TEG Exchanger | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-201/E-206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | 0.68 | 0.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.37 | <0.01 | 1.46 | <0.01 | 0.68 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 10.12 | 0.01 | 1.52 | <0.01 |
| E-202 | Gas/Product Exchanger | 1.78 | 1.78 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.16 | <0.01 | 0.64 | <0.01 | 1.78 | <0.01 | -- | -- | -- | -- | -- | -- | 0.11 | <0.01 | <0.01 | <0.01 |
| E-204/205 | Demethanizer Side Heater and Demethanizer Reboiler | 0.13 | 0.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.29 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.01 | <0.01 | 0.30 | <0.01 |
| E-207 | Demethanizer Trim Reboiler | 0.55 | 0.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.20 | <0.01 | 0.55 | <0.01 | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | <0.01 | <0.01 |
| E-203 | Chiller | 31.91 | 31.91 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.76 | <0.01 | 18.96 | 0.03 | 31.91 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TO-45500 | Thermal Oxidizer | 0.06 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | 0.20 | 0.04 | 0.12 | 0.06 | <0.01 | 0.70 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 5,470.24 | 7.91 | 0.06 | <0.01 |
| H-3901, H-4001 | Hot Oil Heater | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-741 | Regen Gas Heater | 0.12 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.06 | <0.01 | 0.26 | <0.01 | 0.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.77 | <0.01 | 0.27 | <0.01 |
| H-781 | HMO Heater | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-41100 | Liquid Inline Heater | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| H-41505 | Fuel Gas Inline Heater | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.71 | <0.01 | <0.01 | <0.01 |
| P-45050 | Flare KO Pump | 0.14 | 0.14 | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-47015 | Residue Compressor Lube Oil Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-45515 | CO2 Vent Scrubber Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.07 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-47035 | Glycol Storage Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3802, P-3803, P-3804 | Hot Oil Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3303, P-3304 | Amine Booster Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3605 | Defoaming Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-47021 | Amine Make Up Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3702, P-3703, P-3704 | Amine Main Solution Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-3603, P-3604 | Reflux Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46305 | Amine Process Drain Tank Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46355 | Amine Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5601, P-5602 | TEG Main Solution Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46405 | Glycol Process Drain Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46455 | Glycol Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46505 | Amine HMO Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46555 | CO2 Vent Stack Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.07 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46605 | Residue Compressor Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46755 | Cryo HMO Skid Drain Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-46705 | Cryo / Refrig Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5402, P-5403 | TEG Booster Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5504 | TEG Diaphragm Condensate Drum Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 4 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| P-600, P-601, P-602 | Product Charge Pump | Y-Grade | 13.11 | 397.30 | 37.91 | 33.81 | 3.65 | 62.91 | 56.11 | 6.07 | 112.91 | 100.71 | 10.89 | 112.91 | 100.71 | 10.89 | 40.97 | 31.49 |
| P-41600, P-41650, P-41700 | NGL Pipeline Pump | Y-Grade | 9.85 | 397.30 | 37.91 | 25.41 | 2.75 | 62.91 | 42.16 | 4.56 | 112.91 | 75.67 | 8.18 | 112.91 | 75.67 | 8.18 | 40.97 | 23.66 |
| P-609 | Methanol Injection Pump | Methanol | 0.11 | 4.05 | 4.05 | 0.03 | <0.01 | 4.05 | 0.03 | <0.01 | 4.05 | 0.03 | <0.01 | 4.05 | 0.03 | <0.01 | 32.04 | 0.01 |
| P-654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-781A, P-781B | HMO Pump | Hot Oil | 2.00 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-606, P-607 | Demethanizer Reflux Pump | Y-Grade | 1.66 | 397.30 | 37.91 | 4.27 | 0.46 | 62.91 | 7.09 | 0.77 | 112.91 | 12.72 | 1.37 | 112.91 | 12.72 | 1.37 | 40.97 | 3.98 |
| P-47760 | Methanol Injection Pump | Methanol | 0.38 | 4.05 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 32.04 | 0.04 |
| TK-46200, TK-46210, TK-46220, TK-46230 | Slop Tank | Lube Oil | 9,952.57 | 0.01 | 0.01 | 6.77 | 3.57 | 0.01 | 6.77 | 3.57 | 0.01 | 6.77 | 3.57 | 0.01 | 6.77 | 3.57 | 200.00 | 14.30 |
| TK-47010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.34 | 0.01 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 200.00 | 0.22 |
| TK-47020 | Amine Storage Tank | Amine | 2,488.14 | 0.01 | 0.01 | 1.69 | 0.47 | 0.01 | 1.69 | 0.47 | 0.01 | 1.69 | 0.47 | 0.01 | 1.69 | 0.47 | 105.14 | 1.88 |
| HE-47025 | Amine Tank Immersion Heater | Amine | 0.00 | 0.01 | 0.01 | -- | -- | 0.01 | -- | -- | 0.01 | -- | -- | 0.01 | -- | -- | 105.14 | -- |
| TK-47030 | TEG Storage Tank | Glycol | 935.64 | 0.01 | 0.01 | 0.64 | 0.25 | 0.01 | 0.64 | 0.25 | 0.01 | 0.64 | 0.25 | 0.01 | 0.64 | 0.25 | 150.17 | 1.01 |
| TK-46300 | Amine Process Drain Tank | Amine | 623.76 | 0.01 | 0.01 | 0.42 | 0.12 | 0.01 | 0.42 | 0.12 | 0.01 | 0.42 | 0.12 | 0.01 | 0.42 | 0.12 | 105.14 | 0.47 |
| TK-46400 | Glycol Process Drain Sump | Glycol | 124.41 | 0.01 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 150.17 | 0.13 |
| TK-46350 | Amine Area Sump | Amine | 124.41 | 0.01 | 0.01 | 0.08 | 0.02 | 0.01 | 0.08 | 0.02 | 0.01 | 0.08 | 0.02 | 0.01 | 0.08 | 0.02 | 105.14 | 0.09 |
| TK-46450 | Glycol Area Sump | Glycol | 124.41 | 0.01 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 150.17 | 0.13 |
| TK-46500 | Amine HMO Area Sump | Hot Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-46550 | CO2 Vent Stack Area Sump | Low C Acid Gas | 124.41 | - | 37.91 | 320.92 | 35.84 | 62.91 | 532.56 | 59.48 | 112.91 | 955.82 | 106.75 | 112.91 | 955.82 | 106.75 | 42.33 | 308.81 |
| TK-46600 | Residue Compressor Area Sump | Lube Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-46750 | Cryo HMO Skid Drain Sump | Lube Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-46700 | Cryo / Refrig Area Sump | Lube Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-47700 | Methanol Storage Tank | Methanol | 221.17 | 4.05 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 32.04 | 20.63 |
| T-4201, T-4202 | Amine Contactor | Inlet Gas | 4,015.15 | - | 37.91 | 10357.54 | 621.30 | 62.91 | 17187.89 | 1031.02 | 112.91 | 30848.58 | 1850.46 | 112.91 | 30848.58 | 1850.46 | 22.73 | 5353.24 |
| T-3402/T-3403 | Amine Still/Reflux Accumulator | Low C Acid Gas | 7,317.55 | - | 37.91 | 18876.46 | 2108.13 | 62.91 | 31324.67 | 3498.34 | 112.91 | 56221.09 | 6278.78 | 112.91 | 56221.09 | 6278.78 | 42.33 | 18164.02 |
| T-5701 | TEG Contactor | Inlet Gas | 1,088.56 | - | 37.91 | 2808.07 | 168.44 | 62.91 | 4659.87 | 279.52 | 112.91 | 8363.47 | 501.69 | 112.91 | 8363.47 | 501.69 | 22.73 | 1451.34 |
| T-5302 | TEG Still | Glycol | 55.29 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 150.17 | 0.06 |
| T-501 | Demethanizer | Residue Gas | 4,142.87 | - | 37.91 | 10687.00 | 503.92 | 62.91 | 17734.62 | 836.23 | 112.91 | 31829.85 | 1500.85 | 112.91 | 31829.85 | 1500.85 | 17.87 | 4341.84 |
| T-502 | Demethanizer Side Tower | Residue Gas | 3,149.05 | - | 37.91 | 8123.34 | 383.03 | 62.91 | 13480.33 | 635.63 | 112.91 | 24194.32 | 1140.82 | 112.91 | 24194.32 | 1140.82 | 17.87 | 3300.29 |
| V-41000 | Slug Catcher | Inlet Gas | 18,528.13 | - | 37.91 | 47795.40 | 2867.02 | 62.91 | 79314.39 | 4757.70 | 112.91 | 142352.38 | 8539.05 | 112.91 | 142352.38 | 8539.05 | 22.73 | 24702.82 |
| V-41050 | Inlet Gas Scrubber | Inlet Gas | 174.95 | - | 37.91 | 451.30 | 27.07 | 62.91 | 748.91 | 44.92 | 112.91 | 1344.13 | 80.63 | 112.91 | 1344.13 | 80.63 | 22.73 | 233.25 |
| V-45000 | Flare KO Drum | Inlet Gas | 933.05 | - | 37.91 | 2406.92 | 144.38 | 62.91 | 3994.17 | 239.59 | 112.91 | 7168.69 | 430.02 | 112.91 | 7168.69 | 430.02 | 22.73 | 1244.00 |
| V-45510 | CO2 Vent Scrubber | Low C Acid Gas | 365.01 | - | 37.91 | 941.59 | 105.16 | 62.91 | 1562.54 | 174.50 | 112.91 | 2804.42 | 313.20 | 112.91 | 2804.42 | 313.20 | 42.33 | 906.06 |
| V-45520 | CO2 Vent Stack | Low C Acid Gas | 207.35 | - | 37.91 | 534.87 | 59.73 | 62.91 | 887.59 | 99.13 | 112.91 | 1593.04 | 177.91 | 112.91 | 1593.04 | 177.91 | 42.33 | 514.68 |
| V-3801 | Hot Oil Expansion Tank | Hot Oil | 2,591.81 | 0.01 | 0.01 | 1.76 | 0.93 | 0.01 | 1.76 | 0.93 | 0.01 | 1.76 | 0.93 | 0.01 | 1.76 | 0.93 | 200.00 | 3.72 |
| V-4203 | Amine Scrubber | Inlet Gas | 730.03 | - | 37.91 | 1883.19 | 112.96 | 62.91 | 3125.07 | 187.46 | 112.91 | 5608.83 | 336.45 | 112.91 | 5608.83 | 336.45 | 22.73 | 973.32 |
| V-3101 | Amine Flash Tank | Amine | 2,591.81 | 0.01 | 0.01 | 1.76 | 0.49 | 0.01 | 1.76 | 0.49 | 0.01 | 1.76 | 0.49 | 0.01 | 1.76 | 0.49 | 105.14 | 1.96 |
| V-3701 | Amine Surge Tank | Amine | 2,591.81 | 0.01 | 0.01 | 1.76 | 0.49 | 0.01 | 1.76 | 0.49 | 0.01 | 1.76 | 0.49 | 0.01 | 1.76 | 0.49 | 105.14 | 1.96 |
| T-5702 | TEG Scrubber | Inlet Gas | 261.34 | - | 37.91 | 674.16 | 40.44 | 62.91 | 1118.74 | 67.11 | 112.91 | 2007.90 | 120.44 | 112.91 | 2007.90 | 120.44 | 22.73 | 348.44 |
| V-5101 | TEG Flash Tank | Glycol | 215.98 | 0.01 | 0.01 | 0.15 | 0.06 | 0.01 | 0.15 | 0.06 | 0.01 | 0.15 | 0.06 | 0.01 | 0.15 | 0.06 | 150.17 | 0.23 |
| V-5503 | TEG Vent Condensate Drum | Glycol | 77.75 | 0.01 | 0.01 | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 150.17 | 0.08 |
| V-442, V-443, V-444 | Mol Sieve Dehydrator | Inlet Gas | 1,904.98 | - | 37.91 | 4914.12 | 294.78 | 62.91 | 8154.77 | 489.17 | 112.91 | 14636.07 | 877.95 | 112.91 | 14636.07 | 877.95 | 22.73 | 2539.84 |
| V-447 | Regen Gas Scrubber | Inlet Gas | 9.72 | - | 37.91 | 25.07 | 1.50 | 62.91 | 41.61 | 2.50 | 112.91 | 74.67 | 4.48 | 112.91 | 74.67 | 4.48 | 22.73 | 12.96 |
| V-402 | Cold Separator | Inlet Gas | 1,119.66 | - | 37.91 | 2888.30 | 173.26 | 62.91 | 4793.01 | 287.51 | 112.91 | 8602.42 | 516.02 | 112.91 | 8602.42 | 516.02 | 22.73 | 1492.80 |
| V-404 | Product Surge Tank | Y-Grade | 9,589.37 | 397.30 | 37.91 | 24736.87 | 2673.78 | 62.91 | 41049.76 | 4437.02 | 112.91 | 73675.54 | 7963.51 | 112.91 | 73675.54 | 7963.51 | 40.97 | 23037.82 |
| V-481 | Fuel Gas Scrubber | Residue Gas | 20.73 | - | 37.91 | 53.49 | 2.52 | 62.91 | 88.76 | 4.19 | 112.91 | 159.30 | 7.51 | 112.91 | 159.30 | 7.51 | 17.87 | 21.73 |
| V-403 | Cold Drain Tank | Y-Grade | 524.84 | 397.30 | 37.91 | 1353.89 | 146.34 | 62.91 | 2246.72 | 242.85 | 112.91 | 4032.39 | 435.86 | 112.91 | 4032.39 | 435.86 | 40.97 | 1260.90 |
| V-43100 | Amine Fuel Gas Scrubber | Inlet Gas | 77.75 | - | 37.91 | 200.58 | 12.03 | 62.91 | 332.85 | 19.97 | 112.91 | 597.39 | 35.83 | 112.91 | 597.39 | 35.83 | 22.73 | 103.67 |
| V-463 | Refrigerant Accumulator | Propane | 647.95 | 174.83 | 37.91 | 1671.47 | 194.48 | 62.91 | 2773.73 | 322.73 | 112.91 | 4978.25 | 579.22 | 112.91 | 4978.25 | 579.22 | 44.10 | 1675.65 |
| V-462 | Refrigerant Economizer | Propane | 373.22 | 174.83 | 37.91 | 962.77 | 112.02 | 62.91 | 1597.67 | 185.89 | 112.91 | 2867.47 | 333.63 | 112.91 | 2867.47 | 333.63 | 44.10 | 965.18 |
| V-461 | Refrigerant Suction Scrubber | Propane | 311.02 | 174.83 | 37.91 | 802.31 | 93.35 | 62.91 | 1331.39 | 154.91 | 112.91 | 2389.56 | 278.03 | 112.91 | 2389.56 | 278.03 | 44.10 | 804.31 |
| V-464 | Refrigerant Reclaimer | Propane | 1.73 | 174.83 | 37.91 | 4.47 | 0.52 | 62.91 | 7.42 | 0.86 | 112.91 | 13.32 | 1.55 | 112.91 | 13.32 | 1.55 | 44.10 | 4.48 |

*Activity durations are conservative estimates.

**Train 5**

| Train 5 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| AC-53601, AC-53602 | Reflux Condenser | Low C Acid Gas | 237.16 | - | 37.91 | 611.78 | 68.32 | 62.91 | 1015.22 | 113.38 | 112.91 | 1822.11 | 203.49 | 112.91 | 1822.11 | 203.49 | 42.33 | 588.69 |
| AC-53501, AC-53502, AC-53503 | Amine Cooler | Amine | 635.59 | 0.01 | 0.01 | 0.43 | 0.12 | 0.01 | 0.43 | 0.12 | 0.01 | 0.43 | 0.12 | 0.01 | 0.43 | 0.12 | 105.14 | 0.48 |
| AC-55501 | TEG Cooler | Glycol | 8.71 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 4 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| P-600, P-601, P-602 | Product Charge Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 7.83 | 0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.05 | 0.09 |
| P-41600, P-41650, P-41700 | NGL Pipeline Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 5.89 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.04 | 0.07 |
| P-609 | Methanol Injection Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-654 | Expander Lube Oil Makeup Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-781A, P-781B | HMO Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-606, P-607 | Demethanizer Reflux Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 0.99 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | <0.01 | 0.01 |
| P-47760 | Methanol Injection Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TK-46200, TK-46210, TK-46220, TK-46230 | Slop Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 3.57 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 3.57 | 3.57 |
| TK-47010 | Residue Compressor Lube Oil Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.05 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.05 | 0.05 |
| TK-47020 | Amine Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | 0.02 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.02 | 0.02 |
| HE-47025 | Amine Tank Immersion Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | -- | -- | -- | -- | -- | -- | N | N/A | N/A | -- | -- | -- |
| TK-47030 | TEG Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.25 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.25 | 0.25 |
| TK-46300 | Amine Process Drain Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TK-46400 | Glycol Process Drain Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.03 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.03 | 0.03 |
| TK-46350 | Amine Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TK-46450 | Glycol Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.03 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.03 | 0.03 |
| TK-46500 | Amine HMO Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-46550 | CO2 Vent Stack Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | -- | 0.11 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 0.04 | 0.06 |
| TK-46600 | Residue Compressor Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-46750 | Cryo HMO Skid Drain Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-46700 | Cryo / Refrig Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-47700 | Methanol Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | N | N/A | N/A | -- | 5.16 | 5.16 |
| T-4201, T-4202 | Amine Contactor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 430.31 | 0.62 | 9.16 | <0.01 | 0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 2.89 | 4.80 |
| T-3402/T-3403 | Amine Still/Reflux Accumulator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | 5.70 | 6.53 | <0.01 | 4.00 | <0.01 | 0.42 | <0.01 | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | 0.02 | 0.04 |
| T-5701 | TEG Contactor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 116.66 | 0.17 | 2.48 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.78 | 1.30 |
| T-5302 | TEG Still | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.01 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | <0.01 | <0.01 |
| T-501 | Demethanizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | 0.09 | <0.01 | 0.09 | <0.01 | 0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| T-502 | Demethanizer Side Tower | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | 0.07 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| V-41000 | Slug Catcher | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 1,985.68 | 2.87 | 42.26 | 0.02 | 0.05 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 13.33 | 22.13 |
| V-41050 | Inlet Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 18.75 | 0.03 | 0.40 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.13 | 0.21 |
| V-45000 | Flare KO Drum | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 100.00 | 0.14 | 2.13 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.67 | 1.11 |
| V-45510 | CO2 Vent Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | 5.70 | 0.33 | <0.01 | 0.20 | <0.01 | 0.02 | <0.01 | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | <0.01 | <0.01 |
| V-45520 | CO2 Vent Stack | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | -- | 0.19 | <0.01 | 0.11 | <0.01 | 0.01 | <0.01 | N | N/A | N/A | -- | 0.06 | 0.10 |
| V-3801 | Hot Oil Expansion Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.93 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.02 | 0.02 |
| V-4203 | Amine Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 78.24 | 0.11 | 1.67 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.53 | 0.87 |
| V-3101 | Amine Flash Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | 0.02 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| V-3701 | Amine Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | 0.02 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| T-5702 | TEG Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 28.01 | 0.04 | 0.60 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.19 | 0.31 |
| V-5101 | TEG Flash Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.06 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| V-5503 | TEG Vent Condensate Drum | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.02 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH4-TO-45500 | 99 | <0.01 | <0.01 |
| V-442, V-443, V-444 | Mol Sieve Dehydrator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 204.16 | 0.30 | 4.35 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 1.37 | 2.28 |
| V-447 | Regen Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 1.04 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | <0.01 | 0.01 |
| V-402 | Cold Separator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 120.00 | 0.17 | 2.55 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.81 | 1.34 |
| V-404 | Product Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 5,731.34 | 8.29 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 38.49 | 63.87 |
| V-481 | Fuel Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| V-403 | Cold Drain Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 313.69 | 0.45 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 2.11 | 3.50 |
| V-43100 | Amine Fuel Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 8.33 | 0.01 | 0.18 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 2.80 | 4.64 |
| V-463 | Refrigerant Accumulator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 579.22 | 0.84 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 3.89 | 6.45 |
| V-462 | Refrigerant Economizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 333.63 | 0.48 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 2.24 | 3.72 |
| V-461 | Refrigerant Suction Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 278.03 | 0.40 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 1.87 | 3.10 |
| V-464 | Refrigerant Reclaimer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 1.55 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.01 | 0.02 |

*Activity durations are conservative estimates.

**Train 5**

| Train 5 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| AC-53601, AC-53602 | Reflux Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | 5.70 | 0.21 | <0.01 | 0.13 | <0.01 | 0.01 | <0.01 | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | <0.01 | <0.01 |
| AC-53501, AC-53502, AC-53503 | Amine Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| AC-55501 | TEG Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 4 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| P-600, P-601, P-602 | Product Charge Pump | 0.16 | 0.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.06 | <0.01 | 0.16 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| P-41600, P-41650, P-41700 | NGL Pipeline Pump | 0.12 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.04 | <0.01 | 0.12 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| P-609 | Methanol Injection Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-654 | Expander Lube Oil Makeup Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-781A, P-781B | HMO Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-606, P-607 | Demethanizer Reflux Pump | 0.02 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| P-47760 | Methanol Injection Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46200, TK-46210, TK-46220, TK-46230 | Slop Tank | 3.57 | 3.57 | 3.57 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-47010 | Residue Compressor Lube Oil Storage Tank | 0.05 | 0.05 | 0.05 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-47020 | Amine Storage Tank | 0.02 | 0.02 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HE-47025 | Amine Tank Immersion Heater | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-47030 | TEG Storage Tank | 0.25 | 0.25 | 0.25 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46300 | Amine Process Drain Tank | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46400 | Glycol Process Drain Sump | 0.03 | 0.03 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46350 | Amine Area Sump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46450 | Glycol Area Sump | 0.03 | 0.03 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46500 | Amine HMO Area Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46550 | CO2 Vent Stack Area Sump | 0.11 | 0.11 | 0.11 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 103.65 | 0.15 | 0.10 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46600 | Residue Compressor Area Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46750 | Cryo HMO Skid Drain Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-46700 | Cryo / Refrig Area Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-47700 | Methanol Storage Tank | 5.16 | 5.16 | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-4201, T-4202 | Amine Contactor | 8.61 | 8.61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.67 | <0.01 | 18.61 | 0.03 | 8.61 | 0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 0.18 | <0.01 | 128.85 | 0.19 | 19.33 | 0.03 |
| T-3402/T-3403 | Amine Still/Reflux Accumulator | 0.07 | 0.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.08 | 0.23 | 0.05 | 0.14 | 0.07 | <0.01 | 0.78 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 6,096.44 | 8.82 | 0.06 | <0.01 |
| T-5701 | TEG Contactor | 2.33 | 2.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.27 | <0.01 | 5.04 | <0.01 | 2.33 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | 34.93 | 0.05 | 5.24 | <0.01 |
| T-5302 | TEG Still | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-501 | Demethanizer | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.95 | <0.01 | 19.70 | 0.03 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1,163.88 | 1.68 | 5.22 | <0.01 |
| T-502 | Demethanizer Side Tower | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.76 | <0.01 | 14.97 | 0.02 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 884.68 | 1.28 | 3.97 | <0.01 |
| V-41000 | Slug Catcher | 39.71 | 39.71 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 21.56 | 0.03 | 85.86 | 0.12 | 39.71 | 0.06 | 0.09 | <0.01 | <0.01 | <0.01 | 0.85 | <0.01 | 594.59 | 0.86 | 89.22 | 0.13 |
| V-41050 | Inlet Gas Scrubber | 0.37 | 0.37 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.20 | <0.01 | 0.81 | <0.01 | 0.37 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.61 | <0.01 | 0.84 | <0.01 |
| V-45000 | Flare KO Drum | 2.00 | 2.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.09 | <0.01 | 4.32 | <0.01 | 2.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 29.94 | 0.04 | 4.49 | <0.01 |
| V-45510 | CO2 Vent Scrubber | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 304.10 | 0.44 | <0.01 | <0.01 |
| V-45520 | CO2 Vent Stack | 0.19 | 0.19 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 172.74 | 0.25 | 0.17 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-3801 | Hot Oil Expansion Tank | 0.02 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-4203 | Amine Scrubber | 1.56 | 1.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.85 | <0.01 | 3.38 | <0.01 | 1.56 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 23.43 | 0.03 | 3.52 | <0.01 |
| V-3101 | Amine Flash Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-3701 | Amine Surge Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-5702 | TEG Scrubber | 0.56 | 0.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.30 | <0.01 | 1.21 | <0.01 | 0.56 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 8.39 | 0.01 | 1.26 | <0.01 |
| V-5101 | TEG Flash Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-5503 | TEG Vent Condensate Drum | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-442, V-443, V-444 | Mol Sieve Dehydrator | 4.08 | 4.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.22 | <0.01 | 8.83 | 0.01 | 4.08 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | 61.13 | 0.09 | 9.17 | 0.01 |
| V-447 | Regen Gas Scrubber | 0.02 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.05 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.31 | <0.01 | 0.05 | <0.01 |
| V-402 | Cold Separator | 2.40 | 2.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.30 | <0.01 | 5.19 | <0.01 | 2.40 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | 35.93 | 0.05 | 5.39 | <0.01 |
| V-404 | Product Surge Tank | 114.63 | 114.63 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10.37 | 0.02 | 41.30 | 0.06 | 114.63 | 0.17 | -- | -- | -- | -- | -- | -- | 7.25 | 0.01 | 0.14 | <0.01 |
| V-481 | Fuel Gas Scrubber | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.83 | <0.01 | 1.31 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-403 | Cold Drain Tank | 6.27 | 6.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.57 | <0.01 | 2.26 | <0.01 | 6.27 | <0.01 | -- | -- | -- | -- | -- | -- | 0.40 | <0.01 | <0.01 | <0.01 |
| V-43100 | Amine Fuel Gas Scrubber | 8.33 | 8.33 | 8.33 | 0.01 | 0.04 | <0.01 | <0.01 | <0.01 | 2.50 | <0.01 | 18.72 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-463 | Refrigerant Accumulator | 11.58 | 11.58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.73 | <0.01 | 6.88 | <0.01 | 11.58 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-462 | Refrigerant Economizer | 6.67 | 6.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.00 | <0.01 | 3.97 | <0.01 | 6.67 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-461 | Refrigerant Suction Scrubber | 5.56 | 5.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.83 | <0.01 | 3.30 | <0.01 | 5.56 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-464 | Refrigerant Reclaimer | 0.03 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | **Train 4 Vented SSM** | **52.78** | **0.08** | **5.40** | **<0.01** | **<0.01** | **<0.01** | **665.91** | **0.96** | **180.60** | **0.26** | | | | | | | | | | | | | | | | | | |
| | **RH4-FL-45100** | | | | | | | | | | | | | **66.19** | **0.10** | **263.61** | **0.38** | **265.13** | **0.38** | **0.18** | **<0.01** | **<0.01** | **<0.01** | **1.37** | **<0.01** | **3,028.22** | **4.38** | **152.76** | **0.22** |
| | **RH4-TO-45500** | | | | | | | | | | | | | **0.16** | **0.45** | **0.09** | **0.27** | **0.13** | **<0.01** | **1.55** | **<0.01** | **<0.01** | **<0.01** | **0.08** | **<0.01** | **12,068.37** | **17.46** | **0.12** | **<0.01** |

*Activity durations are conservative estimates.

**Train 5**

| Train 5 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | Vented Emissions: TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Flared Emissions: Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-53601, AC-53602 | Reflux Condenser | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 197.58 | 0.29 | <0.01 | <0.01 |
| AC-53501, AC-53502, AC-53503 | Amine Cooler | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-55501 | TEG Cooler | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 5 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| AC-55502 | BTEX Condenser | Glycol | 3.47 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| AC-51800, AC-51801, AC-51802 | Residue Gas After Cooler | Residue Gas | 223.08 | - | 37.91 | 575.46 | 27.13 | 62.91 | 954.95 | 45.03 | 112.91 | 1713.93 | 80.82 | 112.91 | 1713.93 | 80.82 | 17.87 | 233.79 |
| A-50341 | Regen Gas Cooler | Inlet Gas | 19.47 | - | 37.91 | 50.23 | 3.01 | 62.91 | 83.35 | 5.00 | 112.91 | 149.59 | 8.97 | 112.91 | 149.59 | 8.97 | 22.73 | 25.96 |
| A-50301 | Expander Compressor Aftercooler | Residue Gas | 56.19 | - | 37.91 | 144.94 | 6.83 | 62.91 | 240.53 | 11.34 | 112.91 | 431.69 | 20.36 | 112.91 | 431.69 | 20.36 | 17.87 | 58.89 |
| A-50361A, A-50361B, A-50361C, A-50361D | Refrigerant Condenser | Propane | 250.84 | 174.83 | 37.91 | 647.08 | 75.29 | 62.91 | 1073.80 | 124.94 | 112.91 | 1927.25 | 224.24 | 112.91 | 1927.25 | 224.24 | 44.10 | 648.70 |
| A-50161, A-50162, A-50163 | Refrigerant Compressor Lube Oil Cooler | Lube Oil | 62.70 | 0.01 | 0.01 | 0.04 | 0.02 | 0.01 | 0.04 | 0.02 | 0.01 | 0.04 | 0.02 | 0.01 | 0.04 | 0.02 | 200.00 | 0.09 |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | - | 37.91 | 360.94 | 17.02 | 62.91 | 598.96 | 28.24 | 112.91 | 1075.01 | 50.69 | 112.91 | 1075.01 | 50.69 | 17.87 | 146.64 |
| C-50161, C-50162, C-50163 | Refrigerant Compressor | Propane | 973.73 | 174.83 | 37.91 | 2511.86 | 292.26 | 62.91 | 4168.32 | 484.99 | 112.91 | 7481.24 | 870.45 | 112.91 | 7481.24 | 870.45 | 44.10 | 2518.14 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1,011.48 | - | 37.91 | 2609.23 | 123.03 | 62.91 | 4329.91 | 204.17 | 112.91 | 7771.26 | 366.43 | 112.91 | 7771.26 | 366.43 | 17.87 | 1060.06 |
| EC-50101 | Expander/Compressor | Inlet Gas | 122.34 | - | 37.91 | 315.60 | 18.93 | 62.91 | 523.73 | 31.42 | 112.91 | 939.98 | 56.38 | 112.91 | 939.98 | 56.38 | 22.73 | 163.12 |
| C-50141 | Regen Gas Compressor | Inlet Gas | 2.54 | - | 37.91 | 6.55 | 0.39 | 62.91 | 10.87 | 0.65 | 112.91 | 19.51 | 1.17 | 112.91 | 19.51 | 1.17 | 22.73 | 3.39 |
| F-51530 | Seal Gas Filter | Residue Gas | 0.16 | - | 37.91 | 0.41 | 0.02 | 62.91 | 0.68 | 0.03 | 112.91 | 1.22 | 0.06 | 112.91 | 1.22 | 0.06 | 17.87 | 0.17 |
| F-50441 | Inlet Filter Coalescer | Inlet Gas | 134.77 | - | 37.91 | 347.67 | 20.85 | 62.91 | 576.94 | 34.61 | 112.91 | 1035.48 | 62.11 | 112.91 | 1035.48 | 62.11 | 22.73 | 179.69 |
| F-50408 | Residue Gas Filter/Coalescer | Residue Gas | 16.85 | - | 37.91 | 43.46 | 2.05 | 62.91 | 72.12 | 3.40 | 112.91 | 129.43 | 6.10 | 112.91 | 129.43 | 6.10 | 17.87 | 17.66 |
| F-53200 | Pre-Carbon Solids Filter | Amine | 31.68 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 105.14 | 0.02 |
| F-53201, F-53202 | Amine Carbon Filter | Amine | 1,727.88 | 0.01 | 0.01 | 1.18 | 0.33 | 0.01 | 1.18 | 0.33 | 0.01 | 1.18 | 0.33 | 0.01 | 1.18 | 0.33 | 105.14 | 1.30 |
| F-53203, F-53204 | Amine Rich Solids Filter | Amine | 63.36 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 105.14 | 0.05 |
| F-53304 | Amine Lean Solids Filter | Amine | 55.16 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 105.14 | 0.04 |
| F-53805 | HMO Filter | Hot Oil | 40.37 | 0.01 | 0.01 | 0.03 | 0.01 | 0.01 | 0.03 | 0.01 | 0.01 | 0.03 | 0.01 | 0.01 | 0.03 | 0.01 | 200.00 | 0.06 |
| F-55201 | TEG Pre-Carbon Filter | Glycol | 1.75 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| F-55202 | TEG Carbon Filter | Glycol | 105.83 | 0.01 | 0.01 | 0.07 | 0.03 | 0.01 | 0.07 | 0.03 | 0.01 | 0.07 | 0.03 | 0.01 | 0.07 | 0.03 | 150.17 | 0.11 |
| F-55203 | TEG Rich Soilds Filter | Glycol | 1.75 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| F-55401 | TEG Lean Soilds Filter | Glycol | 1.75 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| F-51225 | Inlet Filter Coalescer | Inlet Gas | 148.17 | - | 37.91 | 382.21 | 22.93 | 62.91 | 634.26 | 38.05 | 112.91 | 1138.36 | 68.28 | 112.91 | 1138.36 | 68.28 | 22.73 | 197.54 |
| F-51275 | Glycol Inlet Filter Coalescer | Inlet Gas | 148.17 | - | 37.91 | 382.21 | 22.93 | 62.91 | 634.26 | 38.05 | 112.91 | 1138.36 | 68.28 | 112.91 | 1138.36 | 68.28 | 22.73 | 197.54 |
| F-50445, F-50446 | Mol Sieve Dust Filter | Inlet Gas | 62.72 | - | 37.91 | 161.78 | 9.70 | 62.91 | 268.47 | 16.10 | 112.91 | 481.85 | 28.90 | 112.91 | 481.85 | 28.90 | 22.73 | 83.62 |
| E-54101 | Gas/Gas Exchanger | Inlet Gas | 117.68 | - | 37.91 | 303.57 | 18.21 | 62.91 | 503.76 | 30.22 | 112.91 | 904.13 | 54.23 | 112.91 | 904.13 | 54.23 | 22.73 | 156.90 |
| E-53301 | Amine Lean/Rich Exchanger | Amine | 531.18 | 0.01 | 0.01 | 0.36 | 0.10 | 0.01 | 0.36 | 0.10 | 0.01 | 0.36 | 0.10 | 0.01 | 0.36 | 0.10 | 105.14 | 0.40 |
| E-53401 | Amine Reboiler | Amine | 1,469.95 | 0.01 | 0.01 | 1.00 | 0.28 | 0.01 | 1.00 | 0.28 | 0.01 | 1.00 | 0.28 | 0.01 | 1.00 | 0.28 | 105.14 | 1.11 |
| E-55301 | TEG Reboiler | Glycol | 584.36 | 0.01 | 0.01 | 0.40 | 0.16 | 0.01 | 0.40 | 0.16 | 0.01 | 0.40 | 0.16 | 0.01 | 0.40 | 0.16 | 150.17 | 0.63 |
| E-55204 | TEG Lean/Rich Exchanger | Glycol | 29.38 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 150.17 | 0.03 |
| E-51100 | Prestabilizer Exchanger | Inlet Gas | 290.86 | - | 37.91 | 750.31 | 45.01 | 62.91 | 1245.11 | 74.69 | 112.91 | 2234.71 | 134.05 | 112.91 | 2234.71 | 134.05 | 22.73 | 387.80 |
| E-50201/E-50206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | Inlet Gas | 315.27 | - | 37.91 | 813.28 | 48.78 | 62.91 | 1349.60 | 80.96 | 112.91 | 2422.25 | 145.30 | 112.91 | 2422.25 | 145.30 | 22.73 | 420.34 |
| E-50202 | Gas/Product Exchanger | Y-Grade | 149.11 | 397.30 | 37.91 | 384.64 | 41.58 | 62.91 | 638.29 | 68.99 | 112.91 | 1145.60 | 123.83 | 112.91 | 1145.60 | 123.83 | 40.97 | 358.22 |
| E-50204/50205 | Demethanizer Side Heater and Demethanizer Reboiler | Inlet Gas | 79.75 | - | 37.91 | 205.73 | 12.34 | 62.91 | 341.40 | 20.48 | 112.91 | 612.75 | 36.76 | 112.91 | 612.75 | 36.76 | 22.73 | 106.33 |
| E-50207 | Demethanizer Trim Reboiler | Y-Grade | 46.03 | 397.30 | 37.91 | 118.73 | 12.83 | 62.91 | 197.03 | 21.30 | 112.91 | 353.62 | 38.22 | 112.91 | 353.62 | 38.22 | 40.97 | 110.57 |
| E-50203 | Chiller | Propane | 1,784.74 | 174.83 | 37.91 | 4603.95 | 535.67 | 62.91 | 7640.05 | 888.93 | 112.91 | 13712.26 | 1595.43 | 112.91 | 13712.26 | 1595.43 | 44.10 | 4615.47 |
| TO-55500 | Thermal Oxidizer | Low C Acid Gas | 6,393.14 | - | 37.91 | 16491.83 | 1841.81 | 62.91 | 27367.48 | 3056.40 | 112.91 | 49118.78 | 5485.59 | 112.91 | 49118.78 | 5485.59 | 42.33 | 15869.39 |
| H-50902, H-50001 | Hot Oil Heater | Hot Oil | 1,109.92 | 0.01 | 0.01 | 0.76 | 0.40 | 0.01 | 0.76 | 0.40 | 0.01 | 0.76 | 0.40 | 0.01 | 0.76 | 0.40 | 200.00 | 1.59 |
| H-50741 | Regen Gas Heater | Inlet Gas | 55.24 | - | 37.91 | 142.50 | 8.55 | 62.91 | 236.47 | 14.18 | 112.91 | 424.42 | 25.46 | 112.91 | 424.42 | 25.46 | 22.73 | 73.65 |
| H-50781 | HMO Heater | Hot Oil | 244.17 | 0.01 | 0.01 | 0.17 | 0.09 | 0.01 | 0.17 | 0.09 | 0.01 | 0.17 | 0.09 | 0.01 | 0.17 | 0.09 | 200.00 | 0.35 |
| P-55050 | Flare KO Pump | Condensate | 1.28 | 6.80 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 93.55 | 0.58 |
| P-57015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-55515 | CO2 Vent Scrubber Pump | Low C Acid Gas | 1.28 | - | 37.91 | 3.30 | 0.37 | 62.91 | 5.48 | 0.61 | 112.91 | 9.83 | 1.10 | 112.91 | 9.83 | 1.10 | 42.33 | 3.18 |
| P-57035 | Glycol Storage Pump | Glycol | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-53802, P-53803, P-53804 | HMO Pump | Hot Oil | 17.88 | 0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 200.00 | 0.03 |
| P-53302, P-53303 | Amine Booster Pump | Amine | 6.66 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-53605, P-53705 | Defoaming Pump | Amine | 2.56 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-57021 | Amine Make Up Pump | Amine | 0.72 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-53702, P-53703, P-53704 | Amine Main Solution Pump | Amine | 8.90 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-53603, P-53604 | Reflux Pump | Amine | 1.08 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-56305 | Amine Process Drain Tank Pump | Amine | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-56355 | Amine Area Sump Pump | Amine | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-55601, P-55602 | TEG Circulation Pumps | Glycol | 2.61 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-56405 | Glycol Process Drain Sump Pump | Glycol | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-56455 | Glycol Area Sump Pump | Glycol | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-56505 | Amine HMO Area Sump Pump | Hot Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-56555 | CO2 Vent Stack Area Sump Pump | Low C Acid Gas | 1.28 | - | 37.91 | 3.30 | 0.37 | 62.91 | 5.48 | 0.61 | 112.91 | 9.83 | 1.10 | 112.91 | 9.83 | 1.10 | 42.33 | 3.18 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 5 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| AC-55502 | BTEX Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | <0.01 | <0.01 |
| AC-51800, AC-51801, AC-51802 | Residue Gas After Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | <0.01 | <0.01 |
| A-50341 | Regen Gas Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 2.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | 0.01 | 0.02 |
| A-50301 | Expander Compressor Aftercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | <0.01 | <0.01 |
| A-50361A, A-50361B, A-50361C, A-50361D | Refrigerant Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 224.24 | 0.32 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 1.51 | 2.50 |
| A-50161, A-50162, A-50163 | Refrigerant Compressor Lube Oil Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.02 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.02 | 0.02 |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| C-50161, C-50162, C-50163 | Refrigerant Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 870.45 | 1.26 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 5.85 | 9.70 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | 0.02 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | 0.01 |
| EC-50101 | Expander/Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 13.11 | 0.02 | 0.28 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 4.40 | 7.31 |
| C-50141 | Regen Gas Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 0.09 | 0.15 |
| F-51530 | Seal Gas Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-50441 | Inlet Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 14.44 | 0.02 | 0.31 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 4.85 | 8.05 |
| F-50408 | Residue Gas Filter/Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-53200 | Pre-Carbon Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-53201, F-53202 | Amine Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | 0.02 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.02 | 0.02 |
| F-53203, F-53204 | Amine Rich Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-53304 | Amine Lean Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-53805 | HMO Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.01 | 0.01 |
| F-55201 | TEG Pre-Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-55202 | TEG Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.03 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.03 | 0.03 |
| F-55203 | TEG Rich Soilds Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-55401 | TEG Lean Soilds Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-51225 | Inlet Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 15.88 | 0.02 | 0.34 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.11 | 0.18 |
| F-51275 | Glycol Inlet Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 15.88 | 0.02 | 0.34 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.11 | 0.18 |
| F-50445, F-50446 | Mol Sieve Dust Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 6.72 | <0.01 | 0.14 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 2.26 | 3.74 |
| E-54101 | Gas/Gas Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 12.61 | 0.02 | 0.27 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.08 | 0.14 |
| E-53301 | Amine Lean/Rich Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| E-53401 | Amine Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | 0.01 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | <0.01 | <0.01 |
| E-55301 | TEG Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.16 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | <0.01 | <0.01 |
| E-55204 | TEG Lean/Rich Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| E-51100 | Prestabilizer Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 31.17 | 0.05 | 0.66 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.21 | 0.35 |
| E-50201/E-50206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 33.79 | 0.05 | 0.72 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | 0.23 | 0.38 |
| E-50202 | Gas/Product Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 89.12 | 0.13 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 0.60 | 0.99 |
| E-50204/50205 | Demethanizer Side Heater and Demethanizer Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 8.55 | 0.01 | 0.18 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | 0.06 | 0.10 |
| E-50207 | Demethanizer Trim Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 27.51 | 0.04 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 0.18 | 0.31 |
| E-50203 | Chiller | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 1,595.43 | 2.31 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 10.71 | 17.78 |
| TO-55500 | Thermal Oxidizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | 5.70 | 5.71 | <0.01 | 3.50 | <0.01 | 0.37 | <0.01 | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | 0.02 | 0.03 |
| H-50902, H-50001 | Hot Oil Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.40 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| H-50741 | Regen Gas Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 5.92 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | 0.04 | 0.07 |
| H-50781 | HMO Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.09 | <0.01 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | <0.01 | <0.01 |
| P-55050 | Flare KO Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.14 | 0.14 |
| P-57015 | Residue Compressor Lube Oil Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-55515 | CO2 Vent Scrubber Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-57035 | Glycol Storage Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-53802, P-53803, P-53804 | HMO Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-53302, P-53303 | Amine Booster Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-53605, P-53705 | Defoaming Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-57021 | Amine Make Up Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-53702, P-53703, P-53704 | Amine Main Solution Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-53603, P-53604 | Reflux Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-56305 | Amine Process Drain Tank Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-56355 | Amine Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-55601, P-55602 | TEG Circulation Pumps | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-56405 | Glycol Process Drain Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-56455 | Glycol Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-56505 | Amine HMO Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-56555 | CO2 Vent Stack Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 5 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-55502 | BTEX Condenser | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AC-51800, AC-51801, AC-51802 | Residue Gas After Cooler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.27 | <0.01 | 1.06 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 62.67 | 0.09 | 0.28 | <0.01 |
| A-50341 | Regen Gas Cooler | 0.04 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.62 | <0.01 | 0.09 | <0.01 |
| A-50301 | Expander Compressor Aftercooler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 15.79 | 0.02 | 0.07 | <0.01 |
| A-50361A, A-50361B, A-50361C, A-50361D | Refrigerant Condenser | 4.48 | 4.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.67 | <0.01 | 2.66 | <0.01 | 4.48 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-50161, A-50162, A-50163 | Refrigerant Compressor Lube Oil Cooler | 0.02 | 0.02 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 39.31 | 0.06 | 8.81 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-50161, C-50162, C-50163 | Refrigerant Compressor | 17.41 | 17.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.60 | <0.01 | 10.35 | 0.01 | 17.41 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | 0.02 | 0.02 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 284.16 | 0.41 | 63.72 | 0.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EC-50101 | Expander/Compressor | 13.11 | 13.11 | 13.11 | 0.02 | 0.06 | <0.01 | <0.01 | <0.01 | 3.93 | <0.01 | 29.46 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-50141 | Regen Gas Compressor | 0.27 | 0.27 | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 0.61 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-51530 | Seal Gas Filter | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-50441 | Inlet Filter Coalescer | 14.44 | 14.44 | 14.44 | 0.02 | 0.07 | <0.01 | <0.01 | <0.01 | 4.33 | <0.01 | 32.45 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-50408 | Residue Gas Filter/Coalescer | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.73 | <0.01 | 1.06 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53200 | Pre-Carbon Solids Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53201, F-53202 | Amine Carbon Filter | 0.02 | 0.02 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53203, F-53204 | Amine Rich Solids Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53304 | Amine Lean Solids Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-53805 | HMO Filter | 0.01 | 0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55201 | TEG Pre-Carbon Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55202 | TEG Carbon Filter | 0.03 | 0.03 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55203 | TEG Rich Soilds Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-55401 | TEG Lean Soilds Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-51225 | Inlet Filter Coalescer | 0.32 | 0.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.17 | <0.01 | 0.69 | <0.01 | 0.32 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.75 | <0.01 | 0.71 | <0.01 |
| F-51275 | Glycol Inlet Filter Coalescer | 0.32 | 0.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.17 | <0.01 | 0.69 | <0.01 | 0.32 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.75 | <0.01 | 0.71 | <0.01 |
| F-50445, F-50446 | Mol Sieve Dust Filter | 6.72 | 6.72 | 6.72 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | 2.01 | <0.01 | 15.10 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-54101 | Gas/Gas Exchanger | 0.25 | 0.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.14 | <0.01 | 0.55 | <0.01 | 0.25 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.78 | <0.01 | 0.57 | <0.01 |
| E-53301 | Amine Lean/Rich Exchanger | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-53401 | Amine Reboiler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-55301 | TEG Reboiler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-55204 | TEG Lean/Rich Exchanger | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-51100 | Prestabilizer Exchanger | 0.62 | 0.62 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.34 | <0.01 | 1.35 | <0.01 | 0.62 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 9.33 | 0.01 | 1.40 | <0.01 |
| E-50201/E-50206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | 0.68 | 0.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.37 | <0.01 | 1.46 | <0.01 | 0.68 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 10.12 | 0.01 | 1.52 | <0.01 |
| E-50202 | Gas/Product Exchanger | 1.78 | 1.78 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.16 | <0.01 | 0.64 | <0.01 | 1.78 | <0.01 | -- | -- | -- | -- | -- | -- | 0.11 | <0.01 | <0.01 | <0.01 |
| E-50204/50205 | Demethanizer Side Heater and Demethanizer Reboiler | 0.17 | 0.17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.09 | <0.01 | 0.37 | <0.01 | 0.17 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.56 | <0.01 | 0.38 | <0.01 |
| E-50207 | Demethanizer Trim Reboiler | 0.55 | 0.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.20 | <0.01 | 0.55 | <0.01 | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | <0.01 | <0.01 |
| E-50203 | Chiller | 31.91 | 31.91 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.76 | <0.01 | 18.96 | 0.03 | 31.91 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TO-55500 | Thermal Oxidizer | 0.06 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | 0.20 | 0.04 | 0.12 | 0.06 | <0.01 | 0.69 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 5,326.29 | 7.70 | 0.05 | <0.01 |
| H-50902, H-50001 | Hot Oil Heater | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-50741 | Regen Gas Heater | 0.12 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.06 | <0.01 | 0.26 | <0.01 | 0.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.77 | <0.01 | 0.27 | <0.01 |
| H-50781 | HMO Heater | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-55050 | Flare KO Pump | 0.14 | 0.14 | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-57015 | Residue Compressor Lube Oil Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-55515 | CO2 Vent Scrubber Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.07 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-57035 | Glycol Storage Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-53802, P-53803, P-53804 | HMO Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-53302, P-53303 | Amine Booster Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-53605, P-53705 | Defoaming Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-57021 | Amine Make Up Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-53702, P-53703, P-53704 | Amine Main Solution Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-53603, P-53604 | Reflux Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56305 | Amine Process Drain Tank Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56355 | Amine Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-55601, P-55602 | TEG Circulation Pumps | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56405 | Glycol Process Drain Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56455 | Glycol Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56505 | Amine HMO Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56555 | CO2 Vent Stack Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.07 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Startup SSM Emissions
**Targa Northern Delaware, LLC**

| Train 5 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| P-56605 | Residue Compressor Area Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-56755 | Cryo HMO Skid Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-56705 | Cryo / Refrig Area Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-55402, P-55403 | TEG Booster Pump | Glycol | 1.32 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-55504 | BTEX Pump | Glycol | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-50600, P-50601, P-50602 | Product Charge Pump | Y-Grade | 13.11 | 397.30 | 37.91 | 33.81 | 3.65 | 62.91 | 56.11 | 6.07 | 112.91 | 100.71 | 10.89 | 112.91 | 100.71 | 10.89 | 40.97 | 31.49 |
| P-51600, P-51650, P-51700 | NGL Pipeline Pump | Y-Grade | 9.85 | 397.30 | 37.91 | 25.41 | 2.75 | 62.91 | 42.16 | 4.56 | 112.91 | 75.67 | 8.18 | 112.91 | 75.67 | 8.18 | 40.97 | 23.66 |
| P-50609 | Methanol Injection Pump | Methanol | 0.11 | 4.05 | 4.05 | 0.03 | <0.01 | 4.05 | 0.03 | <0.01 | 4.05 | 0.03 | <0.01 | 4.05 | 0.03 | <0.01 | 32.04 | 0.01 |
| P-50654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-50781A, P-50781B | HMO Pump | Hot Oil | 2.00 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| TK-57010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.34 | 0.01 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 200.00 | 0.22 |
| TK-57020 | Amine Storage Tank | Amine | 4,981.47 | 0.01 | 0.01 | 3.39 | 0.94 | 0.01 | 3.39 | 0.94 | 0.01 | 3.39 | 0.94 | 0.01 | 3.39 | 0.94 | 105.14 | 3.76 |
| HE-57025 | Amine Tank Immersion Heater | Amine | 0.00 | 0.01 | 0.01 | -- | -- | 0.01 | -- | -- | 0.01 | -- | -- | 0.01 | -- | -- | 105.14 | -- |
| TK-57030 | Glycol Storage Tank | Glycol | 1,866.11 | 0.01 | 0.01 | 1.27 | 0.50 | 0.01 | 1.27 | 0.50 | 0.01 | 1.27 | 0.50 | 0.01 | 1.27 | 0.50 | 150.17 | 2.01 |
| TK-56300 | Amine Process Drain Tank | Amine | 623.76 | 0.01 | 0.01 | 0.42 | 0.12 | 0.01 | 0.42 | 0.12 | 0.01 | 0.42 | 0.12 | 0.01 | 0.42 | 0.12 | 105.14 | 0.47 |
| TK-56400 | Glycol Process Drain Sump | Glycol | 124.41 | 0.01 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 150.17 | 0.13 |
| TK-56350 | Amine Area Sump | Amine | 124.41 | 0.01 | 0.01 | 0.08 | 0.02 | 0.01 | 0.08 | 0.02 | 0.01 | 0.08 | 0.02 | 0.01 | 0.08 | 0.02 | 105.14 | 0.09 |
| TK-56450 | Glycol Area Sump | Glycol | 124.41 | 0.01 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 0.01 | 0.08 | 0.03 | 150.17 | 0.13 |
| TK-56500 | Amine HMO Area Sump | Hot Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-56550 | CO2 Vent Stack Area Sump | Low C Acid Gas | 124.41 | - | 37.91 | 320.92 | 35.84 | 62.91 | 532.56 | 59.48 | 112.91 | 955.82 | 106.75 | 112.91 | 955.82 | 106.75 | 42.33 | 308.81 |
| TK-56600 | Residue Compressor Area Sump | Lube Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-56750 | Cryo HMO Skid Drain Sump | Lube Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-56700 | Cryo / Refrig Area Sump | Lube Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-57700 | Methanol Storage Tank | Methanol | 221.17 | 4.05 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 32.04 | 20.63 |
| T-54201 | Amine Contactor | Inlet Gas | 4,678.22 | - | 37.91 | 12068.01 | 723.90 | 62.91 | 20026.34 | 1201.29 | 112.91 | 35943.00 | 2156.05 | 112.91 | 35943.00 | 2156.05 | 22.73 | 6237.29 |
| T-53402/T-53403 | Amine Still/Reflux Accumulator | Low C Acid Gas | 7,840.24 | - | 37.91 | 20224.78 | 2258.71 | 62.91 | 33562.15 | 3748.22 | 112.91 | 60236.88 | 6727.26 | 112.91 | 60236.88 | 6727.26 | 42.33 | 19461.45 |
| T-55701 | TEG Contactor | Inlet Gas | 1,088.56 | - | 37.91 | 2808.07 | 168.44 | 62.91 | 4659.87 | 279.52 | 112.91 | 8363.47 | 501.69 | 112.91 | 8363.47 | 501.69 | 22.73 | 1451.34 |
| T-50501 | Demethanizer | Residue Gas | 6,085.37 | - | 37.91 | 15697.91 | 740.19 | 62.91 | 26050.00 | 1228.32 | 112.91 | 46754.18 | 2204.56 | 112.91 | 46754.18 | 2204.56 | 17.87 | 6377.64 |
| V-51200 | Prestabilizer Separator | Inlet Gas | 1,669.78 | - | 37.91 | 4307.38 | 258.38 | 62.91 | 7147.91 | 428.77 | 112.91 | 12828.96 | 769.55 | 112.91 | 12828.96 | 769.55 | 22.73 | 2226.25 |
| V-55000 | Flare KO Drum | Inlet Gas | 933.05 | - | 37.91 | 2406.92 | 144.38 | 62.91 | 3994.17 | 239.59 | 112.91 | 7168.69 | 430.02 | 112.91 | 7168.69 | 430.02 | 22.73 | 1244.00 |
| V-55510 | CO2 Vent Scrubber | Low C Acid Gas | 365.01 | - | 37.91 | 941.59 | 105.16 | 62.91 | 1562.54 | 174.50 | 112.91 | 2804.42 | 313.20 | 112.91 | 2804.42 | 313.20 | 42.33 | 906.06 |
| V-55520 | CO2 Vent Stack | Low C Acid Gas | 207.35 | - | 37.91 | 534.87 | 59.73 | 62.91 | 887.59 | 99.13 | 112.91 | 1593.04 | 177.91 | 112.91 | 1593.04 | 177.91 | 42.33 | 514.68 |
| V-53801 | HMO Expansion Tank | Hot Oil | 2,591.81 | 0.01 | 0.01 | 1.76 | 0.93 | 0.01 | 1.76 | 0.93 | 0.01 | 1.76 | 0.93 | 0.01 | 1.76 | 0.93 | 200.00 | 3.72 |
| V-54202 | Amine Scrubber | Inlet Gas | 846.66 | - | 37.91 | 2184.05 | 131.01 | 62.91 | 3624.34 | 217.41 | 112.91 | 6504.92 | 390.20 | 112.91 | 6504.92 | 390.20 | 22.73 | 1128.82 |
| V-53101 | Amine Flash Tank | Amine | 5,496.29 | 0.01 | 0.01 | 3.74 | 1.04 | 0.01 | 3.74 | 1.04 | 0.01 | 3.74 | 1.04 | 0.01 | 3.74 | 1.04 | 105.14 | 4.15 |
| V-53701 | Amine Surge Tank | Amine | 5,496.29 | 0.01 | 0.01 | 3.74 | 1.04 | 0.01 | 3.74 | 1.04 | 0.01 | 3.74 | 1.04 | 0.01 | 3.74 | 1.04 | 105.14 | 4.15 |
| T-55801 | TEG Scrubber | Inlet Gas | 423.33 | - | 37.91 | 1092.03 | 65.51 | 62.91 | 1812.17 | 108.70 | 112.91 | 3252.46 | 195.10 | 112.91 | 3252.46 | 195.10 | 22.73 | 564.41 |
| V-55101 | TEG Flash Tank | Glycol | 215.98 | 0.01 | 0.01 | 0.15 | 0.06 | 0.01 | 0.15 | 0.06 | 0.01 | 0.15 | 0.06 | 0.01 | 0.15 | 0.06 | 150.17 | 0.23 |
| V-55503 | BTEX Drum | Glycol | 19.44 | 0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 150.17 | 0.02 |
| V-50442, V-50443, V-50444 | Mol Sieve Dehydrator | Inlet Gas | 1,904.98 | - | 37.91 | 4914.12 | 294.78 | 62.91 | 8154.77 | 489.17 | 112.91 | 14636.07 | 877.95 | 112.91 | 14636.07 | 877.95 | 22.73 | 2539.84 |
| V-50447 | Regen Gas Scrubber | Inlet Gas | 9.72 | - | 37.91 | 25.07 | 1.50 | 62.91 | 41.61 | 2.50 | 112.91 | 74.67 | 4.48 | 112.91 | 74.67 | 4.48 | 22.73 | 12.96 |
| V-50402 | Cold Separator | Inlet Gas | 1,119.66 | - | 37.91 | 2888.30 | 173.26 | 62.91 | 4793.01 | 287.51 | 112.91 | 8602.42 | 516.02 | 112.91 | 8602.42 | 516.02 | 22.73 | 1492.80 |
| V-50404 | Product Surge Tank | Y-Grade | 9,589.37 | 397.30 | 37.91 | 24736.87 | 2673.78 | 62.91 | 41049.76 | 4437.02 | 112.91 | 73675.54 | 7963.51 | 112.91 | 73675.54 | 7963.51 | 40.97 | 23037.82 |
| V-50481 | Fuel Gas Scrubber | Residue Gas | 20.73 | - | 37.91 | 53.49 | 2.52 | 62.91 | 88.76 | 4.19 | 112.91 | 159.30 | 7.51 | 112.91 | 159.30 | 7.51 | 17.87 | 21.73 |
| V-50403 | Cold Drain Tank | Y-Grade | 524.84 | 397.30 | 37.91 | 1353.89 | 146.34 | 62.91 | 2246.72 | 242.85 | 112.91 | 4032.39 | 435.86 | 112.91 | 4032.39 | 435.86 | 40.97 | 1260.90 |
| V-53100 | Amine Fuel Gas Scrubber | Inlet Gas | 77.75 | - | 37.91 | 200.58 | 12.03 | 62.91 | 332.85 | 19.97 | 112.91 | 597.39 | 35.83 | 112.91 | 597.39 | 35.83 | 22.73 | 103.67 |
| V-50463 | Refrigerant Accumulator | Propane | 647.95 | 174.83 | 37.91 | 1671.47 | 194.48 | 62.91 | 2773.73 | 322.73 | 112.91 | 4978.25 | 579.22 | 112.91 | 4978.25 | 579.22 | 44.10 | 1675.65 |
| V-50462 | Refrigerant Economizer | Propane | 373.22 | 174.83 | 37.91 | 962.77 | 112.02 | 62.91 | 1597.67 | 185.89 | 112.91 | 2867.47 | 333.63 | 112.91 | 2867.47 | 333.63 | 44.10 | 965.18 |
| V-50461 | Refrigerant Suction Scrubber | Propane | 311.02 | 174.83 | 37.91 | 802.31 | 93.35 | 62.91 | 1331.39 | 154.91 | 112.91 | 2389.56 | 278.03 | 112.91 | 2389.56 | 278.03 | 44.10 | 804.31 |
| V-50464 | Refrigerant Reclaimer | Propane | 1.73 | 174.83 | 37.91 | 4.47 | 0.52 | 62.91 | 7.42 | 0.86 | 112.91 | 13.32 | 1.55 | 112.91 | 13.32 | 1.55 | 44.10 | 4.48 |

*Activity durations are conservative estimates.

**Train 6**

| Train 6 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| AC-62401 | NGL Reflux Condenser | Y-Grade | 129.70 | 397.30 | 37.91 | 334.57 | 36.16 | 62.91 | 555.20 | 60.01 | 112.91 | 996.47 | 107.71 | 112.91 | 996.47 | 107.71 | 40.97 | 311.59 |
| AC-62402 | Product Cooler | Condensate | 15.29 | 6.80 | 6.80 | 7.08 | 1.75 | 6.80 | 7.08 | 1.75 | 6.80 | 7.08 | 1.75 | 6.80 | 7.08 | 1.75 | 93.55 | 6.99 |
| AC-65501 | TEG Cooler | Glycol | 9.02 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 5 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| P-56605 | Residue Compressor Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-56755 | Cryo HMO Skid Drain Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-56705 | Cryo / Refrig Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-55402, P-55403 | TEG Booster Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-55504 | BTEX Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-50600, P-50601, P-50602 | Product Charge Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 7.83 | 0.01 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 0.05 | 0.09 |
| P-51600, P-51650, P-51700 | NGL Pipeline Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 5.89 | <0.01 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 0.04 | 0.07 |
| P-50609 | Methanol Injection Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-50654 | Expander Lube Oil Makeup Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-50781A, P-50781B | HMO Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TK-57010 | Residue Compressor Lube Oil Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.05 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.05 | 0.05 |
| TK-57020 | Amine Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | 0.05 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.05 | 0.05 |
| HE-57025 | Amine Tank Immersion Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | -- | -- | -- | -- | -- | -- | N | N/A | N/A | -- | -- | -- |
| TK-57030 | Glycol Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.50 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.50 | 0.50 |
| TK-56300 | Amine Process Drain Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TK-56400 | Glycol Process Drain Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.03 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.03 | 0.03 |
| TK-56350 | Amine Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TK-56450 | Glycol Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.03 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.03 | 0.03 |
| TK-56500 | Amine HMO Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-56550 | CO2 Vent Stack Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | -- | 0.11 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 0.04 | 0.06 |
| TK-56600 | Residue Compressor Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-56750 | Cryo HMO Skid Drain Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-56700 | Cryo / Refrig Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-57700 | Methanol Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | N | N/A | N/A | -- | 5.16 | 5.16 |
| T-54201 | Amine Contactor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 501.37 | 0.73 | 10.67 | <0.01 | 0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 3.37 | 5.59 |
| T-53402/T-53403 | Amine Still/Reflux Accumulator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | 5.70 | 7.00 | 0.01 | 4.29 | <0.01 | 0.45 | <0.01 | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | 0.02 | 0.04 |
| T-55701 | TEG Contactor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 116.66 | 0.17 | 2.48 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.78 | 1.30 |
| T-50501 | Demethanizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | 0.13 | <0.01 | 0.13 | <0.01 | 0.02 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | <0.01 | <0.01 |
| V-51200 | Prestabilizer Separator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 178.95 | 0.26 | 3.81 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 1.20 | 1.99 |
| V-55000 | Flare KO Drum | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 100.00 | 0.14 | 2.13 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | 0.67 | 1.11 |
| V-55510 | CO2 Vent Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | 5.70 | 0.33 | <0.01 | 0.20 | <0.01 | 0.02 | <0.01 | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | <0.01 | <0.01 |
| V-55520 | CO2 Vent Stack | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.10 | -- | 0.19 | <0.01 | 0.11 | <0.01 | 0.01 | <0.01 | N | N/A | N/A | -- | 0.06 | 0.10 |
| V-53801 | HMO Expansion Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.93 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.02 | 0.02 |
| V-54202 | Amine Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 90.74 | 0.13 | 1.93 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.61 | 1.01 |
| V-53101 | Amine Flash Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | 0.05 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| V-53701 | Amine Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | 0.05 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| T-55801 | TEG Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 45.37 | 0.07 | 0.97 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.30 | 0.51 |
| V-55101 | TEG Flash Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.06 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| V-55503 | BTEX Drum | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | <0.01 | <0.01 |
| V-50442, V-50443, V-50444 | Mol Sieve Dehydrator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 204.16 | 0.30 | 4.35 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | 1.37 | 2.28 |
| V-50447 | Regen Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 1.04 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | <0.01 | 0.01 |
| V-50402 | Cold Separator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 120.00 | 0.17 | 2.55 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | 0.81 | 1.34 |
| V-50404 | Product Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 5,731.34 | 8.29 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 38.49 | 63.87 |
| V-50481 | Fuel Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| V-50403 | Cold Drain Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 313.69 | 0.45 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 2.11 | 3.50 |
| V-53100 | Amine Fuel Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 8.33 | 0.01 | 0.18 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 2.80 | 4.64 |
| V-50463 | Refrigerant Accumulator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 579.22 | 0.84 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 3.89 | 6.45 |
| V-50462 | Refrigerant Economizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 333.63 | 0.48 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 2.24 | 3.72 |
| V-50461 | Refrigerant Suction Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 278.03 | 0.40 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 1.87 | 3.10 |
| V-50464 | Refrigerant Reclaimer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 1.55 | <0.01 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 0.01 | 0.02 |

*Activity durations are conservative estimates.

**Train 6**

| Train 6 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| AC-62401 | NGL Reflux Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 77.52 | 0.11 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.52 | 0.86 |
| AC-62402 | Product Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 1.67 | <0.01 | 0.17 | <0.01 | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.03 | 0.03 |
| AC-65501 | TEG Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 5 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| P-56605 | Residue Compressor Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56755 | Cryo HMO Skid Drain Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-56705 | Cryo / Refrig Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-55402, P-55403 | TEG Booster Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-55504 | BTEX Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-50600, P-50601, P-50602 | Product Charge Pump | 0.16 | 0.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.06 | <0.01 | 0.16 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| P-51600, P-51650, P-51700 | NGL Pipeline Pump | 0.12 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.04 | <0.01 | 0.12 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| P-50609 | Methanol Injection Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-50654 | Expander Lube Oil Makeup Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-50781A, P-50781B | HMO Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-57010 | Residue Compressor Lube Oil Storage Tank | 0.05 | 0.05 | 0.05 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-57020 | Amine Storage Tank | 0.05 | 0.05 | 0.05 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HE-57025 | Amine Tank Immersion Heater | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-57030 | Glycol Storage Tank | 0.50 | 0.50 | 0.50 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56300 | Amine Process Drain Tank | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56400 | Glycol Process Drain Sump | 0.03 | 0.03 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56350 | Amine Area Sump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56450 | Glycol Area Sump | 0.03 | 0.03 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56500 | Amine HMO Area Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56550 | CO2 Vent Stack Area Sump | 0.11 | 0.11 | 0.11 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 103.65 | 0.15 | 0.10 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56600 | Residue Compressor Area Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56750 | Cryo HMO Skid Drain Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-56700 | Cryo / Refrig Area Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-57700 | Methanol Storage Tank | 5.16 | 5.16 | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-54201 | Amine Contactor | 10.03 | 10.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.44 | <0.01 | 21.68 | 0.03 | 10.03 | 0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 0.21 | <0.01 | 150.13 | 0.22 | 22.53 | 0.03 |
| T-53402/T-53403 | Amine Still/Reflux Accumulator | 0.07 | 0.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.08 | 0.24 | 0.05 | 0.15 | 0.07 | <0.01 | 0.84 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 6,531.90 | 9.45 | 0.07 | <0.01 |
| T-55701 | TEG Contactor | 2.33 | 2.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.27 | <0.01 | 5.04 | <0.01 | 2.33 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | 34.93 | 0.05 | 5.24 | <0.01 |
| T-50501 | Demethanizer | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.27 | 0.01 | 28.94 | 0.04 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1,709.60 | 2.47 | 7.67 | 0.01 |
| V-51200 | Prestabilizer Separator | 3.58 | 3.58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.94 | <0.01 | 7.74 | 0.01 | 3.58 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 53.59 | 0.08 | 8.04 | 0.01 |
| V-55000 | Flare KO Drum | 2.00 | 2.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.09 | <0.01 | 4.32 | <0.01 | 2.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 29.94 | 0.04 | 4.49 | <0.01 |
| V-55510 | CO2 Vent Scrubber | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 304.10 | 0.44 | <0.01 | <0.01 |
| V-55520 | CO2 Vent Stack | 0.19 | 0.19 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 172.74 | 0.25 | 0.17 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-53801 | HMO Expansion Tank | 0.02 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-54202 | Amine Scrubber | 1.81 | 1.81 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.99 | <0.01 | 3.92 | <0.01 | 1.81 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 27.17 | 0.04 | 4.08 | <0.01 |
| V-53101 | Amine Flash Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-53701 | Amine Surge Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-55801 | TEG Scrubber | 0.91 | 0.91 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.49 | <0.01 | 1.96 | <0.01 | 0.91 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 13.59 | 0.02 | 2.04 | <0.01 |
| V-55101 | TEG Flash Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-55503 | BTEX Drum | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-50442, V-50443, V-50444 | Mol Sieve Dehydrator | 4.08 | 4.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.22 | <0.01 | 8.83 | 0.01 | 4.08 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | 61.13 | 0.09 | 9.17 | 0.01 |
| V-50447 | Regen Gas Scrubber | 0.02 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.05 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.31 | <0.01 | 0.05 | <0.01 |
| V-50402 | Cold Separator | 2.40 | 2.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.30 | <0.01 | 5.19 | <0.01 | 2.40 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | 35.93 | 0.05 | 5.39 | <0.01 |
| V-50404 | Product Surge Tank | 114.63 | 114.63 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10.37 | 0.02 | 41.30 | 0.06 | 114.63 | 0.17 | -- | -- | -- | -- | -- | -- | 7.25 | 0.01 | 0.14 | <0.01 |
| V-50481 | Fuel Gas Scrubber | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.83 | <0.01 | 1.31 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-50403 | Cold Drain Tank | 6.27 | 6.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.57 | <0.01 | 2.26 | <0.01 | 6.27 | <0.01 | -- | -- | -- | -- | -- | -- | 0.40 | <0.01 | <0.01 | <0.01 |
| V-53100 | Amine Fuel Gas Scrubber | 8.33 | 8.33 | 8.33 | 0.01 | 0.04 | <0.01 | <0.01 | <0.01 | 2.50 | <0.01 | 18.72 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-50463 | Refrigerant Accumulator | 11.58 | 11.58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.73 | <0.01 | 6.88 | <0.01 | 11.58 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-50462 | Refrigerant Economizer | 6.67 | 6.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.00 | <0.01 | 3.97 | <0.01 | 6.67 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-50461 | Refrigerant Suction Scrubber | 5.56 | 5.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.83 | <0.01 | 3.30 | <0.01 | 5.56 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-50464 | Refrigerant Reclaimer | 0.03 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| *Activity durations are conservative estimates. | | **Train 5 Vented SSM** | | **49.48** | **0.08** | **5.39** | **<0.01** | **<0.01** | **<0.01** | **625.44** | **0.90** | **171.53** | **0.25** | | | | | | | | | | | | | | | | |
| | | **RH4-FL-45100** | | | | | | | | | | | | **10.95** | **0.02** | **43.62** | **0.06** | **20.20** | **0.03** | **0.05** | **<0.01** | **<0.01** | **<0.01** | **0.43** | **<0.01** | **302.03** | **0.44** | **45.32** | **0.07** |
| | | **RH5-FL-55100** | | | | | | | | | | | | **35.52** | **0.05** | **141.47** | **0.20** | **210.67** | **0.30** | **0.05** | **<0.01** | **<0.01** | **<0.01** | **0.21** | **<0.01** | **1,938.25** | **2.80** | **29.54** | **0.04** |
| | | **RH5-TO-55500** | | | | | | | | | | | | **0.16** | **0.46** | **0.10** | **0.28** | **0.13** | **<0.01** | **1.59** | **<0.01** | **<0.01** | **<0.01** | **0.08** | **<0.01** | **12,359.88** | **17.88** | **0.12** | **<0.01** |

**Train 6**

| Train 6 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | Vented Emissions: TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Flared Emissions: Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-62401 | NGL Reflux Condenser | 1.55 | 1.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.14 | <0.01 | 0.56 | <0.01 | 1.55 | <0.01 | -- | -- | -- | -- | -- | -- | 0.10 | <0.01 | <0.01 | <0.01 |
| AC-62402 | Product Cooler | 0.03 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| AC-65501 | TEG Cooler | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 6 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| AC-65502 | BTEX Condenser | Glycol | 9.09 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| A-60341 | Regen Gas Cooler | Inlet Gas | 19.47 | - | 37.91 | 50.23 | 3.01 | 62.91 | 83.35 | 5.00 | 112.91 | 149.59 | 8.97 | 112.91 | 149.59 | 8.97 | 22.73 | 25.96 |
| A-60301 | Expander Compressor Aftercooler | Residue Gas | 56.19 | - | 37.91 | 144.94 | 6.83 | 62.91 | 240.53 | 11.34 | 112.91 | 431.69 | 20.36 | 112.91 | 431.69 | 20.36 | 17.87 | 58.89 |
| A-60361A, A-60361B, A-60361C, A-60361D | Refrigerant Condenser | Propane | 250.84 | 174.83 | 37.91 | 647.08 | 75.29 | 62.91 | 1073.80 | 124.94 | 112.91 | 1927.25 | 224.24 | 112.91 | 1927.25 | 224.24 | 44.10 | 648.70 |
| A-60161, A-60162, A-60163 | Refrigerant Compressor Lube Oil Cooler | Lube Oil | 62.70 | 0.01 | 0.01 | 0.04 | 0.02 | 0.01 | 0.04 | 0.02 | 0.01 | 0.04 | 0.02 | 0.01 | 0.04 | 0.02 | 200.00 | 0.09 |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | Residue Gas | 139.92 | - | 37.91 | 360.94 | 17.02 | 62.91 | 598.96 | 28.24 | 112.91 | 1075.01 | 50.69 | 112.91 | 1075.01 | 50.69 | 17.87 | 146.64 |
| HAL-69300, HAL-69400 | Flash Gas Compressor Intercooler / Aftercooler | Inlet Gas | 48.06 | - | 37.91 | 123.97 | 7.44 | 62.91 | 205.72 | 12.34 | 112.91 | 369.22 | 22.15 | 112.91 | 369.22 | 22.15 | 22.73 | 64.07 |
| C-60161, C-60162, C-60163 | Refrigerant Compressor | Propane | 973.73 | 174.83 | 37.91 | 2511.86 | 292.26 | 62.91 | 4168.32 | 484.99 | 112.91 | 7481.24 | 870.45 | 112.91 | 7481.24 | 870.45 | 44.10 | 2518.14 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | Residue Gas | 1,011.48 | - | 37.91 | 2609.23 | 123.03 | 62.91 | 4329.91 | 204.17 | 112.91 | 7771.26 | 366.43 | 112.91 | 7771.26 | 366.43 | 17.87 | 1060.06 |
| C-69300, C-69400 | Flash Gas Compressor | Inlet Gas | 151.91 | - | 37.91 | 391.86 | 23.51 | 62.91 | 650.28 | 39.01 | 112.91 | 1167.11 | 70.01 | 112.91 | 1167.11 | 70.01 | 22.73 | 202.53 |
| EC-60101 | Expander/Compressor | Inlet Gas | 122.34 | - | 37.91 | 315.60 | 18.93 | 62.91 | 523.73 | 31.42 | 112.91 | 939.98 | 56.38 | 112.91 | 939.98 | 56.38 | 22.73 | 163.12 |
| C-60141 | Regen Gas Compressor | Inlet Gas | 2.54 | - | 37.91 | 6.55 | 0.39 | 62.91 | 10.87 | 0.65 | 112.91 | 19.51 | 1.17 | 112.91 | 19.51 | 1.17 | 22.73 | 3.39 |
| F-61530 | Seal Gas Filter | Residue Gas | 1.18 | - | 37.91 | 3.06 | 0.14 | 62.91 | 5.07 | 0.24 | 112.91 | 9.10 | 0.43 | 112.91 | 9.10 | 0.43 | 17.87 | 1.24 |
| F-60441 | Inlet Filter Coalescer | Inlet Gas | 134.77 | - | 37.91 | 347.67 | 20.85 | 62.91 | 576.94 | 34.61 | 112.91 | 1035.48 | 62.11 | 112.91 | 1035.48 | 62.11 | 22.73 | 179.69 |
| F-60408 | Residue Gas Filter/Coalescer | Residue Gas | 16.85 | - | 37.91 | 43.46 | 2.05 | 62.91 | 72.12 | 3.40 | 112.91 | 129.43 | 6.10 | 112.91 | 129.43 | 6.10 | 17.87 | 17.66 |
| F-62101, F-62102 | Condensate Filter | Condensate | 63.36 | 6.80 | 6.80 | 29.32 | 7.24 | 6.80 | 29.32 | 7.24 | 6.80 | 29.32 | 7.24 | 6.80 | 29.32 | 7.24 | 93.55 | 28.94 |
| F-63805 | HMO Filter | Hot Oil | 26.62 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 200.00 | 0.04 |
| F-65201 | TEG Pre-Carbon Filter | Glycol | 1.75 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| F-65202 | TEG Carbon Filter | Glycol | 138.23 | 0.01 | 0.01 | 0.09 | 0.04 | 0.01 | 0.09 | 0.04 | 0.01 | 0.09 | 0.04 | 0.01 | 0.09 | 0.04 | 150.17 | 0.15 |
| F-65203 | TEG Rich Soilds Filter | Glycol | 1.75 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| F-65401 | TEG Lean Soilds Filter | Glycol | 1.75 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| F-61225 | Inlet Filter Coalescer | Inlet Gas | 121.19 | - | 37.91 | 312.63 | 18.75 | 62.91 | 518.79 | 31.12 | 112.91 | 931.12 | 55.85 | 112.91 | 931.12 | 55.85 | 22.73 | 161.58 |
| F-61275 | Glycol Inlet Filter Coalescer | Inlet Gas | 121.19 | - | 37.91 | 312.63 | 18.75 | 62.91 | 518.79 | 31.12 | 112.91 | 931.12 | 55.85 | 112.91 | 931.12 | 55.85 | 22.73 | 161.58 |
| F-60445, F-60446 | Mol Sieve Dust Filter | Inlet Gas | 62.72 | - | 37.91 | 161.78 | 9.70 | 62.91 | 268.47 | 16.10 | 112.91 | 481.85 | 28.90 | 112.91 | 481.85 | 28.90 | 22.73 | 83.62 |
| E-64101, E-64102 | Gas/Gas Exchanger | Inlet Gas | 231.99 | - | 37.91 | 598.46 | 35.90 | 62.91 | 993.11 | 59.57 | 112.91 | 1782.42 | 106.92 | 112.91 | 1782.42 | 106.92 | 22.73 | 309.31 |
| E-62201 | De-ethanizer Feed/Bottoms Exchanger | Condensate | 13.86 | 6.80 | 6.80 | 6.41 | 1.58 | 6.80 | 6.41 | 1.58 | 6.80 | 6.41 | 1.58 | 6.80 | 6.41 | 1.58 | 93.55 | 6.33 |
| E-62204 | De-ethanizer Reboiler | Condensate | 296.57 | 6.80 | 6.80 | 137.23 | 33.87 | 6.80 | 137.23 | 33.87 | 6.80 | 137.23 | 33.87 | 6.80 | 137.23 | 33.87 | 93.55 | 135.48 |
| E-62301 | Stabilizer Feed/Bottoms Exchanger | Condensate | 32.51 | 6.80 | 6.80 | 15.04 | 3.71 | 6.80 | 15.04 | 3.71 | 6.80 | 15.04 | 3.71 | 6.80 | 15.04 | 3.71 | 93.55 | 14.85 |
| E-63204 | Stabilizer Reboiler | Condensate | 327.20 | 6.80 | 6.80 | 151.40 | 37.37 | 6.80 | 151.40 | 37.37 | 6.80 | 151.40 | 37.37 | 6.80 | 151.40 | 37.37 | 93.55 | 149.47 |
| E-69200 | Flash Gas Suction Pre-Heat Exchanger | Inlet Gas | 3.82 | - | 37.91 | 9.86 | 0.59 | 62.91 | 16.37 | 0.98 | 112.91 | 29.37 | 1.76 | 112.91 | 29.37 | 1.76 | 22.73 | 5.10 |
| E-65301 | TEG Reboiler | Glycol | 239.64 | 0.01 | 0.01 | 0.16 | 0.06 | 0.01 | 0.16 | 0.06 | 0.01 | 0.16 | 0.06 | 0.01 | 0.16 | 0.06 | 150.17 | 0.26 |
| E-65204 | TEG Lean/Rich Exchanger | Glycol | 81.52 | 0.01 | 0.01 | 0.06 | 0.02 | 0.01 | 0.06 | 0.02 | 0.01 | 0.06 | 0.02 | 0.01 | 0.06 | 0.02 | 150.17 | 0.09 |
| E-60201/E-60206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | Inlet Gas | 348.51 | - | 37.91 | 899.01 | 53.93 | 62.91 | 1491.87 | 89.49 | 112.91 | 2677.58 | 160.62 | 112.91 | 2677.58 | 160.62 | 22.73 | 464.65 |
| E-60202 | Gas/Product Exchanger | Y-Grade | 149.11 | 397.30 | 37.91 | 384.64 | 41.58 | 62.91 | 638.29 | 68.99 | 112.91 | 1145.60 | 123.83 | 112.91 | 1145.60 | 123.83 | 40.97 | 358.22 |
| E-60204/60205 | Demethanizer Side Heater and Demethanizer Reboiler | Inlet Gas | 79.75 | - | 37.91 | 205.73 | 12.34 | 62.91 | 341.40 | 20.48 | 112.91 | 612.75 | 36.76 | 112.91 | 612.75 | 36.76 | 22.73 | 106.33 |
| E-60207 | Demethanizer Trim Reboiler | Y-Grade | 46.03 | 397.30 | 37.91 | 118.73 | 12.83 | 62.91 | 197.03 | 21.30 | 112.91 | 353.62 | 38.22 | 112.91 | 353.62 | 38.22 | 40.97 | 110.57 |
| E-60203 | Chiller | Propane | 1,784.74 | 174.83 | 37.91 | 4603.95 | 535.67 | 62.91 | 7640.05 | 888.93 | 112.91 | 13712.26 | 1595.43 | 112.91 | 13712.26 | 1595.43 | 44.10 | 4615.47 |
| H-60001 | Hot Oil Heater | Hot Oil | 554.96 | 0.01 | 0.01 | 0.38 | 0.20 | 0.01 | 0.38 | 0.20 | 0.01 | 0.38 | 0.20 | 0.01 | 0.38 | 0.20 | 200.00 | 0.80 |
| H-60741 | Regen Gas Heater | Inlet Gas | 55.24 | - | 37.91 | 142.50 | 8.55 | 62.91 | 236.47 | 14.18 | 112.91 | 424.42 | 25.46 | 112.91 | 424.42 | 25.46 | 22.73 | 73.65 |
| H-60781 | HMO Heater | Hot Oil | 244.17 | 0.01 | 0.01 | 0.17 | 0.09 | 0.01 | 0.17 | 0.09 | 0.01 | 0.17 | 0.09 | 0.01 | 0.17 | 0.09 | 200.00 | 0.35 |
| P-67015 | Residue Compressor Lube Oil Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-67005 | Flash Gas Compressor Lube Oil Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-63802, P-63803, P-63804 | HMO Pump | Hot Oil | 17.88 | 0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 200.00 | 0.03 |
| P-61500, P-61525 | Stabilizer NGL Booster Pump | Y-Grade | 9.55 | 397.30 | 37.91 | 24.63 | 2.66 | 62.91 | 40.88 | 4.42 | 112.91 | 73.36 | 7.93 | 112.91 | 73.36 | 7.93 | 40.97 | 22.94 |
| P-61550, P-61575 | Stabilizer NGL Pipeline Pump | Y-Grade | 5.09 | 397.30 | 37.91 | 13.14 | 1.42 | 62.91 | 21.80 | 2.36 | 112.91 | 39.13 | 4.23 | 112.91 | 39.13 | 4.23 | 40.97 | 12.24 |
| P-65601, P-65602 | TEG Circulation Pumps | Glycol | 2.61 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-66755 | Stabilizer Area Sump Pump | Condensate | 1.28 | 6.80 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 93.55 | 0.58 |
| P-66805 | Stabilizer HMO Area Sump Pump | Hot Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-66605 | Residue Compressor Area Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-66850 | Flash Gas Compressor Area Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-66705 | Cryo / Refrig Area Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-65402, P-65403 | TEG Booster Pump | Glycol | 1.32 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-65504 | BTEX Pump | Glycol | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 150.17 | <0.01 |
| P-60600, P-60601, P-60602 | Product Charge Pump | Y-Grade | 13.11 | 397.30 | 37.91 | 33.81 | 3.65 | 62.91 | 56.11 | 6.07 | 112.91 | 100.71 | 10.89 | 112.91 | 100.71 | 10.89 | 40.97 | 31.49 |
| P-61600, P-61650, P-61700 | NGL Pipeline Pump | Y-Grade | 9.85 | 397.30 | 37.91 | 25.41 | 2.75 | 62.91 | 42.16 | 4.56 | 112.91 | 75.67 | 8.18 | 112.91 | 75.67 | 8.18 | 40.97 | 23.66 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 6 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| AC-65502 | BTEX Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | <0.01 | <0.01 |
| A-60341 | Regen Gas Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 2.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | 0.01 | 0.02 |
| A-60301 | Expander Compressor Aftercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | <0.01 | <0.01 |
| A-60361A, A-60361B, A-60361C, A-60361D | Refrigerant Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 224.24 | 0.32 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 1.51 | 2.50 |
| A-60161, A-60162, A-60163 | Refrigerant Compressor Lube Oil Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.02 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.02 | 0.02 |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| HAL-69300, HAL-69400 | Flash Gas Compressor Intercooler / Aftercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 5.15 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.03 | 0.06 |
| C-60161, C-60162, C-60163 | Refrigerant Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 870.45 | 1.26 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 5.85 | 9.70 |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | 0.02 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | 0.01 |
| C-69300, C-69400 | Flash Gas Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 16.28 | 0.02 | 0.35 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.11 | 0.18 |
| EC-60101 | Expander/Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 13.11 | 0.02 | 0.28 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 4.40 | 7.31 |
| C-60141 | Regen Gas Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 0.09 | 0.15 |
| F-61530 | Seal Gas Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-60441 | Inlet Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 14.44 | 0.02 | 0.31 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 4.85 | 8.05 |
| F-60408 | Residue Gas Filter/Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-62101, F-62102 | Condensate Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 6.91 | 0.01 | 0.71 | <0.01 | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.14 | 0.14 |
| F-63805 | HMO Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-65201 | TEG Pre-Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-65202 | TEG Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| F-65203 | TEG Rich Soilds Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-65401 | TEG Lean Soilds Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-61225 | Inlet Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 12.99 | 0.02 | 0.28 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.09 | 0.14 |
| F-61275 | Glycol Inlet Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 12.99 | 0.02 | 0.28 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.09 | 0.14 |
| F-60445, F-60446 | Mol Sieve Dust Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | -- | 6.72 | <0.01 | 0.14 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 2.26 | 3.74 |
| E-64101, E-64102 | Gas/Gas Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 24.86 | 0.04 | 0.53 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.17 | 0.28 |
| E-62201 | De-ethanizer Feed/Bottoms Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 1.51 | <0.01 | 0.15 | <0.01 | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.03 | 0.03 |
| E-62204 | De-ethanizer Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 32.34 | 0.06 | 3.31 | <0.01 | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.65 | 0.65 |
| E-62301 | Stabilizer Feed/Bottoms Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 3.54 | <0.01 | 0.36 | <0.01 | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.07 | 0.07 |
| E-63204 | Stabilizer Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 35.68 | 0.07 | 3.65 | <0.01 | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.71 | 0.71 |
| E-69200 | Flash Gas Suction Pre-Heat Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 0.41 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| E-65301 | TEG Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.06 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | <0.01 | <0.01 |
| E-65204 | TEG Lean/Rich Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.02 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.02 | 0.02 |
| E-60201/E-60206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 37.35 | 0.05 | 0.79 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | 0.25 | 0.42 |
| E-60202 | Gas/Product Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 89.12 | 0.13 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 0.60 | 0.99 |
| E-60204/60205 | Demethanizer Side Heater and Demethanizer Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 8.55 | 0.01 | 0.18 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | 0.06 | 0.10 |
| E-60207 | Demethanizer Trim Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 27.51 | 0.04 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 0.18 | 0.31 |
| E-60203 | Chiller | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 1,595.43 | 2.31 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 10.71 | 17.78 |
| H-60001 | Hot Oil Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.20 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| H-60741 | Regen Gas Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 5.92 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | 0.04 | 0.07 |
| H-60781 | HMO Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.09 | <0.01 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | <0.01 | <0.01 |
| P-67015 | Residue Compressor Lube Oil Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-67005 | Flash Gas Compressor Lube Oil Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-63802, P-63803, P-63804 | HMO Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-61500, P-61525 | Stabilizer NGL Booster Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | -- | 5.71 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 1.92 | 3.18 |
| P-61550, P-61575 | Stabilizer NGL Pipeline Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 3.04 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.02 | 0.03 |
| P-65601, P-65602 | TEG Circulation Pumps | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-66755 | Stabilizer Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.14 | 0.14 |
| P-66805 | Stabilizer HMO Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-66605 | Residue Compressor Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-66850 | Flash Gas Compressor Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-66705 | Cryo / Refrig Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-65402, P-65403 | TEG Booster Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-65504 | BTEX Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-60600, P-60601, P-60602 | Product Charge Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 7.83 | 0.01 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 0.05 | 0.09 |
| P-61600, P-61650, P-61700 | NGL Pipeline Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 5.89 | <0.01 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 0.04 | 0.07 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 6 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-65502 | BTEX Condenser | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-60341 | Regen Gas Cooler | 0.04 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.09 | <0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.62 | <0.01 | 0.09 | <0.01 |
| A-60301 | Expander Compressor Aftercooler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 15.79 | 0.02 | 0.07 | <0.01 |
| A-60361A, A-60361B, A-60361C, A-60361D | Refrigerant Condenser | 4.48 | 4.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.67 | <0.01 | 2.66 | <0.01 | 4.48 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| A-60161, A-60162, A-60163 | Refrigerant Compressor Lube Oil Cooler | 0.02 | 0.02 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-1300-IC-1, HAL-1350-IC-1, HAL-1400-IC-1, HAL-1450-IC-1 | Residue Compressor Intercooler | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 39.31 | 0.06 | 8.81 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-69300, HAL-69400 | Flash Gas Compressor Intercooler / Aftercooler | 0.10 | 0.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.06 | <0.01 | 0.22 | <0.01 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.54 | <0.01 | 0.23 | <0.01 |
| C-60161, C-60162, C-60163 | Refrigerant Compressor | 17.41 | 17.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.60 | <0.01 | 10.35 | 0.01 | 17.41 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-1300, C-1350, C-1400, C-1450 | Residue Compressor | 0.02 | 0.02 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 284.16 | 0.41 | 63.72 | 0.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-69300, C-69400 | Flash Gas Compressor | 0.33 | 0.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.18 | <0.01 | 0.70 | <0.01 | 0.33 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.87 | <0.01 | 0.73 | <0.01 |
| EC-60101 | Expander/Compressor | 13.11 | 13.11 | 13.11 | 0.02 | 0.06 | <0.01 | <0.01 | <0.01 | 3.93 | <0.01 | 29.46 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-60141 | Regen Gas Compressor | 0.27 | 0.27 | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 0.61 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-61530 | Seal Gas Filter | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.33 | <0.01 | 0.07 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-60441 | Inlet Filter Coalescer | 14.44 | 14.44 | 14.44 | 0.02 | 0.07 | <0.01 | <0.01 | <0.01 | 4.33 | <0.01 | 32.45 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-60408 | Residue Gas Filter/Coalescer | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.73 | <0.01 | 1.06 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-62101, F-62102 | Condensate Filter | 0.14 | 0.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.05 | <0.01 | 0.14 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- |
| F-63805 | HMO Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65201 | TEG Pre-Carbon Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65202 | TEG Carbon Filter | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65203 | TEG Rich Soilds Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-65401 | TEG Lean Soilds Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-61225 | Inlet Filter Coalescer | 0.26 | 0.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.14 | <0.01 | 0.56 | <0.01 | 0.26 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.89 | <0.01 | 0.58 | <0.01 |
| F-61275 | Glycol Inlet Filter Coalescer | 0.26 | 0.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.14 | <0.01 | 0.56 | <0.01 | 0.26 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.89 | <0.01 | 0.58 | <0.01 |
| F-60445, F-60446 | Mol Sieve Dust Filter | 6.72 | 6.72 | 6.72 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | 2.01 | <0.01 | 15.10 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-64101, E-64102 | Gas/Gas Exchanger | 0.50 | 0.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.27 | <0.01 | 1.08 | <0.01 | 0.50 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | 7.45 | 0.01 | 1.12 | <0.01 |
| E-62201 | De-ethanizer Feed/Bottoms Exchanger | 0.03 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| E-62204 | De-ethanizer Reboiler | 0.65 | 0.65 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.06 | <0.01 | 0.26 | <0.01 | 0.65 | <0.01 | -- | -- | -- | -- | 0.07 | <0.01 | -- | -- | -- | -- |
| E-62301 | Stabilizer Feed/Bottoms Exchanger | 0.07 | 0.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.03 | <0.01 | 0.07 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| E-63204 | Stabilizer Reboiler | 0.71 | 0.71 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.28 | <0.01 | 0.71 | <0.01 | -- | -- | -- | -- | 0.07 | <0.01 | -- | -- | -- | -- |
| E-69200 | Flash Gas Suction Pre-Heat Exchanger | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.12 | <0.01 | 0.02 | <0.01 |
| E-65301 | TEG Reboiler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-65204 | TEG Lean/Rich Exchanger | 0.02 | 0.02 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-60201/E-60206 | Warm Gas/Gas Exchanger and Demethanizer Reflux Condenser | 0.75 | 0.75 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.41 | <0.01 | 1.61 | <0.01 | 0.75 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 11.18 | 0.02 | 1.68 | <0.01 |
| E-60202 | Gas/Product Exchanger | 1.78 | 1.78 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.16 | <0.01 | 0.64 | <0.01 | 1.78 | <0.01 | -- | -- | -- | -- | -- | -- | 0.11 | <0.01 | <0.01 | <0.01 |
| E-60204/60205 | Demethanizer Side Heater and Demethanizer Reboiler | 0.17 | 0.17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.09 | <0.01 | 0.37 | <0.01 | 0.17 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.56 | <0.01 | 0.38 | <0.01 |
| E-60207 | Demethanizer Trim Reboiler | 0.55 | 0.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.20 | <0.01 | 0.55 | <0.01 | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | <0.01 | <0.01 |
| E-60203 | Chiller | 31.91 | 31.91 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.76 | <0.01 | 18.96 | 0.03 | 31.91 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-60001 | Hot Oil Heater | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-60741 | Regen Gas Heater | 0.12 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.06 | <0.01 | 0.26 | <0.01 | 0.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.77 | <0.01 | 0.27 | <0.01 |
| H-60781 | HMO Heater | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-67015 | Residue Compressor Lube Oil Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-67005 | Flash Gas Compressor Lube Oil Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-63802, P-63803, P-63804 | HMO Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-61500, P-61525 | Stabilizer NGL Booster Pump | 5.71 | 5.71 | 5.71 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-61550, P-61575 | Stabilizer NGL Pipeline Pump | 0.06 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.06 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| P-65601, P-65602 | TEG Circulation Pumps | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-66755 | Stabilizer Area Sump Pump | 0.14 | 0.14 | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-66805 | Stabilizer HMO Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-66605 | Residue Compressor Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-66850 | Flash Gas Compressor Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-66705 | Cryo / Refrig Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-65402, P-65403 | TEG Booster Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-65504 | BTEX Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-60600, P-60601, P-60602 | Product Charge Pump | 0.16 | 0.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.06 | <0.01 | 0.16 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |
| P-61600, P-61650, P-61700 | NGL Pipeline Pump | 0.12 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.04 | <0.01 | 0.12 | <0.01 | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 6 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| P-60609 | Methanol Injection Pump | Methanol | 0.11 | 4.05 | 4.05 | 0.03 | <0.01 | 4.05 | 0.03 | <0.01 | 4.05 | 0.03 | <0.01 | 4.05 | 0.03 | <0.01 | 32.04 | 0.01 |
| P-60654 | Expander Lube Oil Makeup Pump | Lube Oil | 0.02 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-60781A, P-60781B | HMO Pump | Hot Oil | 2.00 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| TK-67010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.34 | 0.01 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 200.00 | 0.22 |
| TK-67000 | Flash Gas Compressor Lube Oil Storage Tank | Lube Oil | 152.34 | 0.01 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 200.00 | 0.22 |
| TK-66750 | Stabilizer Area Sump | Condensate | 124.41 | 6.80 | 6.80 | 57.56 | 14.21 | 6.80 | 57.56 | 14.21 | 6.80 | 57.56 | 14.21 | 6.80 | 57.56 | 14.21 | 93.55 | 56.83 |
| TK-66800 | Stabilizer HMO Area Sump | Hot Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-66600 | Residue Compressor Area Sump | Lube Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-66850 | Flash Gas Compressor Area Sump | Lube Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-66700 | Cryo / Refrig Area Sump | Lube Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-67700 | Methanol Storage Tank | Methanol | 221.17 | 4.05 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 32.04 | 20.63 |
| T-64201, T-64202 | Amine Contactor | Inlet Gas | 5,079.96 | - | 37.91 | 13104.32 | 786.07 | 62.91 | 21746.05 | 1304.44 | 112.91 | 39029.52 | 2341.20 | 112.91 | 39029.52 | 2341.20 | 22.73 | 6772.91 |
| T-65701 | TEG Contactor | Inlet Gas | 1,277.55 | - | 37.91 | 3295.58 | 197.69 | 62.91 | 5468.87 | 328.05 | 112.91 | 9815.46 | 588.78 | 112.91 | 9815.46 | 588.78 | 22.73 | 1703.31 |
| T-62202 | De-ethanizer Tower | Inlet Gas | 787.26 | - | 37.91 | 2030.84 | 121.82 | 62.91 | 3370.08 | 202.16 | 112.91 | 6048.58 | 362.83 | 112.91 | 6048.58 | 362.83 | 22.73 | 1049.63 |
| T-62302 | Stabilizer Tower | Y-Grade | 1,568.05 | 397.30 | 37.91 | 4044.96 | 437.21 | 62.91 | 6712.43 | 725.54 | 112.91 | 12047.38 | 1302.19 | 112.91 | 12047.38 | 1302.19 | 40.97 | 3767.13 |
| T-60501 | Demethanizer | Residue Gas | 6,085.37 | - | 37.91 | 15697.91 | 740.19 | 62.91 | 26050.00 | 1228.32 | 112.91 | 46754.18 | 2204.56 | 112.91 | 46754.18 | 2204.56 | 17.87 | 6377.64 |
| V-62203 | De-ethanizer Drain Pot | Condensate | 18.69 | 6.80 | 6.80 | 8.65 | 2.14 | 6.80 | 8.65 | 2.14 | 6.80 | 8.65 | 2.14 | 6.80 | 8.65 | 2.14 | 93.55 | 8.54 |
| V-62303 | Stabilizer Drain Pot | Condensate | 18.69 | 6.80 | 6.80 | 8.65 | 2.14 | 6.80 | 8.65 | 2.14 | 6.80 | 8.65 | 2.14 | 6.80 | 8.65 | 2.14 | 93.55 | 8.54 |
| V-62501 | NGL Surge Tank | Y-Grade | 846.66 | 397.30 | 37.91 | 2184.05 | 236.07 | 62.91 | 3624.34 | 391.75 | 112.91 | 6504.92 | 703.11 | 112.91 | 6504.92 | 703.11 | 40.97 | 2034.04 |
| V-63801 | HMO Expansion Tank | Hot Oil | 2,591.81 | 0.01 | 0.01 | 1.76 | 0.93 | 0.01 | 1.76 | 0.93 | 0.01 | 1.76 | 0.93 | 0.01 | 1.76 | 0.93 | 200.00 | 3.72 |
| V-64301, V-64302 | Amine Scrubber | Inlet Gas | 1,045.36 | - | 37.91 | 2696.64 | 161.76 | 62.91 | 4474.95 | 268.43 | 112.91 | 8031.58 | 481.78 | 112.91 | 8031.58 | 481.78 | 22.73 | 1393.74 |
| V-65303 | TEG Surge Tank | Amine | 280.78 | 0.01 | 0.01 | 0.19 | 0.05 | 0.01 | 0.19 | 0.05 | 0.01 | 0.19 | 0.05 | 0.01 | 0.19 | 0.05 | 105.14 | 0.21 |
| T-65801 | TEG Scrubber | Inlet Gas | 485.97 | - | 37.91 | 1253.60 | 75.20 | 62.91 | 2080.30 | 124.79 | 112.91 | 3733.69 | 223.97 | 112.91 | 3733.69 | 223.97 | 22.73 | 647.92 |
| V-65101 | TEG Flash Tank | Glycol | 138.23 | 0.01 | 0.01 | 0.09 | 0.04 | 0.01 | 0.09 | 0.04 | 0.01 | 0.09 | 0.04 | 0.01 | 0.09 | 0.04 | 150.17 | 0.15 |
| V-65503 | BTEX Drum | Glycol | 34.56 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 150.17 | 0.04 |
| V-60442, V-60443, V-60444 | Mol Sieve Dehydrator | Inlet Gas | 1,904.98 | - | 37.91 | 4914.12 | 294.78 | 62.91 | 8154.77 | 489.17 | 112.91 | 14636.07 | 877.95 | 112.91 | 14636.07 | 877.95 | 22.73 | 2539.84 |
| V-60447 | Regen Gas Scrubber | Inlet Gas | 9.72 | - | 37.91 | 25.07 | 1.50 | 62.91 | 41.61 | 2.50 | 112.91 | 74.67 | 4.48 | 112.91 | 74.67 | 4.48 | 22.73 | 12.96 |
| V-60402 | Cold Separator | Inlet Gas | 1,119.66 | - | 37.91 | 2888.30 | 173.26 | 62.91 | 4793.01 | 287.51 | 112.91 | 8602.42 | 516.02 | 112.91 | 8602.42 | 516.02 | 22.73 | 1492.80 |
| V-60404 | Product Surge Tank | Y-Grade | 9,589.37 | 397.30 | 37.91 | 24736.87 | 2673.78 | 62.91 | 41049.76 | 4437.02 | 112.91 | 73675.54 | 7963.51 | 112.91 | 73675.54 | 7963.51 | 40.97 | 23037.82 |
| V-60481 | Fuel Gas Scrubber | Residue Gas | 20.73 | - | 37.91 | 53.49 | 2.52 | 62.91 | 88.76 | 4.19 | 112.91 | 159.30 | 7.51 | 112.91 | 159.30 | 7.51 | 17.87 | 21.73 |
| V-60403 | Cold Drain Tank | Y-Grade | 524.84 | 397.30 | 37.91 | 1353.89 | 146.34 | 62.91 | 2246.72 | 242.85 | 112.91 | 4032.39 | 435.86 | 112.91 | 4032.39 | 435.86 | 40.97 | 1260.90 |
| V-69060 | Condensate Surge Tank | Inlet Gas | 13,079.86 | - | 37.91 | 33740.97 | 2023.96 | 62.91 | 55991.68 | 3358.68 | 112.91 | 100493.10 | 6028.11 | 112.91 | 100493.10 | 6028.11 | 22.73 | 17438.86 |
| V-60463 | Refrigerant Accumulator | Propane | 647.95 | 174.83 | 37.91 | 1671.47 | 194.48 | 62.91 | 2773.73 | 322.73 | 112.91 | 4978.25 | 579.22 | 112.91 | 4978.25 | 579.22 | 44.10 | 1675.65 |
| V-60462 | Refrigerant Economizer | Propane | 373.22 | 174.83 | 37.91 | 962.77 | 112.02 | 62.91 | 1597.67 | 185.89 | 112.91 | 2867.47 | 333.63 | 112.91 | 2867.47 | 333.63 | 44.10 | 965.18 |
| V-60461 | Refrigerant Suction Scrubber | Propane | 311.02 | 174.83 | 37.91 | 802.31 | 93.35 | 62.91 | 1331.39 | 154.91 | 112.91 | 2389.56 | 278.03 | 112.91 | 2389.56 | 278.03 | 44.10 | 804.31 |
| V-60464 | Refrigerant Reclaimer | Propane | 1.73 | 174.83 | 37.91 | 4.47 | 0.52 | 62.91 | 7.42 | 0.86 | 112.91 | 13.32 | 1.55 | 112.91 | 13.32 | 1.55 | 44.10 | 4.48 |

*Activity durations are conservative estimates.

**FET-1**

| FET-1 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| AC-4601 | Reflux Condenser | Acid Gas | 36.19 | - | 37.91 | 93.36 | 10.15 | 62.91 | 154.92 | 16.85 | 112.91 | 278.05 | 30.24 | 112.91 | 278.05 | 30.24 | 41.22 | 87.48 |
| AC-4501 | Amine Cooler | Amine | 80.30 | 0.01 | 0.01 | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 0.01 | 0.05 | 0.02 | 105.14 | 0.06 |
| HAL-5530 | Acid Gas Compressor Intercooler / Aftercooler | Acid Gas | 9.20 | - | 37.91 | 23.74 | 2.58 | 62.91 | 39.39 | 4.28 | 112.91 | 70.70 | 7.69 | 112.91 | 70.70 | 7.69 | 41.22 | 22.24 |
| HAL-5540 | Acid Gas Compressor Intercooler / Aftercooler | Acid Gas | 12.18 | - | 37.91 | 31.42 | 3.42 | 62.91 | 52.13 | 5.67 | 112.91 | 93.57 | 10.18 | 112.91 | 93.57 | 10.18 | 41.22 | 29.44 |
| C-5530 | Acid Gas Compressor | Acid Gas | 47.60 | - | 37.91 | 122.80 | 13.35 | 62.91 | 203.78 | 22.16 | 112.91 | 365.74 | 39.77 | 112.91 | 365.74 | 39.77 | 41.22 | 115.06 |
| C-5540 | Acid Gas Compressor | Acid Gas | 75.37 | - | 37.91 | 194.42 | 21.14 | 62.91 | 322.63 | 35.09 | 112.91 | 579.06 | 62.97 | 112.91 | 579.06 | 62.97 | 41.22 | 182.17 |
| F-4201 | Pre-Carbon Solids Filter | Amine | 41.93 | 0.01 | 0.01 | 0.03 | <0.01 | 0.01 | 0.03 | <0.01 | 0.01 | 0.03 | <0.01 | 0.01 | 0.03 | <0.01 | 105.14 | 0.03 |
| F-4202, F-4204 | Carbon Filter | Amine | 846.66 | 0.01 | 0.01 | 0.58 | 0.16 | 0.01 | 0.58 | 0.16 | 0.01 | 0.58 | 0.16 | 0.01 | 0.58 | 0.16 | 105.14 | 0.64 |
| F-4203 | Rich Amine Solids Filter | Amine | 41.93 | 0.01 | 0.01 | 0.03 | <0.01 | 0.01 | 0.03 | <0.01 | 0.01 | 0.03 | <0.01 | 0.01 | 0.03 | <0.01 | 105.14 | 0.03 |
| F-4303 | Lean Amine Solids Filter | Amine | 41.93 | 0.01 | 0.01 | 0.03 | <0.01 | 0.01 | 0.03 | <0.01 | 0.01 | 0.03 | <0.01 | 0.01 | 0.03 | <0.01 | 105.14 | 0.03 |
| F-4805 | Hot Oil Filter | Hot Oil | 13.98 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | 0.02 |
| F-5002 | NGL Solids Pre-Filter | Condensate | 3.23 | 6.80 | 6.80 | 1.49 | 0.37 | 6.80 | 1.49 | 0.37 | 6.80 | 1.49 | 0.37 | 6.80 | 1.49 | 0.37 | 93.55 | 1.47 |
| F-5003 | Liquid/Liquid Coalescer | Condensate | 8.29 | 6.80 | 6.80 | 3.84 | 0.95 | 6.80 | 3.84 | 0.95 | 6.80 | 3.84 | 0.95 | 6.80 | 3.84 | 0.95 | 93.55 | 3.79 |
| F-5101 | Filter Separator | Sour Inlet Gas (B&S) | 34.56 | - | 37.91 | 89.15 | 5.66 | 62.91 | 147.93 | 9.39 | 112.91 | 265.51 | 16.86 | 112.91 | 265.51 | 16.86 | 24.07 | 48.77 |
| F-5104 | Filter Separator | Sour Inlet Gas (B&S) | 27.65 | - | 37.91 | 71.32 | 4.53 | 62.91 | 118.35 | 7.52 | 112.91 | 212.41 | 13.49 | 112.91 | 212.41 | 13.49 | 24.07 | 39.02 |
| F-1100A, F-1100B | Condensate Filters | Condensate | 8.78 | 6.80 | 6.80 | 4.06 | 1.00 | 6.80 | 4.06 | 1.00 | 6.80 | 4.06 | 1.00 | 6.80 | 4.06 | 1.00 | 93.55 | 4.01 |
| E-4301, E-4302 | Lean/Rich Amine Exchanger | Amine | 10.44 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| E-4401 | Amine Reboiler | Amine | 340.02 | 0.01 | 0.01 | 0.23 | 0.06 | 0.01 | 0.23 | 0.06 | 0.01 | 0.23 | 0.06 | 0.01 | 0.23 | 0.06 | 105.14 | 0.26 |
| E-5102 | Gas/Gas Exchanger | Sour Inlet Gas (B&S) | 42.38 | - | 37.91 | 109.31 | 6.94 | 62.91 | 181.40 | 11.52 | 112.91 | 325.57 | 20.67 | 112.91 | 325.57 | 20.67 | 24.07 | 59.81 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 6 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| P-60609 | Methanol Injection Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-60654 | Expander Lube Oil Makeup Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-60781A, P-60781B | HMO Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TK-67010 | Residue Compressor Lube Oil Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.05 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.05 | 0.05 |
| TK-67000 | Flash Gas Compressor Lube Oil Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.05 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.05 | 0.05 |
| TK-66750 | Stabilizer Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 13.56 | 0.03 | 1.39 | <0.01 | -- | -- | N | N/A | N/A | -- | 13.56 | 13.56 |
| TK-66800 | Stabilizer HMO Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-66600 | Residue Compressor Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-66850 | Flash Gas Compressor Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-66700 | Cryo / Refrig Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-67700 | Methanol Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | N | N/A | N/A | -- | 5.16 | 5.16 |
| T-64201, T-64202 | Amine Contactor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 544.43 | 0.79 | 11.59 | <0.01 | 0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 3.66 | 6.07 |
| T-65701 | TEG Contactor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 136.92 | 0.20 | 2.91 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.92 | 1.53 |
| T-62202 | De-ethanizer Tower | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 84.37 | 0.12 | 1.80 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.57 | 0.94 |
| T-62302 | Stabilizer Tower | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 937.18 | 1.36 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 6.29 | 10.44 |
| T-60501 | Demethanizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1126.07 | 0.13 | <0.01 | 0.13 | <0.01 | 0.02 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | <0.01 | <0.01 |
| V-62203 | De-ethanizer Drain Pot | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 2.04 | <0.01 | 0.21 | <0.01 | -- | -- | N | N/A | N/A | -- | 2.04 | 2.04 |
| V-62303 | Stabilizer Drain Pot | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 2.04 | <0.01 | 0.21 | <0.01 | -- | -- | N | N/A | N/A | -- | 2.04 | 2.04 |
| V-62501 | NGL Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 506.03 | 0.73 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 3.40 | 5.64 |
| V-63801 | HMO Expansion Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.93 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | 0.02 | 0.02 |
| V-64301, V-64302 | Amine Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 112.03 | 0.16 | 2.38 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.75 | 1.25 |
| V-65303 | TEG Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| T-65801 | TEG Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 52.08 | 0.08 | 1.11 | <0.01 | <0.01 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 0.35 | 0.58 |
| V-65101 | TEG Flash Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.04 | <0.01 | -- | -- | -- | -- | Y | Flare | RH4-FL-45100 | 98 | <0.01 | <0.01 |
| V-65503 | BTEX Drum | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Thermal Oxidizer | RH5-TO-55500 | 99 | <0.01 | <0.01 |
| V-60442, V-60443, V-60444 | Mol Sieve Dehydrator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 204.16 | 0.30 | 4.35 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | 1.37 | 2.28 |
| V-60447 | Regen Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 1.04 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | <0.01 | 0.01 |
| V-60402 | Cold Separator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 120.00 | 0.17 | 2.55 | <0.01 | <0.01 | <0.01 | Y | Flare | RH5-FL-55100 | 98 | 0.81 | 1.34 |
| V-60404 | Product Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 5,731.34 | 8.29 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 38.49 | 63.87 |
| V-60481 | Fuel Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| V-60403 | Cold Drain Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 71.97 | 1020.00 | 313.69 | 0.45 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 2.11 | 3.50 |
| V-69060 | Condensate Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 1,401.79 | 2.03 | 29.84 | 0.01 | 0.03 | <0.01 | Y | Flare | RH4-FL-45100 | 98 | 9.41 | 15.62 |
| V-60463 | Refrigerant Accumulator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 579.22 | 0.84 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 3.89 | 6.45 |
| V-60462 | Refrigerant Economizer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 333.63 | 0.48 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 2.24 | 3.72 |
| V-60461 | Refrigerant Suction Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 278.03 | 0.40 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 1.87 | 3.10 |
| V-60464 | Refrigerant Reclaimer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 2516.00 | 1.55 | <0.01 | -- | -- | -- | -- | Y | Flare | RH5-FL-55100 | 98 | 0.01 | 0.02 |

*Activity durations are conservative estimates.

**FET-1**

| FET-1 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| AC-4601 | Reflux Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.05 | 75.39 | 0.01 | <0.01 | <0.01 | <0.01 | 2.66 | <0.01 | Y | Flare | RHA-FL-5100 | 98 | <0.01 | <0.01 |
| AC-4501 | Amine Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| HAL-5530 | Acid Gas Compressor Intercooler / Aftercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.05 | 75.39 | <0.01 | <0.01 | <0.01 | <0.01 | 0.68 | <0.01 | Y | Flare | RHA-FL-5100 | 98 | <0.01 | <0.01 |
| HAL-5540 | Acid Gas Compressor Intercooler / Aftercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.05 | 75.39 | <0.01 | <0.01 | <0.01 | <0.01 | 0.90 | <0.01 | Y | Flare | RHA-FL-5100 | 98 | <0.01 | <0.01 |
| C-5530 | Acid Gas Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.05 | 75.39 | 0.02 | <0.01 | <0.01 | <0.01 | 3.50 | <0.01 | Y | Flare | RHA-FL-5100 | 98 | <0.01 | <0.01 |
| C-5540 | Acid Gas Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.05 | 75.39 | 0.03 | <0.01 | <0.01 | <0.01 | 5.54 | <0.01 | Y | Flare | RHA-FL-5100 | 98 | <0.01 | <0.01 |
| F-4201 | Pre-Carbon Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-4202, F-4204 | Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-4203 | Rich Amine Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-4303 | Lean Amine Solids Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-4805 | Hot Oil Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-5002 | NGL Solids Pre-Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 0.35 | <0.01 | 0.04 | <0.01 | -- | -- | Y | Flare | RHA-FL-5100 | 98 | <0.01 | <0.01 |
| F-5003 | Liquid/Liquid Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 0.90 | <0.01 | 0.09 | <0.01 | -- | -- | Y | Flare | RHA-FL-5100 | 98 | 0.02 | 0.02 |
| F-5101 | Filter Separator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 3.19 | <0.01 | 0.05 | <0.01 | 0.06 | <0.01 | Y | Flare | RHA-FL-5100 | 98 | 0.02 | 0.04 |
| F-5104 | Filter Separator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 2.55 | <0.01 | 0.04 | <0.01 | 0.05 | <0.01 | Y | Flare | RHA-FL-5100 | 98 | 0.02 | 0.03 |
| F-1100A, F-1100B | Condensate Filters | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 0.96 | <0.01 | 0.10 | <0.01 | -- | -- | Y | Flare | RHA-FL-5100 | 98 | 0.02 | 0.02 |
| E-4301, E-4302 | Lean/Rich Amine Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| E-4401 | Amine Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Flare | RHA-FL-5100 | 98 | <0.01 | <0.01 |
| E-5102 | Gas/Gas Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 3.91 | <0.01 | 0.06 | <0.01 | 0.07 | <0.01 | Y | Flare | RHA-FL-5100 | 98 | 0.03 | 0.04 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| Train 6 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| P-60609 | Methanol Injection Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-60654 | Expander Lube Oil Makeup Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-60781A, P-60781B | HMO Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-67010 | Residue Compressor Lube Oil Storage Tank | 0.05 | 0.05 | 0.05 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-67000 | Flash Gas Compressor Lube Oil Storage Tank | 0.05 | 0.05 | 0.05 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-66750 | Stabilizer Area Sump | 13.56 | 13.56 | 13.56 | 0.03 | 1.33 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-66800 | Stabilizer HMO Area Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-66600 | Residue Compressor Area Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-66850 | Flash Gas Compressor Area Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-66700 | Cryo / Refrig Area Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-67700 | Methanol Storage Tank | 5.16 | 5.16 | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-64201, T-64202 | Amine Contactor | 10.89 | 10.89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.91 | <0.01 | 23.54 | 0.03 | 10.89 | 0.02 | 0.02 | <0.01 | <0.01 | <0.01 | 0.23 | <0.01 | 163.02 | 0.24 | 24.46 | 0.04 |
| T-65701 | TEG Contactor | 2.74 | 2.74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.49 | <0.01 | 5.92 | <0.01 | 2.74 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.06 | <0.01 | 41.00 | 0.06 | 6.15 | <0.01 |
| T-62202 | De-ethanizer Tower | 1.69 | 1.69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.92 | <0.01 | 3.65 | <0.01 | 1.69 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 25.26 | 0.04 | 3.79 | <0.01 |
| T-62302 | Stabilizer Tower | 18.74 | 18.74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.70 | <0.01 | 6.75 | <0.01 | 18.74 | 0.03 | -- | -- | -- | -- | -- | -- | 1.18 | <0.01 | 0.02 | <0.01 |
| T-60501 | Demethanizer | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.27 | 0.01 | 28.94 | 0.04 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1,709.60 | 2.47 | 7.67 | 0.01 |
| V-62203 | De-ethanizer Drain Pot | 2.04 | 2.04 | 2.04 | <0.01 | 0.20 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-62303 | Stabilizer Drain Pot | 2.04 | 2.04 | 2.04 | <0.01 | 0.20 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-62501 | NGL Surge Tank | 10.12 | 10.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.92 | <0.01 | 3.65 | <0.01 | 10.12 | 0.01 | -- | -- | -- | -- | -- | -- | 0.64 | <0.01 | 0.01 | <0.01 |
| V-63801 | HMO Expansion Tank | 0.02 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-64301, V-64302 | Amine Scrubber | 2.24 | 2.24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.22 | <0.01 | 4.84 | <0.01 | 2.24 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | 33.55 | 0.05 | 5.03 | <0.01 |
| V-65303 | TEG Surge Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-65801 | TEG Scrubber | 1.04 | 1.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.57 | <0.01 | 2.25 | <0.01 | 1.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 15.60 | 0.02 | 2.34 | <0.01 |
| V-65101 | TEG Flash Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-65503 | BTEX Drum | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-60442, V-60443, V-60444 | Mol Sieve Dehydrator | 4.08 | 4.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.22 | <0.01 | 8.83 | 0.01 | 4.08 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | <0.01 | 61.13 | 0.09 | 9.17 | 0.01 |
| V-60447 | Regen Gas Scrubber | 0.02 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.05 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.31 | <0.01 | 0.05 | <0.01 |
| V-60402 | Cold Separator | 2.40 | 2.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.30 | <0.01 | 5.19 | <0.01 | 2.40 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | 35.93 | 0.05 | 5.39 | <0.01 |
| V-60404 | Product Surge Tank | 114.63 | 114.63 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10.37 | 0.02 | 41.30 | 0.06 | 114.63 | 0.17 | -- | -- | -- | -- | -- | -- | 7.25 | 0.01 | 0.14 | <0.01 |
| V-60481 | Fuel Gas Scrubber | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.83 | <0.01 | 1.31 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-60403 | Cold Drain Tank | 6.27 | 6.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.57 | <0.01 | 2.26 | <0.01 | 6.27 | <0.01 | -- | -- | -- | -- | -- | -- | 0.40 | <0.01 | <0.01 | <0.01 |
| V-69060 | Condensate Surge Tank | 28.04 | 28.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15.22 | 0.02 | 60.61 | 0.09 | 28.04 | 0.04 | 0.06 | <0.01 | <0.01 | <0.01 | 0.60 | <0.01 | 419.75 | 0.61 | 62.98 | 0.09 |
| V-60463 | Refrigerant Accumulator | 11.58 | 11.58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.73 | <0.01 | 6.88 | <0.01 | 11.58 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-60462 | Refrigerant Economizer | 6.67 | 6.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.00 | <0.01 | 3.97 | <0.01 | 6.67 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-60461 | Refrigerant Suction Scrubber | 5.56 | 5.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.83 | <0.01 | 3.30 | <0.01 | 5.56 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-60464 | Refrigerant Reclaimer | 0.03 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| *Activity durations are conservative estimates. | **Train 6 Vented SSM** | **63.62** | **0.10** | **7.07** | **<0.01** | **<0.01** | **<0.01** | **344.71** | **0.50** | **152.60** | **0.22** | | | | | | | | | | | | | | | | | | |
| | **RH4-FL-45100** | | | | | | | | | | | | | **0.38** | **<0.01** | **1.52** | **<0.01** | **2.07** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.01** | **<0.01** | **6.52** | **<0.01** | **0.96** | **<0.01** |
| | **RH5-FL-55100** | | | | | | | | | | | | | **34.21** | **0.05** | **136.24** | **0.20** | **208.74** | **0.30** | **0.05** | **<0.01** | **<0.01** | **<0.01** | **0.16** | **<0.01** | **1,846.71** | **2.67** | **24.92** | **0.04** |
| | **RH5-TO-55500** | | | | | | | | | | | | | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** |

**FET-1**

| | | | | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FET-1 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-4601 | Reflux Condenser | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | 4.91 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | 26.67 | 0.04 | <0.01 | <0.01 |
| AC-4501 | Amine Cooler | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HAL-5530 | Acid Gas Compressor Intercooler / Aftercooler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.25 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | 6.78 | <0.01 | <0.01 | <0.01 |
| HAL-5540 | Acid Gas Compressor Intercooler / Aftercooler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.65 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 8.98 | 0.01 | <0.01 | <0.01 |
| C-5530 | Acid Gas Compressor | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 6.46 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | 35.08 | 0.05 | <0.01 | <0.01 |
| C-5540 | Acid Gas Compressor | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | 10.22 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 | 55.55 | 0.08 | <0.01 | <0.01 |
| F-4201 | Pre-Carbon Solids Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4202, F-4204 | Carbon Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4203 | Rich Amine Solids Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4303 | Lean Amine Solids Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-4805 | Hot Oil Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-5002 | NGL Solids Pre-Filter | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| F-5003 | Liquid/Liquid Coalescer | 0.02 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| F-5101 | Filter Separator | 0.06 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | 0.17 | <0.01 | 0.06 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.80 | <0.01 | 0.18 | <0.01 |
| F-5104 | Filter Separator | 0.05 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | 0.14 | <0.01 | 0.05 | <0.01 | 0.08 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.44 | <0.01 | 0.15 | <0.01 |
| F-1100A, F-1100B | Condensate Filters | 0.02 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| E-4301, E-4302 | Lean/Rich Amine Exchanger | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-4401 | Amine Reboiler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-5102 | Gas/Gas Exchanger | 0.08 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.21 | <0.01 | 0.08 | <0.01 | 0.13 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.20 | <0.01 | 0.23 | <0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| FET-1 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| E-5103 | NGL/Amine Exchanger | Condensate | 3.13 | 6.80 | 6.80 | 1.45 | 0.36 | 6.80 | 1.45 | 0.36 | 6.80 | 1.45 | 0.36 | 6.80 | 1.45 | 0.36 | 93.55 | 1.43 |
| H-4901 | Hot Oil Heater | Hot Oil | 169.50 | 0.01 | 0.01 | 0.12 | 0.06 | 0.01 | 0.12 | 0.06 | 0.01 | 0.12 | 0.06 | 0.01 | 0.12 | 0.06 | 200.00 | 0.24 |
| H-3001 | Fuel Gas In-Line Heater | Residue Gas | 0.64 | - | 37.91 | 1.64 | 0.08 | 62.91 | 2.72 | 0.13 | 112.91 | 4.88 | 0.23 | 112.91 | 4.88 | 0.23 | 17.87 | 0.67 |
| P-4304, P-4305 | Amine Booster Pumps | Amine | 6.66 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-4404, P-4405 | Reflux Pumps | Acid Gas | 1.08 | - | 37.91 | 2.78 | 0.30 | 62.91 | 4.61 | 0.50 | 112.91 | 8.28 | 0.90 | 112.91 | 8.28 | 0.90 | 41.22 | 2.60 |
| P-4802, P-4803, P-4804 | Hot Oil Pumps | Hot Oil | 17.88 | 0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 200.00 | 0.03 |
| P-4701, P-4702 | Amine Solution Pumps | Amine | 8.35 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-5805 | Condensate Drip Pot Pump | Condensate | 1.28 | 6.80 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 93.55 | 0.58 |
| P-5150 | Flare Drain Pump | Condensate | 1.28 | 6.80 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 93.55 | 0.58 |
| P-5525 | Acid Gas K.O. Drum Pump | Sour Water | 1.28 | 0.71 | 0.71 | 0.06 | <0.01 | 0.71 | 0.06 | <0.01 | 0.71 | 0.06 | <0.01 | 0.71 | 0.06 | <0.01 | 40.58 | 0.03 |
| P-5515 | Acid Gas Scrubber Pump | Sour Water | 1.28 | 0.71 | 0.71 | 0.06 | <0.01 | 0.71 | 0.06 | <0.01 | 0.71 | 0.06 | <0.01 | 0.71 | 0.06 | <0.01 | 40.58 | 0.03 |
| PBA-7100 | CO2 Pipeline Supply Pump | Acid Gas | 2.37 | - | 37.91 | 6.11 | 0.66 | 62.91 | 10.14 | 1.10 | 112.91 | 18.19 | 1.98 | 112.91 | 18.19 | 1.98 | 41.22 | 5.72 |
| P-6305 | Amine Process Drain Sump Pump | Amine | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-6405 | AGI Compressor Drain Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-7021 | Amine Make Up Pump | Amine | 0.72 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-7760 | Methanol Injection Pump | Methanol | 0.38 | 4.05 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 32.04 | 0.04 |
| P-7770 | Methanol Injection Pump | Methanol | 0.38 | 4.05 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 32.04 | 0.04 |
| TK-6100, TK-6200 | Sour Slop Tank | Sour Water | 6,584.17 | 0.71 | 0.71 | 316.23 | 33.86 | 0.71 | 316.23 | 33.86 | 0.71 | 316.23 | 33.86 | 0.71 | 316.23 | 33.86 | 40.58 | 135.43 |
| TK-6300 | Amine Process Drain Sump | Amine | 124.41 | 0.01 | 0.01 | 0.08 | 0.02 | 0.01 | 0.08 | 0.02 | 0.01 | 0.08 | 0.02 | 0.01 | 0.08 | 0.02 | 105.14 | 0.09 |
| TK-6400 | AGI Compressor Drain Sump | Lube Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-7020 | Amine Storage Tank | Amine | 1,295.91 | 0.01 | 0.01 | 0.88 | 0.24 | 0.01 | 0.88 | 0.24 | 0.01 | 0.88 | 0.24 | 0.01 | 0.88 | 0.24 | 105.14 | 0.98 |
| TK-7700 | Methanol Storage Tank | Methanol | 221.17 | 4.05 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 32.04 | 20.63 |
| TK-7710 | Methanol Storage Tank | Methanol | 221.17 | 4.05 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 32.04 | 20.63 |
| T-4402, T-4403 | Amine Still/Accumulator | Acid Gas (B&S) | 1,049.68 | - | 37.91 | 2707.78 | 171.95 | 62.91 | 4493.44 | 285.34 | 112.91 | 8064.77 | 512.12 | 112.91 | 8064.77 | 512.12 | 24.07 | 1481.53 |
| T-4102 | Flash Gas Contactor | Amine | 1.32 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| T-5203 | Amine Contactor | Sour Inlet Gas (B&S) | 874.74 | - | 37.91 | 2256.48 | 143.29 | 62.91 | 3744.54 | 237.78 | 112.91 | 6720.64 | 426.77 | 112.91 | 6720.64 | 426.77 | 24.07 | 1234.60 |
| V-4101 | Amine Flash Tank | Amine | 1,382.30 | 0.01 | 0.01 | 0.94 | 0.26 | 0.01 | 0.94 | 0.26 | 0.01 | 0.94 | 0.26 | 0.01 | 0.94 | 0.26 | 105.14 | 1.04 |
| V-4502 | Amine Surge Tank | Amine | 933.05 | 0.01 | 0.01 | 0.63 | 0.18 | 0.01 | 0.63 | 0.18 | 0.01 | 0.63 | 0.18 | 0.01 | 0.63 | 0.18 | 105.14 | 0.70 |
| V-4801 | Hot Oil Expansion Tank | Hot Oil | 423.33 | 0.01 | 0.01 | 0.29 | 0.15 | 0.01 | 0.29 | 0.15 | 0.01 | 0.29 | 0.15 | 0.01 | 0.29 | 0.15 | 200.00 | 0.61 |
| V-5204 | Amine Scrubber | Treated Inlet Gas | 207.35 | - | 37.91 | 534.87 | 32.08 | 62.91 | 887.59 | 53.24 | 112.91 | 1593.04 | 95.56 | 112.91 | 1593.04 | 95.56 | 22.73 | 276.45 |
| V-1000 | Slug Catcher | Sour Inlet Gas (B&S) | 2,964.50 | - | 37.91 | 7647.26 | 485.61 | 62.91 | 12690.30 | 805.85 | 112.91 | 22776.38 | 1446.32 | 112.91 | 22776.38 | 1446.32 | 24.07 | 4184.10 |
| V-1050 | Inlet Gas Scrubber | Sour Inlet Gas (B&S) | 174.95 | - | 37.91 | 451.30 | 28.66 | 62.91 | 748.91 | 47.56 | 112.91 | 1344.13 | 85.35 | 112.91 | 1344.13 | 85.35 | 24.07 | 246.92 |
| V-2000 | Water Flash Tank | Sour Inlet Gas (B&S) | 431.97 | - | 37.91 | 1114.31 | 70.76 | 62.91 | 1849.15 | 117.42 | 112.91 | 3318.84 | 210.75 | 112.91 | 3318.84 | 210.75 | 24.07 | 609.68 |
| V-5800 | Condensate Drip Pot | Sour Inlet Gas (B&S) | 77.75 | - | 37.91 | 200.58 | 12.74 | 62.91 | 332.85 | 21.14 | 112.91 | 597.39 | 37.93 | 112.91 | 597.39 | 37.93 | 24.07 | 109.74 |
| V-3000 | Fuel Gas Scrubber | Residue Gas | 62.20 | - | 37.91 | 160.46 | 7.57 | 62.91 | 266.28 | 12.56 | 112.91 | 477.91 | 22.53 | 112.91 | 477.91 | 22.53 | 17.87 | 65.19 |
| V-5510 | Acid Gas Scrubber | Acid Gas (B&S) | 138.23 | - | 37.91 | 356.58 | 22.64 | 62.91 | 591.73 | 37.58 | 112.91 | 1062.03 | 67.44 | 112.91 | 1062.03 | 67.44 | 24.07 | 195.10 |

*Activity durations are conservative estimates.

**FET-2**

| FET-2 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| AC-22301 | Product Cooler | Condensate | 3.11 | 6.80 | 6.80 | 1.44 | 0.35 | 6.80 | 1.44 | 0.35 | 6.80 | 1.44 | 0.35 | 6.80 | 1.44 | 0.35 | 93.55 | 1.42 |
| HAL-25530, HAL-25540, HAL-25550 | Acid Gas Compressor Intercooler / Aftercooler | Acid Gas (B&S) | 340.92 | - | 30.00 | 695.95 | 44.19 | 30.00 | 695.95 | 44.19 | 30.00 | 695.95 | 44.19 | 30.00 | 695.95 | 44.19 | 24.07 | 176.77 |
| HAL-29300, HAL-29400, HAL-29500 | Flash Gas Compressor Intercooler / Aftercooler | Sour Inlet Gas (B&S) | 70.07 | - | 37.91 | 180.76 | 11.48 | 62.91 | 299.97 | 19.05 | 112.91 | 538.38 | 34.19 | 112.91 | 538.38 | 34.19 | 24.07 | 98.90 |
| AC-24300, AC-24302 | Treated Gas Cooler | Treated Inlet Gas | 42.43 | - | 37.91 | 109.46 | 6.57 | 62.91 | 181.64 | 10.90 | 112.91 | 326.01 | 19.56 | 112.91 | 326.01 | 19.56 | 22.73 | 56.57 |
| AC-23601 | Reflux Condenser | Acid Gas (B&S) | 218.07 | - | 37.91 | 562.53 | 35.72 | 62.91 | 933.50 | 59.28 | 112.91 | 1675.43 | 106.39 | 112.91 | 1675.43 | 106.39 | 24.07 | 307.78 |
| AC-23501, AC-23502 | Amine Cooler | Amine | 316.36 | 0.01 | 0.01 | 0.22 | 0.06 | 0.01 | 0.22 | 0.06 | 0.01 | 0.22 | 0.06 | 0.01 | 0.22 | 0.06 | 105.14 | 0.24 |
| C-25530, C-25540, C-25550 | Acid Gas Compressor | Acid Gas (B&S) | 945.67 | - | 37.91 | 2439.46 | 154.91 | 62.91 | 4048.19 | 257.06 | 112.91 | 7265.63 | 461.37 | 112.91 | 7265.63 | 461.37 | 24.07 | 1334.72 |
| C-21410, C-21420, C-21430, C-21440 | Closed Drain VRU Compressor | Sour Inlet Gas (B&S) | 94.86 | - | 37.91 | 244.71 | 15.54 | 62.91 | 406.09 | 25.79 | 112.91 | 728.84 | 46.28 | 112.91 | 728.84 | 46.28 | 24.07 | 133.89 |
| C-29300, C-29400, C-29500 | Flash Gas Compressor | Sour Inlet Gas (B&S) | 495.91 | - | 37.91 | 1279.26 | 81.23 | 62.91 | 2122.88 | 134.80 | 112.91 | 3810.11 | 241.95 | 112.91 | 3810.11 | 241.95 | 24.07 | 699.93 |
| F-21001, F-21002 | Condensate Filters | Condensate | 56.78 | 6.80 | 6.80 | 26.27 | 6.48 | 6.80 | 26.27 | 6.48 | 6.80 | 26.27 | 6.48 | 6.80 | 26.27 | 6.48 | 93.55 | 25.94 |
| F-22101, F-22102 | Condensate Feed Filters | Condensate | 5.10 | 6.80 | 6.80 | 2.36 | 0.58 | 6.80 | 2.36 | 0.58 | 6.80 | 2.36 | 0.58 | 6.80 | 2.36 | 0.58 | 93.55 | 2.33 |
| F-22103 | Liquid/Liquid Coalescing Filter | Condensate | 12.10 | 6.80 | 6.80 | 5.60 | 1.38 | 6.80 | 5.60 | 1.38 | 6.80 | 5.60 | 1.38 | 6.80 | 5.60 | 1.38 | 93.55 | 5.53 |
| F-21500 | Fuel Gas Filter Coalescer | Residue Gas | 2.94 | - | 37.91 | 7.58 | 0.36 | 62.91 | 12.58 | 0.59 | 112.91 | 22.57 | 1.06 | 112.91 | 22.57 | 1.06 | 17.87 | 3.08 |
| F-23805 | HMO Filter | Hot Oil | 23.04 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 200.00 | 0.03 |
| F-21225 | Inlet Filter Coalescer | Sour Inlet Gas (B&S) | 121.49 | - | 37.91 | 313.40 | 19.90 | 62.91 | 520.07 | 33.03 | 112.91 | 933.42 | 59.27 | 112.91 | 933.42 | 59.27 | 24.07 | 171.47 |
| F-23200 | Rich Amine Pre-Carbon Filter | Amine | 27.36 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 105.14 | 0.02 |
| F-23201, F-23202 | Rich Amine Carbon Filter | Amine | 1,248.39 | 0.01 | 0.01 | 0.85 | 0.24 | 0.01 | 0.85 | 0.24 | 0.01 | 0.85 | 0.24 | 0.01 | 0.85 | 0.24 | 105.14 | 0.94 |
| F-23203, F-23204 | Rich Amine Post-Carbon Filter | Amine | 54.72 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.04 | 0.01 | 105.14 | 0.04 |
| F-23304 | Lean Amine Filter | Amine | 27.36 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 0.01 | 0.02 | <0.01 | 105.14 | 0.02 |
| E-21100 | Condensate Pre-Heat Exchanger | Condensate | 6.21 | 6.80 | 6.80 | 2.87 | 0.71 | 6.80 | 2.87 | 0.71 | 6.80 | 2.87 | 0.71 | 6.80 | 2.87 | 0.71 | 93.55 | 2.84 |

## Full Startup SSM Emissions
**Targa Northern Delaware, LLC**

| FET-1 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| E-5103 | NGL/Amine Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 0.34 | <0.01 | 0.03 | <0.01 | -- | -- | Y | Flare | RHA-FL-5100 | 98 | <0.01 | <0.01 |
| H-4901 | Hot Oil Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.06 | <0.01 | -- | -- | -- | -- | Y | Flare | RHA-FL-5100 | 98 | <0.01 | <0.01 |
| H-3001 | Fuel Gas In-Line Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-4304, P-4305 | Amine Booster Pumps | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-4404, P-4405 | Reflux Pumps | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.05 | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-4802, P-4803, P-4804 | Hot Oil Pumps | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-4701, P-4702 | Amine Solution Pumps | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-5805 | Condensate Drip Pot Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.14 | 0.14 |
| P-5150 | Flare Drain Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.14 | 0.14 |
| P-5525 | Acid Gas K.O. Drum Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-5515 | Acid Gas Scrubber Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| PBA-7100 | CO2 Pipeline Supply Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.05 | 75.39 | <0.01 | <0.01 | <0.01 | <0.01 | 0.17 | <0.01 | Y | Flare | RHA-FL-5100 | 98 | <0.01 | <0.01 |
| P-6305 | Amine Process Drain Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-6405 | AGI Compressor Drain Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-7021 | Amine Make Up Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-7760 | Methanol Injection Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-7770 | Methanol Injection Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TK-6100, TK-6200 | Sour Slop Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1020.00 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | Y | Flare | EP-9 | 98 | <0.01 | <0.01 |
| TK-6300 | Amine Process Drain Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TK-6400 | AGI Compressor Drain Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-7020 | Amine Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | 0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.01 | 0.01 |
| TK-7700 | Methanol Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | N | N/A | N/A | -- | 5.16 | 5.16 |
| TK-7710 | Methanol Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | N | N/A | N/A | -- | 5.16 | 5.16 |
| T-4402, T-4403 | Amine Still/Accumulator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1020.00 | 96.76 | 0.14 | -- | -- | 2.18 | <0.01 | Y | Flare | RHA-FL-5100 | 98 | 0.65 | 1.08 |
| T-4102 | Flash Gas Contactor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Flare | RHA-FL-5100 | 98 | <0.01 | <0.01 |
| T-5203 | Amine Contactor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 80.63 | 0.12 | 1.23 | <0.01 | 1.45 | <0.01 | Y | Flare | RHA-FL-5100 | 98 | 0.54 | 0.90 |
| V-4101 | Amine Flash Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | 0.01 | <0.01 | -- | -- | -- | -- | Y | Flare | RHA-FL-5100 | 98 | <0.01 | <0.01 |
| V-4502 | Amine Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Flare | RHA-FL-5100 | 98 | <0.01 | <0.01 |
| V-4801 | Hot Oil Expansion Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.15 | <0.01 | -- | -- | -- | -- | Y | Flare | RHA-FL-5100 | 98 | <0.01 | <0.01 |
| V-5204 | Amine Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 22.22 | 0.03 | 0.47 | <0.01 | <0.01 | <0.01 | Y | Flare | RHA-FL-5100 | 98 | 0.15 | 0.25 |
| V-1000 | Slug Catcher | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 273.27 | 0.40 | 4.17 | <0.01 | 4.93 | <0.01 | Y | Flare | Flare | 98 | 1.84 | 3.05 |
| V-1050 | Inlet Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 16.13 | 0.02 | 0.25 | <0.01 | 0.29 | <0.01 | Y | Flare | RHA-FL-5100 | 98 | 0.11 | 0.18 |
| V-2000 | Water Flash Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 39.82 | 0.06 | 0.61 | <0.01 | 0.72 | <0.01 | Y | Flare | RHA-FL-5100 | 98 | 0.27 | 0.44 |
| V-5800 | Condensate Drip Pot | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 7.17 | 0.01 | 0.11 | <0.01 | 0.13 | <0.01 | Y | Flare | EP-9 | 98 | 0.05 | 0.08 |
| V-3000 | Fuel Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| V-5510 | Acid Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1020.00 | 12.74 | 0.02 | -- | -- | 0.29 | <0.01 | Y | Flare | RHA-FL-5100 | 98 | 0.09 | 0.14 |

*Activity durations are conservative estimates.

**FET-2**

| FET-2 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| AC-22301 | Product Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 0.34 | <0.01 | 0.03 | <0.01 | -- | -- | Y | Flare | RA2-FL-25100 | 98 | <0.01 | <0.01 |
| HAL-25530, HAL-25540, HAL-25550 | Acid Gas Compressor Intercooler / Aftercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1020.00 | 8.35 | 0.02 | -- | -- | 0.19 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.17 | 0.17 |
| HAL-29300, HAL-29400, HAL-29500 | Flash Gas Compressor Intercooler / Aftercooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 6.46 | <0.01 | 0.10 | <0.01 | 0.12 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.04 | 0.07 |
| AC-24300, AC-24302 | Treated Gas Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 4.55 | <0.01 | 0.10 | <0.01 | <0.01 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.03 | 0.05 |
| AC-23601 | Reflux Condenser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1020.00 | 20.10 | 0.03 | -- | -- | 0.45 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.13 | 0.22 |
| AC-23501, AC-23502 | Amine Cooler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| C-25530, C-25540, C-25550 | Acid Gas Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1020.00 | 87.17 | 0.13 | -- | -- | 1.97 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.59 | 0.97 |
| C-21410, C-21420, C-21430, C-21440 | Closed Drain VRU Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 8.74 | 0.01 | 0.13 | <0.01 | 0.16 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.06 | 0.10 |
| C-29300, C-29400, C-29500 | Flash Gas Compressor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 45.71 | 0.07 | 0.70 | <0.01 | 0.82 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.31 | 0.51 |
| F-21001, F-21002 | Condensate Filters | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 6.19 | 0.01 | 0.63 | <0.01 | -- | -- | Y | Flare | RA2-FL-25100 | 98 | 0.12 | 0.12 |
| F-22101, F-22102 | Condensate Feed Filters | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 0.56 | <0.01 | 0.06 | <0.01 | -- | -- | Y | Flare | RA2-FL-25100 | 98 | 0.01 | 0.01 |
| F-22103 | Liquid/Liquid Coalescing Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 1.32 | <0.01 | 0.14 | <0.01 | -- | -- | Y | Flare | RA2-FL-25100 | 98 | 0.03 | 0.03 |
| F-21500 | Fuel Gas Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-23805 | HMO Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-21225 | Inlet Filter Coalescer | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 11.20 | 0.02 | 0.17 | <0.01 | 0.20 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.08 | 0.12 |
| F-23200 | Rich Amine Pre-Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-23201, F-23202 | Rich Amine Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | 0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.01 | 0.01 |
| F-23203, F-23204 | Rich Amine Post-Carbon Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| F-23304 | Lean Amine Filter | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| E-21100 | Condensate Pre-Heat Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 0.68 | <0.01 | 0.07 | <0.01 | -- | -- | Y | Flare | RA2-FL-25100 | 98 | 0.01 | 0.01 |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| FET-1 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| E-5103 | NGL/Amine Exchanger | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| H-4901 | Hot Oil Heater | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-3001 | Fuel Gas In-Line Heater | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.18 | <0.01 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-4304, P-4305 | Amine Booster Pumps | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-4404, P-4405 | Reflux Pumps | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.79 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-4802, P-4803, P-4804 | Hot Oil Pumps | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-4701, P-4702 | Amine Solution Pumps | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5805 | Condensate Drip Pot Pump | 0.14 | 0.14 | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5150 | Flare Drain Pump | 0.14 | 0.14 | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5525 | Acid Gas K.O. Drum Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-5515 | Acid Gas Scrubber Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| PBA-7100 | CO2 Pipeline Supply Pump | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.32 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.75 | <0.01 | <0.01 | <0.01 |
| P-6305 | Amine Process Drain Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-6405 | AGI Compressor Drain Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7021 | Amine Make Up Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7760 | Methanol Injection Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-7770 | Methanol Injection Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6100, TK-6200 | Sour Slop Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | 0.18 | <0.01 | <0.01 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | <0.01 | <0.01 |
| TK-6300 | Amine Process Drain Sump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-6400 | AGI Compressor Drain Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7020 | Amine Storage Tank | 0.01 | 0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7700 | Methanol Storage Tank | 5.16 | 5.16 | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-7710 | Methanol Storage Tank | 5.16 | 5.16 | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-4402, T-4403 | Amine Still/Accumulator | 1.94 | 1.94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.14 | <0.01 | 4.52 | <0.01 | 1.94 | <0.01 | 4.03 | <0.01 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- |
| T-4102 | Flash Gas Contactor | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-5203 | Amine Contactor | 1.61 | 1.61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.09 | <0.01 | 4.32 | <0.01 | 1.61 | <0.01 | 2.68 | <0.01 | 0.03 | <0.01 | 0.02 | <0.01 | 45.50 | 0.07 | 4.65 | <0.01 |
| V-4101 | Amine Flash Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-4502 | Amine Surge Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-4801 | Hot Oil Expansion Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-5204 | Amine Scrubber | 0.44 | 0.44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.24 | <0.01 | 0.96 | <0.01 | 0.44 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 6.65 | <0.01 | 1.00 | <0.01 |
| V-1000 | Slug Catcher | 5.47 | 5.47 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.68 | <0.01 | 14.65 | 0.02 | 5.47 | <0.01 | 9.09 | <0.01 | 0.10 | <0.01 | 0.08 | <0.01 | 154.20 | 0.22 | 15.76 | 0.02 |
| V-1050 | Inlet Gas Scrubber | 0.32 | 0.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.22 | <0.01 | 0.86 | <0.01 | 0.32 | <0.01 | 0.54 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 9.10 | 0.01 | 0.93 | <0.01 |
| V-2000 | Water Flash Tank | 0.80 | 0.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.54 | <0.01 | 2.13 | <0.01 | 0.80 | <0.01 | 1.33 | <0.01 | 0.01 | <0.01 | 0.01 | <0.01 | 22.47 | 0.03 | 2.30 | <0.01 |
| V-5800 | Condensate Drip Pot | 0.14 | 0.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.10 | <0.01 | 0.38 | <0.01 | 0.14 | <0.01 | 0.24 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.04 | <0.01 | 0.41 | <0.01 |
| V-3000 | Fuel Gas Scrubber | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 17.48 | 0.03 | 3.92 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-5510 | Acid Gas Scrubber | 0.25 | 0.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.15 | <0.01 | 0.60 | <0.01 | 0.25 | <0.01 | 0.53 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- |
| | **FET-1 Vented SSM** | **10.69** | **0.02** | **10.36** | **<0.01** | **<0.01** | **<0.01** | **18.45** | **0.03** | **3.96** | **<0.01** | | | | | | | | | | | | | | | | | | |
| | **RHA-FL-5100** | | | | | | | | | | | | | **3.51** | **<0.01** | **13.99** | **0.02** | **5.62** | **<0.01** | **34.23** | **0.02** | **0.37** | **<0.01** | **0.06** | **<0.01** | **223.97** | **0.32** | **9.43** | **0.01** |
| | **RHA-FL-5850** | | | | | | | | | | | | | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** |

*Activity durations are conservative estimates.

**FET-2**

| | | | | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FET-2 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| AC-22301 | Product Cooler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| HAL-25530, HAL-25540, HAL-25550 | Acid Gas Compressor Intercooler / Aftercooler | 0.17 | 0.17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.10 | <0.01 | 0.39 | <0.01 | 0.17 | <0.01 | 0.35 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- |
| HAL-29300, HAL-29400, HAL-29500 | Flash Gas Compressor Intercooler / Aftercooler | 0.13 | 0.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.09 | <0.01 | 0.35 | <0.01 | 0.13 | <0.01 | 0.21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.64 | <0.01 | 0.37 | <0.01 |
| AC-24300, AC-24302 | Treated Gas Cooler | 0.09 | 0.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.05 | <0.01 | 0.20 | <0.01 | 0.09 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.36 | <0.01 | 0.20 | <0.01 |
| AC-23601 | Reflux Condenser | 0.40 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.24 | <0.01 | 0.94 | <0.01 | 0.40 | <0.01 | 0.84 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- |
| AC-23501, AC-23502 | Amine Cooler | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| C-25530, C-25540, C-25550 | Acid Gas Compressor | 1.74 | 1.74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.02 | <0.01 | 4.07 | <0.01 | 1.74 | <0.01 | 3.63 | <0.01 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- |
| C-21410, C-21420, C-21430, C-21440 | Closed Drain VRU Compressor | 0.17 | 0.17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.12 | <0.01 | 0.47 | <0.01 | 0.17 | <0.01 | 0.29 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.93 | <0.01 | 0.50 | <0.01 |
| C-29300, C-29400, C-29500 | Flash Gas Compressor | 0.91 | 0.91 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.62 | <0.01 | 2.45 | <0.01 | 0.91 | <0.01 | 1.52 | <0.01 | 0.02 | <0.01 | 0.01 | <0.01 | 25.80 | 0.04 | 2.64 | <0.01 |
| F-21001, F-21002 | Condensate Filters | 0.12 | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.01 | <0.01 | 0.05 | <0.01 | 0.12 | <0.01 | -- | -- | -- | -- | 0.01 | <0.01 | -- | -- | -- | -- |
| F-22101, F-22102 | Condensate Feed Filters | 0.01 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| F-22103 | Liquid/Liquid Coalescing Filter | 0.03 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.01 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| F-21500 | Fuel Gas Filter Coalescer | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.83 | <0.01 | 0.19 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23805 | HMO Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-21225 | Inlet Filter Coalescer | 0.22 | 0.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.15 | <0.01 | 0.60 | <0.01 | 0.22 | <0.01 | 0.37 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 6.32 | <0.01 | 0.65 | <0.01 |
| F-23200 | Rich Amine Pre-Carbon Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23201, F-23202 | Rich Amine Carbon Filter | 0.01 | 0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23203, F-23204 | Rich Amine Post-Carbon Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| F-23304 | Lean Amine Filter | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-21100 | Condensate Pre-Heat Exchanger | 0.01 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| FET-2 Equipment ID | Equipment Description | Service | Equipment Volume - All Units | Mixture Vapor Pressure | 1st Step Pressurization | 1st Step Startup Volume | 1st Step Emissions | 2nd Step Pressurization | 2nd Step Startup Volume | 2nd Step Emissions | 3rd Step Pressurization | 3rd Step Startup Volume | 3rd Step Emissions | 4th Step Pressurization | 4th Step Startup Volume | 4th Step Emissions | Mixture MW | Total Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | psia | scf | lb/activity | lb/lb-mol | lb/activity |
| E-22201 | Feed/Bottoms Exchanger | Condensate | 26.33 | 6.80 | 6.80 | 12.18 | 3.01 | 6.80 | 12.18 | 3.01 | 6.80 | 12.18 | 3.01 | 6.80 | 12.18 | 3.01 | 93.55 | 12.03 |
| E-22204 | Stabilizer Reboiler | Condensate | 153.89 | 6.80 | 6.80 | 71.21 | 17.58 | 6.80 | 71.21 | 17.58 | 6.80 | 71.21 | 17.58 | 6.80 | 71.21 | 17.58 | 93.55 | 70.30 |
| E-29200 | Flash Gas Suction Pre-Heat Exchanger | Sour Inlet Gas (B&S) | 7.37 | - | 37.91 | 19.02 | 1.21 | 62.91 | 31.56 | 2.00 | 112.91 | 56.65 | 3.60 | 112.91 | 56.65 | 3.60 | 24.07 | 10.41 |
| E-24101, E-24102 | Gas/Gas Exchanger | Sour Inlet Gas (B&S) | 376.29 | - | 37.91 | 970.69 | 61.64 | 62.91 | 1610.82 | 102.29 | 112.91 | 2891.08 | 183.59 | 112.91 | 2891.08 | 183.59 | 24.07 | 531.10 |
| E-23301 | Lean/Rich Amine Exchanger | Amine | 209.07 | 0.01 | 0.01 | 0.14 | 0.04 | 0.01 | 0.14 | 0.04 | 0.01 | 0.14 | 0.04 | 0.01 | 0.14 | 0.04 | 105.14 | 0.16 |
| E-23401 | Amine Reboiler | Amine | 861.83 | 0.01 | 0.01 | 0.59 | 0.16 | 0.01 | 0.59 | 0.16 | 0.01 | 0.59 | 0.16 | 0.01 | 0.59 | 0.16 | 105.14 | 0.65 |
| H-21505 | Fuel Gas In-Line Heater | Residue Gas | 2.90 | - | 37.91 | 7.48 | 0.35 | 62.91 | 12.42 | 0.59 | 112.91 | 22.29 | 1.05 | 112.91 | 22.29 | 1.05 | 17.87 | 3.04 |
| H-20001 | HMO Heater | Hot Oil | 554.96 | 0.01 | 0.01 | 0.38 | 0.20 | 0.01 | 0.38 | 0.20 | 0.01 | 0.38 | 0.20 | 0.01 | 0.38 | 0.20 | 200.00 | 0.80 |
| P-25515 | Acid Gas Scrubber Pump | Sour Water | 1.28 | 0.71 | 0.71 | 0.06 | <0.01 | 0.71 | 0.06 | <0.01 | 0.71 | 0.06 | <0.01 | 0.71 | 0.06 | <0.01 | 40.58 | 0.03 |
| P-21404, P-21405 | Off-Spec Condensate Re-run Pumps | Condensate | 3.13 | 6.80 | 6.80 | 1.45 | 0.36 | 6.80 | 1.45 | 0.36 | 6.80 | 1.45 | 0.36 | 6.80 | 1.45 | 0.36 | 93.55 | 1.43 |
| P-29305, P-29405, P-29505 | Flash Gas Compressor PSV Discharge Pump | Sour Inlet Gas (B&S) | 3.84 | - | 37.91 | 9.90 | 0.63 | 62.91 | 16.43 | 1.04 | 112.91 | 29.49 | 1.87 | 112.91 | 29.49 | 1.87 | 24.07 | 5.42 |
| P-25535, P-25545, P-25555 | Acid Gas Compressor PSV Discharge Pump | Sour Water | 3.84 | 0.71 | 0.71 | 0.18 | 0.02 | 0.71 | 0.18 | 0.02 | 0.71 | 0.18 | 0.02 | 0.71 | 0.18 | 0.02 | 40.58 | 0.08 |
| P-25150 | Flare KO Drum Pump | Condensate | 1.28 | 6.80 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 93.55 | 0.58 |
| P-25525 | Acid Gas KO Drum Pump | Sour Water | 1.28 | 0.71 | 0.71 | 0.06 | <0.01 | 0.71 | 0.06 | <0.01 | 0.71 | 0.06 | <0.01 | 0.71 | 0.06 | <0.01 | 40.58 | 0.03 |
| P-25805 | Sour Slop Tank Flare Knockout Drum Pump | Condensate | 1.28 | 6.80 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 6.80 | 0.59 | 0.15 | 93.55 | 0.58 |
| P-27021 | Amine Makeup Pump | Amine | 0.72 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-27760 | Methanol Injection Pump | Methanol | 0.38 | 4.05 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 32.04 | 0.04 |
| P-27770 | AGI Compressor Methanol Injection Pump | Methanol | 0.38 | 4.05 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 4.05 | 0.11 | <0.01 | 32.04 | 0.04 |
| P-27005 | PAG ISO 100 Lube Oil Makeup Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-27015 | PAG ISO 150 Lube Oil Makeup Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-26605 | AGI Compressor Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-26855 | Flash Gas Compressor Sump Pump | Lube Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-23802, P-23803, P-23804 | HMO Pump | Hot Oil | 17.88 | 0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 200.00 | 0.03 |
| P-26505 | HMO Area Sump Pump | Hot Oil | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 200.00 | <0.01 |
| P-23302, P-23303 | Amine Booster Pump | Amine | 6.66 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-23605 | Anti-Foam Injection Pump | Amine | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-23603, P-23604 | Reflux Pump | Amine | 1.08 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-23702, P-23703 | Amine Solution Pump | Amine | 5.93 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-26355 | Amine Area Sump Pump | Amine | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| P-26305 | Amine Process Drain Tank Pump | Amine | 1.28 | 0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 105.14 | <0.01 |
| TK-27020 | Amine Storage Tank | Amine | 4,981.47 | 0.01 | 0.01 | 3.39 | 0.94 | 0.01 | 3.39 | 0.94 | 0.01 | 3.39 | 0.94 | 0.01 | 3.39 | 0.94 | 105.14 | 3.76 |
| TK-27700 | Methanol Storage Tank | Methanol | 221.17 | 4.05 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 32.04 | 20.63 |
| TK-27710 | AGI Compressor Methanol Storage Tank | Methanol | 221.17 | 4.05 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 4.05 | 61.02 | 5.16 | 32.04 | 20.63 |
| TK-27000 | PAG ISO 100 Lube Oil Tank | Lube Oil | 152.05 | 0.01 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 200.00 | 0.22 |
| TK-27010 | PAG ISO 150 Lube Oil Tank | Lube Oil | 152.05 | 0.01 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 0.01 | 0.10 | 0.05 | 200.00 | 0.22 |
| TK-26100, TK-26200 | Sour Slop Tank | Sour Water | 6,584.17 | 0.71 | 0.71 | 316.23 | 33.86 | 0.71 | 316.23 | 33.86 | 0.71 | 316.23 | 33.86 | 0.71 | 316.23 | 33.86 | 40.58 | 135.43 |
| TK-26600 | AGI Compressor Area Sump | Lube Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-26850 | Flash Gas Compressor Area Sump | Lube Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-26500 | HMO Area Sump | Hot Oil | 124.41 | 0.01 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 0.01 | 0.08 | 0.04 | 200.00 | 0.18 |
| TK-26350 | Amine Area Sump | Amine | 124.41 | 0.01 | 0.01 | 0.08 | 0.02 | 0.01 | 0.08 | 0.02 | 0.01 | 0.08 | 0.02 | 0.01 | 0.08 | 0.02 | 105.14 | 0.09 |
| TK-26300 | Amine Process Drain Tank | Amine | 623.76 | 0.01 | 0.01 | 0.42 | 0.12 | 0.01 | 0.42 | 0.12 | 0.01 | 0.42 | 0.12 | 0.01 | 0.42 | 0.12 | 105.14 | 0.47 |
| T-22202 | Condensate Stabilizer Tower | Condensate | 2.19 | 6.80 | 6.80 | 1.01 | 0.25 | 6.80 | 1.01 | 0.25 | 6.80 | 1.01 | 0.25 | 6.80 | 1.01 | 0.25 | 93.55 | 1.00 |
| T-24201, T-24202 | Amine Gas Contactor | Sour Inlet Gas (B&S) | 4,645.39 | - | 37.91 | 11983.32 | 760.95 | 62.91 | 19885.80 | 1262.77 | 112.91 | 35690.77 | 2266.40 | 112.91 | 35690.77 | 2266.40 | 24.07 | 6556.51 |
| T-23402 | Amine Still | Acid Gas (B&S) | 3,593.98 | - | 37.91 | 9271.08 | 588.72 | 62.91 | 15384.96 | 976.96 | 112.91 | 27612.72 | 1753.43 | 112.91 | 27612.72 | 1753.43 | 24.07 | 5072.55 |
| V-21000 | Slug Catcher | Sour Inlet Gas (B&S) | 11,903.79 | - | 37.91 | 30707.18 | 1949.93 | 62.91 | 50957.23 | 3235.83 | 112.91 | 91457.33 | 5807.63 | 112.91 | 91457.33 | 5807.63 | 24.07 | 16801.02 |
| V-29060 | Condensate Surge Tank | Sour Inlet Gas (B&S) | 13,600.11 | - | 37.91 | 35083.03 | 2227.80 | 62.91 | 58218.77 | 3696.95 | 112.91 | 104490.24 | 6635.23 | 112.91 | 104490.24 | 6635.23 | 24.07 | 19195.20 |
| V-25510 | Acid Gas Scrubber | Acid Gas (B&S) | 761.99 | - | 37.91 | 1965.65 | 124.82 | 62.91 | 3261.91 | 207.13 | 112.91 | 5854.43 | 371.76 | 112.91 | 5854.43 | 371.76 | 24.07 | 1075.48 |
| V-21403 | Off-Spec Closed Drain Tank | Sour Inlet Gas (B&S) | 632.40 | - | 37.91 | 1631.35 | 103.59 | 62.91 | 2707.16 | 171.91 | 112.91 | 4858.78 | 308.54 | 112.91 | 4858.78 | 308.54 | 24.07 | 892.57 |
| V-25800 | Sour Slop Tank Flare Knockout Drum | Sour Inlet Gas (B&S) | 17.28 | - | 37.91 | 44.57 | 2.83 | 62.91 | 73.97 | 4.70 | 112.91 | 132.75 | 8.43 | 112.91 | 132.75 | 8.43 | 24.07 | 24.39 |
| V-23801 | HMO Expansion Tank | Hot Oil | 1,105.84 | 0.01 | 0.01 | 0.75 | 0.40 | 0.01 | 0.75 | 0.40 | 0.01 | 0.75 | 0.40 | 0.01 | 0.75 | 0.40 | 200.00 | 1.59 |
| V-21050 | Inlet Gas Vortex Scrubber | Sour Inlet Gas (B&S) | 58.64 | - | 37.91 | 151.27 | 9.61 | 62.91 | 251.02 | 15.94 | 112.91 | 450.53 | 28.61 | 112.91 | 450.53 | 28.61 | 24.07 | 82.76 |
| V-24301, V-24303 | Amine Scrubber | Treated Inlet Gas | 989.21 | - | 37.91 | 2551.78 | 153.07 | 62.91 | 4234.56 | 254.01 | 112.91 | 7600.14 | 455.90 | 112.91 | 7600.14 | 455.90 | 22.73 | 1318.87 |
| V-23101 | Amine Flash Tank | Amine | 3,455.75 | 0.01 | 0.01 | 2.35 | 0.65 | 0.01 | 2.35 | 0.65 | 0.01 | 2.35 | 0.65 | 0.01 | 2.35 | 0.65 | 105.14 | 2.61 |
| V-23403 | Reflux Accumulator | Acid Gas (B&S) | 423.33 | - | 37.91 | 1092.03 | 69.34 | 62.91 | 1812.17 | 115.07 | 112.91 | 3252.46 | 206.53 | 112.91 | 3252.46 | 206.53 | 24.07 | 597.49 |
| V-23701 | Amine Surge Tank | Amine | 3,455.75 | 0.01 | 0.01 | 2.35 | 0.65 | 0.01 | 2.35 | 0.65 | 0.01 | 2.35 | 0.65 | 0.01 | 2.35 | 0.65 | 105.14 | 2.61 |

*Activity durations are conservative estimates.

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| FET-2 Equipment ID | Equipment Description | Activity Duration | | | | Annual Activities | Mixture VOC wt% | Vapor Heating Value Btu/scf | Uncontrolled VOC Emissions | | Uncontrolled Total HAPs Emissions | | Uncontrolled $H_2S$ Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | STEP 1 Controlled VOC Emissions | STEP 2 Controlled VOC Emissions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st Step hours | 2nd Step hours | 3rd Step hours | 4th Step hours | activities/ yr | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | | | | | lb/hr | lb/hr |
| E-22201 | Feed/Bottoms Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 2.87 | <0.01 | 0.29 | <0.01 | -- | -- | Y | Flare | RA2-FL-25100 | 98 | 0.06 | 0.06 |
| E-22204 | Stabilizer Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 16.78 | 0.03 | 1.72 | <0.01 | -- | -- | Y | Flare | RA2-FL-25100 | 98 | 0.34 | 0.34 |
| E-29200 | Flash Gas Suction Pre-Heat Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 0.68 | <0.01 | 0.01 | <0.01 | 0.01 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | <0.01 | <0.01 |
| E-24101, E-24102 | Gas/Gas Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 34.69 | 0.05 | 0.53 | <0.01 | 0.63 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.23 | 0.39 |
| E-23301 | Lean/Rich Amine Exchanger | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| E-23401 | Amine Reboiler | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | <0.01 | <0.01 | -- | -- | -- | -- | Y | Flare | RA2-FL-25100 | 98 | <0.01 | <0.01 |
| H-21505 | Fuel Gas In-Line Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| H-20001 | HMO Heater | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.20 | <0.01 | -- | -- | -- | -- | Y | Flare | RA2-FL-25100 | 98 | <0.01 | <0.01 |
| P-25515 | Acid Gas Scrubber Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-21404, P-21405 | Off-Spec Condensate Re-run Pumps | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 0.34 | <0.01 | 0.03 | <0.01 | -- | -- | Y | Flare | RA2-FL-25850 | 98 | <0.01 | <0.01 |
| P-29305, P-29405, P-29505 | Flash Gas Compressor PSV Discharge Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | -- | 0.35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | 0.12 | 0.20 |
| P-25535, P-25545, P-25555 | Acid Gas Compressor PSV Discharge Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-25150 | Flare KO Drum Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.14 | 0.14 |
| P-25525 | Acid Gas KO Drum Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-25805 | Sour Slop Tank Flare Knockout Drum Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | -- | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | 0.14 | 0.14 |
| P-27021 | Amine Makeup Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-27760 | Methanol Injection Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-27770 | AGI Compressor Methanol Injection Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-27005 | PAG ISO 100 Lube Oil Makeup Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-27015 | PAG ISO 150 Lube Oil Makeup Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-26605 | AGI Compressor Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-26855 | Flash Gas Compressor Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-23802, P-23803, P-23804 | HMO Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-26505 | HMO Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-23302, P-23303 | Amine Booster Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-23605 | Anti-Foam Injection Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-23603, P-23604 | Reflux Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-23702, P-23703 | Amine Solution Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-26355 | Amine Area Sump Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| P-26305 | Amine Process Drain Tank Pump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TK-27020 | Amine Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | 0.05 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.05 | 0.05 |
| TK-27700 | Methanol Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | N | N/A | N/A | -- | 5.16 | 5.16 |
| TK-27710 | AGI Compressor Methanol Storage Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | N | N/A | N/A | -- | 5.16 | 5.16 |
| TK-27000 | PAG ISO 100 Lube Oil Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.05 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.05 | 0.05 |
| TK-27010 | PAG ISO 150 Lube Oil Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.05 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.05 | 0.05 |
| TK-26100, TK-26200 | Sour Slop Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | <0.01 | 1020.00 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | Y | Flare | RA2-FL-25850 | 98 | <0.01 | <0.01 |
| TK-26600 | AGI Compressor Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-26850 | Flash Gas Compressor Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-26500 | HMO Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | -- | 0.04 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | 0.04 | 0.04 |
| TK-26350 | Amine Area Sump | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| TK-26300 | Amine Process Drain Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | -- | <0.01 | <0.01 | -- | -- | -- | -- | N | N/A | N/A | -- | <0.01 | <0.01 |
| T-22202 | Condensate Stabilizer Tower | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 95.47 | 3394.62 | 0.24 | <0.01 | 0.02 | <0.01 | -- | -- | Y | Flare | RA2-FL-25100 | 98 | <0.01 | <0.01 |
| T-24201, T-24202 | Amine Gas Contactor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 428.22 | 0.62 | 6.53 | <0.01 | 7.72 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 2.88 | 4.77 |
| T-23402 | Amine Still | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1020.00 | 331.30 | 0.48 | -- | -- | 7.47 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 2.22 | 3.69 |
| V-21000 | Slug Catcher | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 1,097.31 | 1.59 | 16.74 | <0.01 | 19.80 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 7.37 | 12.23 |
| V-29060 | Condensate Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 1,253.68 | 1.81 | 19.13 | <0.01 | 22.62 | 0.01 | Y | Flare | RA2-FL-25100 | 98 | 8.42 | 13.97 |
| V-25510 | Acid Gas Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1020.00 | 70.24 | 0.10 | -- | -- | 1.58 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.47 | 0.78 |
| V-21403 | Off-Spec Closed Drain Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 58.30 | 0.08 | 0.89 | <0.01 | 1.05 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.39 | 0.65 |
| V-25800 | Sour Slop Tank Flare Knockout Drum | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 1.59 | <0.01 | 0.02 | <0.01 | 0.03 | <0.01 | Y | Flare | RA2-FL-25850 | 98 | 0.01 | 0.02 |
| V-23801 | HMO Expansion Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 1020.00 | 0.40 | <0.01 | -- | -- | -- | -- | Y | Flare | RA2-FL-25100 | 98 | <0.01 | <0.01 |
| V-21050 | Inlet Gas Vortex Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1170.00 | 5.41 | <0.01 | 0.08 | <0.01 | 0.10 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.04 | 0.06 |
| V-24301, V-24303 | Amine Scrubber | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 | 1097.43 | 106.01 | 0.15 | 2.26 | <0.01 | <0.01 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.71 | 1.18 |
| V-23101 | Amine Flash Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | 0.03 | <0.01 | -- | -- | -- | -- | Y | Flare | RA2-FL-25100 | 98 | <0.01 | <0.01 |
| V-23403 | Reflux Accumulator | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.89 | 1020.00 | 39.02 | 0.06 | -- | -- | 0.88 | <0.01 | Y | Flare | RA2-FL-25100 | 98 | 0.26 | 0.43 |
| V-23701 | Amine Surge Tank | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 | 1020.00 | 0.03 | <0.01 | -- | -- | -- | -- | Y | Flare | RA2-FL-25100 | 98 | <0.01 | <0.01 |

*Activity durations are conservative estimates.

## Full Startup SSM Emissions

**Targa Northern Delaware, LLC**

| FET-2 Equipment ID | Equipment Description | STEP 3 Controlled VOC Emissions | STEP 4 Controlled VOC Emissions | TOTAL Vented VOC Emissions | | Vented Total HAPs Emissions | | Vented $H_2S$ Emissions | | Vented $CO_2$ Emissions | | Vented $CH_4$ Emissions | | Total Flared $NO_x$ Emissions | | Total Flared CO Emissions | | Flared VOC Emissions | | Total Flared $SO_2$ Emissions | | Total Flared $H_2S$ Emissions | | Total Flared HAPs Emissions | | Total Flared $CO_2$ Emissions | | Total Flared $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | lb/hr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| E-22201 | Feed/Bottoms Exchanger | 0.06 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.02 | <0.01 | 0.06 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| E-22204 | Stabilizer Reboiler | 0.34 | 0.34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.03 | <0.01 | 0.13 | <0.01 | 0.34 | <0.01 | -- | -- | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- |
| E-29200 | Flash Gas Suction Pre-Heat Exchanger | 0.01 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | 0.04 | <0.01 | 0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.38 | <0.01 | 0.04 | <0.01 |
| E-24101, E-24102 | Gas/Gas Exchanger | 0.69 | 0.69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.47 | <0.01 | 1.86 | <0.01 | 0.69 | <0.01 | 1.15 | <0.01 | 0.01 | <0.01 | 0.01 | <0.01 | 19.57 | 0.03 | 2.00 | <0.01 |
| E-23301 | Lean/Rich Amine Exchanger | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| E-23401 | Amine Reboiler | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-21505 | Fuel Gas In-Line Heater | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.82 | <0.01 | 0.18 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| H-20001 | HMO Heater | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-25515 | Acid Gas Scrubber Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-21404, P-21405 | Off-Spec Condensate Re-run Pumps | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| P-29305, P-29405, P-29505 | Flash Gas Compressor PSV Discharge Pump | 0.35 | 0.35 | 0.35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.20 | <0.01 | 1.02 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-25535, P-25545, P-25555 | Acid Gas Compressor PSV Discharge Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-25150 | Flare KO Drum Pump | 0.14 | 0.14 | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-25525 | Acid Gas KO Drum Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-25805 | Sour Slop Tank Flare Knockout Drum Pump | 0.14 | 0.14 | 0.14 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-27021 | Amine Makeup Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-27760 | Methanol Injection Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-27770 | AGI Compressor Methanol Injection Pump | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-27005 | PAG ISO 100 Lube Oil Makeup Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-27015 | PAG ISO 150 Lube Oil Makeup Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-26605 | AGI Compressor Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-26855 | Flash Gas Compressor Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-23802, P-23803, P-23804 | HMO Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-26505 | HMO Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-23302, P-23303 | Amine Booster Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-23605 | Anti-Foam Injection Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-23603, P-23604 | Reflux Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-23702, P-23703 | Amine Solution Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-26355 | Amine Area Sump Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P-26305 | Amine Process Drain Tank Pump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-27020 | Amine Storage Tank | 0.05 | 0.05 | 0.05 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-27700 | Methanol Storage Tank | 5.16 | 5.16 | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-27710 | AGI Compressor Methanol Storage Tank | 5.16 | 5.16 | 5.16 | 0.01 | 5.16 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-27000 | PAG ISO 100 Lube Oil Tank | 0.05 | 0.05 | 0.05 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-27010 | PAG ISO 150 Lube Oil Tank | 0.05 | 0.05 | 0.05 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-26100, TK-26200 | Sour Slop Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.04 | <0.01 | 0.18 | <0.01 | <0.01 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | <0.01 | <0.01 |
| TK-26600 | AGI Compressor Area Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-26850 | Flash Gas Compressor Area Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-26500 | HMO Area Sump | 0.04 | 0.04 | 0.04 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-26350 | Amine Area Sump | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TK-26300 | Amine Process Drain Tank | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T-22202 | Condensate Stabilizer Tower | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| T-24201, T-24202 | Amine Gas Contactor | 8.56 | 8.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.76 | <0.01 | 22.95 | 0.03 | 8.56 | 0.01 | 14.25 | <0.01 | 0.15 | <0.01 | 0.13 | <0.01 | 241.64 | 0.35 | 24.69 | 0.04 |
| T-23402 | Amine Still | 6.63 | 6.63 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.89 | <0.01 | 15.48 | 0.02 | 6.63 | <0.01 | 13.78 | <0.01 | 0.15 | <0.01 | -- | -- | -- | -- | -- | -- |
| V-21000 | Slug Catcher | 21.95 | 21.95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 14.77 | 0.02 | 58.81 | 0.09 | 21.95 | 0.03 | 36.52 | 0.02 | 0.40 | <0.01 | 0.33 | <0.01 | 619.20 | 0.90 | 63.28 | 0.09 |
| V-29060 | Condensate Surge Tank | 25.07 | 25.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 16.87 | 0.02 | 67.19 | 0.10 | 25.07 | 0.04 | 41.72 | 0.02 | 0.45 | <0.01 | 0.38 | <0.01 | 707.43 | 1.02 | 72.29 | 0.10 |
| V-25510 | Acid Gas Scrubber | 1.40 | 1.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.82 | <0.01 | 3.28 | <0.01 | 1.40 | <0.01 | 2.92 | <0.01 | 0.03 | <0.01 | -- | -- | -- | -- | -- | -- |
| V-21403 | Off-Spec Closed Drain Tank | 1.17 | 1.17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.78 | <0.01 | 3.12 | <0.01 | 1.17 | <0.01 | 1.94 | <0.01 | 0.02 | <0.01 | 0.02 | <0.01 | 32.90 | 0.05 | 3.36 | <0.01 |
| V-25800 | Sour Slop Tank Flare Knockout Drum | 0.03 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | <0.01 | 0.09 | <0.01 | 0.03 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.90 | <0.01 | 0.09 | <0.01 |
| V-23801 | HMO Expansion Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-21050 | Inlet Gas Vortex Scrubber | 0.11 | 0.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | <0.01 | 0.29 | <0.01 | 0.11 | <0.01 | 0.18 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.05 | <0.01 | 0.31 | <0.01 |
| V-24301, V-24303 | Amine Scrubber | 2.12 | 2.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.15 | <0.01 | 4.58 | <0.01 | 2.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | 31.75 | 0.05 | 4.76 | <0.01 |
| V-23101 | Amine Flash Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V-23403 | Reflux Accumulator | 0.78 | 0.78 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 | <0.01 | 1.82 | <0.01 | 0.78 | <0.01 | 1.62 | <0.01 | 0.02 | <0.01 | -- | -- | -- | -- | -- | -- |
| V-23701 | Amine Surge Tank | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | **FET-2 Vented SSM** | | | **11.30** | **0.02** | **10.36** | **<0.01** | **<0.01** | **<0.01** | **1.84** | **<0.01** | **1.39** | **<0.01** | | | | | | | | | | | | | | | | |
| | **RA2-FL-25100** | | | | | | | | | | | | | **47.49** | **0.07** | **189.13** | **0.27** | **72.94** | **0.11** | **121.32** | **0.06** | **1.32** | **<0.01** | **1.01** | **<0.01** | **1,697.98** | **2.46** | **175.10** | **0.25** |
| | **RA2-FL-25850** | | | | | | | | | | | | | **0.07** | **<0.01** | **0.27** | **<0.01** | **0.04** | **<0.01** | **0.11** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **0.98** | **<0.01** | **0.09** | **<0.01** |

*Activity durations are conservative estimates.

# Full Startup SSM Emissions
**Targa Northern Delaware, LLC**

**Vented Equiment**

| | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| **Train 1 Vented SSM** | 6,070.44 | 12.12 | <0.01 | <0.01 | 590.13 | 0.30 | 11.20 | 0.02 | 27.29 | 0.04 |
| **Train 2 Vented SSM** | 47.51 | 0.07 | <0.01 | <0.01 | 5.38 | <0.01 | 644.02 | 0.93 | 172.72 | 0.25 |
| **Train 3 Vented SSM** | 38.55 | 0.06 | <0.01 | <0.01 | 3.87 | <0.01 | 375.28 | 0.54 | 159.45 | 0.23 |
| **Train 4 Vented SSM** | 52.78 | 0.08 | <0.01 | <0.01 | 5.40 | <0.01 | 665.91 | 0.96 | 180.60 | 0.26 |
| **Train 5 Vented SSM** | 49.48 | 0.08 | <0.01 | <0.01 | 5.39 | <0.01 | 625.44 | 0.90 | 171.53 | 0.25 |
| **Train 6 Vented SSM** | 63.62 | 0.10 | <0.01 | <0.01 | 7.07 | <0.01 | 344.71 | 0.50 | 152.60 | 0.22 |
| **FET-1 Vented SSM** | 10.69 | 0.02 | <0.01 | <0.01 | 10.36 | <0.01 | 18.45 | 0.03 | 3.96 | <0.01 |
| **FET-2 Vented SSM** | 11.30 | 0.02 | <0.01 | <0.01 | 10.36 | <0.01 | 1.84 | <0.01 | 1.39 | <0.01 |

**Flared Equiment Blowdown Summary**

| | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| **RH1-FL-29-1003** | 49.63 | 0.07 | 197.64 | 0.29 | 291.07 | 0.44 | 1.20 | <0.01 | 0.01 | <0.01 | 4.17 | <0.01 | 1,095.97 | 1.59 | 98.06 | 0.14 |
| **RH2-FL-5100** | 50.80 | 0.07 | 202.30 | 0.29 | 243.60 | 0.35 | 0.12 | <0.01 | <0.01 | <0.01 | 0.90 | <0.01 | 1,822.41 | 2.64 | 100.71 | 0.15 |
| **RH3-FL-5100** | 32.83 | 0.05 | 130.74 | 0.19 | 210.47 | 0.30 | 0.04 | <0.01 | <0.01 | <0.01 | 0.20 | <0.01 | 1,326.90 | 1.92 | 26.36 | 0.04 |
| **RH4-FL-45100** | 77.52 | 0.11 | 308.74 | 0.45 | 287.41 | 0.42 | 0.23 | <0.01 | <0.01 | <0.01 | 1.81 | <0.01 | 3,336.77 | 4.83 | 199.05 | 0.29 |
| **RH5-FL-55100** | 69.73 | 0.10 | 277.71 | 0.40 | 419.42 | 0.61 | 0.10 | <0.01 | <0.01 | <0.01 | 0.37 | <0.01 | 3,784.96 | 5.47 | 54.46 | 0.08 |
| **RHA-FL-5100** | 3.51 | <0.01 | 13.99 | 0.02 | 5.62 | <0.01 | 34.23 | 0.02 | 0.37 | <0.01 | 0.06 | <0.01 | 223.97 | 0.32 | 9.43 | 0.01 |
| **RA2-FL-25100** | 47.49 | 0.07 | 189.13 | 0.27 | 72.94 | 0.11 | 121.32 | 0.06 | 1.32 | <0.01 | 1.01 | <0.01 | 1,697.98 | 2.46 | 175.10 | 0.25 |
| **RH1-FL-2850** | 4.35 | <0.01 | 17.31 | 0.03 | 43.74 | 0.09 | -- | -- | -- | -- | 4.48 | <0.01 | -- | -- | -- | -- |
| **RHA-FL-5850** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RA2-FL-25850** | 0.07 | <0.01 | 0.27 | <0.01 | 0.04 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.98 | <0.01 | 0.09 | <0.01 |
| **RH2-TO-5500** | 1.71 | 0.45 | 6.27 | 0.28 | 16.75 | 0.02 | 1.54 | <0.01 | <0.01 | <0.01 | 0.10 | <0.01 | 11,997.38 | 17.35 | 0.14 | <0.01 |
| **RH4-TO-45500** | 0.16 | 0.45 | 0.09 | 0.27 | 0.13 | <0.01 | 1.55 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 12,068.37 | 17.46 | 0.12 | <0.01 |
| **RH5-TO-55500** | 0.16 | 0.46 | 0.10 | 0.28 | 0.13 | <0.01 | 1.59 | <0.01 | <0.01 | <0.01 | 0.08 | <0.01 | 12,359.88 | 17.88 | 0.12 | <0.01 |

**Sample Calculations:**

Vo = V * Pmin1 * (519.67 °R) / (14.696 psia * To)
Va = V * Pmin2 * (519.67 °R) / (14.696 psia * To)
Vf = Vo - Va
Where:

Vo = Volume at Operating Conditions ($ft^3$)
V = Volume of Vessel ($ft^3$)
Pmin1 = Minimum of vapor and operating pressure (psia)
To = Operating temperature (°R)
Va = Volume released to atmosphere ($ft^3$)
Pmin2 = Minimum of vapor, flared blowdown, and operating pressure (psia)
Vf = Volume of gas sent to flare ($ft^3$)

Efh = Vf / (379 scf/lb-mol) * MW * VOC wt% / t * (1 - DRE)
Efy = Efh * t * a
Eah = Va / (379 scf/lb-mol) * MW * VOC wt% / t
Eay = Eah * t * a
Where:

Efh = hourly flared VOC emission rate (lb/hr)
MW = molecular weight (lb/lb-mol)
VOC wt% = weight percent of VOC (%)
t = activity duration (hr)
DRE = Destruction efficiency of flare (%)
Efy = yearly flared VOC emission rate (tpy)
a = activities per year
Eah = hourly vented VOC emission rate (lb/hr)
Eay = yearly vented VOC emission rate (tpy)

These example calculations are not intended to be representations under 116.116(b), but are an example of the emission calculation approach for a sub-category of MSS emissions activities. The basis of the example emission calculation (such as volume, concentration, pressure) are example conditions and should not be interpreted as representations of a specific plant or activity condition under 116.116(b). Individual activities in this MSS sub-category are performed which may have slight variations in procedure

## Meter Proving and Line Breaths SSM Emissions

**Targa Northern Delaware, LLC**

**Calculation Basis:**

Emissions to the atmosphere after opening lines are calculated using the Ideal Gas Law and conservatively use the maximum pressure for each service to determine blowdown volume.

Piping is conservatively assumed to be one 10-foot length of 16" diameter pipe. Degassing occurs within one hour.

**Train 1**

| | | | | | | | | | | | | | | | Vented Emissions | | | | | | | | | | | | Flared Emissions | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area | MSS Activity | Service | Volume | Maximum Pressure | Blowdown Volume | Mixture MW | Frequency | Total Emissions | | Controlled? | Control Device | DRE (%) | Mixture VOC wt% | Mixture Btu/scf | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | Mscf | lb/lb-mol | /year | lb/hr | tpy | | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Inlet Gas | Meter Run | Inlet Gas | 13.96 | 1000 | 0.95 | 22.734 | 1 | 56.99 | 0.03 | Y | 1-EP-2 | 98 | 23.25 | 1,020.00 | - | - | - | - | - | - | - | - | - | - | 0.13 | <0.01 | 0.53 | <0.01 | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.97 | <0.01 | 0.60 | <0.01 |
| | Line Break | Inlet Gas | 13.96 | 1000 | 0.95 | 22.734 | 1 | 56.99 | 0.03 | Y | 1-EP-2 | 98 | 23.25 | 1,020.00 | - | - | - | - | - | - | - | - | - | - | 0.13 | <0.01 | 0.53 | <0.01 | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 3.97 | <0.01 | 0.60 | <0.01 |
| Y-Grade | Meter Run | Y-Grade | 13.96 | 1440 | 1.37 | 40.966 | 1 | 147.88 | 0.07 | N | N/A | 0 | 71.97 | - | 106.43 | 0.05 | - | - | - | - | 0.13 | <0.01 | 0.13 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Line Break | Y-Grade | 13.96 | 1440 | 1.37 | 40.966 | 1 | 147.88 | 0.07 | N | N/A | 0 | 71.97 | - | 106.43 | 0.05 | - | - | - | - | 0.13 | <0.01 | 0.13 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Residue Gas | Meter Run | Residue Gas | 13.96 | 1400 | 1.33 | 17.871 | 1 | 62.72 | 0.03 | Y | 1-EP-2 | 98 | 0.01 | 1,020.00 | - | - | - | - | - | - | - | - | - | - | 0.19 | <0.01 | 0.75 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 48.64 | 0.02 | 0.22 | <0.01 |
| | Line Break | Residue Gas | 13.96 | 1400 | 1.33 | 17.871 | 1 | 62.72 | 0.03 | Y | 1-EP-2 | 98 | 0.01 | 1,020.00 | - | - | - | - | - | - | - | - | - | - | 0.19 | <0.01 | 0.75 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 48.64 | 0.02 | 0.22 | <0.01 |
| | | | | | | | | | | | | | | | **212.86** | **0.11** | **-** | **-** | **-** | **-** | **0.27** | **<0.01** | **0.26** | **<0.01** | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | **Train 1 Vented SSM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | **RH1-FL-29-1003** | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Train 2**

| | | | | | | | | | | | | | | | Vented Emissions | | | | | | | | | | | | Flared Emissions | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area | MSS Activity | Service | Volume | Maximum Pressure | Blowdown Volume | Mixture MW | Frequency | Total Emissions | | Controlled? | Control Device | DRE (%) | Mixture VOC wt% | Mixture Btu/scf | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | Mscf | lb/lb-mol | /year | lb/hr | tpy | | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Inlet Gas | Meter Run | Inlet Gas | 13.96 | 1100 | 1.05 | 22.734 | 1 | 62.69 | 0.03 | Y | 2-EP-2a | 98 | 23.25 | 1,020.00 | - | - | - | - | - | - | - | - | - | - | 0.15 | <0.01 | 0.59 | <0.01 | 0.29 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.37 | <0.01 | 0.66 | <0.01 |
| | Line Break | Inlet Gas | 13.96 | 1100 | 1.05 | 22.734 | 1 | 62.69 | 0.03 | Y | 2-EP-2a | 98 | 23.25 | 1,020.00 | - | - | - | - | - | - | - | - | - | - | 0.15 | <0.01 | 0.59 | <0.01 | 0.29 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.37 | <0.01 | 0.66 | <0.01 |
| Y-Grade | Meter Run | Y-Grade | 13.96 | 1440 | 1.37 | 40.966 | 1 | 147.88 | 0.07 | Y | 2-EP-2a | 98 | 71.97 | 1,020.00 | - | - | - | - | - | - | - | - | - | - | 0.19 | <0.01 | 0.77 | <0.01 | 2.13 | <0.01 | - | - | - | - | - | - | 0.13 | <0.01 | <0.01 | <0.01 |
| | Line Break | Y-Grade | 13.96 | 1440 | 1.37 | 40.966 | 1 | 147.88 | 0.07 | Y | 2-EP-2a | 98 | 71.97 | 1,020.00 | - | - | - | - | - | - | - | - | - | - | 0.19 | <0.01 | 0.77 | <0.01 | 2.13 | <0.01 | - | - | - | - | - | - | 0.13 | <0.01 | <0.01 | <0.01 |
| Residue Gas | Meter Run | Residue Gas | 13.96 | 2000 | 1.90 | 17.871 | 1 | 89.60 | 0.04 | N | N/A | 0 | 0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 69.48 | 0.03 | 15.58 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Line Break | Residue Gas | 13.96 | 2000 | 1.90 | 17.871 | 1 | 89.60 | 0.04 | N | N/A | 0 | 0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 69.48 | 0.03 | 15.58 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | **0.01** | **<0.01** | **0.01** | **<0.01** | **<0.01** | **<0.01** | **138.96** | **0.07** | **31.16** | **0.02** | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | **Train 2 Vented SSM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | **RH2-FL-5100** | | | | | | | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Train 3**

| | | | | | | | | | | | | | | | Vented Emissions | | | | | | | | | | | | Flared Emissions | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area | MSS Activity | Service | Volume | Maximum Pressure | Blowdown Volume | Mixture MW | Frequency | Total Emissions | | Controlled? | Control Device | DRE (%) | Mixture VOC wt% | Mixture Btu/scf | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | Mscf | lb/lb-mol | /year | lb/hr | tpy | | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Inlet Gas | Meter Run | Inlet Gas | 13.96 | 1100 | 1.05 | 22.734 | 1 | 62.69 | 0.03 | Y | 3-EP-2a | 98 | 23.25 | 1,020.00 | - | - | - | - | - | - | - | - | - | - | 0.15 | <0.01 | 0.59 | <0.01 | 0.29 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.37 | <0.01 | 0.66 | <0.01 |
| | Line Break | Inlet Gas | 13.96 | 1100 | 1.05 | 22.734 | 1 | 62.69 | 0.03 | Y | 3-EP-2a | 98 | 23.25 | 1,020.00 | - | - | - | - | - | - | - | - | - | - | 0.15 | <0.01 | 0.59 | <0.01 | 0.29 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.37 | <0.01 | 0.66 | <0.01 |
| Y-Grade | Meter Run | Y-Grade | 13.96 | 1440 | 1.37 | 40.966 | 1 | 147.88 | 0.07 | Y | 3-EP-2a | 98 | 71.97 | 1,020.00 | - | - | - | - | - | - | - | - | - | - | 0.19 | <0.01 | 0.77 | <0.01 | 2.13 | <0.01 | - | - | - | - | - | - | 0.13 | <0.01 | <0.01 | <0.01 |
| | Line Break | Y-Grade | 13.96 | 1440 | 1.37 | 40.966 | 1 | 147.88 | 0.07 | Y | 3-EP-2a | 98 | 71.97 | 1,020.00 | - | - | - | - | - | - | - | - | - | - | 0.19 | <0.01 | 0.77 | <0.01 | 2.13 | <0.01 | - | - | - | - | - | - | 0.13 | <0.01 | <0.01 | <0.01 |
| Residue Gas | Meter Run | Residue Gas | 13.96 | 2000 | 1.90 | 17.871 | 1 | 89.60 | 0.04 | N | N/A | 0 | 0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 69.48 | 0.03 | 15.58 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Line Break | Residue Gas | 13.96 | 2000 | 1.90 | 17.871 | 1 | 89.60 | 0.04 | N | N/A | 0 | 0.01 | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 69.48 | 0.03 | 15.58 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | **0.01** | **<0.01** | **0.01** | **<0.01** | **<0.01** | **<0.01** | **138.96** | **0.07** | **31.16** | **0.02** | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | **Train 3 Vented SSM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | **RH3-FL-5100** | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Train 4**

| | | | | | | | | | | | | | | | Vented Emissions | | | | | | | | | | | | Flared Emissions | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area | MSS Activity | Service | Volume | Maximum Pressure | Blowdown Volume | Mixture MW | Frequency | Total Emissions | | Controlled? | Control Device | DRE (%) | Mixture VOC wt% | Mixture Btu/scf | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | Mscf | lb/lb-mol | /year | lb/hr | tpy | | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Inlet Gas | Meter Run | Inlet Gas | 13.96 | 1200 | 1.14 | 22.734 | 1 | 68.39 | 0.03 | Y | 4-EP-2a | 98 | 23.25 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.16 | <0.01 | 0.64 | <0.01 | 0.32 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.76 | <0.01 | 0.71 | <0.01 |
| | Line Break | Inlet Gas | 13.96 | 1200 | 1.14 | 22.734 | 1 | 68.39 | 0.03 | Y | 4-EP-2a | 98 | 23.25 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.16 | <0.01 | 0.64 | <0.01 | 0.32 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.76 | <0.01 | 0.71 | <0.01 |
| Cryo Inlet Gas | Meter Run | Inlet Gas | 13.96 | 1200 | 1.14 | 22.734 | 1 | 68.39 | 0.03 | Y | 4-EP-2a | 98 | 23.25 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.16 | <0.01 | 0.64 | <0.01 | 0.32 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.76 | <0.01 | 0.71 | <0.01 |
| | Line Break | Inlet Gas | 13.96 | 1200 | 1.14 | 22.734 | 1 | 68.39 | 0.03 | Y | 4-EP-2a | 98 | 23.25 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.16 | <0.01 | 0.64 | <0.01 | 0.32 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.76 | <0.01 | 0.71 | <0.01 |
| Y-Grade | Meter Run | Y-Grade | 13.96 | 1440 | 1.37 | 40.966 | 1 | 147.88 | 0.07 | Y | 4-EP-2a | 98 | 71.97 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.19 | <0.01 | 0.77 | <0.01 | 2.13 | <0.01 | - | - | - | - | - | - | 0.13 | <0.01 | <0.01 | <0.01 |
| | Line Break | Y-Grade | 13.96 | 1440 | 1.37 | 40.966 | 1 | 147.88 | 0.07 | Y | 4-EP-2a | 98 | 71.97 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.19 | <0.01 | 0.77 | <0.01 | 2.13 | <0.01 | - | - | - | - | - | - | 0.13 | <0.01 | <0.01 | <0.01 |
| Residue Gas | Meter Run | Residue Gas | 13.96 | 2000 | 1.90 | 17.871 | 1 | 89.60 | 0.04 | Y | 4-EP-2a | 98 | 0.01 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.27 | <0.01 | 1.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 69.48 | 0.03 | 0.31 | <0.01 |
| | Line Break | Residue Gas | 13.96 | 2000 | 1.90 | 17.871 | 1 | 89.60 | 0.04 | Y | 4-EP-2a | 98 | 0.01 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.27 | <0.01 | 1.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 69.48 | 0.03 | 0.31 | <0.01 |
| | | | | | | | | | | | | | | | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | **Train 4 Vented SSM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | **RH4-FL-45100** | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

## Meter Proving and Line Breaths SSM Emissions

**Targa Northern Delaware, LLC**

**Train 5**

| Area | MSS Activity | Service | Volume | Maximum Pressure | Blowdown Volume | Mixture MW | Frequency | Total Emissions | | Controlled? | Control Device | DRE (%) | Mixture VOC wt% | Mixture Btu/scf | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | Mscf | lb/lb-mol | /year | lb/hr | tpy | | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Inlet Gas | Meter Run | Inlet Gas | 13.96 | 1287 | 1.22 | 22.734 | 1 | 73.35 | 0.04 | Y | 4-EP-2a | 98 | 23.25 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.17 | <0.01 | 0.69 | <0.01 | 0.34 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.11 | <0.01 | 0.77 | <0.01 |
| | Line Break | Inlet Gas | 13.96 | 1287 | 1.22 | 22.734 | 1 | 73.35 | 0.04 | Y | 4-EP-2a | 98 | 23.25 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.17 | <0.01 | 0.69 | <0.01 | 0.34 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.11 | <0.01 | 0.77 | <0.01 |
| Cryo Inlet Gas | Meter Run | Inlet Gas | 13.96 | 1287 | 1.22 | 22.734 | 1 | 73.35 | 0.04 | Y | 5-EP-2 | 98 | 23.25 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.17 | <0.01 | 0.69 | <0.01 | 0.34 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.11 | <0.01 | 0.77 | <0.01 |
| | Line Break | Inlet Gas | 13.96 | 1287 | 1.22 | 22.734 | 1 | 73.35 | 0.04 | Y | 5-EP-2 | 98 | 23.25 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.17 | <0.01 | 0.69 | <0.01 | 0.34 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 5.11 | <0.01 | 0.77 | <0.01 |
| Y-Grade | Meter Run | Y-Grade | 13.96 | 1440 | 1.37 | 40.966 | 1 | 147.88 | 0.07 | Y | 5-EP-2 | 98 | 71.97 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.19 | <0.01 | 0.77 | <0.01 | 2.13 | <0.01 | - | - | - | - | - | - | 0.13 | <0.01 | <0.01 | <0.01 |
| | Line Break | Y-Grade | 13.96 | 1440 | 1.37 | 40.966 | 1 | 147.88 | 0.07 | Y | 5-EP-2 | 98 | 71.97 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.19 | <0.01 | 0.77 | <0.01 | 2.13 | <0.01 | - | - | - | - | - | - | 0.13 | <0.01 | <0.01 | <0.01 |
| Residue Gas | Meter Run | Residue Gas | 13.96 | 2000 | 1.90 | 17.871 | 1 | 89.60 | 0.04 | Y | 5-EP-2 | 98 | 0.01 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.27 | <0.01 | 1.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 69.48 | 0.03 | 0.31 | <0.01 |
| | Line Break | Residue Gas | 13.96 | 2000 | 1.90 | 17.871 | 1 | 89.60 | 0.04 | Y | 5-EP-2 | 98 | 0.01 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.27 | <0.01 | 1.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 69.48 | 0.03 | 0.31 | <0.01 |
| | | | | | | | | | | | | | | **Train 5 Vented SSM** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | **RH4-FL-45100** | | | | | | | | | | | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | | | | | | | | | | | | | | **RH5-FL-55100** | | | | | | | | | | | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

**Train 6**

| Area | MSS Activity | Service | Volume | Maximum Pressure | Blowdown Volume | Mixture MW | Frequency | Total Emissions | | Controlled? | Control Device | DRE (%) | Mixture VOC wt% | Mixture Btu/scf | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | Mscf | lb/lb-mol | /year | lb/hr | tpy | | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Inlet Gas | Meter Run | Inlet Gas | 13.96 | 1100 | 1.05 | 22.734 | 1 | 62.69 | 0.03 | Y | 4-EP-2a | 98 | 23.25 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.15 | <0.01 | 0.59 | <0.01 | 0.29 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.37 | <0.01 | 0.66 | <0.01 |
| | Line Break | Inlet Gas | 13.96 | 1100 | 1.05 | 22.734 | 1 | 62.69 | 0.03 | Y | 4-EP-2a | 98 | 23.25 | 1020.00 | 0.29 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.37 | <0.01 | 0.66 | <0.01 | 0.15 | <0.01 | 0.59 | <0.01 | 0.29 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.37 | <0.01 | 0.66 | <0.01 |
| Cryo Inlet Gas | Meter Run | Inlet Gas | 13.96 | 1100 | 1.05 | 22.734 | 1 | 62.69 | 0.03 | Y | 5-EP-2 | 98 | 23.25 | 1020.00 | 0.29 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.37 | <0.01 | 0.66 | <0.01 | 0.15 | <0.01 | 0.59 | <0.01 | 0.29 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.37 | <0.01 | 0.66 | <0.01 |
| | Line Break | Inlet Gas | 13.96 | 1100 | 1.05 | 22.734 | 1 | 62.69 | 0.03 | Y | 5-EP-2 | 98 | 23.25 | 1020.00 | 0.29 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.37 | <0.01 | 0.66 | <0.01 | 0.15 | <0.01 | 0.59 | <0.01 | 0.29 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 4.37 | <0.01 | 0.66 | <0.01 |
| Cryo Y-Grade | Meter Run | Y-Grade | 13.96 | 2000 | 1.90 | 40.966 | 1 | 205.39 | 0.10 | Y | 5-EP-2 | 98 | 71.97 | 1020.00 | 2.96 | <0.01 | - | - | - | - | 0.19 | <0.01 | <0.01 | <0.01 | 0.27 | <0.01 | 1.07 | <0.01 | 2.96 | <0.01 | - | - | - | - | - | - | 0.19 | <0.01 | <0.01 | <0.01 |
| | Line Break | Y-Grade | 13.96 | 2000 | 1.90 | 40.966 | 1 | 205.39 | 0.10 | Y | 5-EP-2 | 98 | 71.97 | 1020.00 | 2.96 | <0.01 | - | - | - | - | 0.19 | <0.01 | <0.01 | <0.01 | 0.27 | <0.01 | 1.07 | <0.01 | 2.96 | <0.01 | - | - | - | - | - | - | 0.19 | <0.01 | <0.01 | <0.01 |
| Stabilizer Y-Grade | Meter Run | Y-Grade | 13.96 | 2000 | 1.90 | 40.966 | 1 | 205.39 | 0.10 | Y | 4-EP-2a | 98 | 71.97 | 1020.00 | 2.96 | <0.01 | - | - | - | - | 0.19 | <0.01 | <0.01 | <0.01 | 0.27 | <0.01 | 1.07 | <0.01 | 2.96 | <0.01 | - | - | - | - | - | - | 0.19 | <0.01 | <0.01 | <0.01 |
| | Line Break | Y-Grade | 13.96 | 2000 | 1.90 | 40.966 | 1 | 205.39 | 0.10 | Y | 4-EP-2a | 98 | 71.97 | 1020.00 | 2.96 | <0.01 | - | - | - | - | 0.19 | <0.01 | <0.01 | <0.01 | 0.27 | <0.01 | 1.07 | <0.01 | 2.96 | <0.01 | - | - | - | - | - | - | 0.19 | <0.01 | <0.01 | <0.01 |
| Unstabilized Condensate | Meter Run | Condensate | 13.96 | 325 | 0.31 | 93.546 | 1 | 76.21 | 0.04 | Y | 4-EP-2a | 98 | 95.47 | 3394.62 | 1.46 | <0.01 | 0.15 | <0.01 | - | - | - | - | - | - | 0.14 | <0.01 | 0.58 | <0.01 | 1.46 | <0.01 | - | - | - | - | 0.15 | <0.01 | - | - | - | - |
| | Line Break | Condensate | 13.96 | 325 | 0.31 | 93.546 | 1 | 76.21 | 0.04 | Y | 4-EP-2a | 98 | 95.47 | 3394.62 | 1.46 | <0.01 | 0.15 | <0.01 | - | - | - | - | - | - | 0.14 | <0.01 | 0.58 | <0.01 | 1.46 | <0.01 | - | - | - | - | 0.15 | <0.01 | - | - | - | - |
| Stabilized Condensate | Meter Run | Condensate | 13.96 | 325 | 0.31 | 93.546 | 1 | 76.21 | 0.04 | Y | 4-EP-2a | 98 | 95.47 | 3394.62 | 1.46 | <0.01 | 0.15 | <0.01 | - | - | - | - | - | - | 0.14 | <0.01 | 0.58 | <0.01 | 1.46 | <0.01 | - | - | - | - | 0.15 | <0.01 | - | - | - | - |
| | Line Break | Condensate | 13.96 | 325 | 0.31 | 93.546 | 1 | 76.21 | 0.04 | Y | 4-EP-2a | 98 | 95.47 | 3394.62 | 1.46 | <0.01 | 0.15 | <0.01 | - | - | - | - | - | - | 0.14 | <0.01 | 0.58 | <0.01 | 1.46 | <0.01 | - | - | - | - | 0.15 | <0.01 | - | - | - | - |
| Residue Gas | Meter Run | Residue Gas | 13.96 | 2000 | 1.90 | 17.871 | 1 | 89.60 | 0.04 | Y | 5-EP-2 | 98 | 0.01 | 1020.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 69.48 | 0.03 | 0.31 | <0.01 | 0.27 | <0.01 | 1.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 69.48 | 0.03 | 0.31 | <0.01 |
| | Line Break | Residue Gas | 13.96 | 2000 | 1.90 | 17.871 | 1 | 89.60 | 0.04 | Y | 5-EP-2 | 98 | 0.01 | 1020.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 69.48 | 0.03 | 0.31 | <0.01 | 0.27 | <0.01 | 1.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 69.48 | 0.03 | 0.31 | <0.01 |
| | | | | | | | | | | | | | | **Train 6 Vented SSM** | **18.52** | **<0.01** | **0.61** | **<0.01** | **<0.01** | **<0.01** | **152.81** | **0.08** | **2.60** | **<0.01** | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | **RH4-FL-45100** | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | **RH5-FL-55100** | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**FET-1**

| Area | MSS Activity | Service | Volume | Maximum Pressure | Blowdown Volume | Mixture MW | Frequency | Total Emissions | | Controlled? | Control Device | DRE (%) | Mixture VOC wt% | Mixture Btu/scf | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | Mscf | lb/lb-mol | /year | lb/hr | tpy | | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Sour Inlet Gas | Meter Run | Sour Inlet Gas | 13.96 | 1100 | 1.05 | 24.067 | 1 | 66.37 | 0.03 | Y | 2.5-RH2-TO-5500 | 98 | 18.89 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.15 | <0.01 | 0.59 | <0.01 | 0.25 | <0.01 | 4.73 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | 7.08 | <0.01 | 0.72 | <0.01 |
| | Line Break | Sour Inlet Gas | 13.96 | 1100 | 1.05 | 24.067 | 1 | 66.37 | 0.03 | Y | 2.5-RH2-TO-5500 | 98 | 18.89 | 1020.00 | - | - | - | - | - | - | - | - | - | - | 0.15 | <0.01 | 0.59 | <0.01 | 0.25 | <0.01 | 4.73 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | 7.08 | <0.01 | 0.72 | <0.01 |
| Acid Gas Injection | Meter Run | Acid Gas | 13.96 | 3500 | 3.33 | 41.216 | 1 | 361.63 | 0.18 | Y | 2.5-RH2-TO-5500 | 98 | 0.05 | 75.39 | - | - | - | - | - | - | - | - | - | - | 0.03 | <0.01 | 0.14 | <0.01 | <0.01 | <0.01 | 58.70 | 0.03 | 0.64 | <0.01 | <0.01 | <0.01 | 318.99 | 0.16 | <0.01 | <0.01 |
| | Line Break | Acid Gas | 13.96 | 3500 | 3.33 | 41.216 | 1 | 361.63 | 0.18 | Y | 2.5-RH2-TO-5500 | 98 | 0.05 | 75.39 | - | - | - | - | - | - | - | - | - | - | 0.03 | <0.01 | 0.14 | <0.01 | <0.01 | <0.01 | 58.70 | 0.03 | 0.64 | <0.01 | <0.01 | <0.01 | 318.99 | 0.16 | <0.01 | <0.01 |
| Fuel Gas | Meter Run | Residue Gas | 13.96 | 1440 | 1.37 | 17.871 | 1 | 64.51 | 0.03 | N | N/A | 0 | 0.01 | 0.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 50.03 | 0.03 | 11.22 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Line Break | Residue Gas | 13.96 | 1440 | 1.37 | 17.871 | 1 | 64.51 | 0.03 | N | N/A | 0 | 0.01 | 0.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 50.03 | 0.03 | 11.22 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | **FET-1 Vented SSM** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **100.05** | **0.05** | **22.44** | **0.01** | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | **RHA-FL-5100** | | | | | | | | | | | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

**FET-2**

| Area | MSS Activity | Service | Volume | Maximum Pressure | Blowdown Volume | Mixture MW | Frequency | Total Emissions | | Controlled? | Control Device | DRE (%) | Mixture VOC wt% | Mixture Btu/scf | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | VOC Emissions | | HAP Emissions | | $H_2S$ Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | Mscf | lb/lb-mol | /year | lb/hr | tpy | | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Sour Inlet Gas | Meter Run | Sour Inlet Gas | 13.96 | 1200 | 1.14 | 24.067 | 1 | 72.40 | 0.04 | Y | RA2-FL-25100 | 98 | 18.89 | 1170.00 | - | - | - | - | - | - | - | - | - | - | 0.18 | <0.01 | 0.73 | <0.01 | 0.27 | <0.01 | 5.16 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 | 7.72 | <0.01 | 0.79 | <0.01 |
| | Line Break | Sour Inlet Gas | 13.96 | 1200 | 1.14 | 24.067 | 1 | 72.40 | 0.04 | Y | RA2-FL-25100 | 98 | 18.89 | 1170.00 | - | - | - | - | - | - | - | - | - | - | 0.18 | <0.01 | 0.73 | <0.01 | 0.27 | <0.01 | 5.16 | <0.01 | 0.06 | <0.01 | <0.01 | <0.01 | 7.72 | <0.01 | 0.79 | <0.01 |
| Acid Gas Injection | Meter Run | Acid Gas | 13.96 | 175 | 0.17 | 41.216 | 1 | 18.08 | 0.01 | Y | RA2-FL-25100 | 98 | 0.05 | 75.39 | - | - | - | - | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.94 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | 15.95 | <0.01 | <0.01 | <0.01 |
| | Line Break | Acid Gas | 13.96 | 175 | 0.17 | 41.216 | 1 | 18.08 | 0.01 | Y | RA2-FL-25100 | 98 | 0.05 | 75.39 | - | - | - | - | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.94 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | 15.95 | <0.01 | <0.01 | <0.01 |
| Unstabilized HP Condensate | Meter Run | Condensate | 13.96 | 1200 | 1.14 | 93.546 | 1 | 281.41 | 0.14 | Y | RA2-FL-25100 | 98 | 95.47 | 3394.62 | - | - | - | - | - | - | - | - | - | - | 0.53 | <0.01 | 2.13 | <0.01 | 5.37 | <0.01 | - | - | - | - | 0.55 | <0.01 | - | - | - | - |
| | Line Break | Condensate | 13.96 | 1200 | 1.14 | 93.546 | 1 | 281.41 | 0.14 | Y | RA2-FL-25100 | 98 | 95.47 | 3394.62 | - | - | - | - | - | - | - | - | - | - | 0.53 | <0.01 | 2.13 | <0.01 | 5.37 | <0.01 | - | - | - | - | 0.55 | <0.01 | - | - | - | - |
| Unstabilized MP Condensate | Meter Run | Condensate | 13.96 | 1200 | 1.14 | 93.546 | 1 | 281.41 | 0.14 | Y | RA2-FL-25100 | 98 | 95.47 | 3394.62 | - | - | - | - | - | - | - | - | - | - | 0.53 | <0.01 | 2.13 | <0.01 | 5.37 | <0.01 | - | - | - | - | 0.55 | <0.01 | - | - | - | - |
| | Line Break | Condensate | 13.96 | 1200 | 1.14 | 93.546 | 1 | 281.41 | 0.14 | Y | RA2-FL-25100 | 98 | 95.47 | 3394.62 | - | - | - | - | - | - | - | - | - | - | 0.53 | <0.01 | 2.13 | <0.01 | 5.37 | <0.01 | - | - | - | - | 0.55 | <0.01 | - | - | - | - |
| Stabilized Condensate | Meter Run | Condensate | 13.96 | 1200 | 1.14 | 93.546 | 1 | 281.41 | 0.14 | Y | RA2-FL-25100 | 98 | 95.47 | 3394.62 | - | - | - | - | - | - | - | - | - | - | 0.53 | <0.01 | 2.13 | <0.01 | 5.37 | <0.01 | - | - | - | - | 0.55 | <0.01 | - | - | - | - |
| | Line Break | Condensate | 13.96 | 1200 | 1.14 | 93.546 | 1 | 281.41 | 0.14 | Y | RA2-FL-25100 | 98 | 95.47 | 3394.62 | - | - | - | - | - | - | - | - | - | - | 0.53 | <0.01 | 2.13 | <0.01 | 5.37 | <0.01 | - | - | - | - | 0.55 | <0.01 | - | - | - | - |
| Fuel Gas | Meter Run | Residue Gas | 13.96 | 1440 | 1.37 | 17.871 | 1 | 64.51 | 0.03 | N | N/A | 0 | 0.01 | 0.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 50.03 | 0.03 | 11.22 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Line Break | Residue Gas | 13.96 | 1440 | 1.37 | 17.871 | 1 | 64.51 | 0.03 | N | N/A | 0 | 0.01 | 0.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 50.03 | 0.03 | 11.22 | <0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | **FET-2 Vented SSM** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **<0.01** | **100.05** | **0.05** | **22.44** | **0.01** | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | **RA2-FL-25100** | | | | | | | | | | | **3.58** | **<0.01** | **14.24** | **<0.01** | **32.79** | **0.02** | **16.18** | **<0.01** | **0.18** | **<0.01** | **3.31** | **<0.01** | **47.34** | **0.02** | **1.58** | **<0.01** |

## Meter Proving and Line Breaths SSM Emissions

**Targa Northern Delaware, LLC**

**Vented Equipment Blowdown Summary**

| | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Train 1 Vented SSM** | 212.86 | 0.11 | - | - | - | - | 0.27 | <0.01 | 0.26 | <0.01 |
| **Train 2 Vented SSM** | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 69.48 | 0.03 | 15.58 | <0.01 |
| **Train 3 Vented SSM** | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 69.48 | 0.03 | 15.58 | <0.01 |
| **Train 4 Vented SSM** | - | - | - | - | - | - | - | - | - | - |
| **Train 5 Vented SSM** | - | - | - | - | - | - | - | - | - | - |
| **Train 6 Vented SSM** | 1.46 | <0.01 | - | - | 0.15 | <0.01 | - | - | - | - |
| **FET-1 Vented SSM** | - | - | - | - | - | - | - | - | - | - |
| **FET-2 Vented SSM** | - | - | - | - | - | - | - | - | - | - |

**Flared Equipment Blowdown Summary**

| | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **RH1-FL-29-1003** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **RH2-FL-5100** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **RH3-FL-5100** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **RH4-FL-45100** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **RH5-FL-55100** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **RHA-FL-5100** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **RA2-FL-25100** | 3.58 | <0.01 | 14.24 | <0.01 | 32.79 | 0.02 | 16.18 | <0.01 | 0.18 | <0.01 | 3.31 | <0.01 | 47.34 | 0.02 | 1.58 | <0.01 |

**Sample Calculations:**

E = V / Vs * MW * ( 1 - DRE (%) ) * VOC wt%

Where:

V = blowdown volume, scf

Vs = 379 scf/lb-mol

MW = molecular weight of vapors, lb/lb-mol

# Tank Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

**Blowdown Calculation Basis:**
Emissions from maintenance activities are calculated using the ideal gas law.

| Minimum Flared Blowdown Pressure | 0 | psig |
|---|---|---|

**Train 1**

| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Operating Pressure | Temperature | Mixture Vapor Pressure | Controlled ? | Control Device Type | Control Device | Mixture Btu/scf | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities | Mixture VOC wt% | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | °F | psia | | | | | | scf | scf | scf | lb/lb-mol | hours | activities / yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| ST-U205 | Flash Gas Compressors Sump Tank | Lube Oil | 73.52 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.04 | 0.04 | 0 | 200 | 1 | 1 | 100 | 0.02 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| 33-909 | TEG Storage Tank | Glycol | 746.44 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.45 | 0.45 | 0 | 150.17 | 1 | 1 | 100 | 0.18 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| 33-906 | Amine Storage Tank | Amine | 746.44 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.45 | 0.45 | 0 | 105.14 | 1 | 1 | 5 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| 33-515 | Expander Methanol Tank | Methanol | 36.76 | 12.91 | 125 | 4.05 | N | N/A | N/A | - | 0 | 9.01 | 9.01 | 0 | 32.04 | 1 | 1 | 100 | 0.76 | <0.01 | - | - | 0.76 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| 33-905 | Hot Oil Storage Tank | Hot Oil | 746.44 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.45 | 0.45 | 0 | 200 | 1 | 1 | 100 | 0.24 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-XXXX | Open Drain Storage Tank | Lube Oil | 6641.96 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 4.02 | 4.02 | 0 | 200 | 1 | 1 | 100 | 2.12 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| 33-1601 | PSV-1601 Relief Knock-Out | Hot Oil | 89.34 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.05 | 0.05 | 0 | 200 | 1 | 1 | 100 | 0.03 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-20101, TK-20102, TK-20103, TK-20104, TK-20105, TK-20106 | Condensate Tank | Condensate | 19925.87 | 12.91 | 125 | 6.80 | Y | Flare | RH1-FL-285 | 3394.62 | 98 | 8194.90 | 0.00 | 8194.903 | 93.55 | 1 | 1 | 95.46893 | - | - | - | - | - | - | - | - | - | - | 3.84 | <0.01 | 15.29 | <0.01 | 38.62 | 0.02 | - | - | - | - | 3.95 | <0.01 | - | - | - | - |
| TK-20107, TK-20108, TK-20109, TK-20110, TK-20111, TK-20112 | Condensate Tank | Condensate | 19925.87 | 12.91 | 125 | 6.80 | Y | Flare | RH1-FL-285 | 3394.62 | 98 | 8194.90 | 0.00 | 8194.903 | 93.55 | 1 | 1 | 95.46893 | - | - | - | - | - | - | - | - | - | - | 3.84 | <0.01 | 15.29 | <0.01 | 38.62 | 0.02 | - | - | - | - | 3.95 | <0.01 | - | - | - | - |
| | | | | | | | | | | | | | | | | | | **Train 1 Vented SSM** | 3.36 | 1.68E-03 | -- | -- | 0.76 | 3.81E-04 | -- | -- | -- | -- | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | **RH1-FL-2850** | | | | | | | | | | | 7.68 | 3.84E-03 | 30.58 | 0.02 | 77.24 | 0.04 | -- | -- | -- | -- | 7.91 | 3.95E-03 | -- | -- | -- | -- |

*Activity durations are conservative estimates.

**Train 2**

| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Operating Pressure | Temperature | Mixture Vapor Pressure | Controlled ? | Control Device Type | Control Device | Mixture Btu/scf | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities | Mixture VOC wt% | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | °F | psia | | | | | | scf | scf | scf | lb/lb-mol | hours | activities / yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| TK-6200 | Slop Tank | Lube Oil | 2488.14 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 1.50 | 1.50 | 0 | 200 | 1 | 1 | 100 | 0.79 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-7020 | Amine Storage Tank | Amine | 2488.14 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 1.50 | 1.50 | 0 | 105.14 | 1 | 1 | 5 | 0.02 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-7030 | TEG Storage Tank | Glycol | 935.64 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.57 | 0.57 | 0 | 150.17 | 1 | 1 | 100 | 0.22 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6300 | Amine Sump Tank | Amine | 623.76 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.38 | 0.38 | 0 | 105.14 | 1 | 1 | 5 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-7700 | Methanol Storage Tank | Methanol | 221.17 | 12.91 | 125 | 4.05 | N | N/A | N/A | - | 0 | 54.23 | 54.23 | 0 | 32.04 | 1 | 1 | 100 | 4.58 | <0.01 | - | - | 4.58 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-7010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.34 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.09 | 0.09 | 0 | 200 | 1 | 1 | 100 | 0.05 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6400 | Glycol Sump Tank | Glycol | 110.58 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.07 | 0.07 | 0 | 150.17 | 1 | 1 | 100 | 0.03 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6350 | Amine Skid Drain Sump | Amine | 110.58 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.07 | 0.07 | 0 | 105.14 | 1 | 1 | 5 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6450 | Glycol Skid Drain Sump | Glycol | 110.58 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.07 | 0.07 | 0 | 150.17 | 1 | 1 | 100 | 0.03 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6500 | Hot Oil Skid Drain Sump | Hot Oil | 110.58 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.07 | 0.07 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6550 | CO2 Vent Stack Drain Sump | Low C Acid Gas | 110.58 | 12.91 | 125 | - | N | N/A | N/A | - | 0 | 86.34 | 86.34 | 0 | 42.33 | 1 | 1 | 0.10 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 9.36 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6600 | Residue Compressor Drain Sump | Lube Oil | 110.58 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.07 | 0.07 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6650 | IA Compressor Drain Sump | Lube Oil | 110.58 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.07 | 0.07 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6700 | Cryo Refrig Skid Drain Sump | Lube Oil | 110.58 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.07 | 0.07 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | **Train 2 Vented SSM** | 5.88 | 2.94E-03 | 6.47E-04 | 3.23E-07 | 4.59 | 2.30E-03 | 9.36 | 4.68E-03 | 9.43E-03 | 4.72E-06 | | | | | | | | | | | | | | | | | | |

*Activity durations are conservative estimates.

**Train 3**

| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Operating Pressure | Temperature | Mixture Vapor Pressure | Controlled ? | Control Device Type | Control Device | Mixture Btu/scf | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities | Mixture VOC wt% | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | °F | psia | | | | | | scf | scf | scf | lb/lb-mol | hours | activities / yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| TK-6600 | Residue Compressor Drain Sump | Lube Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6700 | Cryo Refrig Skid Drain Sump | Lube Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-7700 | Methanol Storage Tank | Methanol | 157.45 | 12.91 | 125 | 4.05 | N | N/A | N/A | - | 0 | 38.61 | 38.61 | 0 | 32.04 | 1 | 1 | 100 | 3.26 | <0.01 | - | - | 3.26 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | **Train 3 Vented SSM** | 9.40 | 4.70E-03 | 1.29E-03 | 6.47E-07 | 7.86 | 3.93E-03 | 18.73 | 9.36E-03 | 0.02 | 9.43E-06 | | | | | | | | | | | | | | | | | | |

*Activity durations are conservative estimates.

**Train 4**

| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Operating Pressure | Temperature | Mixture Vapor Pressure | Controlled ? | Control Device Type | Control Device | Mixture Btu/scf | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities | Mixture VOC wt% | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | °F | psia | | | | | | scf | scf | scf | lb/lb-mol | hours | activities / yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| 46200, TK-46210, TK-46220, TK-46 | Slop Tank | Lube Oil | 9952.57 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 6.02 | 6.02 | 0 | 200 | 1 | 1 | 100 | 3.18 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-47010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.34 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.09 | 0.09 | 0 | 200 | 1 | 1 | 100 | 0.05 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-47020 | Amine Storage Tank | Amine | 2488.14 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 1.50 | 1.50 | 0 | 105.14 | 1 | 1 | 5 | 0.02 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-47030 | TEG Storage Tank | Glycol | 935.64 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.57 | 0.57 | 0 | 150.17 | 1 | 1 | 100 | 0.22 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46300 | Amine Process Drain Tank | Amine | 623.76 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.38 | 0.38 | 0 | 105.14 | 1 | 1 | 5 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46400 | Glycol Process Drain Sump | Glycol | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 150.17 | 1 | 1 | 100 | 0.03 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46350 | Amine Area Sump | Amine | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 105.14 | 1 | 1 | 5 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46450 | Glycol Area Sump | Glycol | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 150.17 | 1 | 1 | 100 | 0.03 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46500 | Amine HMO Area Sump | Hot Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46550 | CO2 Vent Stack Area Sump | Low C Acid Gas | 124.41 | 12.91 | 125 | - | N | N/A | N/A | - | 0 | 97.14 | 97.14 | 0 | 42.33 | 1 | 1 | 0.10 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 10.53 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46600 | Residue Compressor Area Sump | Lube Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46750 | Cryo HMO Skid Drain Sump | Lube Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46700 | Cryo / Refrig Area Sump | Lube Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-47700 | Methanol Storage Tank | Methanol | 221.17 | 12.91 | 125 | 4.05 | N | N/A | N/A | - | 0 | 54.23 | 54.23 | 0 | 32.04 | 1 | 1 | 100 | 4.58 | <0.01 | - | - | 4.58 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | **Train 4 Vented SSM** | 8.29 | 4.15E-03 | 7.27E-04 | 3.64E-07 | 4.59 | 2.30E-03 | 10.53 | 5.27E-03 | 0.01 | 5.30E-06 | | | | | | | | | | | | | | | | | | |

*Activity durations are conservative estimates.

# Tank Blowdown SSM Emissions

**Targa Northern Delaware, LLC**

**Train 5**

| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Operating Pressure | Temperature | Mixture Vapor Pressure | Controlled ? | Control Device Type | Control Device | Mixture Btu/scf | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities | Mixture VOC wt% | Vented Emissions: VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | Flared Emissions: $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | | scf | scf | scf | lb/lb-mol | hours | activities / yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| TK-57010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.34 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.09 | 0.09 | 0 | 200 | 1 | 1 | 100 | 0.05 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-57020 | Amine Storage Tank | Amine | 4981.47 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 3.01 | 3.01 | 0 | 105.14 | 1 | 1 | 5 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-57030 | Glycol Storage Tank | Glycol | 1866.11 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 1.13 | 1.13 | 0 | 150.17 | 1 | 1 | 100 | 0.45 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-56300 | Amine Process Drain Tank | Amine | 623.76 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.38 | 0.38 | 0 | 105.14 | 1 | 1 | 5 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-56400 | Glycol Process Drain Sump | Glycol | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 150.17 | 1 | 1 | 100 | 0.03 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-56350 | Amine Area Sump | Amine | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 105.14 | 1 | 1 | 5 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-56450 | Glycol Area Sump | Glycol | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 150.17 | 1 | 1 | 100 | 0.03 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-56500 | Amine HMO Area Sump | Hot Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-56550 | CO2 Vent Stack Area Sump | Low C Acid Gas | 124.41 | 12.91 | 125 | - | N | N/A | N/A | - | 0 | 97.14 | 97.14 | 0 | 42.33 | 1 | 1 | 0.10 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 10.53 | <0.01 | 0.01 | <0.01 | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-56600 | Residue Compressor Area Sump | Lube Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-56750 | Cryo HMO Skid Drain Sump | Lube Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-56700 | Cryo / Refrig Area Sump | Lube Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-57700 | Methanol Storage Tank | Methanol | 221.17 | 12.91 | 125 | 4.05 | N | N/A | N/A | - | 0 | 54.23 | 54.23 | 0 | 32.04 | 1 | 1 | 100 | 4.58 | <0.01 | - | - | 4.58 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | **Train 5 Vented SSM** | | 5.36 | 2.68E-03 | 7.27E-04 | 3.64E-07 | 4.59 | 2.30E-03 | 10.53 | 5.27E-03 | 0.01 | 5.30E-06 | | | | | | | | | | | | | | | | | | |

*Activity durations are conservative estimates.

**Train 6**

| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Operating Pressure | Temperature | Mixture Vapor Pressure | Controlled ? | Control Device Type | Control Device | Mixture Btu/scf | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities | Mixture VOC wt% | Vented Emissions: VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | Flared Emissions: $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | | scf | scf | scf | lb/lb-mol | hours | activities / yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| TK-67010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.34 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.09 | 0.09 | 0 | 200 | 1 | 1 | 100 | 0.05 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-67000 | Flash Gas Compressor Lube Oil Storage Tank | Lube Oil | 152.34 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.09 | 0.09 | 0 | 200 | 1 | 1 | 100 | 0.05 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-66750 | Stabilizer Area Sump | Condensate | 124.41 | 12.91 | 125 | 6.80 | N | N/A | N/A | - | 0 | 51.16 | 51.16 | 0 | 93.55 | 1 | 1 | 95.46893 | 12.06 | <0.01 | - | - | 1.23 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-66800 | Stabilizer HMO Area Sump | Hot Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-66600 | Residue Compressor Area Sump | Lube Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-66850 | Flash Gas Compressor Area Sump | Lube Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-66700 | Cryo / Refrig Area Sump | Lube Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-67700 | Methanol Storage Tank | Methanol | 221.17 | 12.91 | 125 | 4.05 | N | N/A | N/A | - | 0 | 54.23 | 54.23 | 0 | 32.04 | 1 | 1 | 100 | 4.58 | <0.01 | - | - | 4.58 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | **Train 6 Vented SSM** | | 16.90 | 8.45E-03 | -- | -- | 5.82 | 2.91E-03 | -- | -- | -- | -- | | | | | | | | | | | | | | | | | | |

*Activity durations are conservative estimates.

**FET-1**

| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Operating Pressure | Temperature | Mixture Vapor Pressure | Controlled ? | Control Device Type | Control Device | Mixture Btu/scf | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities | Mixture VOC wt% | Vented Emissions: VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | Flared Emissions: $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | | scf | scf | scf | lb/lb-mol | hours | activities / yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| TK-6100, TK-6200 | Sour Slop Tank | Sour Water | 6584.17 | 13.41 | 125 | 0.71 | Y | Flare | RHA-FL-585 | 1020.00 | 98 | 281.08 | 0.00 | 281.0767 | 40.57669 | 1 | 1 | 8.85E-05 | - | - | - | - | - | - | - | - | - | - | 0.04 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 |
| TK-6300 | Amine Sump Tank | Amine | 623.76 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.38 | 0.38 | 0 | 105.14 | 1 | 1 | 5 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6400 | Glycol Sump Tank | Glycol | 110.58 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.07 | 0.07 | 0 | 150.17 | 1 | 1 | 100 | 0.03 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-7020 | Amine Storage Tank | Amine | 2488.14 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 1.50 | 1.50 | 0 | 105.14 | 1 | 1 | 5 | 0.02 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-7700 | Methanol Storage Tank | Methanol | 221.17 | 12.91 | 125 | 4.05 | N | N/A | N/A | - | 0 | 54.23 | 54.23 | 0 | 32.04 | 1 | 1 | 100 | 4.58 | <0.01 | - | - | 4.58 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-7710 | Methanol Storage Tank | Methanol | 221.17 | 12.91 | 125 | 4.05 | N | N/A | N/A | - | 0 | 54.23 | 54.23 | 0 | 32.04 | 1 | 1 | 100 | 4.58 | <0.01 | - | - | 4.58 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | **FET-1 Vented SSM** | | 9.22 | 4.61E-03 | -- | -- | 9.17 | 4.58E-03 | -- | -- | -- | -- | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | **RHA-FL-5850** | | | | | | | | | | | | 0.04 | 1.98E-05 | 0.16 | 7.88E-05 | 5.33E-07 | 2.66E-10 | 0.05 | 7.57E-03 | 5.49E-04 | 2.75E-07 | 5.02E-07 | 2.51E-10 | 0.07 | 3.46E-05 | 6.33E-08 | 3.17E-11 |

*Activity durations are conservative estimates.

**FET-2**

| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Operating Pressure | Temperature | Mixture Vapor Pressure | Controlled ? | Control Device Type | Control Device | Mixture Btu/scf | DRE (%) | Gas STD Volume at Operational Conditions | Volume to Atmosphere | Flared Volume | MW | Activity Duration | Annual Activities | Mixture VOC wt% | Vented Emissions: VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | Flared Emissions: $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $ft^3$ | psia | °F | psia | | | | | | scf | scf | scf | lb/lb-mol | hours | activities / yr | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| TK-27020 | Amine Storage Tank | Amine | 4981.47 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 3.01 | 3.01 | 0 | 105.14 | 1 | 1 | 5 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-27700 | Methanol Storage Tank | Methanol | 221.17 | 12.91 | 125 | 4.05 | N | N/A | N/A | - | 0 | 54.23 | 54.23 | 0 | 32.04 | 1 | 1 | 100 | 4.58 | <0.01 | - | - | 4.58 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-27710 | AGI Compressor Methanol Storage Tank | Methanol | 221.17 | 12.91 | 125 | 4.05 | N | N/A | N/A | - | 0 | 54.23 | 54.23 | 0 | 32.04 | 1 | 1 | 100 | 4.58 | <0.01 | - | - | 4.58 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-27000 | PAG ISO 100 Lube Oil Tank | Lube Oil | 152.05 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.09 | 0.09 | 0 | 200 | 1 | 1 | 100 | 0.05 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-27010 | PAG ISO 150 Lube Oil Tank | Lube Oil | 152.05 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.09 | 0.09 | 0 | 200 | 1 | 1 | 100 | 0.05 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-26100, TK-26200 | Sour Slop Tank | Sour Water | 6584.17 | 13.41 | 125 | 0.71 | Y | Flare | A2-FL-2585 | 1020.00 | 98 | 281.08 | 0.00 | 281.0767 | 40.57669 | 1 | 1 | 8.85E-05 | - | - | - | - | - | - | - | - | - | - | 0.04 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 |
| TK-26600 | AGI Compressor Area Sump | Lube Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-26850 | Flash Gas Compressor Area Sump | Lube Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-26500 | HMO Area Sump | Hot Oil | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 200 | 1 | 1 | 100 | 0.04 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-26350 | Amine Area Sump | Amine | 124.41 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.08 | 0.08 | 0 | 105.14 | 1 | 1 | 5 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-26300 | Amine Process Drain Tank | Amine | 623.76 | 12.91 | 125 | 0.01 | N | N/A | N/A | - | 0 | 0.38 | 0.38 | 0 | 105.14 | 1 | 1 | 5 | <0.01 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | **FET-2 Vented SSM** | | 9.43 | 4.72E-03 | -- | -- | 9.17 | 4.58E-03 | -- | -- | -- | -- | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | **RA2-FL-2585O** | | | | | | | | | | | | 0.04 | 1.98E-05 | 0.16 | 7.88E-05 | 5.33E-07 | 2.66E-10 | 0.05 | 7.57E-03 | 5.49E-04 | 2.75E-07 | 5.02E-07 | 2.51E-10 | 0.07 | 3.46E-05 | 6.33E-08 | 3.17E-11 |

*Activity durations are conservative estimates.

## Vented Equiment Blowdown Summary

| | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| **Train 1 Vented SSM** | 3.36 | <0.01 | -- | -- | 0.76 | <0.01 | -- | -- | -- | -- |
| **Train 2 Vented SSM** | 5.88 | <0.01 | <0.01 | <0.01 | 4.59 | <0.01 | 9.36 | <0.01 | <0.01 | <0.01 |
| **Train 3 Vented SSM** | 9.40 | <0.01 | <0.01 | <0.01 | 7.86 | <0.01 | 18.73 | <0.01 | 0.02 | <0.01 |
| **Train 4 Vented SSM** | 8.29 | <0.01 | <0.01 | <0.01 | 4.59 | <0.01 | 10.53 | <0.01 | 0.01 | <0.01 |
| **Train 5 Vented SSM** | 5.36 | <0.01 | <0.01 | <0.01 | 4.59 | <0.01 | 10.53 | <0.01 | 0.01 | <0.01 |
| **Train 6 Vented SSM** | 16.90 | <0.01 | -- | -- | 5.82 | <0.01 | -- | -- | -- | -- |
| **FET-1 Vented SSM** | 9.22 | <0.01 | -- | -- | 9.17 | <0.01 | -- | -- | -- | -- |
| **FET-2 Vented SSM** | 9.43 | <0.01 | -- | -- | 9.17 | <0.01 | -- | -- | -- | -- |

## Flared Equiment Blowdown Summary

| | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| **RHA-FL-5850** | 0.04 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 |
| **RH2-TO-5500** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RH4-TO-45500** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RH5-TO-55500** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Tank Startup SSM Emissions
**Targa Northern Delaware, LLC**

**Startup Calculation Basis:**

Emissions from maintenance activities are calculated using a three step pressurization, where equipment is blown down to check for leaks after pressurizing. The minimum of the vapor pressure or pressurization steps is used to determine the volume of gas or vapor vented to atmosphere or flare.
It is assumed that each maintenance activity occurs over 8 hours.

| | | |
|---|---|---|
| 1st Step Pressure | 50 | psig |
| 2nd Step Pressure | 150 | psig |
| 3rd Step Pressure | 300 | psig |

**Train 1**

| | | | | | | | | | | | | | | | | | | Vented Emissions | | | | | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Mixture Vapor Pressure | 1st Step Pressurization | 2nd Step Pressurization | 3rd Step Pressurization | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/yr | | | lb/hr | tpy | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| ST-U205 | Flash Gas Compressors Sump Tank | Lube Oil | 73.52430556 | 0.01 | 0.01 | 0.01 | 0.01 | 0.15 | 200 | 0.08 | 1.00 | 1.00 | 100.00 | - | 0.08 | <0.01 | N | N/A | N/A | - | 0.08 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| 33-909 | TEG Storage Tank | Glycol | 746.4424145 | 0.01 | 0.01 | 0.01 | 0.01 | 1.52 | 150 | 0.60 | 1.00 | 1.00 | 100.00 | - | 0.60 | <0.01 | N | N/A | N/A | - | 0.60 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| 33-906 | Amine Storage Tank | Amine | 746.4424145 | 0.01 | 0.01 | 0.01 | 0.01 | 1.52 | 105 | 0.42 | 1.00 | 1.00 | 5.00 | - | 0.02 | <0.01 | N | N/A | N/A | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| 33-515 | Expander Methanol Tank | Methanol | 36.76215278 | 4.05 | 0.01 | 0.01 | 0.01 | 0.08 | 32 | 0.01 | 1.00 | 1.00 | 100.00 | - | <0.01 | <0.01 | N | N/A | N/A | - | <0.01 | <0.01 | - | - | <0.01 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| 33-905 | Hot Oil Storage Tank | Hot Oil | 746.4424145 | 0.01 | 0.01 | 0.01 | 0.01 | 1.52 | 200 | 0.80 | 1.00 | 1.00 | 100.00 | - | 0.80 | <0.01 | N | N/A | N/A | - | 0.80 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-XXXX | Open Drain Storage Tank | Lube Oil | 6641.955188 | 0.01 | 0.01 | 0.01 | 0.01 | 13.56 | 200 | 7.15 | 1.00 | 1.00 | 100.00 | - | 7.15 | <0.01 | N | N/A | N/A | - | 7.15 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| 33-1601 | PSV-1601 Relief Knock-Out | Hot Oil | 89.34108639 | 0.01 | 0.01 | 0.01 | 0.01 | 0.18 | 200 | 0.10 | 1.00 | 1.00 | 100.00 | - | 0.10 | <0.01 | N | N/A | N/A | - | 0.10 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| K-20103, TK-201 | Condensate Tank | Condensate | 19925.86556 | 6.80 | 0.01 | 0.01 | 0.01 | 40.68 | 94 | 10.04 | 1.00 | 1.00 | 95.47 | 3394.62 | 9.58 | <0.01 | Y | Flare | H1-FL-285 | 98.00 | | | - | - | - | - | - | - | - | - | 0.02 | <0.01 | 0.08 | <0.01 | 0.19 | <0.01 | - | - | - | - | 0.02 | <0.01 | - | - | - | - |
| K-20109, TK-201 | Condensate Tank | Condensate | 19925.86556 | 6.80 | 0.01 | 0.01 | 0.01 | 40.68 | 94 | 10.04 | 1.00 | 1.00 | 95.47 | 3394.62 | 9.58 | <0.01 | Y | Flare | H1-FL-285 | 98.00 | - | - | - | - | - | - | - | - | - | - | 0.02 | <0.01 | 0.08 | <0.01 | 0.19 | <0.01 | - | - | - | - | 0.02 | <0.01 | - | - | - | - |
| *Activity durations are conservative estimates. | | | | | | | | | | | | | | | | | | | | | **Train 1 Vented SSM** | | 8.77 | 4.38E-03 | -- | -- | 6.34E-03 | 3.17E-06 | -- | -- | -- | -- | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | **RH1-FL-2850** | | | | | | | | | | | | | 0.04 | 1.91E-05 | 0.15 | 7.59E-05 | 0.38 | 1.92E-04 | -- | -- | -- | -- | 0.04 | 1.96E-05 | -- | -- | -- | -- | | |

**Train 2**

| | | | | | | | | | | | | | | | | | | Vented Emissions | | | | | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Mixture Vapor Pressure | 1st Step Pressurization | 2nd Step Pressurization | 3rd Step Pressurization | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/yr | | | lb/hr | tpy | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| TK-6200 | Slop Tank | Lube Oil | 2488.141382 | 0.01 | 0.01 | 0.01 | 0.01 | 5.08 | 200 | 2.68 | 1.00 | 1.00 | 100.00 | - | 2.68 | <0.01 | N | N/A | N/A | - | 2.68 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-7020 | Amine Storage Tank | Amine | 2488.141382 | 0.01 | 0.01 | 0.01 | 0.01 | 5.08 | 105 | 1.41 | 1.00 | 1.00 | 5.00 | - | 0.07 | <0.01 | N | N/A | N/A | - | 0.07 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-7030 | TEG Storage Tank | Glycol | 935.6448321 | 0.01 | 0.01 | 0.01 | 0.01 | 1.91 | 150 | 0.76 | 1.00 | 1.00 | 100.00 | - | 0.76 | <0.01 | N | N/A | N/A | - | 0.76 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6300 | Amine Sump Tank | Amine | 623.7632214 | 0.01 | 0.01 | 0.01 | 0.01 | 1.27 | 105 | 0.35 | 1.00 | 1.00 | 5.00 | - | 0.02 | <0.01 | N | N/A | N/A | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-7700 | Methanol Storage Tank | Methanol | 221.1681228 | 4.05 | 0.01 | 0.01 | 0.01 | 0.45 | 32 | 0.04 | 1.00 | 1.00 | 100.00 | - | 0.04 | <0.01 | N | N/A | N/A | - | 0.04 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-7010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.3410638 | 0.01 | 0.01 | 0.01 | 0.01 | 0.31 | 200 | 0.16 | 1.00 | 1.00 | 100.00 | - | 0.16 | <0.01 | N | N/A | N/A | - | 0.16 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6400 | Glycol Sump Tank | Glycol | 110.5840614 | 0.01 | 0.01 | 0.01 | 0.01 | 0.23 | 150 | 0.09 | 1.00 | 1.00 | 100.00 | - | 0.09 | <0.01 | N | N/A | N/A | - | 0.09 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6350 | Amine Skid Drain Sump | Amine | 110.5840614 | 0.01 | 0.01 | 0.01 | 0.01 | 0.23 | 105 | 0.06 | 1.00 | 1.00 | 5.00 | - | <0.01 | <0.01 | N | N/A | N/A | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6450 | Glycol Skid Drain Sump | Glycol | 110.5840614 | 0.01 | 0.01 | 0.01 | 0.01 | 0.23 | 150 | 0.09 | 1.00 | 1.00 | 100.00 | - | 0.09 | <0.01 | N | N/A | N/A | - | 0.09 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6500 | Hot Oil Skid Drain Sump | Hot Oil | 110.5840614 | 0.01 | 0.01 | 0.01 | 0.01 | 0.23 | 200 | 0.12 | 1.00 | 1.00 | 100.00 | - | 0.12 | <0.01 | N | N/A | N/A | - | 0.12 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6550 | CO2 Vent Stack Drain Sump | Low C Acid Gas | 110.5840614 | - | 0.01 | 0.01 | 0.01 | 0.23 | 42 | 0.03 | 1.00 | 1.00 | 0.10 | - | <0.01 | <0.01 | N | N/A | N/A | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6600 | Residue Compressor Drain Sump | Lube Oil | 110.5840614 | 0.01 | 0.01 | 0.01 | 0.01 | 0.23 | 200 | 0.12 | 1.00 | 1.00 | 100.00 | - | 0.12 | <0.01 | N | N/A | N/A | - | 0.12 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6650 | IA Compressor Drain Sump | Lube Oil | 110.5840614 | 0.01 | 0.01 | 0.01 | 0.01 | 0.23 | 200 | 0.12 | 1.00 | 1.00 | 100.00 | - | 0.12 | <0.01 | N | N/A | N/A | - | 0.12 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6700 | Cryo Refrig Skid Drain Sump | Lube Oil | 110.5840614 | 0.01 | 0.01 | 0.01 | 0.01 | 0.23 | 200 | 0.12 | 1.00 | 1.00 | 100.00 | - | 0.12 | <0.01 | N | N/A | N/A | - | 0.12 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| *Activity durations are conservative estimates. | | | | | | | | | | | | | | | | | | | | | **Train 2 Vented SSM** | | 4.39 | 2.19E-03 | 1.69E-06 | 8.45E-10 | 0.04 | 1.91E-05 | 0.02 | 1.22E-05 | 2.47E-05 | 1.23E-08 | | | | | | | | | | | | | | | | | | |

**Train 3**

| | | | | | | | | | | | | | | | | | | Vented Emissions | | | | | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Mixture Vapor Pressure | 1st Step Pressurization | 2nd Step Pressurization | 3rd Step Pressurization | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/yr | | | lb/hr | tpy | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| TK-6600 | Residue Compressor Drain Sump | Lube Oil | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 200 | 0.13 | 1.00 | 1.00 | 100.00 | - | 0.13 | <0.01 | N | N/A | N/A | - | 0.13 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-6700 | Cryo Refrig Skid Drain Sump | Lube Oil | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 200 | 0.13 | 1.00 | 1.00 | 100.00 | - | 0.13 | <0.01 | N | N/A | N/A | - | 0.13 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-7700 | Methanol Storage Tank | Methanol | 157.4526968 | 4.05 | 0.01 | 0.01 | 0.01 | 0.32 | 32 | 0.03 | 1.00 | 1.00 | 100.00 | - | 0.03 | <0.01 | N | N/A | N/A | - | 0.03 | <0.01 | - | - | 0.03 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| *Activity durations are conservative estimates. | | | | | | | | | | | | | | | | | | | | | **Train 3 Vented SSM** | | 0.30 | 1.48E-04 | -- | -- | 0.03 | 1.36E-05 | -- | -- | -- | -- | | | | | | | | | | | | | | | | | | |

**Train 4**

| | | | | | | | | | | | | | | | | | | Vented Emissions | | | | | | | | | | | | | | Flared Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Mixture Vapor Pressure | 1st Step Pressurization | 2nd Step Pressurization | 3rd Step Pressurization | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/yr | | | lb/hr | tpy | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| K-46210, TK-462 | Slop Tank | Lube Oil | 9952.565527 | 0.01 | 0.01 | 0.01 | 0.01 | 20.32 | 200 | 10.72 | 1.00 | 1.00 | 100.00 | - | 10.72 | <0.01 | N | N/A | N/A | - | 10.72 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-47010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.3410638 | 0.01 | 0.01 | 0.01 | 0.01 | 0.31 | 200 | 0.16 | 1.00 | 1.00 | 100.00 | - | 0.16 | <0.01 | N | N/A | N/A | - | 0.16 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-47020 | Amine Storage Tank | Amine | 2488.141382 | 0.01 | 0.01 | 0.01 | 0.01 | 5.08 | 105 | 1.41 | 1.00 | 1.00 | 5.00 | - | 0.07 | <0.01 | N | N/A | N/A | - | 0.07 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-47030 | TEG Storage Tank | Glycol | 935.6448321 | 0.01 | 0.01 | 0.01 | 0.01 | 1.91 | 150 | 0.76 | 1.00 | 1.00 | 100.00 | - | 0.76 | <0.01 | N | N/A | N/A | - | 0.76 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46300 | Amine Process Drain Tank | Amine | 623.7632214 | 0.01 | 0.01 | 0.01 | 0.01 | 1.27 | 105 | 0.35 | 1.00 | 1.00 | 5.00 | - | 0.02 | <0.01 | N | N/A | N/A | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46400 | Glycol Process Drain Sump | Glycol | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 150 | 0.10 | 1.00 | 1.00 | 100.00 | - | 0.10 | <0.01 | N | N/A | N/A | - | 0.10 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46350 | Amine Area Sump | Amine | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 105 | 0.07 | 1.00 | 1.00 | 5.00 | - | <0.01 | <0.01 | N | N/A | N/A | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46450 | Glycol Area Sump | Glycol | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 150 | 0.10 | 1.00 | 1.00 | 100.00 | - | 0.10 | <0.01 | N | N/A | N/A | - | 0.10 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46500 | Amine HMO Area Sump | Hot Oil | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 200 | 0.13 | 1.00 | 1.00 | 100.00 | - | 0.13 | <0.01 | N | N/A | N/A | - | 0.13 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46550 | CO2 Vent Stack Area Sump | Low C Acid Gas | 124.4070691 | - | 0.01 | 0.01 | 0.01 | 0.25 | 42 | 0.03 | 1.00 | 1.00 | 0.10 | - | <0.01 | <0.01 | N | N/A | N/A | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46600 | Residue Compressor Area Sump | Lube Oil | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 200 | 0.13 | 1.00 | 1.00 | 100.00 | - | 0.13 | <0.01 | N | N/A | N/A | - | 0.13 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46750 | Cryo HMO Skid Drain Sump | Lube Oil | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 200 | 0.13 | 1.00 | 1.00 | 100.00 | - | 0.13 | <0.01 | N | N/A | N/A | - | 0.13 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-46700 | Cryo / Refrig Area Sump | Lube Oil | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 200 | 0.13 | 1.00 | 1.00 | 100.00 | - | 0.13 | <0.01 | N | N/A | N/A | - | 0.13 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-47700 | Methanol Storage Tank | Methanol | 221.1681228 | 4.05 | 0.01 | 0.01 | 0.01 | 0.45 | 32 | 0.04 | 1.00 | 1.00 | 100.00 | - | 0.04 | <0.01 | N | N/A | N/A | - | 0.04 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - | - | - |
| *Activity durations are conservative estimates. | | | | | | | | | | | | | | | | | | | | | **Train 4 Vented SSM** | | 12.51 | 6.25E-03 | 1.90E-06 | 9.51E-10 | 0.04 | 1.91E-05 | 0.03 | 1.38E-05 | 2.77E-05 | 1.39E-08 | | | | | | | | | | | | | | | | | | |

# Tank Startup SSM Emissions

**Targa Northern Delaware, LLC**

**Train 5**

| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Mixture Vapor Pressure | 1st Step Pressurization | 2nd Step Pressurization | 3rd Step Pressurization | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/yr | | | lb/hr | tpy | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| TK-57010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.3410638 | 0.01 | 0.01 | 0.01 | 0.01 | 0.31 | 200 | 0.16 | 1.00 | 1.00 | 100.00 | - | 0.16 | <0.01 | N | N/A | N/A | - | 0.16 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-57020 | Amine Storage Tank | Amine | 4981.466391 | 0.01 | 0.01 | 0.01 | 0.01 | 10.17 | 105 | 2.82 | 1.00 | 1.00 | 5.00 | - | 0.14 | <0.01 | N | N/A | N/A | - | 0.14 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-57030 | Glycol Storage Tank | Glycol | 1866.106036 | 0.01 | 0.01 | 0.01 | 0.01 | 3.81 | 150 | 1.51 | 1.00 | 1.00 | 100.00 | - | 1.51 | <0.01 | N | N/A | N/A | - | 1.51 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-56300 | Amine Process Drain Tank | Amine | 623.7632214 | 0.01 | 0.01 | 0.01 | 0.01 | 1.27 | 105 | 0.35 | 1.00 | 1.00 | 5.00 | - | 0.02 | <0.01 | N | N/A | N/A | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-56400 | Glycol Process Drain Sump | Glycol | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 150 | 0.10 | 1.00 | 1.00 | 100.00 | - | 0.10 | <0.01 | N | N/A | N/A | - | 0.10 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-56350 | Amine Area Sump | Amine | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 105 | 0.07 | 1.00 | 1.00 | 5.00 | - | <0.01 | <0.01 | N | N/A | N/A | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-56450 | Glycol Area Sump | Glycol | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 150 | 0.10 | 1.00 | 1.00 | 100.00 | - | 0.10 | <0.01 | N | N/A | N/A | - | 0.10 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-56500 | Amine HMO Area Sump | Hot Oil | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 200 | 0.13 | 1.00 | 1.00 | 100.00 | - | 0.13 | <0.01 | N | N/A | N/A | - | 0.13 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-56550 | CO2 Vent Stack Area Sump | Low C Acid Gas | 124.4070691 | - | 0.01 | 0.01 | 0.01 | 0.25 | 42 | 0.03 | 1.00 | 1.00 | 0.10 | - | <0.01 | <0.01 | N | N/A | N/A | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-56600 | Residue Compressor Area Sump | Lube Oil | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 200 | 0.13 | 1.00 | 1.00 | 100.00 | - | 0.13 | <0.01 | N | N/A | N/A | - | 0.13 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-56750 | Cryo HMO Skid Drain Sump | Lube Oil | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 200 | 0.13 | 1.00 | 1.00 | 100.00 | - | 0.13 | <0.01 | N | N/A | N/A | - | 0.13 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-56700 | Cryo / Refrig Area Sump | Lube Oil | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 200 | 0.13 | 1.00 | 1.00 | 100.00 | - | 0.13 | <0.01 | N | N/A | N/A | - | 0.13 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-57700 | Methanol Storage Tank | Methanol | 221.1681228 | 4.05 | 0.01 | 0.01 | 0.01 | 0.45 | 32 | 0.04 | 1.00 | 1.00 | 100.00 | - | 0.04 | <0.01 | N | N/A | N/A | - | 0.04 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| *Activity durations are conservative estimates. | | | | | | | | | | | | | | | | | | | **Train 5 Vented SSM** | | 2.61 | 1.31E-03 | 1.90E-06 | 9.51E-10 | 0.04 | 1.91E-05 | 0.03 | 1.38E-05 | 2.77E-05 | 1.39E-08 | | | | | | | | | | | | | | | | |

**Train 6**

| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Mixture Vapor Pressure | 1st Step Pressurization | 2nd Step Pressurization | 3rd Step Pressurization | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/yr | | | lb/hr | tpy | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| TK-67010 | Residue Compressor Lube Oil Storage Tank | Lube Oil | 152.3410638 | 0.01 | 0.01 | 0.01 | 0.01 | 0.31 | 200 | 0.16 | 1.00 | 1.00 | 100.00 | - | 0.16 | <0.01 | N | N/A | N/A | - | 0.16 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-67000 | Flash Gas Compressor Lube Oil Storage Tank | Lube Oil | 152.3410638 | 0.01 | 0.01 | 0.01 | 0.01 | 0.31 | 200 | 0.16 | 1.00 | 1.00 | 100.00 | - | 0.16 | <0.01 | N | N/A | N/A | - | 0.16 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-66750 | Stabilizer Area Sump | Condensate | 124.4070691 | 6.80 | 0.01 | 0.01 | 0.01 | 0.25 | 94 | 0.06 | 1.00 | 1.00 | 95.47 | - | 0.06 | <0.01 | N | N/A | N/A | - | 0.06 | <0.01 | - | - | <0.01 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-66800 | Stabilizer HMO Area Sump | Hot Oil | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 200 | 0.13 | 1.00 | 1.00 | 100.00 | - | 0.13 | <0.01 | N | N/A | N/A | - | 0.13 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-66600 | Residue Compressor Area Sump | Lube Oil | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 200 | 0.13 | 1.00 | 1.00 | 100.00 | - | 0.13 | <0.01 | N | N/A | N/A | - | 0.13 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-66850 | Flash Gas Compressor Area Sump | Lube Oil | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 200 | 0.13 | 1.00 | 1.00 | 100.00 | - | 0.13 | <0.01 | N | N/A | N/A | - | 0.13 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-66700 | Cryo / Refrig Area Sump | Lube Oil | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 200 | 0.13 | 1.00 | 1.00 | 100.00 | - | 0.13 | <0.01 | N | N/A | N/A | - | 0.13 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-67700 | Methanol Storage Tank | Methanol | 221.1681228 | 4.05 | 0.01 | 0.01 | 0.01 | 0.45 | 32 | 0.04 | 1.00 | 1.00 | 100.00 | - | 0.04 | <0.01 | N | N/A | N/A | - | 0.04 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| *Activity durations are conservative estimates. | | | | | | | | | | | | | | | | | | | **Train 6 Vented SSM** | | 0.96 | 4.81E-04 | -- | -- | 0.04 | 2.21E-05 | -- | -- | -- | -- | | | | | | | | | | | | | | | | |

**FET-1**

| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Mixture Vapor Pressure | 1st Step Pressurization | 2nd Step Pressurization | 3rd Step Pressurization | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/yr | | | lb/hr | tpy | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| TK-6100, TK-620 | Sour Slop Tank | Sour Water | 6584.167337 | 0.71 | 0.01 | 0.01 | 0.01 | 13.44 | 41 | 1.44 | 1.00 | 1.00 | 0.00 | 1020.00 | <0.01 | <0.01 | Y | Flare | HA-FL-585 | 98.00 | - | - | - | - | - | - | - | - | - | - | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| TK-6300 | Amine Sump Tank | Amine | 623.7632214 | 0.01 | 0.01 | 0.01 | 0.01 | 1.27 | 105 | 0.35 | 1.00 | 1.00 | 5.00 | - | 0.02 | <0.01 | N | N/A | N/A | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-6400 | Glycol Sump Tank | Glycol | 110.5840614 | 0.01 | 0.01 | 0.01 | 0.01 | 0.23 | 150 | 0.09 | 1.00 | 1.00 | 100.00 | - | 0.09 | <0.01 | N | N/A | N/A | - | 0.09 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-7020 | Amine Storage Tank | Amine | 2488.141382 | 0.01 | 0.01 | 0.01 | 0.01 | 5.08 | 105 | 1.41 | 1.00 | 1.00 | 5.00 | - | 0.07 | <0.01 | N | N/A | N/A | - | 0.07 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-7700 | Methanol Storage Tank | Methanol | 221.1681228 | 4.05 | 0.01 | 0.01 | 0.01 | 0.45 | 32 | 0.04 | 1.00 | 1.00 | 100.00 | - | 0.04 | <0.01 | N | N/A | N/A | - | 0.04 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-7710 | Methanol Storage Tank | Methanol | 221.1681228 | 4.05 | 0.01 | 0.01 | 0.01 | 0.45 | 32 | 0.04 | 1.00 | 1.00 | 100.00 | - | 0.04 | <0.01 | N | N/A | N/A | - | 0.04 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| *Activity durations are conservative estimates. | | | | | | | | | | | | | | | | | | | **FET-1 Vented SSM** | | 0.25 | 1.27E-04 | -- | -- | 0.08 | 3.82E-05 | -- | -- | -- | -- | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | **RHA-FL-5850** | | | | | | | | | | | | | | | | | | 1.89E-03 | 9.46E-07 | 7.53E-03 | 3.77E-06 | 2.55E-08 | 1.27E-11 | 2.42E-03 | 1.21E-06 | 2.63E-05 | 1.31E-08 | 2.40E-08 | 1.20E-11 | 3.31E-03 | 1.65E-06 | 3.03E-09 | 1.51E-12 |

**FET-2**

| Equipment ID | Equipment Description | Service [1] | Equipment Volume | Mixture Vapor Pressure | 1st Step Pressurization | 2nd Step Pressurization | 3rd Step Pressurization | Startup Volume | Mixture MW | Total Emissions | Activity Duration | Annual Activities | Mixture VOC wt% | Mixture Btu/scf | Uncontrolled VOC Emissions | | Flared? | Control Device Type | Control Device | DRE (%) | Vented Emissions | | | | | | | | | | Flared Emissions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
| | | | $ft^3$ | psia | psia | psia | psia | scf | lb/lb-mol | lb/activity | hours | activities/yr | | | lb/hr | tpy | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| TK-27020 | Amine Storage Tank | Amine | 4981.466391 | 0.01 | 0.01 | 0.01 | 0.01 | 10.17 | 105 | 2.82 | 1.00 | 1.00 | 5.00 | - | 0.14 | <0.01 | N | N/A | N/A | - | 0.14 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-27700 | Methanol Storage Tank | Methanol | 221.1681228 | 4.05 | 0.01 | 0.01 | 0.01 | 0.45 | 32 | 0.04 | 1.00 | 1.00 | 100.00 | - | 0.04 | <0.01 | N | N/A | N/A | - | 0.04 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-27710 | AGI Compressor Methanol Storage Tank | Methanol | 221.1681228 | 4.05 | 0.01 | 0.01 | 0.01 | 0.45 | 32 | 0.04 | 1.00 | 1.00 | 100.00 | - | 0.04 | <0.01 | N | N/A | N/A | - | 0.04 | <0.01 | - | - | 0.04 | <0.01 | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-27000 | PAG ISO 100 Lube Oil Tank | Lube Oil | 152.0530844 | 0.01 | 0.01 | 0.01 | 0.01 | 0.31 | 200 | 0.16 | 1.00 | 1.00 | 100.00 | - | 0.16 | <0.01 | N | N/A | N/A | - | 0.16 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-27010 | PAG ISO 150 Lube Oil Tank | Lube Oil | 152.0530844 | 0.01 | 0.01 | 0.01 | 0.01 | 0.31 | 200 | 0.16 | 1.00 | 1.00 | 100.00 | - | 0.16 | <0.01 | N | N/A | N/A | - | 0.16 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| K-26100, TK-262 | Sour Slop Tank | Sour Water | 6584.167337 | 0.71 | 1.01 | 1.01 | 1.01 | 1357.51 | 41 | 145.34 | 1.00 | 1.00 | 0.00 | 1020.00 | <0.01 | <0.01 | Y | Flare | A2-FL-258 | 98.00 | - | - | - | - | - | - | - | - | - | - | 0.19 | <0.01 | 0.76 | <0.01 | <0.01 | <0.01 | 0.24 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.33 | <0.01 | <0.01 | <0.01 |
| TK-26600 | AGI Compressor Area Sump | Lube Oil | 124.4070691 | 0.01 | 2.01 | 2.01 | 2.01 | 51.05 | 200 | 26.94 | 1.00 | 1.00 | 100.00 | - | 26.94 | 0.01 | N | N/A | N/A | - | 26.94 | 0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-26850 | Flash Gas Compressor Area Sump | Lube Oil | 124.4070691 | 0.01 | 3.01 | 3.01 | 3.01 | 76.44 | 200 | 40.34 | 1.00 | 1.00 | 100.00 | - | 40.34 | 0.02 | N | N/A | N/A | - | 40.34 | 0.02 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-26500 | HMO Area Sump | Hot Oil | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 200 | 0.13 | 1.00 | 1.00 | 100.00 | - | 0.13 | <0.01 | N | N/A | N/A | - | 0.13 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-26350 | Amine Area Sump | Amine | 124.4070691 | 0.01 | 0.01 | 0.01 | 0.01 | 0.25 | 105 | 0.07 | 1.00 | 1.00 | 5.00 | - | <0.01 | <0.01 | N | N/A | N/A | - | <0.01 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| TK-26300 | Amine Process Drain Tank | Amine | 623.7632214 | 0.01 | 0.01 | 0.01 | 0.01 | 1.27 | 105 | 0.35 | 1.00 | 1.00 | 5.00 | - | 0.02 | <0.01 | N | N/A | N/A | - | 0.02 | <0.01 | - | - | - | - | - | - | - | - | -- | -- | -- | -- | - | - | - | - | - | - | - | - | - | - |
| *Activity durations are conservative estimates. | | | | | | | | | | | | | | | | | | | **FET-2 Vented SSM** | | 67.98 | 0.03 | -- | -- | 0.08 | 3.82E-05 | -- | -- | -- | -- | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | **RA2-FL-25850** | | | | | | | | | | | | | | | | | | 0.19 | 9.55E-05 | 0.76 | 3.81E-04 | 2.57E-06 | 1.29E-09 | 0.24 | 1.22E-04 | 2.65E-03 | 1.33E-06 | 2.43E-06 | 1.21E-09 | 0.33 | 1.67E-04 | 3.06E-07 | 1.53E-10 |

**Vented Equiment Blowdown Summary**

| | VOC Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| **Train 1 Vented SSM** | 8.77 | <0.01 | -- | -- | <0.01 | <0.01 | -- | -- | -- | -- |
| **Train 2 Vented SSM** | 4.39 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| **Train 3 Vented SSM** | 0.30 | <0.01 | -- | -- | 0.03 | <0.01 | -- | -- | -- | -- |
| **Train 4 Vented SSM** | 12.51 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 |
| **Train 5 Vented SSM** | 2.61 | <0.01 | <0.01 | <0.01 | 0.04 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 |
| **Train 6 Vented SSM** | 0.96 | <0.01 | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- |
| **FET-1 Vented SSM** | 0.25 | <0.01 | -- | -- | 0.08 | <0.01 | -- | -- | -- | -- |
| **FET-2 Vented SSM** | 67.98 | 0.03 | -- | -- | 0.08 | <0.01 | -- | -- | -- | -- |

**Flared Equiment Blowdown Summary**

| | $NO_x$ Emissions | | CO Emissions | | VOC Emissions | | $SO_2$ Emissions | | $H_2S$ Emissions | | HAP Emissions | | $CO_2$ Emissions | | $CH_4$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| **RH1-FL-29-1003** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RH2-FL-5100** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RH3-FL-5100** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RH4-FL-45100** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RH5-FL-55100** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RHA-FL-5100** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RA2-FL-25100** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RH1-FL-2850** | 0.04 | <0.01 | 0.15 | <0.01 | 0.38 | <0.01 | -- | -- | -- | -- | 0.04 | <0.01 | -- | -- | -- | -- |
| **RHA-FL-5850** | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| **RA2-FL-25850** | 0.19 | <0.01 | 0.76 | <0.01 | <0.01 | <0.01 | 0.24 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.33 | <0.01 | <0.01 | <0.01 |
| **RH2-TO-5500** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RH4-TO-45500** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **RH5-TO-55500** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Residue Gas Flaring Emissions

**Targa Northern Delaware, LLC**

**Train 1 Residue Gas Flaring: RH1-FL-29-1003**

**Input Data**

| | Residue Gas | |
|---|---|---|
| **Net HV** | 958 | Btu/scf |
| **Residue Gas Flow Rate** | 3.13 | MMscf/hr |
| **Duration of Flaring Event** | 60 | min/event |
| **Number of Events per Hour** | 1 | event/hr |
| **Estimated Annual Frequency** | 12 | events/yr |
| **Residue Gas Flow Rate** | 3,125,000 | scf/event |
| | 38 | MMscf/yr |
| **Heat Rate** | 2,994.16 | MMBtu/event |
| | 35,929.88 | MMBtu/year |
| **Safety Factor** | 10% | |

**Residue Gas - $NO_x$, CO, and $SO_2$**

| Compound | Flare Emission Factors | | | Flare Emissions | |
|---|---|---|---|---|---|
| | Value | Unit | Reference | lbs/hr[2] | tons/yr[3] |
| $NO_x$ | 0.0641 | lb/MMBtu | TCEQ [1] | 211.12 | 1.27 |
| CO | 0.5496 | lb/MMBtu | TCEQ [1] | 1,810.15 | 10.86 |
| $SO_2$ | 0.6 | lb/MMscf | AP-42 [1] | 1.88 | 1.13E-02 |

**Residue Gas - GHGs**

**Natural Gas Combustion Greenhouse Gas Emission Factors**

| Units[12] | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$[17] |
|---|---|---|---|---|
| kg/MMBtu | 53.06 | 1.0E-03 | 1.0E-04 | - |
| Global Warming Potential (GWP) [13] | 1 | 28 | 265 | - |
| lb/MMBtu [14] | 116.98 | 2.20E-03 | 2.20E-04 | - |
| Flare Emissions (lb/hr)[15] | 350,256 | 6.59 | 0.66 | 350,615 |
| Flare Emissions (tpy)[16] | 2,101.54 | 0.04 | 3.95E-03 | 2103.69 |

*The calculations for residue gas use a representative composition of residue gas and a representative flow rate. Due to variability of the composition of this gas, a 10% safety factor was applied to both the hourly and annual NOx, CO, VOC, and HAP emissions. Sulfur content in the gas is assumed to be constant; therefore, no safety was applied to $SO_2$ emissions.*

**Residue Gas - VOC and $H_2S$**

| Compound | Composition [6] | MW | DRE [7] | Gas Vented to Flare [8,9] | | Controlled Emissions [9,10] | |
|---|---|---|---|---|---|---|---|
| | (Mole %) | (lb/lb-mole) | (%) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| Carbon Dioxide | 0.22% | 44.00 | 0% | 782.61 | 4.70 | 782.61 | 4.70 |
| Hydrogen Sulfide | 0.00% | 34.08 | 98% | 1.12 | 6.74E-03 | 0.022 | 1.35E-04 |
| Nitrogen | 2.81% | 28.00 | 0% | 6472.00 | 38.83 | 6472.00 | 38.83 |
| methane | 86.57% | 16.00 | 98% | 114051.38 | 684.31 | 2281.03 | 13.69 |
| ethane | 10.36% | 30.07 | 98% | 25642.70 | 153.86 | 512.85 | 3.08 |
| propane | 0.06% | 44.10 | 98% | 199.71 | 1.20 | 3.99 | 0.02 |
| i-butane | 0.00% | 58.12 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| N-butane | 0.00% | 58.12 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| i-pentane | 0.00% | 72.15 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-pentane | 0.00% | 72.15 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| cyclopentane | 0.00% | 70.10 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-hexane | 0.00% | 86.18 | 98% | 7.10 | 0.04 | 0.14 | 8.52E-04 |
| cyclohexane | 0.00% | 84.16 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| other hexanes | 0.00% | 86.18 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| heptanes | 0.00% | 100.21 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Methylcyclohexane | 0.00% | 98.18 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2,2,4-trimethylpentane | 0.00% | 114.23 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| benzene | 0.00% | 78.11 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| toluene | 0.00% | 92.14 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| ethylbenzene | 0.00% | 106.17 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| xylenes | 0.00% | 106.16 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| octanes | 0.00% | 114.23 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| nonanes | 0.00% | 128.26 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| decanes | 0.00% | 142.29 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| C11 | 0.00% | 156.31 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| C12+ | 0.00% | 170.34 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Diethanolamine | 0.00% | 105.14 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| VOC [11] | 0.06% | | | 227.49 | 1.36 | 4.55 | 0.03 |
| Total HAPs | 0.00% | | | 7.81 | 0.05 | 0.16 | 0.00 |
| Hydrogen Sulfide | 0.00% | | | 1.12 | 0.01 | 0.022 | 1.35E-04 |

# Residue Gas Flaring Emissions

**Targa Northern Delaware, LLC**

**Train 2 Residue Gas Flaring: RH2-FL-5100**

**Input Data**

| | Residue Gas | |
|---|---|---|
| **Net HV** | 958 | Btu/scf |
| **Residue Gas Flow Rate** | 8.33 | MMscf/hr |
| **Duration of Flaring Event** | 60 | min/event |
| **Number of Events per Hour** | 1 | event/hr |
| **Estimated Annual Frequency** | 12 | events/yr |
| **Residue Gas Flow Rate** | 8,333,333 | scf/event |
| | 100 | MMscf/yr |
| **Heat Rate** | 7,984.42 | MMBtu/event |
| | 95,813.00 | MMBtu/year |
| **Safety Factor** | 10% | |

**Residue Gas - $NO_X$, CO, and $SO_2$**

| Compound | Flare Emission Factors | | | Flare Emissions | |
|---|---|---|---|---|---|
| | Value | Unit | Reference | lbs/hr[2] | tons/yr[3] |
| $NO_X$ | 0.0641 | lb/MMBtu | TCEQ [1] | 562.98 | 3.38 |
| CO | 0.5496 | lb/MMBtu | TCEQ [1] | 4,827.06 | 28.96 |
| $SO_2$ | 0.6 | lb/MMscf | AP-42 [1] | 5.00 | 0.03 |

**Residue Gas - GHGs**

**Natural Gas Combustion Greenhouse Gas Emission Factors**

| Units[12] | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$[17] |
|---|---|---|---|---|
| kg/MMBtu | 53.06 | 1.0E-03 | 1.0E-04 | - |
| Global Warming Potential (GWP) [13] | 1 | 28 | 265 | - |
| lb/MMBtu [14] | 116.98 | 2.20E-03 | 2.20E-04 | - |
| Flare Emissions (lb/hr)[15] | 934,017 | 17.57 | 1.76 | 934,974 |
| Flare Emissions (tpy)[16] | 5,604.10 | 0.11 | 0.011 | 5609.85 |

*The calculations for residue gas use a representative composition of residue gas and a representative flow rate. Due to variability of the composition of this gas, a 10% safety factor was applied to both the hourly and annual NOx, CO, VOC, and HAP emissions. Sulfur content in the gas is assumed to be constant; therefore, no safety was applied to SO2 emissions.*

**Residue Gas - VOC and $H_2S$**

| Compound | Composition [6] | MW | DRE [7] | Gas Vented to Flare [8,9] | | Controlled Emissions [9,10] | |
|---|---|---|---|---|---|---|---|
| | (Mole %) | (lb/lb-mole) | (%) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| Carbon Dioxide | 0.22% | 44.00 | 0% | 2086.96 | 12.52 | 2086.96 | 12.52 |
| Hydrogen Sulfide | 0.00% | 34.08 | 98% | 2.99 | 0.02 | 0.06 | 3.59E-04 |
| Nitrogen | 2.81% | 28.00 | 0% | 17258.67 | 103.55 | 17258.67 | 103.55 |
| methane | 86.57% | 16.00 | 98% | 304137.02 | 1824.82 | 6082.74 | 36.50 |
| ethane | 10.36% | 30.07 | 98% | 68380.53 | 410.28 | 1367.61 | 8.21 |
| propane | 0.06% | 44.10 | 98% | 532.56 | 3.20 | 10.65 | 0.06 |
| i-butane | 0.00% | 58.12 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| N-butane | 0.00% | 58.12 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| i-pentane | 0.00% | 72.15 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-pentane | 0.00% | 72.15 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| cyclopentane | 0.00% | 70.10 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-hexane | 0.00% | 86.18 | 98% | 18.92 | 0.11 | 0.38 | 2.27E-03 |
| cyclohexane | 0.00% | 84.16 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| other hexanes | 0.00% | 86.18 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| heptanes | 0.00% | 100.21 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Methylcyclohexane | 0.00% | 98.18 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2,2,4-trimethylpentane | 0.00% | 114.23 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| benzene | 0.00% | 78.11 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| toluene | 0.00% | 92.14 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| ethylbenzene | 0.00% | 106.17 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| xylenes | 0.00% | 106.16 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| octanes | 0.00% | 114.23 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| nonanes | 0.00% | 128.26 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| decanes | 0.00% | 142.29 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| C11 | 0.00% | 156.31 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| C12+ | 0.00% | 170.34 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Diethanolamine | 0.00% | 105.14 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| VOC [11] | 0.06% | | | 606.63 | 3.64 | 12.13 | 0.07 |
| Total HAPs | 0.00% | | | 20.82 | 0.12 | 0.42 | 0.00 |
| Hydrogen Sulfide | 0.00% | | | 2.99 | 0.02 | 0.060 | 3.59E-04 |

# Residue Gas Flaring Emissions

**Targa Northern Delaware, LLC**

**Train 3 Residue Gas Flaring: RH3-FL-5100**

**Input Data**

| | Residue Gas | |
|---|---|---|
| **Net HV** | 958 | Btu/scf |
| **Residue Gas Flow Rate** | 8.33 | MMscf/hr |
| **Duration of Flaring Event** | 60 | min/event |
| **Number of Events per Hour** | 1 | event/hr |
| **Estimated Annual Frequency** | 12 | events/yr |
| **Residue Gas Flow Rate** | 8,333,333 | scf/event |
| | 100 | MMscf/yr |
| **Heat Rate** | 7,984.42 | MMBtu/event |
| | 95,813.00 | MMBtu/year |
| **Safety Factor** | 10% | |

**Residue Gas - $NO_X$, CO, and $SO_2$**

| Compound | Flare Emission Factors | | | Flare Emissions | |
|---|---|---|---|---|---|
| | Value | Unit | Reference | lbs/hr[2] | tons/yr[3] |
| $NO_X$ | 0.0641 | lb/MMBtu | TCEQ [1] | 562.98 | 3.38 |
| CO | 0.5496 | lb/MMBtu | TCEQ [1] | 4,827.06 | 28.96 |
| $SO_2$ | 0.6 | lb/MMscf | AP-42 [1] | 5.00 | 0.030 |

**Residue Gas - GHGs**

**Natural Gas Combustion Greenhouse Gas Emission Factors**

| Units[12] | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$[17] |
|---|---|---|---|---|
| kg/MMBtu | 53.06 | 1.0E-03 | 1.0E-04 | - |
| Global Warming Potential (GWP) [13] | 1 | 28 | 265 | - |
| lb/MMBtu [14] | 116.98 | 2.20E-03 | 2.20E-04 | - |
| Flare Emissions (lb/hr)[15] | 934,017 | 17.57 | 1.76 | 934,974 |
| Flare Emissions (tpy)[16] | 5,604.10 | 0.11 | 0.011 | 5609.85 |

*The calculations for residue gas use a representative composition of residue gas and a representative flow rate. Due to variability of the composition of this gas, a 10% safety factor was applied to both the hourly and annual NOx, CO, VOC, and HAP emissions. Sulfur content in the gas is assumed to be constant; therefore, no safety was applied to SO2 emissions.*

**Residue Gas - VOC and $H_2S$**

| Compound | Composition [6] | MW | DRE [7] | Gas Vented to Flare [8,9] | | Controlled Emissions [9,10] | |
|---|---|---|---|---|---|---|---|
| | (Mole %) | (lb/lb-mole) | (%) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| Carbon Dioxide | 0.22% | 44.00 | 0% | 2086.96 | 12.52 | 2086.96 | 12.52 |
| Hydrogen Sulfide | 0.00% | 34.08 | 98% | 2.99 | 0.02 | 0.06 | 3.59E-04 |
| Nitrogen | 2.81% | 28.00 | 0% | 17258.67 | 103.55 | 17258.67 | 103.55 |
| methane | 86.57% | 16.00 | 98% | 304137.02 | 1824.82 | 6082.74 | 36.50 |
| ethane | 10.36% | 30.07 | 98% | 68380.53 | 410.28 | 1367.61 | 8.21 |
| propane | 0.06% | 44.10 | 98% | 532.56 | 3.20 | 10.65 | 0.06 |
| i-butane | 0.00% | 58.12 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| N-butane | 0.00% | 58.12 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| i-pentane | 0.00% | 72.15 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-pentane | 0.00% | 72.15 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| cyclopentane | 0.00% | 70.10 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-hexane | 0.00% | 86.18 | 98% | 18.92 | 0.11 | 0.38 | 2.27E-03 |
| cyclohexane | 0.00% | 84.16 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| other hexanes | 0.00% | 86.18 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| heptanes | 0.00% | 100.21 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Methylcyclohexane | 0.00% | 98.18 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2,2,4-trimethylpentane | 0.00% | 114.23 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| benzene | 0.00% | 78.11 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| toluene | 0.00% | 92.14 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| ethylbenzene | 0.00% | 106.17 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| xylenes | 0.00% | 106.16 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| octanes | 0.00% | 114.23 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| nonanes | 0.00% | 128.26 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| decanes | 0.00% | 142.29 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| C11 | 0.00% | 156.31 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| C12+ | 0.00% | 170.34 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Diethanolamine | 0.00% | 105.14 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| VOC [11] | 0.06% | | | 606.63 | 3.64 | 12.13 | 0.07 |
| Total HAPs | 0.00% | | | 20.82 | 0.12 | 0.42 | 0.00 |
| Hydrogen Sulfide | 0.00% | | | 2.99 | 0.02 | 0.060 | 3.59E-04 |

# Residue Gas Flaring Emissions

**Targa Northern Delaware, LLC**

**Train 4 Residue Gas Flaring: RH4-FL-45100**

**Input Data**

| | Residue Gas | |
|---|---|---|
| **Net HV** | 958 | Btu/scf |
| **Residue Gas Flow Rate** | 9.58 | MMscf/hr |
| **Duration of Flaring Event** | 60 | min/event |
| **Number of Events per Hour** | 1 | event/hr |
| **Estimated Annual Frequency** | 12 | events/yr |
| **Residue Gas Flow Rate** | 9,583,333 | scf/event |
| | 115 | MMscf/yr |
| **Heat Rate** | 9,182.08 | MMBtu/event |
| | 110,184.95 | MMBtu/year |
| **Safety Factor** | 10% | |

**Residue Gas - $NO_X$, CO, and $SO_2$**

| Compound | Flare Emission Factors | | | Flare Emissions | |
|---|---|---|---|---|---|
| | Value | Unit | Reference | lbs/hr[2] | tons/yr[3] |
| $NO_X$ | 0.0641 | lb/MMBtu | TCEQ [1] | 647.43 | 3.88 |
| CO | 0.5496 | lb/MMBtu | TCEQ [1] | 5,551.12 | 33.31 |
| $SO_2$ | 0.6 | lb/MMscf | AP-42 [1] | 5.75 | 0.035 |

**Residue Gas - GHGs**

**Natural Gas Combustion Greenhouse Gas Emission Factors**

| Units[12] | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$[17] |
|---|---|---|---|---|
| kg/MMBtu | 53.06 | 1.0E-03 | 1.0E-04 | - |
| Global Warming Potential (GWP) [13] | 1 | 28 | 265 | - |
| lb/MMBtu [14] | 116.98 | 2.20E-03 | 2.20E-04 | - |
| Flare Emissions (lb/hr)[15] | 1,074,120 | 20.20 | 2.02 | 1,075,221 |
| Flare Emissions (tpy)[16] | 6,444.72 | 0.12 | 0.012 | 6451.32 |

*The calculations for residue gas use a representative composition of residue gas and a representative flow rate. Due to variability of the composition of this gas, a 10% safety factor was applied to both the hourly and annual NOx, CO, VOC, and HAP emissions. Sulfur content in the gas is assumed to be constant; therefore, no safety was applied to SO2 emissions.*

**Residue Gas - VOC and $H_2S$**

| Compound | Composition [6] | MW | DRE [7] | Gas Vented to Flare [8,9] | | Controlled Emissions [9,10] | |
|---|---|---|---|---|---|---|---|
| | (Mole %) | (lb/lb-mole) | (%) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| Carbon Dioxide | 0.22% | 44.00 | 0% | 2400.00 | 14.40 | 2400.00 | 14.40 |
| Hydrogen Sulfide | 0.00% | 34.08 | 98% | 3.44 | 0.02 | 0.07 | 4.13E-04 |
| Nitrogen | 2.81% | 28.00 | 0% | 19847.47 | 119.08 | 19847.47 | 119.08 |
| methane | 86.57% | 16.00 | 98% | 349757.58 | 2098.55 | 6995.15 | 41.97 |
| ethane | 10.36% | 30.07 | 98% | 78637.61 | 471.83 | 1572.75 | 9.44 |
| propane | 0.06% | 44.10 | 98% | 612.44 | 3.67 | 12.25 | 0.07 |
| i-butane | 0.00% | 58.12 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| N-butane | 0.00% | 58.12 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| i-pentane | 0.00% | 72.15 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-pentane | 0.00% | 72.15 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| cyclopentane | 0.00% | 70.10 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-hexane | 0.00% | 86.18 | 98% | 21.76 | 0.13 | 0.44 | 2.61E-03 |
| cyclohexane | 0.00% | 84.16 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| other hexanes | 0.00% | 86.18 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| heptanes | 0.00% | 100.21 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Methylcyclohexane | 0.00% | 98.18 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2,2,4-trimethylpentane | 0.00% | 114.23 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| benzene | 0.00% | 78.11 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| toluene | 0.00% | 92.14 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| ethylbenzene | 0.00% | 106.17 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| xylenes | 0.00% | 106.16 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| octanes | 0.00% | 114.23 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| nonanes | 0.00% | 128.26 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| decanes | 0.00% | 142.29 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| C11 | 0.00% | 156.31 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| C12+ | 0.00% | 170.34 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Diethanolamine | 0.00% | 105.14 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| VOC [11] | 0.06% | | | 697.63 | 4.19 | 13.95 | 0.08 |
| Total HAPs | 0.00% | | | 23.94 | 0.14 | 0.48 | 0.00 |
| Hydrogen Sulfide | 0.00% | | | 3.44 | 0.02 | 0.069 | 4.13E-04 |

# Residue Gas Flaring Emissions

**Targa Northern Delaware, LLC**

**Train 5 Residue Gas Flaring: RH5-FL-55100**

**Input Data**

| | Residue Gas | |
|---|---|---|
| **Net HV** | 958 | Btu/scf |
| **Residue Gas Flow Rate** | 9.58 | MMscf/hr |
| **Duration of Flaring Event** | 60 | min/event |
| **Number of Events per Hour** | 1 | event/hr |
| **Estimated Annual Frequency** | 12 | events/yr |
| **Residue Gas Flow Rate** | 9,583,333 | scf/event |
| | 115 | MMscf/yr |
| **Heat Rate** | 9,182.08 | MMBtu/event |
| | 110,184.95 | MMBtu/year |
| **Safety Factor** | 10% | |

**Residue Gas - $NO_X$, CO, and $SO_2$**

| Compound | Flare Emission Factors | | | Flare Emissions | |
|---|---|---|---|---|---|
| | Value | Unit | Reference | lbs/hr[2] | tons/yr[3] |
| $NO_X$ | 0.0641 | lb/MMBtu | TCEQ [1] | 647.43 | 3.88 |
| CO | 0.5496 | lb/MMBtu | TCEQ [1] | 5,551.12 | 33.31 |
| $SO_2$ | 0.6 | lb/MMscf | AP-42 [1] | 5.75 | 0.035 |

**Residue Gas - GHGs**

**Natural Gas Combustion Greenhouse Gas Emission Factors**

| Units[12] | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$[17] |
|---|---|---|---|---|
| kg/MMBtu | 53.06 | 1.0E-03 | 1.0E-04 | - |
| Global Warming Potential (GWP) [13] | 1 | 28 | 265 | - |
| lb/MMBtu [14] | 116.98 | 2.20E-03 | 2.20E-04 | - |
| Flare Emissions (lb/hr)[15] | 1,074,120 | 20.20 | 2.02 | 1,075,221 |
| Flare Emissions (tpy)[16] | 6,444.72 | 0.12 | 0.01 | 6451.32 |

*The calculations for residue gas use a representative composition of residue gas and a representative flow rate. Due to variability of the composition of this gas, a 10% safety factor was applied to both the hourly and annual NOx, CO, VOC, and HAP emissions. Sulfur content in the gas is assumed to be constant; therefore, no safety was applied to SO2 emissions.*

**Residue Gas - VOC and $H_2S$**

| Compound | Composition [6] | MW | DRE [7] | Gas Vented to Flare [8,9] | | Controlled Emissions [9,10] | |
|---|---|---|---|---|---|---|---|
| | (Mole %) | (lb/lb-mole) | (%) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| Carbon Dioxide | 0.22% | 44.00 | 0% | 2400.00 | 14.40 | 2400.00 | 14.40 |
| Hydrogen Sulfide | 0.00% | 34.08 | 98% | 3.44 | 0.02 | 0.07 | 4.13E-04 |
| Nitrogen | 2.81% | 28.00 | 0% | 19847.47 | 119.08 | 19847.47 | 119.08 |
| methane | 86.57% | 16.00 | 98% | 349757.58 | 2098.55 | 6995.15 | 41.97 |
| ethane | 10.36% | 30.07 | 98% | 78637.61 | 471.83 | 1572.75 | 9.44 |
| propane | 0.06% | 44.10 | 98% | 612.44 | 3.67 | 12.25 | 0.07 |
| i-butane | 0.00% | 58.12 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| N-butane | 0.00% | 58.12 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| i-pentane | 0.00% | 72.15 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-pentane | 0.00% | 72.15 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| cyclopentane | 0.00% | 70.10 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-hexane | 0.00% | 86.18 | 98% | 21.76 | 0.13 | 0.44 | 2.61E-03 |
| cyclohexane | 0.00% | 84.16 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| other hexanes | 0.00% | 86.18 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| heptanes | 0.00% | 100.21 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Methylcyclohexane | 0.00% | 98.18 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2,2,4-trimethylpentane | 0.00% | 114.23 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| benzene | 0.00% | 78.11 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| toluene | 0.00% | 92.14 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| ethylbenzene | 0.00% | 106.17 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| xylenes | 0.00% | 106.16 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| octanes | 0.00% | 114.23 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| nonanes | 0.00% | 128.26 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| decanes | 0.00% | 142.29 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| C11 | 0.00% | 156.31 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| C12+ | 0.00% | 170.34 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Diethanolamine | 0.00% | 105.14 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| VOC [11] | 0.06% | | | 697.63 | 4.19 | 13.95 | 0.08 |
| Total HAPs | 0.00% | | | 23.94 | 0.14 | 0.48 | 0.00 |
| Hydrogen Sulfide | 0.00% | | | 3.44 | 0.02 | 0.069 | 4.13E-04 |

# Residue Gas Flaring Emissions

**Targa Northern Delaware, LLC**

**Train 6 Residue Gas Flaring: RH5-FL-55100**

**Input Data**

| | Residue Gas | |
|---|---|---|
| **Net HV** | 958 | Btu/scf |
| **Residue Gas Flow Rate** | 9.58 | MMscf/hr |
| **Duration of Flaring Event** | 60 | min/event |
| **Number of Events per Hour** | 1 | event/hr |
| **Estimated Annual Frequency** | 12 | events/yr |
| **Residue Gas Flow Rate** | 9,583,333 | scf/event |
| | 115 | MMscf/yr |
| **Heat Rate** | 9,182.08 | MMBtu/event |
| | 110,184.95 | MMBtu/year |
| **Safety Factor** | 10% | |

**Residue Gas - $NO_X$, CO, and $SO_2$**

| Compound | Flare Emission Factors | | | Flare Emissions | |
|---|---|---|---|---|---|
| | Value | Unit | Reference | lbs/hr[2] | tons/yr[3] |
| $NO_X$ | 0.0641 | lb/MMBtu | TCEQ [1] | 647.43 | 3.88 |
| CO | 0.5496 | lb/MMBtu | TCEQ [1] | 5,551.12 | 33.31 |
| $SO_2$ | 0.6 | lb/MMscf | AP-42 [1] | 5.75 | 0.035 |

**Residue Gas - GHGs**

**Natural Gas Combustion Greenhouse Gas Emission Factors**

| Units[12] | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$[17] |
|---|---|---|---|---|
| kg/MMBtu | 53.06 | 1.0E-03 | 1.0E-04 | - |
| Global Warming Potential (GWP) [13] | 1 | 28 | 265 | - |
| lb/MMBtu [14] | 116.98 | 2.20E-03 | 2.20E-04 | - |
| Flare Emissions (lb/hr)[15] | 1,074,120 | 20.20 | 2.02 | 1,075,221 |
| Flare Emissions (tpy)[16] | 6,444.72 | 0.12 | 0.012 | 6451.32 |

*The calculations for residue gas use a representative composition of residue gas and a representative flow rate. Due to variability of the composition of this gas, a 10% safety factor was applied to both the hourly and annual NOx, CO, VOC, and HAP emissions. Sulfur content in the gas is assumed to be constant; therefore, no safety was applied to SO2 emissions.*

**Residue Gas - VOC and $H_2S$**

| Compound | Composition [6] | MW | DRE [7] | Gas Vented to Flare [8,9] | | Controlled Emissions [9,10] | |
|---|---|---|---|---|---|---|---|
| | (Mole %) | (lb/lb-mole) | (%) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| Carbon Dioxide | 0.22% | 44.00 | 0% | 2400.00 | 14.40 | 2400.00 | 14.40 |
| Hydrogen Sulfide | 0.00% | 34.08 | 98% | 3.44 | 0.02 | 0.07 | 4.13E-04 |
| Nitrogen | 2.81% | 28.00 | 0% | 19847.47 | 119.08 | 19847.47 | 119.08 |
| methane | 86.57% | 16.00 | 98% | 349757.58 | 2098.55 | 6995.15 | 41.97 |
| ethane | 10.36% | 30.07 | 98% | 78637.61 | 471.83 | 1572.75 | 9.44 |
| propane | 0.06% | 44.10 | 98% | 612.44 | 3.67 | 12.25 | 0.07 |
| i-butane | 0.00% | 58.12 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| N-butane | 0.00% | 58.12 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| i-pentane | 0.00% | 72.15 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-pentane | 0.00% | 72.15 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| cyclopentane | 0.00% | 70.10 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| n-hexane | 0.00% | 86.18 | 98% | 21.76 | 0.13 | 0.44 | 2.61E-03 |
| cyclohexane | 0.00% | 84.16 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| other hexanes | 0.00% | 86.18 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| heptanes | 0.00% | 100.21 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Methylcyclohexane | 0.00% | 98.18 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 2,2,4-trimethylpentane | 0.00% | 114.23 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| benzene | 0.00% | 78.11 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| toluene | 0.00% | 92.14 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| ethylbenzene | 0.00% | 106.17 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| xylenes | 0.00% | 106.16 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| octanes | 0.00% | 114.23 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| nonanes | 0.00% | 128.26 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| decanes | 0.00% | 142.29 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| C11 | 0.00% | 156.31 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| C12+ | 0.00% | 170.34 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Diethanolamine | 0.00% | 105.14 | 98% | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| VOC [11] | 0.06% | | | 697.63 | 4.19 | 13.95 | 0.08 |
| Total HAPs | 0.00% | | | 23.94 | 0.14 | 0.48 | 0.00 |
| Hydrogen Sulfide | 0.00% | | | 3.44 | 0.02 | 0.069 | 4.13E-04 |

## Residue Gas Flaring Emissions

**Targa Northern Delaware, LLC**

| Combustion Totals | $NO_x$ | | CO | | $SO_2$ | | VOCs | | $H_2S$ | | HAPS | | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$[17] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | tpy | tpy | tpy | tpy |
| **RH1-FL-29-1003 Flaring Total:** | 211.12 | 1.27 | 1,810.15 | 10.86 | 1.88 | 0.01 | 4.55 | 0.03 | 0.02 | <0.001 | 0.16 | <0.001 | 2,101.54 | 0.04 | <0.001 | 2,103.69 |
| **RH2-FL-5100 Flaring Total:** | 562.98 | 3.38 | 4,827.06 | 28.96 | 5.00 | 0.03 | 12.13 | 0.07 | 0.06 | <0.001 | 0.42 | <0.001 | 5,604.10 | 0.11 | 0.01 | 5,609.85 |
| **RH3-FL-5100 Flaring Total:** | 562.98 | 3.38 | 4,827.06 | 28.96 | 5.00 | 0.03 | 12.13 | 0.07 | 0.06 | <0.001 | 0.42 | <0.001 | 5,604.10 | 0.11 | 0.01 | 5,609.85 |
| **RH4-FL-45100 Flaring Total:** | 647.43 | 3.88 | 5,551.12 | 33.31 | 5.75 | 0.03 | 13.95 | 0.08 | 0.07 | <0.001 | 0.48 | <0.001 | 6,444.72 | 0.12 | 0.01 | 6,451.32 |
| **RH5-FL-55100 Flaring Total:** | 647.43 | 7.77 | 5,551.12 | 66.61 | 5.75 | 0.07 | 13.95 | 0.17 | 0.07 | <0.001 | 0.48 | <0.011 | 12,889.44 | 0.24 | 0.02 | 12,902.65 |
| **Facility Total:** | **2,631.94** | **19.68** | **22,566.50** | **168.71** | **23.38** | **0.17** | **56.72** | **0.42** | **0.28** | **<0.001** | **1.95** | **0.01** | **32,643.90** | **0.61** | **0.06** | **32,677.36** |

**Residue Gas Flaring Notes and Calculation Methodology**

[1] From TCEQ "Air Permit Guidance For Chemical Sources, Flare And Vapor Oxidizers" (Draft Oct. 2000) Table 4, emission factors
$SO_2$ emission factor from AP-42 Chapter 1.4 Natural Gas Combustion Table 2.

[2] Maximum Potential Hourly Emission Rate (lb/hr) = Flare Emission Factor (lb/MMBtu) x Gas Stream Heat Input (MMBtu/hr)

Example $NO_x$ Hourly Emission Rate (lb/hr) = 0.0641 lb/MMBtu | 2,994 MMBtu/hr = 211.12 lb/hr

[3] Maximum Potential Annual Emission Rate (tpy) = Flare Emission Factor (lb/MMBtu) x Gas Stream Heat Input (MMBtu/yr) x (1 ton / 2,000 lb)

Example $NO_x$ Annual Emission Rate (tpy) = 0.0641 lb/MMBtu | 35,930 MMBtu/yr | 1 ton/2,000 lb = 1.27 ton/yr

[4] Maximum $SO_2$ Potential Hourly Emission Rate (lb/hr) = Flare Emission Factor (lb/MMscf) x Hourly Flowrate (scf/hr) x $10^{-6}$ (MMscf/scf)

Example $SO_2$ Hourly Emission Rate (lb/hr) = 0.6 lb/MMscf | 3,125,000 scf/hr | $10^{-6}$ MMscf/scf = 1.88 lb/hr

[5] Maximum $SO_2$ Potential Annual Emission Rate (tpy) = Flare Emission Factor (lb/MMscf) x Annual Flowrate (MMscf/yr) x (1 ton / 2,000 lb)

Example $SO_2$ Annual Emission Rate (tpy) = 0.6 lb/MMscf | 37.5 MMscf/yr | 1 ton/2,000 lb = 1.13E-02 ton/yr

[6] Composition of the gas stream is obtained from Residue Gas stream.

[7] Per TCEQ "Air Permit Guidance For Chemical Sources, Flare And Vapor Oxidizers" (Draft Oct. 2000).

[8] Gas Vented to Flare (lb/hr) = Hourly Flowrate (scf/hr) x Mole Percent x MW (lb/lb-mole) / 379.5 (scf/lb-mole)

Example Propane Hourly Gas Vented to Flare (lb/hr) = 0,038 scf/hr | 0.06% | 0.00 lb/lb-mole | lb-mole/379.5 scf = 227.49 lb/hr

[9] Annual Gas Vented to Flare (tpy) = Hourly Gas Vented to Flare (lb/hr) x Hours of Operation (hrs/yr) x (1 ton / 2,000 lb)

Example Propane Vented to Flare Annual Emission Rate (tpy) = 227.49 lb/hr | 3125000 hrs/yr | 1 ton/2,000 lb = 1.36 ton/yr

[10] Controlled Maximum Potential Hourly Emission Rate (lb/hr) = Gas Vented to Flare (lb/hr) x (1 - DRE)

Example Controlled Propane Hourly Emission Rate (lb/hr) = 227.49 lb/hr | (1 - 0.00 ) = 4.55 lb/hr

[11] Total VOC taken as the sum of NMNEHC.

[12] Emission factors obtained from 40 CFR 98 Subpart C Tables C-1 and C-2 for natural gas.

[13] Global warming potentials obtained from 40 CFR 98 Subpart A Table A-1.

[14] Emission factors converted from kg/MMBtu to lb/MMBtu using the following conversion:

Greenhouse Gas Emission Factor (lb/MMBtu) = Greenhouse Gas Emission Factor (kg/MMBtu) x 2.2046 (lb/kg)

Example $CO_2$ Emission Factor (lb/MMBtu) = 53.06 kg/MMBtu | 2.2046 lb/kg = 116.98 lb/MMBtu

[15] Maximum Potential Hourly Emission Rate (lb/hr) = Hourly Heat Input (MMBtu/hr) x Emission Factor (lb/MMBtu)

Example $CO_2$ Hourly Emission Rate (lb/hr) = 2994.16 MMBtu/hr | 116.98 lb/MMBtu = 350,256.40 lb/hr

[16] Maximum Potential Annual Emission Rate (tpy) = Annual Heat Input (MMBtu/yr) x Emission Factor (lb/MMBtu) x (1 ton / 2,000 lb)

Example $CO_2$ Annual Emission Rate (tpy) = 35,930 MMBtu/yr | 116.98 lb/MMBtu | 1 ton/2,000 lb = 2101.54 ton/yr

[17] $CO_2e$ emissions based on GWPs for each greenhouse gas pollutant.

$CO_2e$ Hourly Emission Rate (lb/hr) = $CO_2$ Emission Rate (lb/hr) x $CO_2$ GWP + $CH_4$ Emission Rate (lb/hr) x $CH_4$ GWP + $N_2O$ Emission Rate (lb/hr) x $N_2O$ GWP

Example $CO_2e$ Hourly Emission Rate (lb/hr) = 350,256.40 lb/hr x 1 + 6.59 lb/hr x 28 + 0.66 lb/hr x 265 = 350,615 lb/hr

# Surface Coating SSM Emissions

**Targa Northern Delaware, LLC**

**Basis of Calculation:**

TCEQ's Painting Basics and Emissions Calculations for TCEQ Air Quality Permit Applications, November 5, 2012

VOC calculations are based on the product usage, VOC or HAP content, and density of a general paint used for MSS. The paint chosen has the highest VOC content of all paints typically used for these activities. It has been assumed that all VOC in the solution escapes to atmosphere. Emissions are calculated using the following equations:

Hourly VOC Emissions (lb/hr) = [Usage Rate (gal/hr)] * [VOC or HAP Content (lb/gal)]

Annual VOC Emissions (tpy) = [Usage Rate (gal/yr)] * [VOC or HAP Content lb/gal)] / [2,000 (lb/ton)]

It is assumed that all surface coating products are sprayed. Particulate emissions are calculated based on the usage rate and solids content for the product, as well as a transfer efficiency and fallout factor obtained from TCEQ's Painting Basics and Emissions Calculations for TCEQ Air Quality Permit Applications. The following equations are used to calculated particulate emissions:

Short-term PM emissions (lb/hr) = Solids Content (%) x Density (lb/gal) x Volume of Product used (gal/hr) x (1 - Transfer Efficiency (%)) x (1-Fallout Factor (%))

Annual PM emissions (tpy) = Solids Content (%) x Density (lb/gal) x Volume of Product used (gal/yr) x (1 - Transfer Efficiency (%)) x (1-Fallout Factor (%)) / 2,000 (lb/ton)

**Potential VOC and HAP Emissions from Paint Usage (MSS)**

| Product | Density (lb/gal) [1] | VOC Content | HAP Content (wt %) [1] | Usage Rates | | VOC Emissions | | HAP Emissions | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | (gal/hr) | (gal/yr) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| Paint | 10.71 | 2.92 | 5.0 | 25.0 | 100.0 | 73.00 | 0.15 | 13.39 | 0.03 |
| **Totals** | | | | | | **73.00** | **0.15** | **13.39** | **0.03** |

[1] Per the representative Safety Data Sheet (SDS).

**Potential PM/$PM_{10}$/$PM_{2.5}$ Emissions from Spray Paint Usage (MSS)**

| Product | Solids Content [1] (wt %) | Usage Rates | | Object Coated | Transfer Efficiency [2] (%) | Fallout Factor (%) [3] | | | PM Emissions | | $PM_{10}$ Emissions | | $PM_{2.5}$ Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (gal/hr) | (gal/yr) | | | PM | $PM_{10}$ | $PM_{2.5}$ | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| Paint | 80 | 25.00 | 100.00 | Flat Surface | 75 | 98.56 | 99.87 | 99.99 | 0.77 | 1.54E-03 | 0.070 | 1.39E-04 | 0.005 | 1.07E-05 |

[1] Per the representative Safety Data Sheet (SDS)

[2] Transfer efficiency per TCEQ guidance (TCEQ's Painting Basics and Emissions Calculations for TCEQ Air Quality Permit Applications, November 5, 2012).

[3] Fallout factors per TCEQ's Painting Basics and Emissions Calculations for TCEQ Air Quality Permit Applications, November 5, 2012, Table 2.

**Speciated Emissions**

| Composition | % by Weight | Emissions | |
|---|---|---|---|
| | | (lb/hr) | (tpy) |
| Ethylbenzene | 0.7 | 1.87 | 3.75E-03 |
| Xylene | 4.0 | 10.71 | 0.021 |
| Medium Aromatic Hydrocarbons | 2.0 | 5.36 | 0.011 |
| Naphthalene | 0.3 | 0.80 | 1.61E-03 |
| Methyl Ethyl Ketone | 5.0 | 13.39 | 0.027 |
| n-Butyl Acetate | 9.0 | 24.10 | 0.048 |
| 1-methoxy-2-propanol Acetate | 6.0 | 16.07 | 0.032 |
| | | **72.29** | **0.14** |

| | PM Emissions | | $PM_{10}$ Emissions | | $PM_{2.5}$ Emissions | | Total VOC | | Total HAPs | | Ethylbenzene | | Xylene | | Medium Aromatic Hydrocarbons | | Napthalene | | Methyl Ethyl Ketone | | n-Butyl Acetate | | 1-methoxy-2-propanol Acetate | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| Train 1 Total: | 0.77 | 1.54E-03 | 0.070 | 1.39E-04 | 0.005 | 1.07E-05 | 72.29 | 0.14 | 13.39 | 0.03 | 1.87 | 3.75E-03 | 10.71 | 0.021 | 5.36 | 0.011 | 0.80 | 1.61E-03 | 13.39 | 0.027 | 24.10 | 0.048 | 16.07 | 0.032 |
| Train 2 Total: | 0.77 | 1.54E-03 | 0.070 | 1.39E-04 | 0.005 | 1.07E-05 | 72.29 | 0.14 | 13.39 | 0.03 | 1.87 | 3.75E-03 | 10.71 | 0.021 | 5.36 | 0.011 | 0.80 | 1.61E-03 | 13.39 | 0.027 | 24.10 | 0.048 | 16.07 | 0.032 |
| Train 3 Total: | 0.77 | 1.54E-03 | 0.070 | 1.39E-04 | 0.005 | 1.07E-05 | 72.29 | 0.14 | 13.39 | 0.03 | 1.87 | 3.75E-03 | 10.71 | 0.021 | 5.36 | 0.011 | 0.80 | 1.61E-03 | 13.39 | 0.027 | 24.10 | 0.048 | 16.07 | 0.032 |
| Train 4 Total: | 0.77 | 1.54E-03 | 0.070 | 1.39E-04 | 0.005 | 1.07E-05 | 72.29 | 0.14 | 13.39 | 0.03 | 1.87 | 3.75E-03 | 10.71 | 0.021 | 5.36 | 0.011 | 0.80 | 1.61E-03 | 13.39 | 0.027 | 24.10 | 0.048 | 16.07 | 0.032 |
| Train 5 Total: | 0.77 | 1.54E-03 | 0.070 | 1.39E-04 | 0.005 | 1.07E-05 | 72.29 | 0.14 | 13.39 | 0.03 | 1.87 | 3.75E-03 | 10.71 | 0.021 | 5.36 | 0.011 | 0.80 | 1.61E-03 | 13.39 | 0.027 | 24.10 | 0.048 | 16.07 | 0.032 |
| Train 6 Total: | 0.77 | 1.54E-03 | 0.070 | 1.39E-04 | 0.005 | 1.07E-05 | 72.29 | 0.14 | 13.39 | 0.03 | 1.87 | 3.75E-03 | 10.71 | 0.021 | 5.36 | 0.011 | 0.80 | 1.61E-03 | 13.39 | 0.027 | 24.10 | 0.048 | 16.07 | 0.032 |
| AGI-1 Total: | 0.77 | 1.54E-03 | 0.070 | 1.39E-04 | 0.005 | 1.07E-05 | 72.29 | 0.14 | 13.39 | 0.03 | 1.87 | 3.75E-03 | 10.71 | 0.021 | 5.36 | 0.011 | 0.80 | 1.61E-03 | 13.39 | 0.027 | 24.10 | 0.048 | 16.07 | 0.032 |
| AGI-2 Total: | 0.77 | 1.54E-03 | 0.070 | 1.39E-04 | 0.005 | 1.07E-05 | 72.29 | 0.14 | 13.39 | 0.03 | 1.87 | 3.75E-03 | 10.71 | 0.021 | 5.36 | 0.011 | 0.80 | 1.61E-03 | 13.39 | 0.027 | 24.10 | 0.048 | 16.07 | 0.032 |
| Facility-wide Total: | 6.17 | 0.012 | 0.56 | 1.11E-03 | 0.043 | 8.57E-05 | 578.34 | 1.157 | 107.10 | 0.214 | 14.99 | 0.030 | 85.68 | 0.17 | 42.84 | 0.086 | 6.43 | 0.013 | 107.10 | 0.21 | 192.78 | 0.39 | 128.52 | 0.26 |

# Abrasive Blasting SSM Emissions

**Targa Northern Delaware, LLC**

**Basis of Calculation:**
These calculations represent emissions resulting from dry abrasive blasting. Emission factors are based on U.S. EPA AP-42, Chapter 13.2.6, Abrasive Blasting.

**Dry Abrasive Blasting**

| Blasting Material | Usage per Event | Duration of Event | Events per Year | Emissions Factor [1] (lb/1000 lb abrasive) | | | Hourly Emissions (lb/hr) | | | Annual Emissions (tpy) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (lb/event) | (hr/event) | (events/yr) | PM | $PM_{10}$ | $PM_{2.5}$ | PM | $PM_{10}$ | $PM_{2.5}$ | PM | $PM_{10}$ | $PM_{2.5}$ |
| Sand | 3,100 | 6.00 | 1 | 91 | 13 | 1.3 | 47.02 | 6.72 | 0.67 | 0.14 | 0.020 | 2.02E-03 |
| | | | | | **Total Emissions:** | | **47.02** | **6.72** | **0.67** | **0.14** | **0.020** | **2.02E-03** |

[1] Emission factors based on the highest average wind speed across the affected area of Texas, as provided in http://www.windpoweringamerica.gov/pdfs/wind_maps/tx_80m.pdf. This corresponds to 9 m/s or about 20 mph.

| | PM Emissions | | $PM_{10}$ Emissions | | $PM_{2.5}$ Emissions | |
|---|---|---|---|---|---|---|
| | (lb/hr) | (tpy) | (lb/hr) | (tpy) | (lb/hr) | (tpy) |
| Train 1 Total: | 47.02 | 0.14 | 6.72 | 0.020 | 0.67 | 2.02E-03 |
| Train 2 Total: | 47.02 | 0.14 | 6.72 | 0.020 | 0.67 | 2.02E-03 |
| Train 3 Total: | 47.02 | 0.14 | 6.72 | 0.020 | 0.67 | 2.02E-03 |
| Train 4 Total: | 47.02 | 0.14 | 6.72 | 0.020 | 0.67 | 2.02E-03 |
| Train 5 Total: | 47.02 | 0.14 | 6.72 | 0.020 | 0.67 | 2.02E-03 |
| Train 6 Total: | 47.02 | 0.14 | 6.72 | 0.020 | 0.67 | 2.02E-03 |
| AGI-1 Total: | 47.02 | 0.14 | 6.72 | 0.020 | 0.67 | 2.02E-03 |
| AGI-2 Total: | 47.02 | 0.14 | 6.72 | 0.020 | 0.67 | 2.02E-03 |
| Facility-wide Total: | 47.02 | 1.13 | 6.72 | 0.16 | 0.67 | 0.016 |

# Section 7

# Information Used To Determine Emissions

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**Information Used to Determine Emissions shall include the following**:

- ☑ If manufacturer data are used, include specifications for emissions units and control equipment, including control efficiencies specifications and sufficient engineering data for verification of control equipment operation, including design drawings, test reports, and design parameters that affect normal operation.
- ☐ If test data are used, include a copy of the complete test report. If the test data are for an emissions unit other than the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly effect emission rates.
- ☑ If the most current copy of AP-42 is used, reference the section and date located at the bottom of the page. Include a copy of the page containing the emissions factors, and clearly mark the factors used in the calculations.
- ☐ If an older version of AP-42 is used, include a complete copy of the section.
- ☑ If an EPA document or other material is referenced, include a complete copy.
- ☑ Fuel specifications sheet.
- ☑ If computer models are used to estimate emissions, include an input summary (if available) and a detailed report, and a disk containing the input file(s) used to run the model. For tank-flashing emissions, include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., permit or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.

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**Amine Treating (RH1-AMINE, RH2-AMINE, RH4-AMINE, and RH5-AMINE)**

- BR&E ProMax, 2 scenarios
- Inlet Gas Analyses

**Amine Sweetening (RHA-AMINE and RA2-AMINE)**

- BR&E ProMax, 3 scenarios
- Inlet Gas Analysis

**Glycol Dehydration (RH1-TEG, RH2-TEG, RH3-TEG, RH4-TEG, RH5-TEG, and RH6-TEG)**

- BR&E ProMax, 3 scenarios
- Gas Analysis

**Heaters and Reboilers**

- Specification Sheets
- AP-42 factors for external natural gas combustion sources in Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4
- 40 CFR Part 98 and emission factors from Tables C-1 and C-2 in Part 98
- Manufacturer Guarantee for NOx, CO, and VOC limits
- Manufacturer Guarantee for PM limits

**Condensate Storage Tanks (RH1-TK-COND-EAST and RH1-TK-COND-WEST)**

- BR&E Promax
- Condensate Analysis

**Slop Water Storage Tanks (RH4-TK-SLOP, RH2-TK-SLOP, and RH1-TK-SLOP)**

- Wastewater analysis
- BR&E ProMax

**Methanol Storage Tanks (RH-TK-METHANOL)**

- Methanol Inventory
- BR&E Promax

**Sour Slop Water Storage Tanks (RHA-TK-SLOP and RA2-TK-SLOP)**

- BR&E ProMax

**Sour Slop Water Loading (RHA-TK-SLOP-LOAD and RA2-TK-SLOP-LOAD)**

- BR&E ProMax
- AP-42 Chapter 5.2

**Condensate Loading (RH1-TK-COND-WEST-LOAD)**

- BR&E Promax
- AP-42 Chapter 5.2

**Wastewater Loading (RH4-TK-SLOP-LOAD, RH2-TK-SLOP-LOAD, and RH1-TK-SLOP-LOAD)**

- BR&E Promax
- AP-42 Chapter 5.2

**Thermal Oxidizers (RH2-TO-5500, RH4-TO-45500, and RH5-TO-55500)**

- Specification sheets
- AP-42 Chapter 1.4 Table 1.4-1 and 1.4-2
- 40 CFR 98 Subpart C Table C-1 and C-2

**Acid Gas Flares (RHA-FL-5100 and RA2-FL-25100)**

- Specification sheets
- BR&E ProMax
- TNRCC RG-109
- AP-42 Chapter 1.4 Table 1.4-1
- 40 CFR 98 Subpart C Table C-1 and C-2

**Process Flares (RH1-FL-29-1003, RH2-FL-5100, RH3-FL-5100, RH4-FL-45100, and RH5-FL-55100)**

- Specification sheets
- TNRCC RG-109
- 40 CFR 98 Subpart C Table C-1 and C-2

**Condensate Tank Flare (Unit RH1-FL-2850)**

- Specification sheet
- TNRCC RG-109
- 40 CFR 98 Tables A-1, C-1, and C-2

**Sour Slop Tank Flares (Units RHA-FL-5850 and RA2-FL-25850)**

- BR&E ProMax
- Specification Sheet
- TNRCC RG-109, dated October 2000
- AP-42 Chapter 1.4 Table 1.4-1
- 40 CFR 98 Subpart C Table C-1 and C-2

**Slop Water Tank Flare (Unit RH4-FL-46200)**

- BR&E ProMax
- Specification Sheet
- TNRCC RG-109, dated October 2000
- AP-42 Chapter 1.4 Table 1.4-1
- 40 CFR 98 Subpart C Table C-1 and C-2

**Fugitive Components (RH-FUG-1, RH-FUG-2, RHA-FUG, RA2-FUG)**

- Gas and Condensate Analyses
- EPA Protocol for Equipment Leaks, Table 2-4

**Haul Roads (RH-HAUL)**

- AP-42 Section 13.2.2
- Guidance for Aggregate Handling, Storage Piles and Haul Road Emissions,
- Western Regional Air Partnership (WRAP) Fugitive Dust Handbook

**Generators (RH-GEN-1 through RH-GEN-10)**

- NSPS IIII Tier IV Emission Standards for Non-Road Engines
- AP- 42 Section 3.3, Gasoline and Diesel Industrial Engines (10/96)
- AP-42 Section 3.4, Large Stationary Diesel and All Stationary Dual-fuel Engines (10/96)
- 40 CFR 98 Tables A-1, C-1, and C-2

**Wastewater Generator (RH-GEN-WELL)**

- Certification Levels
- AP- 42 Section 3.3, Gasoline and Diesel Industrial Engines (10/96)
- 40 CFR 98 Tables A-1, C-1, and C-2

**Heater Trailer (RH-TRAILER)**

- Specification Sheet
- NSPS IIII Tier 4 emission factors
- CARB Emission Factors for CI Diesel Engines
- AP-42 Section 1.3
- 40 CFR 98 Tables A-1, C-1, and C-2

**Pig Launching and Receiving (RHA-REC-WINKLER through RH4-REC-24INCH, RHA-REC-LIMESTONE-10INCH, RA2-REC-GREYHOUND, RHA-LAU-LIMESTONE-10INCH through RH2-LAU-GPX)**

- Inlet and Residue Gas Analyses

**Vented SSM (RH1-SSM, RH2-SSM, RH3-SSM, RH4-SSM, RH5-SSM, RH6-SSM, RHA-SSM, and RA2-SSM)**

- Gas and Condensate Analyses

**Thermal Oxidizer Downtime (RH2-TO-5500-SSM, RH4-TO-45500-SSM, and RH5-TO-55500-SSM)**

- BR&E ProMax

# AP-42 Chapters

- AP-42 Chapter 1.4, Natural Gas Combustion
- AP-42 Chapter 5.2, Transportation and Marketing of Petroleum Liquids
- AP-42 Chapter 3.3, Gasoline and Diesel Industrial Engines
- AP-42 Chapter 1.3, Fuel Oil Combustion
- AP-42 Chapter 13.2.2, Unpaved Roads

## 1.4 Natural Gas Combustion

### 1.4.1 General[1-2]

Natural gas is one of the major combustion fuels used throughout the country. It is mainly used to generate industrial and utility electric power, produce industrial process steam and heat, and heat residential and commercial space. Natural gas consists of a high percentage of methane (generally above 85 percent) and varying amounts of ethane, propane, butane, and inerts (typically nitrogen, carbon dioxide, and helium). The average gross heating value of natural gas is approximately 1,020 British thermal units per standard cubic foot (Btu/scf), usually varying from 950 to 1,050 Btu/scf.

### 1.4.2 Firing Practices[3-5]

There are three major types of boilers used for natural gas combustion in commercial, industrial, and utility applications: watertube, firetube, and cast iron. Watertube boilers are designed to pass water through the inside of heat transfer tubes while the outside of the tubes is heated by direct contact with the hot combustion gases and through radiant heat transfer. The watertube design is the most common in utility and large industrial boilers. Watertube boilers are used for a variety of applications, ranging from providing large amounts of process steam, to providing hot water or steam for space heating, to generating high-temperature, high-pressure steam for producing electricity. Furthermore, watertube boilers can be distinguished either as field erected units or packaged units.

Field erected boilers are boilers that are constructed on site and comprise the larger sized watertube boilers. Generally, boilers with heat input levels greater than 100 MMBtu/hr, are field erected. Field erected units usually have multiple burners and, given the customized nature of their construction, also have greater operational flexibility and $NO_x$ control options. Field erected units can also be further categorized as wall-fired or tangential-fired. Wall-fired units are characterized by multiple individual burners located on a single wall or on opposing walls of the furnace while tangential units have several rows of air and fuel nozzles located in each of the four corners of the boiler.

Package units are constructed off-site and shipped to the location where they are needed. While the heat input levels of packaged units may range up to 250 MMBtu/hr, the physical size of these units are constrained by shipping considerations and generally have heat input levels less than 100 MMBtu/hr. Packaged units are always wall-fired units with one or more individual burners. Given the size limitations imposed on packaged boilers, they have limited operational flexibility and cannot feasibly incorporate some $NO_x$ control options.

Firetube boilers are designed such that the hot combustion gases flow through tubes, which heat the water circulating outside of the tubes. These boilers are used primarily for space heating systems, industrial process steam, and portable power boilers. Firetube boilers are almost exclusively packaged units. The two major types of firetube units are Scotch Marine boilers and the older firebox boilers. In cast iron boilers, as in firetube boilers, the hot gases are contained inside the tubes and the water being heated circulates outside the tubes. However, the units are constructed of cast iron rather than steel. Virtually all cast iron boilers are constructed as package boilers. These boilers are used to produce either low-pressure steam or hot water, and are most commonly used in small commercial applications.

Natural gas is also combusted in residential boilers and furnaces. Residential boilers and furnaces generally resemble firetube boilers with flue gas traveling through several channels or tubes with water or air circulated outside the channels or tubes.

## 1.4.3 Emissions[3-4]

The emissions from natural gas-fired boilers and furnaces include nitrogen oxides ($NO_x$), carbon monoxide (CO), and carbon dioxide ($CO_2$), methane ($CH_4$), nitrous oxide ($N_2O$), volatile organic compounds (VOCs), trace amounts of sulfur dioxide ($SO_2$), and particulate matter (PM).

Nitrogen Oxides -

Nitrogen oxides formation occurs by three fundamentally different mechanisms. The principal mechanism of $NO_x$ formation in natural gas combustion is thermal $NO_x$. The thermal $NO_x$ mechanism occurs through the thermal dissociation and subsequent reaction of nitrogen ($N_2$) and oxygen ($O_2$) molecules in the combustion air. Most $NO_x$ formed through the thermal $NO_x$ mechanism occurs in the high temperature flame zone near the burners. The formation of thermal $NO_x$ is affected by three furnace-zone factors: (1) oxygen concentration, (2) peak temperature, and (3) time of exposure at peak temperature. As these three factors increase, $NO_x$ emission levels increase. The emission trends due to changes in these factors are fairly consistent for all types of natural gas-fired boilers and furnaces. Emission levels vary considerably with the type and size of combustor and with operating conditions (e.g., combustion air temperature, volumetric heat release rate, load, and excess oxygen level).

The second mechanism of $NO_x$ formation, called prompt $NO_x$, occurs through early reactions of nitrogen molecules in the combustion air and hydrocarbon radicals from the fuel. Prompt $NO_x$ reactions occur within the flame and are usually negligible when compared to the amount of $NO_x$ formed through the thermal $NO_x$ mechanism. However, prompt $NO_x$ levels may become significant with ultra-low-$NO_x$ burners.

The third mechanism of $NO_x$ formation, called fuel $NO_x$, stems from the evolution and reaction of fuel-bound nitrogen compounds with oxygen. Due to the characteristically low fuel nitrogen content of natural gas, $NO_x$ formation through the fuel $NO_x$ mechanism is insignificant.

Carbon Monoxide -

The rate of CO emissions from boilers depends on the efficiency of natural gas combustion. Improperly tuned boilers and boilers operating at off-design levels decrease combustion efficiency resulting in increased CO emissions. In some cases, the addition of $NO_x$ control systems such as low $NO_x$ burners and flue gas recirculation (FGR) may also reduce combustion efficiency, resulting in higher CO emissions relative to uncontrolled boilers.

Volatile Organic Compounds -

The rate of VOC emissions from boilers and furnaces also depends on combustion efficiency. VOC emissions are minimized by combustion practices that promote high combustion temperatures, long residence times at those temperatures, and turbulent mixing of fuel and combustion air. Trace amounts of VOC species in the natural gas fuel (e.g., formaldehyde and benzene) may also contribute to VOC emissions if they are not completely combusted in the boiler.

Sulfur Oxides -

Emissions of $SO_2$ from natural gas-fired boilers are low because pipeline quality natural gas typically has sulfur levels of 2,000 grains per million cubic feet. However, sulfur-containing odorants are added to natural gas for detecting leaks, leading to small amounts of $SO_2$ emissions. Boilers combusting unprocessed natural gas may have higher $SO_2$ emissions due to higher levels of sulfur in the natural gas. For these units, a sulfur mass balance should be used to determine $SO_2$ emissions.

Particulate Matter -

Because natural gas is a gaseous fuel, filterable PM emissions are typically low. Particulate matter from natural gas combustion has been estimated to be less than 1 micrometer in size and has filterable and condensable fractions. Particulate matter in natural gas combustion are usually larger molecular weight hydrocarbons that are not fully combusted. Increased PM emissions may result from poor air/fuel mixing or maintenance problems.

Greenhouse Gases -[6-9]

$CO_2$, $CH_4$, and $N_2O$ emissions are all produced during natural gas combustion. In properly tuned boilers, nearly all of the fuel carbon (99.9 percent) in natural gas is converted to $CO_2$ during the combustion process. This conversion is relatively independent of boiler or combustor type. Fuel carbon not converted to $CO_2$ results in $CH_4$, CO, and/or VOC emissions and is due to incomplete combustion. Even in boilers operating with poor combustion efficiency, the amount of $CH_4$, CO, and VOC produced is insignificant compared to $CO_2$ levels.

Formation of $N_2O$ during the combustion process is affected by two furnace-zone factors. $N_2O$ emissions are minimized when combustion temperatures are kept high (above 1475°F) and excess oxygen is kept to a minimum (less than 1 percent).

Methane emissions are highest during low-temperature combustion or incomplete combustion, such as the start-up or shut-down cycle for boilers. Typically, conditions that favor formation of $N_2O$ also favor emissions of methane.

1.4.4 Controls[4,10]

$NO_x$ Controls -

Currently, the two most prevalent combustion control techniques used to reduce $NO_x$ emissions from natural gas-fired boilers are flue gas recirculation (FGR) and low $NO_x$ burners. In an FGR system, a portion of the flue gas is recycled from the stack to the burner windbox. Upon entering the windbox, the recirculated gas is mixed with combustion air prior to being fed to the burner. The recycled flue gas consists of combustion products which act as inerts during combustion of the fuel/air mixture. The FGR system reduces $NO_x$ emissions by two mechanisms. Primarily, the recirculated gas acts as a dilutent to reduce combustion temperatures, thus suppressing the thermal $NO_x$ mechanism. To a lesser extent, FGR also reduces $NO_x$ formation by lowering the oxygen concentration in the primary flame zone. The amount of recirculated flue gas is a key operating parameter influencing $NO_x$ emission rates for these systems. An FGR system is normally used in combination with specially designed low $NO_x$ burners capable of sustaining a stable flame with the increased inert gas flow resulting from the use of FGR. When low $NO_x$ burners and FGR are used in combination, these techniques are capable of reducing $NO_x$ emissions by 60 to 90 percent.

Low $NO_x$ burners reduce $NO_x$ by accomplishing the combustion process in stages. Staging partially delays the combustion process, resulting in a cooler flame which suppresses thermal $NO_x$ formation. The two most common types of low $NO_x$ burners being applied to natural gas-fired boilers are staged air burners and staged fuel burners. $NO_x$ emission reductions of 40 to 85 percent (relative to uncontrolled emission levels) have been observed with low $NO_x$ burners.

Other combustion control techniques used to reduce $NO_x$ emissions include staged combustion and gas reburning. In staged combustion (e.g., burners-out-of-service and overfire air), the degree of staging is a key operating parameter influencing $NO_x$ emission rates. Gas reburning is similar to the use of overfire in the use of combustion staging. However, gas reburning injects additional amounts of natural gas in the upper furnace, just before the overfire air ports, to provide increased reduction of $NO_x$ to $NO_2$.

Two postcombustion technologies that may be applied to natural gas-fired boilers to reduce $NO_x$ emissions are selective noncatalytic reduction (SNCR) and selective catalytic reduction (SCR). The SNCR system injects ammonia ($NH_3$) or urea into combustion flue gases (in a specific temperature zone) to reduce $NO_x$ emission. The Alternative Control Techniques (ACT) document for $NO_x$ emissions from utility boilers, maximum SNCR performance was estimated to range from 25 to 40 percent for natural gas-fired boilers.[12] Performance data available from several natural gas fired utility boilers with SNCR show a 24 percent reduction in $NO_x$ for applications on wall-fired boilers and a 13 percent reduction in $NO_x$ for applications on tangential-fired boilers.[11] In many situations, a boiler may have an SNCR system installed to trim $NO_x$ emissions to meet permitted levels. In these cases, the SNCR system may not be operated to achieve maximum $NO_x$ reduction. The SCR system involves injecting $NH_3$ into the flue gas in the presence of a catalyst to reduce $NO_x$ emissions. No data were available on SCR performance on natural gas fired boilers at the time of this publication. However, the ACT Document for utility boilers estimates $NO_x$ reduction efficiencies for SCR control ranging from 80 to 90 percent.[12]

Emission factors for natural gas combustion in boilers and furnaces are presented in Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4.[11] Tables in this section present emission factors on a volume basis ($lb/10^6$ scf). To convert to an energy basis (lb/MMBtu), divide by a heating value of 1,020 MMBtu/$10^6$ scf. For the purposes of developing emission factors, natural gas combustors have been organized into three general categories: large wall-fired boilers with greater than 100 MMBtu/hr of heat input, boilers and residential furnaces with less than 100 MMBtu/hr of heat input, and tangential-fired boilers. Boilers within these categories share the same general design and operating characteristics and hence have similar emission characteristics when combusting natural gas.

Emission factors are rated from A to E to provide the user with an indication of how "good" the factor is, with "A" being excellent and "E" being poor. The criteria that are used to determine a rating for an emission factor can be found in the Emission Factor Documentation for AP-42 Section 1.4 and in the introduction to the AP-42 document.

### 1.4.5 Updates Since the Fifth Edition

The Fifth Edition was released in January 1995. Revisions to this section are summarized below. For further detail, consult the Emission Factor Documentation for this section. These and other documents can be found on the Emission Factor and Inventory Group (EFIG) home page (http://www.epa.gov/ttn/chief).

Supplement D, March 1998

- Text was revised concerning Firing Practices, Emissions, and Controls.
- All emission factors were updated based on 482 data points taken from 151 source tests. Many new emission factors have been added for speciated organic compounds, including hazardous air pollutants.

July 1998 - minor changes

- Footnote D was added to table 1.4-3 to explain why the sum of individual HAP may exceed VOC or TOC, the web address was updated, and the references were reordered.

Table 1.4-1. EMISSION FACTORS FOR NITROGEN OXIDES ($NO_x$) AND CARBON MONOXIDE (CO) FROM NATURAL GAS COMBUSTION[a]

| Combustor Type (MMBtu/hr Heat Input) [SCC] | $NO_x$[b] | | CO | |
|---|---|---|---|---|
| | Emission Factor ($lb/10^6$ scf) | Emission Factor Rating | Emission Factor ($lb/10^6$ scf) | Emission Factor Rating |
| Large Wall-Fired Boilers (>100) [1-01-006-01, 1-02-006-01, 1-03-006-01] | | | | |
| Uncontrolled (Pre-NSPS)[c] | 280 | A | 84 | B |
| Uncontrolled (Post-NSPS)[c] | 190 | A | 84 | B |
| Controlled - Low $NO_x$ burners | 140 | A | 84 | B |
| Controlled - Flue gas recirculation | 100 | D | 84 | B |
| Small Boilers (<100) [1-01-006-02, 1-02-006-02, 1-03-006-02, 1-03-006-03] | | | | |
| Uncontrolled | 100 | B | 84 | B |
| Controlled - Low $NO_x$ burners | 50 | D | 84 | B |
| Controlled - Low $NO_x$ burners/Flue gas recirculation | 32 | C | 84 | B |
| Tangential-Fired Boilers (All Sizes) [1-01-006-04] | | | | |
| Uncontrolled | 170 | A | 24 | C |
| Controlled - Flue gas recirculation | 76 | D | 98 | D |
| Residential Furnaces (<0.3) [No SCC] | | | | |
| Uncontrolled | 94 | B | 40 | B |

[a] Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. To convert from $lb/10^6$ scf to $kg/10^6$ $m^3$, multiply by 16. Emission factors are based on an average natural gas higher heating value of 1,020 Btu/scf. To convert from $lb/10^6$ scf to lb/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. SCC = Source Classification Code. ND = no data. NA = not applicable.

[b] Expressed as $NO_2$. For large and small wall fired boilers with SNCR control, apply a 24 percent reduction to the appropriate $NO_X$ emission factor. For tangential-fired boilers with SNCR control, apply a 13 percent reduction to the appropriate $NO_X$ emission factor.

[c] NSPS=New Source Performance Standard as defined in 40 CFR 60 Subparts D and Db. Post-NSPS units are boilers with greater than 250 MMBtu/hr of heat input that commenced construction modification, or reconstruction after August 17, 1971, and units with heat input capacities between 100 and 250 MMBtu/hr that commenced construction modification, or reconstruction after June 19, 1984.

TABLE 1.4-2. EMISSION FACTORS FOR CRITERIA POLLUTANTS AND GREENHOUSE GASES FROM NATURAL GAS COMBUSTION[a]

| Pollutant | Emission Factor ($lb/10^6$ scf) | Emission Factor Rating |
|---|---|---|
| $CO_2$[b] | 120,000 | A |
| Lead | 0.0005 | D |
| $N_2O$ (Uncontrolled) | 2.2 | E |
| $N_2O$ (Controlled-low-$NO_X$ burner) | 0.64 | E |
| PM (Total)[c] | 7.6 | D |
| PM (Condensable)[c] | 5.7 | D |
| PM (Filterable)[c] | 1.9 | B |
| $SO_2$[d] | 0.6 | A |
| TOC | 11 | B |
| Methane | 2.3 | B |
| VOC | 5.5 | C |

[a] Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. To convert from $lb/10^6$ scf to $kg/10^6$ $m^3$, multiply by 16. To convert from $lb/10^6$ scf to 1b/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. TOC = Total Organic Compounds. VOC = Volatile Organic Compounds.

[b] Based on approximately 100% conversion of fuel carbon to $CO_2$. $CO_2[lb/10^6 \text{ scf}] = (3.67)(CON)(C)(D)$, where CON = fractional conversion of fuel carbon to $CO_2$, C = carbon content of fuel by weight (0.76), and D = density of fuel, $4.2 \times 10^4$ $lb/10^6$ scf.

[c] All PM (total, condensible, and filterable) is assumed to be less than 1.0 micrometer in diameter. Therefore, the PM emission factors presented here may be used to estimate $PM_{10}$, $PM_{2.5}$ or $PM_1$ emissions. Total PM is the sum of the filterable PM and condensible PM. Condensible PM is the particulate matter collected using EPA Method 202 (or equivalent). Filterable PM is the particulate matter collected on, or prior to, the filter of an EPA Method 5 (or equivalent) sampling train.

[d] Based on 100% conversion of fuel sulfur to $SO_2$. Assumes sulfur content is natural gas of 2,000 grains/$10^6$ scf. The $SO_2$ emission factor in this table can be converted to other natural gas sulfur contents by multiplying the $SO_2$ emission factor by the ratio of the site-specific sulfur content (grains/$10^6$ scf) to 2,000 grains/$10^6$ scf.

TABLE 1.4-3. EMISSION FACTORS FOR SPECIATED ORGANIC COMPOUNDS FROM NATURAL GAS COMBUSTION[a]

| CAS No. | Pollutant | Emission Factor ($lb/10^6$ scf) | Emission Factor Rating |
|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene[b, c] | 2.4E-05 | D |
| 56-49-5 | 3-Methylcholanthrene[b, c] | <1.8E-06 | E |
| | 7,12-Dimethylbenz(a)anthracene[b,c] | <1.6E-05 | E |
| 83-32-9 | Acenaphthene[b,c] | <1.8E-06 | E |
| 203-96-8 | Acenaphthylene[b,c] | <1.8E-06 | E |
| 120-12-7 | Anthracene[b,c] | <2.4E-06 | E |
| 56-55-3 | Benz(a)anthracene[b,c] | <1.8E-06 | E |
| 71-43-2 | Benzene[b] | 2.1E-03 | B |
| 50-32-8 | Benzo(a)pyrene[b,c] | <1.2E-06 | E |
| 205-99-2 | Benzo(b)fluoranthene[b,c] | <1.8E-06 | E |
| 191-24-2 | Benzo(g,h,i)perylene[b,c] | <1.2E-06 | E |
| 207-08-9 | Benzo(k)fluoranthene[b,c] | <1.8E-06 | E |
| 106-97-8 | Butane | 2.1E+00 | E |
| 218-01-9 | Chrysene[b,c] | <1.8E-06 | E |
| 53-70-3 | Dibenzo(a,h)anthracene[b,c] | <1.2E-06 | E |
| 25321-22-6 | Dichlorobenzene[b] | 1.2E-03 | E |
| 74-84-0 | Ethane | 3.1E+00 | E |
| 206-44-0 | Fluoranthene[b,c] | 3.0E-06 | E |
| 86-73-7 | Fluorene[b,c] | 2.8E-06 | E |
| 50-00-0 | Formaldehyde[b] | 7.5E-02 | B |
| 110-54-3 | Hexane[b] | 1.8E+00 | E |
| 193-39-5 | Indeno(1,2,3-cd)pyrene[b,c] | <1.8E-06 | E |
| 91-20-3 | Naphthalene[b] | 6.1E-04 | E |
| 109-66-0 | Pentane | 2.6E+00 | E |
| 85-01-8 | Phenanathrene[b,c] | 1.7E-05 | D |
| 74-98-6 | Propane | 1.6E+00 | E |

TABLE 1.4-3. EMISSION FACTORS FOR SPECIATED ORGANIC COMPOUNDS FROM NATURAL GAS COMBUSTION (Continued)

| CAS No. | Pollutant | Emission Factor ($lb/10^6$ scf) | Emission Factor Rating |
|---|---|---|---|
| 129-00-0 | Pyrene[b, c] | 5.0E-06 | E |
| 108-88-3 | Toluene[b] | 3.4E-03 | C |

[a] Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. To convert from $lb/10^6$ scf to $kg/10^6$ $m^3$, multiply by 16. To convert from $1b/10^6$ scf to lb/MMBtu, divide by 1,020. Emission Factors preceeded with a less-than symbol are based on method detection limits.

[b] Hazardous Air Pollutant (HAP) as defined by Section 112(b) of the Clean Air Act.

[c] HAP because it is Polycyclic Organic Matter (POM). POM is a HAP as defined by Section 112(b) of the Clean Air Act.

[d] The sum of individual organic compounds may exceed the VOC and TOC emission factors due to differences in test methods and the availability of test data for each pollutant.

TABLE 1.4-4. EMISSION FACTORS FOR METALS FROM NATURAL GAS COMBUSTION[a]

| CAS No. | Pollutant | Emission Factor ($lb/10^6$ scf) | Emission Factor Rating |
|---|---|---|---|
| 7440-38-2 | Arsenic[b] | 2.0E-04 | E |
| 7440-39-3 | Barium | 4.4E-03 | D |
| 7440-41-7 | Beryllium[b] | <1.2E-05 | E |
| 7440-43-9 | Cadmium[b] | 1.1E-03 | D |
| 7440-47-3 | Chromium[b] | 1.4E-03 | D |
| 7440-48-4 | Cobalt[b] | 8.4E-05 | D |
| 7440-50-8 | Copper | 8.5E-04 | C |
| 7439-96-5 | Manganese[b] | 3.8E-04 | D |
| 7439-97-6 | Mercury[b] | 2.6E-04 | D |
| 7439-98-7 | Molybdenum | 1.1E-03 | D |
| 7440-02-0 | Nickel[b] | 2.1E-03 | C |
| 7782-49-2 | Selenium[b] | <2.4E-05 | E |
| 7440-62-2 | Vanadium | 2.3E-03 | D |
| 7440-66-6 | Zinc | 2.9E-02 | E |

[a] Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. Emission factors preceeded by a less-than symbol are based on method detection limits. To convert from $lb/10^6$ scf to $kg/10^6$ $m^3$, multiply by l6. To convert from $lb/10^6$ scf to 1b/MMBtu, divide by 1,020.

[b] Hazardous Air Pollutant as defined by Section 112(b) of the Clean Air Act.

References For Section 1.4


1. *Exhaust Gases From Combustion And Industrial Processes*, EPA Contract No. EHSD 71-36, Engineering Science, Inc., Washington, DC, October 1971.

2. *Chemical Engineers' Handbook, Fourth Edition*, J. H. Perry, Editor, McGraw-Hill Book Company, New York, NY, 1963.

3. *Background Information Document For Industrial Boilers*, EPA-450/3-82-006a, U. S. Environmental Protection Agency, Research Triangle Park, NC, March 1982.

4. *Background Information Document For Small Steam Generating Units*, EPA-450/3-87-000, U. S . Environmental Protection Agency, Research Triangle Park, NC, 1987.

5. J. L. Muhlbaier, "Particulate and Gaseous Emissions From Natural Gas Furnaces and Water Heaters", *Journal Of The Air Pollution Control Association*, December 1981.

6. L. P. Nelson, *et al.*, *Global Combustion Sources Of Nitrous Oxide Emissions*, Research Project 2333-4 Interim Report, Sacramento: Radian Corporation, 1991.

7. R. L. Peer, *et al.*, *Characterization Of Nitrous Oxide Emission Sources*, Prepared for the U. S. EPA Contract 68-D1-0031, Research Triangle Park, NC: Radian Corporation, 1995.

8. S. D. Piccot, *et al.*, *Emissions and Cost Estimates For Globally Significant Anthropogenic Combustion Sources Of $NO_x$, $N_2O$, $CH_4$, CO, and $CO_2$,* EPA Contract No. 68-02-4288, Research Triangle Park, NC: Radian Corporation, 1990.

9. *Sector-Specific Issues and Reporting Methodologies Supporting the General Guidelines for the Voluntary Reporting of Greenhouse Gases under Section 1605(b) of the Energy Policy Act of 1992* (1994) DOE/PO-0028, Volume 2 of 3, U.S. Department of Energy.

10. J. P. Kesselring and W. V. Krill, "A Low-$NO_x$ Burner For Gas-Fired Firetube Boilers", *Proceedings: 1985 Symposium On Stationary Combustion $NO_x$ Control, Volume 2*, EPRI CS-4360, Electric Power Research Institute, Palo Alto, CA, January 1986.

11. *Emission Factor Documentation for AP-42 Section 1.4—Natural Gas Combustion*, Technical Support Division, Office of Air Quality Planning and Standards, U. S. Environmental Protection Agency, Research Triangle Park, NC, 1997.

12. *Alternate Control Techniques Document - $NO_x$ Emissions from Utility Boilers*, EPA-453/R-94-023, U. S. Environmental Protection Agency, Research Triangle Park, NC, March 1994.

## 5.2 Transportation And Marketing Of Petroleum Liquids[1-3]

### 5.2.1 General

The transportation and marketing of petroleum liquids involve many distinct operations, each of which represents a potential source of evaporation loss. Crude oil is transported from production operations to a refinery by tankers, barges, rail tank cars, tank trucks, and pipelines. Refined petroleum products are conveyed to fuel marketing terminals and petrochemical industries by these same modes. From the fuel marketing terminals, the fuels are delivered by tank trucks to service stations, commercial accounts, and local bulk storage plants. The final destination for gasoline is usually a motor vehicle gasoline tank. Similar distribution paths exist for fuel oils and other petroleum products. A general depiction of these activities is shown in Figure 5.2-1.

### 5.2.2 Emissions And Controls

Evaporative emissions from the transportation and marketing of petroleum liquids may be considered, by storage equipment and mode of transportation used, in four categories:

1. Rail tank cars, tank trucks, and marine vessels: loading, transit, and ballasting losses.
2. Service stations: bulk fuel drop losses and underground tank breathing losses.
3. Motor vehicle tanks: refueling losses.
4. Large storage tanks: breathing, working, and standing storage losses. (See Chapter 7, "Liquid Storage Tanks".)

Evaporative and exhaust emissions are also associated with motor vehicle operation, and these topics are discussed in AP-42 *Volume II: Mobile Sources*.

#### 5.2.2.1 Rail Tank Cars, Tank Trucks, And Marine Vessels -

Emissions from these sources are from loading losses, ballasting losses, and transit losses.

##### 5.2.2.1.1 Loading Losses -

Loading losses are the primary source of evaporative emissions from rail tank car, tank truck, and marine vessel operations. Loading losses occur as organic vapors in "empty" cargo tanks are displaced to the atmosphere by the liquid being loaded into the tanks. These vapors are a composite of (1) vapors formed in the empty tank by evaporation of residual product from previous loads, (2) vapors transferred to the tank in vapor balance systems as product is being unloaded, and (3) vapors generated in the tank as the new product is being loaded. The quantity of evaporative losses from loading operations is, therefore, a function of the following parameters:

- Physical and chemical characteristics of the previous cargo;
- Method of unloading the previous cargo;
- Operations to transport the empty carrier to a loading terminal;
- Method of loading the new cargo; and
- Physical and chemical characteristics of the new cargo.

The principal methods of cargo carrier loading are illustrated in Figure 5.2-2, Figure 5.2-3, and Figure 5.2-4. In the splash loading method, the fill pipe dispensing the cargo is lowered only part way into the cargo tank. Significant turbulence and vapor/liquid contact occur during the splash

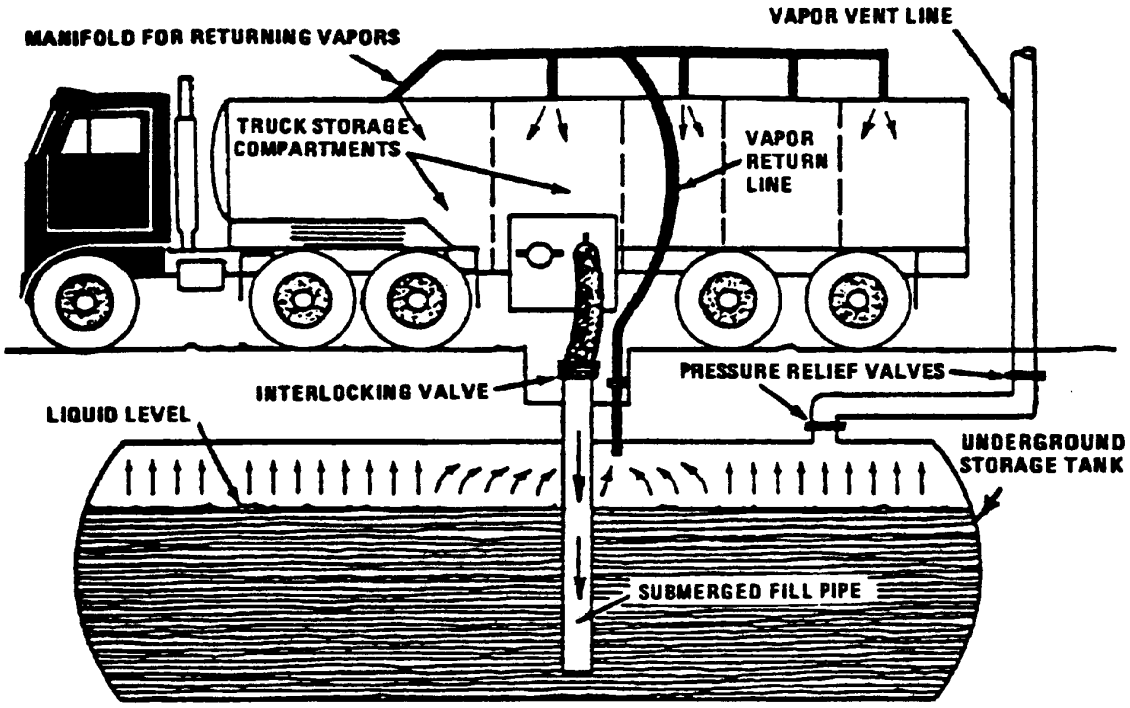



Figure 5.2-5. Tank truck unloading into a service station underground storage tank and practicing "vapor balance" form of emission control.

Table 5.2-1. SATURATION (S) FACTORS FOR CALCULATING PETROLEUM LIQUID LOADING LOSSES

| Cargo Carrier | Mode Of Operation | S Factor |
|---|---|---|
| Tank trucks and rail tank cars | Submerged loading of a clean cargo tank | 0.50 |
| | Submerged loading: dedicated normal service | 0.60 |
| | Submerged loading: dedicated vapor balance service | 1.00 |
| | Splash loading of a clean cargo tank | 1.45 |
| | Splash loading: dedicated normal service | 1.45 |
| | Splash loading: dedicated vapor balance service | 1.00 |
| Marine vessels[a] | Submerged loading: ships | 0.2 |
| | Submerged loading: barges | 0.5 |

[a] For products other than gasoline and crude oil. For marine loading of gasoline, use factors from Table 5.2-2. For marine loading of crude oil, use Equations 2 and 3 and Table 5.2-3.

The saturation factor, S, represents the expelled vapor's fractional approach to saturation, and it accounts for the variations observed in emission rates from the different unloading and loading methods. Table 5.2-1 lists suggested saturation factors.

Emissions from controlled loading operations can be calculated by multiplying the uncontrolled emission rate calculated in Equation 1 by an overall reduction efficiency term:

$$\left(1 - \frac{\text{eff}}{100}\right)$$

The overall reduction efficiency should account for the capture efficiency of the collection system as well as both the control efficiency and any downtime of the control device. Measures to reduce loading emissions include selection of alternate loading methods and application of vapor recovery equipment. The latter captures organic vapors displaced during loading operations and recovers the vapors by the use of refrigeration, absorption, adsorption, and/or compression. The recovered product is piped back to storage. Vapors can also be controlled through combustion in a thermal oxidation unit, with no product recovery. Figure 5.2-6 demonstrates the recovery of gasoline vapors from tank trucks during loading operations at bulk terminals. Control efficiencies for the recovery units range from 90 to over 99 percent, depending on both the nature of the vapors and the type of control equipment used.[5-6] However, not all of the displaced vapors reach the control device, because of leakage from both the tank truck and collection system. The collection efficiency should be assumed to be 99.2 percent for tanker trucks passing the MACT-level annual leak test (not more than 1 inch water column pressure change in 5 minutes after pressurizing to 18 inches water followed by pulling a vacuum of 6 inches water).[7] A collection efficiency of 98.7 percent (a 1.3 percent leakage rate) should be assumed for trucks passing the NSPS-level annual test (3 inches pressure change) A collection efficiency of 70 percent should be assumed for trucks not passing one of these annual leak tests[6].

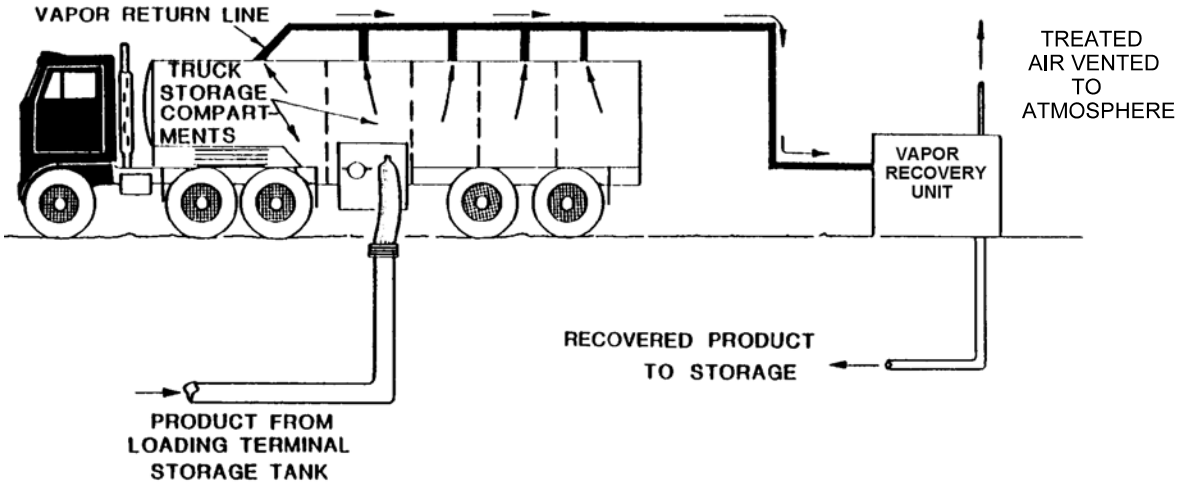



Figure 5.2-6. Tank truck loading with vapor recovery.

Sample Calculation -

Loading losses ($L_L$) from a gasoline tank truck in dedicated vapor balance service and practicing vapor recovery would be calculated as follows, using Equation 1:

Design basis -

Cargo tank volume is 8000 gal
Gasoline Reid vapor pressure (RVP) is 9 psia
Product temperature is 80°F
Vapor recovery efficiency is 95 percent
Vapor collection efficiency is 98.7 percent (NSPS-level annual leak test)

Loading loss equation -

$$L_L = 12.46 \frac{SPM}{T}\left(1 - \frac{eff}{100}\right)$$

where:

S = saturation factor (see Table 5.2-1) - 1.00
P = true vapor pressure of gasoline = 6.6 psia
M = molecular weight of gasoline vapors = 66
T = temperature of gasoline = 540°R
eff = overall reduction efficiency (95 percent control x 98.7 percent collection) = 94 percent

$$L_L = 12.46 \frac{(1.00)(6.6)(66)}{540}\left(1 - \frac{94}{100}\right)$$

$$= 0.60 \text{ lb}/10^3 \text{ gal}$$

Total loading losses are:

$$(0.60 \text{ lb}/10^3 \text{ gal})(8.0 \times 10^3 \text{ gal}) = 4.8 \text{ pounds (lb)}$$

Measurements of gasoline loading losses from ships and barges have led to the development of emission factors for these specific loading operations.[8] These factors are presented in Table 5.2-2 and should be used instead of Equation 1 for gasoline loading operations at marine terminals. Factors are expressed in units of milligrams per liter (mg/L) and pounds per 1000 gallons (lb/$10^3$ gal).

## 3.3 Gasoline And Diesel Industrial Engines

### 3.3.1 General

The engine category addressed by this section covers a wide variety of industrial applications of both gasoline and diesel internal combustion (IC) engines such as aerial lifts, fork lifts, mobile refrigeration units, generators, pumps, industrial sweepers/scrubbers, material handling equipment (such as conveyors), and portable well-drilling equipment. The three primary fuels for reciprocating IC engines are gasoline, diesel fuel oil (No.2), and natural gas. Gasoline is used primarily for mobile and portable engines. Diesel fuel oil is the most versatile fuel and is used in IC engines of all sizes. The rated power of these engines covers a rather substantial range, up to 250 horsepower (hp) for gasoline engines and up to 600 hp for diesel engines. (Diesel engines greater than 600 hp are covered in Section 3.4, "Large Stationary Diesel And All Stationary Dual-fuel Engines".) Understandably, substantial differences in engine duty cycles exist. It was necessary, therefore, to make reasonable assumptions concerning usage in order to formulate some of the emission factors.

### 3.3.2 Process Description

All reciprocating IC engines operate by the same basic process. A combustible mixture is first compressed in a small volume between the head of a piston and its surrounding cylinder. The mixture is then ignited, and the resulting high-pressure products of combustion push the piston through the cylinder. This movement is converted from linear to rotary motion by a crankshaft. The piston returns, pushing out exhaust gases, and the cycle is repeated.

There are 2 methods used for stationary reciprocating IC engines: compression ignition (CI) and spark ignition (SI). This section deals with both types of reciprocating IC engines. All diesel-fueled engines are compression ignited, and all gasoline-fueled engines are spark ignited.

In CI engines, combustion air is first compression heated in the cylinder, and diesel fuel oil is then injected into the hot air. Ignition is spontaneous because the air temperature is above the autoignition temperature of the fuel. SI engines initiate combustion by the spark of an electrical discharge. Usually the fuel is mixed with the air in a carburetor (for gasoline) or at the intake valve (for natural gas), but occasionally the fuel is injected into the compressed air in the cylinder.

CI engines usually operate at a higher compression ratio (ratio of cylinder volume when the piston is at the bottom of its stroke to the volume when it is at the top) than SI engines because fuel is not present during compression; hence there is no danger of premature autoignition. Since engine thermal efficiency rises with increasing pressure ratio (and pressure ratio varies directly with compression ratio), CI engines are more efficient than SI engines. This increased efficiency is gained at the expense of poorer response to load changes and a heavier structure to withstand the higher pressures.[1]

### 3.3.3 Emissions

Most of the pollutants from IC engines are emitted through the exhaust. However, some total organic compounds (TOC) escape from the crankcase as a result of blowby (gases that are vented from the oil pan after they have escaped from the cylinder past the piston rings) and from the fuel tank and carburetor because of evaporation. Nearly all of the TOCs from diesel CI engines enter the

atmosphere from the exhaust. Evaporative losses are insignificant in diesel engines due to the low volatility of diesel fuels.

The primary pollutants from internal combustion engines are oxides of nitrogen ($NO_x$), total organic compounds (TOC), carbon monoxide (CO), and particulates, which include both visible (smoke) and nonvisible emissions. Nitrogen oxide formation is directly related to high pressures and temperatures during the combustion process and to the nitrogen content, if any, of the fuel. The other pollutants, HC, CO, and smoke, are primarily the result of incomplete combustion. Ash and metallic additives in the fuel also contribute to the particulate content of the exhaust. Sulfur oxides ($SO_x$) also appear in the exhaust from IC engines. The sulfur compounds, mainly sulfur dioxide ($SO_2$), are directly related to the sulfur content of the fuel.[2]

3.3.3.1 Nitrogen Oxides -

Nitrogen oxide formation occurs by two fundamentally different mechanisms. The predominant mechanism with internal combustion engines is thermal $NO_x$ which arises from the thermal dissociation and subsequent reaction of nitrogen ($N_2$) and oxygen ($O_2$) molecules in the combustion air. Most thermal $NO_x$ is formed in the high-temperature region of the flame from dissociated molecular nitrogen in the combustion air. Some $NO_x$, called prompt $NO_x$, is formed in the early part of the flame from reaction of nitrogen intermediary species, and HC radicals in the flame. The second mechanism, fuel $NO_x$, stems from the evolution and reaction of fuel-bound nitrogen compounds with oxygen. Gasoline, and most distillate oils have no chemically-bound fuel $N_2$ and essentially all $NO_x$ formed is thermal $NO_x$.

3.3.3.2 Total Organic Compounds -

The pollutants commonly classified as hydrocarbons are composed of a wide variety of organic compounds and are discharged into the atmosphere when some of the fuel remains unburned or is only partially burned during the combustion process. Most unburned hydrocarbon emissions result from fuel droplets that were transported or injected into the quench layer during combustion. This is the region immediately adjacent to the combustion chamber surfaces, where heat transfer outward through the cylinder walls causes the mixture temperatures to be too low to support combustion.

Partially burned hydrocarbons can occur because of poor air and fuel homogeneity due to incomplete mixing, before or during combustion; incorrect air/fuel ratios in the cylinder during combustion due to maladjustment of the engine fuel system; excessively large fuel droplets (diesel engines); and low cylinder temperature due to excessive cooling (quenching) through the walls or early cooling of the gases by expansion of the combustion volume caused by piston motion before combustion is completed.[2]

3.3.3.3 Carbon Monoxide -

Carbon monoxide is a colorless, odorless, relatively inert gas formed as an intermediate combustion product that appears in the exhaust when the reaction of CO to $CO_2$ cannot proceed to completion. This situation occurs if there is a lack of available oxygen near the hydrocarbon (fuel) molecule during combustion, if the gas temperature is too low, or if the residence time in the cylinder is too short. The oxidation rate of CO is limited by reaction kinetics and, as a consequence, can be accelerated only to a certain extent by improvements in air and fuel mixing during the combustion process.[2-3]

3.3.3.4 Smoke and Particulate Matter -

White, blue, and black smoke may be emitted from IC engines. Liquid particulates appear as white smoke in the exhaust during an engine cold start, idling, or low load operation. These are formed in the quench layer adjacent to the cylinder walls, where the temperature is not high enough to ignite the fuel. Blue smoke is emitted when lubricating oil leaks, often past worn piston rings, into the combustion chamber and is partially burned. Proper maintenance is the most effective method of preventing blue smoke emissions from all types of IC engines. The primary constituent of black smoke is agglomerated carbon particles (soot) formed in regions of the combustion mixtures that are oxygen deficient.[2]

3.3.3.5 Sulfur Oxides -

Sulfur oxides emissions are a function of only the sulfur content in the fuel rather than any combustion variables. In fact, during the combustion process, essentially all the sulfur in the fuel is oxidized to $SO_2$. The oxidation of $SO_2$ gives sulfur trioxide ($SO_3$), which reacts with water to give sulfuric acid ($H_2SO_4$), a contributor to acid precipitation. Sulfuric acid reacts with basic substances to give sulfates, which are fine particulates that contribute to PM-10 and visibility reduction. Sulfur oxide emissions also contribute to corrosion of the engine parts.[2-3]

3.3.4 Control Technologies

Control measures to date are primarily directed at limiting $NO_x$ and CO emissions since they are the primary pollutants from these engines. From a $NO_x$ control viewpoint, the most important distinction between different engine models and types of reciprocating engines is whether they are rich-burn or lean-burn. Rich-burn engines have an air-to-fuel ratio operating range that is near stoichiometric or fuel-rich of stoichiometric and as a result the exhaust gas has little or no excess oxygen. A lean-burn engine has an air-to-fuel operating range that is fuel-lean of stoichiometric; therefore, the exhaust from these engines is characterized by medium to high levels of $O_2$. The most common $NO_x$ control technique for diesel and dual-fuel engines focuses on modifying the combustion process. However, selective catalytic reduction (SCR) and nonselective catalytic reduction (NSCR) which are post-combustion techniques are becoming available. Controls for CO have been partly adapted from mobile sources.[4]

Combustion modifications include injection timing retard (ITR), preignition chamber combustion (PCC), air-to-fuel ratio adjustments, and derating. Injection of fuel into the cylinder of a CI engine initiates the combustion process. Retarding the timing of the diesel fuel injection causes the combustion process to occur later in the power stroke when the piston is in the downward motion and combustion chamber volume is increasing. By increasing the volume, the combustion temperature and pressure are lowered, thereby lowering $NO_x$ formation. ITR reduces $NO_x$ from all diesel engines; however, the effectiveness is specific to each engine model. The amount of $NO_x$ reduction with ITR diminishes with increasing levels of retard.[4]

Improved swirl patterns promote thorough air and fuel mixing and may include a precombustion chamber (PCC). A PCC is an antechamber that ignites a fuel-rich mixture that propagates to the main combustion chamber. The high exit velocity from the PCC results in improved mixing and complete combustion of the lean air/fuel mixture which lowers combustion temperature, thereby reducing $NO_x$ emissions.[4]

The air-to-fuel ratio for each cylinder can be adjusted by controlling the amount of fuel that enters each cylinder. At air-to-fuel ratios less than stoichiometric (fuel-rich), combustion occurs under conditions of insufficient oxygen which causes $NO_x$ to decrease because of lower oxygen and lower temperatures. Derating involves restricting the engine operation to lower than normal levels of power production for the given application. Derating reduces cylinder pressures and temperatures, thereby lowering $NO_x$ formation rates.[4]

SCR is an add-on $NO_x$ control placed in the exhaust stream following the engine and involves injecting ammonia ($NH_3$) into the flue gas. The $NH_3$ reacts with $NO_x$ in the presence of a catalyst to form water and nitrogen. The effectiveness of SCR depends on fuel quality and engine duty cycle (load fluctuations). Contaminants in the fuel may poison or mask the catalyst surface causing a reduction or termination in catalyst activity. Load fluctuations can cause variations in exhaust temperature and $NO_x$ concentration which can create problems with the effectiveness of the SCR system.[4]

NSCR is often referred to as a three-way conversion catalyst system because the catalyst reactor simultaneously reduces $NO_x$, CO, and HC and involves placing a catalyst in the exhaust stream of the engine. The reaction requires that the $O_2$ levels be kept low and that the engine be operated at fuel-rich air-to-fuel ratios.[4]

The most accurate method for calculating such emissions is on the basis of "brake-specific" emission factors (pounds per horsepower-hour [lb/hp-hr]). Emissions are the product of the brake-specific emission factor, the usage in hours, the rated power available, and the load factor (the power actually used divided by the power available). However, for emission inventory purposes, it is often easier to assess this activity on the basis of fuel used.

Once reasonable usage and duty cycles for this category were ascertained, emission values were aggregated to arrive at the factors for criteria and organic pollutants presented. Factors in Table 3.3-1 are in pounds per million British thermal unit (lb/MMBtu). Emission data for a specific design type were weighted according to estimated material share for industrial engines. The emission factors in these tables, because of their aggregate nature, are most appropriately applied to a population of industrial engines rather than to an individual power plant. Table 3.3-2 shows unweighted speciated organic compound and air toxic emission factors based upon only 2 engines. Their inclusion in this section is intended for rough order-of-magnitude estimates only.

Table 3.3-3 summarizes whether the various diesel emission reduction technologies (some of which may be applicable to gasoline engines) will generally increase or decrease the selected parameter. These technologies are categorized into fuel modifications, engine modifications, and exhaust after-treatments. Current data are insufficient to quantify the results of the modifications. Table 3.3-3 provides general information on the trends of changes on selected parameters.

### 3.3.5 Updates Since the Fifth Edition

The Fifth Edition was released in January 1995. Revisions to this section since that date are summarized below. For further detail, consult the memoranda describing each supplement or the background report for this section.

Supplement A, February 1996

No changes.

Supplement B, October 1996

- Text was revised concerning emissions and controls.
- The $CO_2$ emission factor was adjusted to reflect 98.5 percent conversion efficiency.

Table 3.3-1. EMISSION FACTORS FOR UNCONTROLLED GASOLINE AND DIESEL INDUSTRIAL ENGINES[a]

| Pollutant | Gasoline Fuel (SCC 2-02-003-01, 2-03-003-01) | | Diesel Fuel (SCC 2-02-001-02, 2-03-001-01) | | EMISSION FACTOR RATING |
|---|---|---|---|---|---|
| | Emission Factor (lb/hp-hr) (power output) | Emission Factor (lb/MMBtu) (fuel input) | Emission Factor (lb/hp-hr) (power output) | Emission Factor (lb/MMBtu) (fuel input) | |
| $NO_x$ | 0.011 | 1.63 | 0.031 | 4.41 | D |
| CO | 6.96 E-03[d] | 0.99[d] | 6.68 E-03 | 0.95 | D |
| $SO_x$ | 5.91 E-04 | 0.084 | 2.05 E-03 | 0.29 | D |
| PM-10[b] | 7.21 E-04 | 0.10 | 2.20 E-03 | 0.31 | D |
| $CO_2$[c] | 1.08 | 154 | 1.15 | 164 | B |
| Aldehydes | 4.85 E-04 | 0.07 | 4.63 E-04 | 0.07 | D |
| TOC | | | | | |
| Exhaust | 0.015 | 2.10 | 2.47 E-03 | 0.35 | D |
| Evaporative | 6.61 E-04 | 0.09 | 0.00 | 0.00 | E |
| Crankcase | 4.85 E-03 | 0.69 | 4.41 E-05 | 0.01 | E |
| Refueling | 1.08 E-03 | 0.15 | 0.00 | 0.00 | E |

[a] References 2,5-6,9-14. When necessary, an average brake-specific fuel consumption (BSFC) of 7,000 Btu/hp-hr was used to convert from lb/MMBtu to lb/hp-hr. To convert from lb/hp-hr to kg/kw-hr, multiply by 0.608. To convert from lb/MMBtu to ng/J, multiply by 430. SCC = Source Classification Code. TOC = total organic compounds.

[b] PM-10 = particulate matter less than or equal to 10 μm aerodynamic diameter. All particulate is assumed to be ≤ 1 μm in size.

[c] Assumes 99% conversion of carbon in fuel to $CO_2$ with 87 weight % carbon in diesel, 86 weight % carbon in gasoline, average BSFC of 7,000 Btu/hp-hr, diesel heating value of 19,300 Btu/lb, and gasoline heating value of 20,300 Btu/lb.

[d] Instead of 0.439 lb/hp-hr (power output) and 62.7 lb/mmBtu (fuel input), the correct emissions factors values are 6.96 E-03 lb/hp-hr (power output) and 0.99 lb/mmBtu (fuel input), respectively. This is an editorial correction. March 24, 2009

Table 3.3-2. SPECIATED ORGANIC COMPOUND EMISSION FACTORS FOR UNCONTROLLED DIESEL ENGINES[a]

EMISSION FACTOR RATING: E

| Pollutant | Emission Factor (Fuel Input) (lb/MMBtu) |
|---|---|
| Benzene[b] | 9.33 E-04 |
| Toluene[b] | 4.09 E-04 |
| Xylenes[b] | 2.85 E-04 |
| Propylene | 2.58 E-03 |
| 1,3-Butadiene[b,c] | <3.91 E-05 |
| Formaldehyde[b] | 1.18 E-03 |
| Acetaldehyde[b] | 7.67 E-04 |
| Acrolein[b] | <9.25 E-05 |
| Polycyclic aromatic hydrocarbons (PAH) | |
| Naphthalene[b] | 8.48 E-05 |
| Acenaphthylene | <5.06 E-06 |
| Acenaphthene | <1.42 E-06 |
| Fluorene | 2.92 E-05 |
| Phenanthrene | 2.94 E-05 |
| Anthracene | 1.87 E-06 |
| Fluoranthene | 7.61 E-06 |
| Pyrene | 4.78 E-06 |
| Benzo(a)anthracene | 1.68 E-06 |
| Chrysene | 3.53 E-07 |
| Benzo(b)fluoranthene | <9.91 E-08 |
| Benzo(k)fluoranthene | <1.55 E-07 |
| Benzo(a)pyrene | <1.88 E-07 |
| Indeno(1,2,3-cd)pyrene | <3.75 E-07 |
| Dibenz(a,h)anthracene | <5.83 E-07 |
| Benzo(g,h,l)perylene | <4.89 E-07 |
| TOTAL PAH | 1.68 E-04 |

[a] Based on the uncontrolled levels of 2 diesel engines from References 6-7. Source Classification Codes 2-02-001-02, 2-03-001-01. To convert from lb/MMBtu to ng/J, multiply by 430.
[b] Hazardous air pollutant listed in the *Clean Air Act*.
[c] Based on data from 1 engine.

Table 3.3-3. EFFECT OF VARIOUS EMISSION CONTROL TECHNOLOGIES ON DIESEL ENGINES[a]

| Technology | Affected Parameter | |
|---|---|---|
| | Increase | Decrease |
| Fuel modifications | | |
| Sulfur content increase | PM, wear | |
| Aromatic content increase | PM, $NO_x$ | |
| Cetane number | | PM, $NO_x$ |
| 10% and 90% boiling point | | PM |
| Fuel additives | | PM, $NO_x$ |
| Water/Fuel emulsions | | $NO_x$ |
| Engine modifications | | |
| Injection timing retard | PM, BSFC | $NO_x$, power |
| Fuel injection pressure | PM, $NO_x$ | |
| Injection rate control | | $NO_x$, PM |
| Rapid spill nozzles | | PM |
| Electronic timing & metering | | $NO_x$, PM |
| Injector nozzle geometry | | PM |
| Combustion chamber modifications | | $NO_x$, PM |
| Turbocharging | PM, power | $NO_x$ |
| Charge cooling | | $NO_x$ |
| Exhaust gas recirculation | PM, power, wear | $NO_x$ |
| Oil consumption control | | PM, wear |
| Exhaust after-treatment | | |
| Particulate traps | | PM |
| Selective catalytic reduction | | $NO_x$ |
| Oxidation catalysts | | TOC, CO, PM |

[a] Reference 8. PM = particulate matter. BSFC = brake-specific fuel consumption.

References For Section 3.3


1. H. I. Lips, *et al., Environmental Assessment Of Combustion Modification Controls For Stationary Internal Combustion Engines*, EPA-600/7-81-127, U. S. Environmental Protection Agency, Cincinnati, OH, July 1981.

2. *Standards Support And Environmental Impact Statement, Volume 1: Stationary Internal Combustion Engines*, EPA-450/2-78-125a, U. S. Environmental Protection Agency, Research Triangle Park, NC, July 1979.

3. M. Hoggan, *et al., Air Quality Trends In California's South Coast And Southeast Desert Air Basins, 1976-1990, Air Quality Management Plan, Appendix II-B*, South Coast Air Quality Management District, July 1991.

4. R. B. Snyder, *Alternative Control Techniques Document .. $NO_x$ Emissions From Stationary Reciprocating Internal Combustion Engines*, EPA-453/R-93-032, U. S. Environmental Protection Agency, Research Triangle Park, July 1993.

5. C. T. Hare and K. J. Springer, *Exhaust Emissions From Uncontrolled Vehicles And Related Equipment Using Internal Combustion Engines, Part 5: Farm, Construction, And Industrial Engines*, APTD-1494, U. S. Environmental Protection Agency, Research Triangle Park, NC, October 1973.

6. *Pooled Source Emission Test Report: Oil And Gas Production Combustion Sources, Fresno And Ventura Counties, California*, ENSR 7230-007-700, Western States Petroleum Association, Bakersfield, CA, December 1990.

7. W. E. Osborn and M. D. McDannel, *Emissions Of Air Toxic Species: Test Conducted Under AB2588 For The Western States Petroleum Association*, CR 72600-2061, Western States Petroleum Association, Glendale, CA, May 1990.

8. *Technical Feasibility Of Reducing $NO_x$ And Particulate Emissions From Heavy-duty Engines*, CARB Contract A132-085, California Air Resources Board, Sacramento, CA, March 1992.

9. G. Marland and R. M. Rotty, *Carbon Dioxide Emissions From Fossil Fuels: A Procedure For Estimation And Results For 1951-1981*, DOE/NBB-0036 TR-003, Carbon Dioxide Research Division, Office of Energy Research, U. S. Department of Energy, Oak Ridge, TN, 1983.

10. A. Rosland, *Greenhouse Gas Emissions in Norway: Inventories and Estimation Methods*, Oslo: Ministry of Environment, 1993.

11. *Sector-Specific Issues and Reporting Methodologies Supporting the General Guidelines for the Voluntary Reporting of Greenhouse Gases under Section 1605(b) of the Energy Policy Act of 1992* (1994) DOE/PO-0028, Volume 2 of 3, U.S. Department of Energy.

12. G. Marland and R. M. Rotty, *Carbon Dioxide Emissions From Fossil Fuels: A Procedure For Estimation And Results For 1950-1982*, Tellus 36B:232-261, 1984.

13. *Inventory Of U. S. Greenhouse Gas Emissions And Sinks: 1990-1991*, EPA-230-R-96-006, U. S. Environmental Protection Agency, Washington, DC, November 1995.

14. *IPCC Guidelines For National Greenhouse Gas Inventories Workbook*, Intergovernmental Panel on Climate Change/Organization for Economic Cooperation and Development, Paris, France, 1995.

## 1.3 Fuel Oil Combustion

### 1.3.1 General[1-3]

Two major categories of fuel oil are burned by combustion sources: distillate oils and residual oils. These oils are further distinguished by grade numbers, with Nos. 1 and 2 being distillate oils; Nos. 5 and 6 being residual oils; and No. 4 being either distillate oil or a mixture of distillate and residual oils. No. 6 fuel oil is sometimes referred to as Bunker C. Distillate oils are more volatile and less viscous than residual oils. They have negligible nitrogen and ash contents and usually contain less than 0.3 percent sulfur (by weight). Distillate oils are used mainly in domestic and small commercial applications, and include kerosene and diesel fuels. Being more viscous and less volatile than distillate oils, the heavier residual oils (Nos. 5 and 6) may need to be heated for ease of handling and to facilitate proper atomization. Because residual oils are produced from the residue remaining after the lighter fractions (gasoline, kerosene, and distillate oils) have been removed from the crude oil, they contain significant quantities of ash, nitrogen, and sulfur. Residual oils are used mainly in utility, industrial, and large commercial applications.

### 1.3.2 Firing Practices[4]

The major boiler configurations for fuel oil-fired combustors are watertube, firetube, cast iron, and tubeless design. Boilers are classified according to design and orientation of heat transfer surfaces, burner configuration, and size. These factors can all strongly influence emissions as well as the potential for controlling emissions.

Watertube boilers are used in a variety of applications ranging from supplying large amounts of process steam to providing space heat for industrial facilities. In a watertube boiler, combustion heat is transferred to water flowing through tubes which line the furnace walls and boiler passes. The tube surfaces in the furnace (which houses the burner flame) absorb heat primarily by radiation from the flames. The tube surfaces in the boiler passes (adjacent to the primary furnace) absorb heat primarily by convective heat transfer.

Firetube boilers are used primarily for heating systems, industrial process steam generators, and portable power boilers. In firetube boilers, the hot combustion gases flow through the tubes while the water being heated circulates outside of the tubes. At high pressures and when subjected to large variations in steam demand, firetube units are more susceptible to structural failure than watertube boilers. This is because the high-pressure steam in firetube units is contained by the boiler walls rather than by multiple small-diameter watertubes, which are inherently stronger. As a consequence, firetube boilers are typically small and are used primarily where boiler loads are relatively constant. Nearly all firetube boilers are sold as packaged units because of their relatively small size.

A cast iron boiler is one in which combustion gases rise through a vertical heat exchanger and out through an exhaust duct. Water in the heat exchanger tubes is heated as it moves upward through the tubes. Cast iron boilers produce low pressure steam or hot water, and generally burn oil or natural gas. They are used primarily in the residential and commercial sectors.

Another type of heat transfer configuration used on smaller boilers is the tubeless design. This design incorporates nested pressure vessels with water in between the shells. Combustion gases are fired into the inner pressure vessel and are then sometimes recirculated outside the second vessel.

Table 1.3-1. CRITERIA POLLUTANT EMISSION FACTORS FOR FUEL OIL COMBUSTION[a]

| Firing Configuration (SCC)[a] | $SO_2$[b] | | $SO_3$[c] | | $NO_x$[d] | | CO[e] | | Filterable PM[f] | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Emission Factor ($lb/10^3$ gal) | EMISSION FACTOR RATING | Emission Factor ($lb/10^3$ gal) | EMISSION FACTOR RATING | Emission Factor ($lb/10^3$ gal) | EMISSION FACTOR RATING | Emission Factor ($lb/10^3$ gal) | EMISSION FACTOR RATING | Emission Factor ($lb/10^3$ gal) | EMISSION FACTOR RATING |
| Boilers > 100 Million Btu/hr | | | | | | | | | | |
| No. 6 oil fired, normal firing (1-01-004-01), (1-02-004-01), (1-03-004-01) | 157S | A | 5.7S | C | 47 | A | 5 | A | 9.19(S)+3.22 | A |
| No. 6 oil fired, normal firing, low $NO_x$ burner (1-01-004-01), (1-02-004-01) | 157S | A | 5.7S | C | 40 | B | 5 | A | 9.19(S)+3.22 | A |
| No. 6 oil fired, tangential firing, (1-01-004-04) | 157S | A | 5.7S | C | 32 | A | 5 | A | 9.19(S)+3.22 | A |
| No. 6 oil fired, tangential firing, low $NO_x$ burner (1-01-004-04) | 157S | A | 5.7S | C | 26 | E | 5 | A | 9.19(S)+3.22 | A |
| No. 5 oil fired, normal firing (1-01-004-05), (1-02-004-04) | 157S | A | 5.7S | C | 47 | B | 5 | A | 10 | B |
| No. 5 oil fired, tangential firing (1-01-004-06) | 157S | A | 5.7S | C | 32 | B | 5 | A | 10 | B |
| No. 4 oil fired, normal firing (1-01-005-04), (1-02-005-04) | 150S | A | 5.7S | C | 47 | B | 5 | A | 7 | B |
| No. 4 oil fired, tangential firing (1-01-005-05) | 150S | A | 5.7S | C | 32 | B | 5 | A | 7 | B |
| No. 2 oil fired (1-01-005-01), (1-02-005-01), (1-03-005-01) | 142S[h] | A | 5.7S | C | 24 | D | 5 | A | 2 | A |
| No.2 oil fired, LNB/FGR, (1-01-005-01), (1-02-005-01), (1-03-005-01) | 142S[h] | A | 5.7S | A | 10 | D | 5 | A | 2 | A |

Table 1.3-1. (cont.)

| Firing Configuration (SCC)[a] | $SO_2$[b] | | $SO_3$[c] | | $NO_x$[d] | | CO[e] | | Filterable PM[f] | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Emission Factor ($lb/10^3$ gal) | EMISSION FACTOR RATING | Emission Factor ($lb/10^3$ gal) | EMISSION FACTOR RATING | Emission Factor ($lb/10^3$ gal) | EMISSION FACTOR RATING | Emission Factor ($lb/10^3$ gal) | EMISSION FACTOR RATING | Emission Factor ($lb/10^3$ gal) | EMISSION FACTOR RATING |
| Boilers < 100 Million Btu/hr | | | | | | | | | | |
| No. 6 oil fired (1-02-004-02/03) (1-03-004-02/03) | 157S | A | 2S | A | 55 | A | 5 | A | 9.19(S)+3.22[i] | B |
| No. 5 oil fired (1-03-004-04) | 157S | A | 2S | A | 55 | A | 5 | A | 10[i] | A |
| No. 4 oil fired (1-03-005-04) | 150S | A | 2S | A | 20 | A | 5 | A | 7 | B |
| Distillate oil fired (1-02-005-02/03) (1-03-005-02/03) | 142S | A | 2S | A | 20 | A | 5 | A | 2 | A |
| Residential furnace (A2104004/A2104011) | 142S | A | 2S | A | 18 | A | 5 | A | 0.4[g] | B |

a To convert from lb/103 gal to kg/103 L, multiply by 0.120. SCC = Source Classification Code.
b References 1-2,6-9,14,56-60. S indicates that the weight % of sulfur in the oil should be multiplied by the value given. For example, if the fuel is 1% sulfur, then S = 1.
c References 1-2,6-8,16,57-60. S indicates that the weight % of sulfur in the oil should be multiplied by the value given. For example, if the fuel is 1% sulfur, then S = 1.
d References 6-7,15,19,22,56-62. Expressed as NO2. Test results indicate that at least 95% by weight of NOx is NO for all boiler types except residential furnaces, where about 75% is NO. For utility vertical fired boilers use 105 lb/103 gal at full load and normal (>15%) excess air. Nitrogen oxides emissions from residual oil combustion in industrial and commercial boilers are related to fuel nitrogen content, estimated by the following empirical relationship: lb NO2 /103 gal = 20.54 + 104.39(N), where N is the weight % of nitrogen in the oil. For example, if the fuel is 1% nitrogen, then N = 1.
e References 6-8,14,17-19,56-61. CO emissions may increase by factors of 10 to 100 if the unit is improperly operated or not well maintained.
f References 6-8,10,13-15,56-60,62-63. Filterable PM is that particulate collected on or prior to the filter of an EPA Method 5 (or equivalent) sampling train. Particulate emission factors for residual oil combustion are, on average, a function of fuel oil sulfur content where S is the weight % of sulfur in oil. For example, if fuel oil is 1% sulfur, then S = 1.
g Based on data from new burner designs. Pre-1970's burner designs may emit filterable PM as high as 3.0 1b/103 gal.
h The SO2 emission factor for both no. 2 oil fired and for no. 2 oil fired with LNB/FGR, is 142S, not 157S. Errata dated April 28, 2000. Section corrected May 2010.
i The PM factors for No.6 and No. 5 fuel were reversed. Errata dated April 28, 2000. Section corrected May 2010.

Table 1.3-2. CONDENSABLE PARTICULATE MATTER EMISSION FACTORS FOR OIL COMBUSTION[a]

| Firing Configuration[b] (SCC) | Controls | CPM - TOT[c, d] | | CPM - IOR[c, d] | | CPM - ORG[c, d] | |
|---|---|---|---|---|---|---|---|
| | | Emission Factor (lb/$10^3$ gal) | EMISSION FACTOR RATING | Emission Factor (lb/$10^3$ gal) | EMISSION FACTOR RATING | Emission Factor (lb/$10^3$ gal) | EMISSION FACTOR RATING |
| No. 2 oil fired (1-01-005-01, 1-02-005-01, 1-03-005-01) | All controls, or uncontrolled | 1.3[d, e] | D | 65% of CPM-TOT emission factor[c] | D | 35% of CPM-TOT emission factor[c] | D |
| No. 6 oil fired (1-01-004-01/04, 1-02-004-01, 1-03-004-01) | All controls, or uncontrolled | 1.5[f] | D | 85% of CPM-TOT emission factor[d] | E | 15% of CPM-TOT emission factor[d] | E |

[a] All condensable PM is assumed to be less than 1.0 micron in diameter.
[b] No data are available for numbers 3, 4, and 5 oil. For number 3 oil, use the factors provided for number 2 oil. For numbers 4 and 5 oil, use the factors provided for number 6 oil.
[c] CPM-TOT = total condensable particulate matter.
CPM-IOR = inorganic condensable particulate matter.
CPM-ORG = organic condensable particulate matter.
[d] To convert to lb/MMBtu of No. 2 oil, divide by 140 MMBtu/$10^3$ gal. To convert to lb/MMBtu of No. 6 oil, divide by 150 MMBtu/$10^3$ gal.
[e] References: 76-78.
[f] References: 79-82.

## 13.2.2 Unpaved Roads

### 13.2.2.1 General

When a vehicle travels an unpaved road, the force of the wheels on the road surface causes pulverization of surface material. Particles are lifted and dropped from the rolling wheels, and the road surface is exposed to strong air currents in turbulent shear with the surface. The turbulent wake behind the vehicle continues to act on the road surface after the vehicle has passed.

The particulate emission factors presented in the previous draft version of this section of AP-42, dated October 2001, implicitly included the emissions from vehicles in the form of exhaust, brake wear, and tire wear as well as resuspended road surface material[25]. EPA included these sources in the emission factor equation for unpaved public roads (equation 1b in this section) since the field testing data used to develop the equation included both the direct emissions from vehicles and emissions from resuspension of road dust.

This version of the unpaved public road emission factor equation only estimates particulate emissions from resuspended road surface material [23, 26]. The particulate emissions from vehicle exhaust, brake wear, and tire wear are now estimated separately using EPA's MOBILE6.2 [24]. This approach eliminates the possibility of double counting emissions. Double counting results when employing the previous version of the emission factor equation in this section and MOBILE6.2 to estimate particulate emissions from vehicle traffic on unpaved public roads. It also incorporates the decrease in exhaust emissions that has occurred since the unpaved public road emission factor equation was developed. The previous version of the unpaved public road emission factor equation includes estimates of emissions from exhaust, brake wear, and tire wear based on emission rates for vehicles in the 1980 calendar year fleet. The amount of PM released from vehicle exhaust has decreased since 1980 due to lower new vehicle emission standards and changes in fuel characteristics.

### 13.2.2.2 Emissions Calculation And Correction Parameters[1-6]

The quantity of dust emissions from a given segment of unpaved road varies linearly with the volume of traffic. Field investigations also have shown that emissions depend on source parameters that characterize the condition of a particular road and the associated vehicle traffic. Characterization of these source parameters allow for "correction" of emission estimates to specific road and traffic conditions present on public and industrial roadways.

Dust emissions from unpaved roads have been found to vary directly with the fraction of silt (particles smaller than 75 micrometers [μm] in diameter) in the road surface materials.[1] The silt fraction is determined by measuring the proportion of loose dry surface dust that passes a 200-mesh screen, using the ASTM-C-136 method. A summary of this method is contained in Appendix C of AP-42. Table 13.2.2-1 summarizes measured silt values for industrial unpaved roads. Table 13.2.2-2 summarizes measured silt values for public unpaved roads. It should be noted that the ranges of silt content vary over two orders of magnitude. Therefore, the use of data from this table can potentially introduce considerable error. Use of this data is strongly discouraged when it is feasible to obtain locally gathered data.

Since the silt content of a rural dirt road will vary with geographic location, it should be measured for use in projecting emissions. As a conservative approximation, the silt content of the parent soil in the area can be used. Tests, however, show that road silt content is normally lower than in the surrounding parent soil, because the fines are continually removed by the vehicle traffic, leaving a higher percentage of coarse particles.

Other variables are important in addition to the silt content of the road surface material. For example, at industrial sites, where haul trucks and other heavy equipment are common, emissions are highly correlated with vehicle weight. On the other hand, there is far less variability in the weights of cars and pickup trucks that commonly travel publicly accessible unpaved roads throughout the United States. For those roads, the moisture content of the road surface material may be more dominant in determining differences in emission levels between, for example a hot, desert environment and a cool, moist location.

The PM-10 and TSP emission factors presented below are the outcomes from stepwise linear regressions of field emission test results of vehicles traveling over unpaved surfaces. Due to a limited amount of information available for PM-2.5, the expression for that particle size range has been scaled against the result for PM-10. Consequently, the quality rating for the PM-2.5 factor is lower than that for the PM-10 expression.

## 13.2.2 Unpaved Roads

### 13.2.2.1 General

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Since the silt content of a rural dirt road will vary with geographic location, it should be measured for use in projecting emissions. As a conservative approximation, the silt content of the parent soil in the area can be used. Tests, however, show that road silt content is normally lower than in the surrounding parent soil, because the fines are continually removed by the vehicle traffic, leaving a higher percentage of coarse particles.

Other variables are important in addition to the silt content of the road surface material. For example, at industrial sites, where haul trucks and other heavy equipment are common, emissions are highly correlated with vehicle weight. On the other hand, there is far less variability in the weights of cars and pickup trucks that commonly travel publicly accessible unpaved roads throughout the United States. For those roads, the moisture content of the road surface material may be more dominant in determining differences in emission levels between, for example a hot, desert environment and a cool, moist location.

The PM-10 and TSP emission factors presented below are the outcomes from stepwise linear regressions of field emission test results of vehicles traveling over unpaved surfaces. Due to a limited amount of information available for PM-2.5, the expression for that particle size range has been scaled against the result for PM-10. Consequently, the quality rating for the PM-2.5 factor is lower than that for the PM-10 expression.

Table 13.2.2-1. TYPICAL SILT CONTENT VALUES OF SURFACE MATERIAL ON INDUSTRIAL UNPAVED ROADS[a]

| Industry | Road Use Or Surface Material | Plant Sites | No. Of Samples | Silt Content (%) | |
|---|---|---|---|---|---|
| | | | | Range | Mean |
| Copper smelting | Plant road | 1 | 3 | 16 - 19 | 17 |
| Iron and steel production | Plant road | 19 | 135 | 0.2 - 19 | 6.0 |
| Sand and gravel processing | Plant road | 1 | 3 | 4.1 - 6.0 | 4.8 |
| | Material storage area | 1 | 1 | - | 7.1 |
| Stone quarrying and processing | Plant road | 2 | 10 | 2.4 - 16 | 10 |
| | Haul road to/from pit | 4 | 20 | 5.0-15 | 8.3 |
| Taconite mining and processing | Service road | 1 | 8 | 2.4 - 7.1 | 4.3 |
| | Haul road to/from pit | 1 | 12 | 3.9 - 9.7 | 5.8 |
| Western surface coal mining | Haul road to/from pit | 3 | 21 | 2.8 - 18 | 8.4 |
| | Plant road | 2 | 2 | 4.9 - 5.3 | 5.1 |
| | Scraper route | 3 | 10 | 7.2 - 25 | 17 |
| | Haul road (freshly graded) | 2 | 5 | 18 - 29 | 24 |
| Construction sites | Scraper routes | 7 | 20 | 0.56-23 | 8.5 |
| Lumber sawmills | Log yards | 2 | 2 | 4.8-12 | 8.4 |
| Municipal solid waste landfills | Disposal routes | 4 | 20 | 2.2 - 21 | 6.4 |

[a]References 1,5-15.

The following empirical expressions may be used to estimate the quantity in pounds (lb) of size-specific particulate emissions from an unpaved road, per vehicle mile traveled (VMT):

For vehicles traveling on unpaved surfaces at industrial sites, emissions are estimated from the following equation:

$$E = k\,(s/12)^a (W/3)^b \quad (1a)$$

and, for vehicles traveling on publicly accessible roads, dominated by light duty vehicles, emissions may be estimated from the following:

$$E = \frac{k\,(s/12)^a (S/30)^d}{(M/0.5)^c} - C \quad (1b)$$

where k, a, b, c and d are empirical constants (Reference 6) given below and

E = size-specific emission factor (lb/VMT)
s = surface material silt content (%)
W = mean vehicle weight (tons)
M = surface material moisture content (%)
S = mean vehicle speed (mph)
*C* = emission factor for 1980's vehicle fleet exhaust, brake wear and tire wear.

The source characteristics s, W and M are referred to as correction parameters for adjusting the emission estimates to local conditions. The metric conversion from lb/VMT to grams (g) per vehicle kilometer traveled (VKT) is as follows:

1 lb/VMT = 281.9 g/VKT

The constants for Equations 1a and 1b based on the stated aerodynamic particle sizes are shown in Tables 13.2.2-2 and 13.2.2-4. The PM-2.5 particle size multipliers (k-factors) are taken from Reference 27.

Table 13.2.2-2. CONSTANTS FOR EQUATIONS 1a AND 1b

| Constant | Industrial Roads (Equation 1a) | | | Public Roads (Equation 1b) | | |
|---|---|---|---|---|---|---|
| | PM-2.5 | PM-10 | PM-30* | PM-2.5 | PM-10 | PM-30* |
| k (lb/VMT) | 0.15 | 1.5 | 4.9 | 0.18 | 1.8 | 6.0 |
| a | 0.9 | 0.9 | 0.7 | 1 | 1 | 1 |
| b | 0.45 | 0.45 | 0.45 | - | - | - |
| c | - | - | - | 0.2 | 0.2 | 0.3 |
| d | - | - | - | 0.5 | 0.5 | 0.3 |
| Quality Rating | B | B | B | B | B | B |

*Assumed equivalent to total suspended particulate matter (TSP)
"-" = not used in the emission factor equation

Table 13.2.2-2 also contains the quality ratings for the various size-specific versions of Equation 1a and 1b. The equation retains the assigned quality rating, if applied within the ranges of source conditions, shown in Table 13.2.2-3, that were tested in developing the equation:

Table 13.2.2-3. RANGE OF SOURCE CONDITIONS USED IN DEVELOPING EQUATION 1a AND 1b

| Emission Factor | Surface Silt Content, % | Mean Vehicle Weight | | Mean Vehicle Speed | | Mean No. of Wheels | Surface Moisture Content, % |
|---|---|---|---|---|---|---|---|
| | | Mg | ton | km/hr | mph | | |
| Industrial Roads (Equation 1a) | 1.8-25.2 | 1.8-260 | 2-290 | 8-69 | 5-43 | 4-17[a] | 0.03-13 |
| Public Roads (Equation 1b) | 1.8-35 | 1.4-2.7 | 1.5-3 | 16-88 | 10-55 | 4-4.8 | 0.03-13 |

[a] See discussion in text.

As noted earlier, the models presented as Equations 1a and 1b were developed from tests of traffic on unpaved surfaces. Unpaved roads have a hard, generally nonporous surface that usually dries quickly after a rainfall or watering, because of traffic-enhanced natural evaporation. (Factors influencing how fast a road dries are discussed in Section 13.2.2.3, below.) The quality ratings given above pertain to the mid-range of the measured source conditions for the equation. A higher mean vehicle weight and a higher than normal traffic rate may be justified when performing a worst-case analysis of emissions from unpaved roads.

The emission factors for the exhaust, brake wear and tire wear of a 1980's vehicle fleet (*C*) was obtained from EPA's MOBILE6.2 model [23]. The emission factor also varies with aerodynamic size range

as shown in Table 13.2.2-4

Table 13.2.2-4. EMISSION FACTOR FOR 1980'S VEHICLE FLEET EXHAUST, BRAKE WEAR AND TIRE WEAR

| Particle Size Range[a] | *C*, Emission Factor for Exhaust, Brake Wear and Tire Wear[b] lb/VMT |
|---|---|
| $PM_{2.5}$ | 0.00036 |
| $PM_{10}$ | 0.00047 |
| $PM_{30}$[c] | 0.00047 |

[a] Refers to airborne particulate matter (PM-x) with an aerodynamic diameter equal to or less than x micrometers.
[b] Units shown are pounds per vehicle mile traveled (lb/VMT).
[c] PM-30 is sometimes termed "suspendable particulate" (SP) and is often used as a surrogate for TSP.

It is important to note that the vehicle-related source conditions refer to the average weight, speed, and number of wheels for all vehicles traveling the road. For example, if 98 percent of traffic on the road are 2-ton cars and trucks while the remaining 2 percent consists of 20-ton trucks, then the mean weight is 2.4 tons. More specifically, Equations 1a and 1b are *not* intended to be used to calculate a separate emission factor for each vehicle class within a mix of traffic on a given unpaved road. That is, in the example, one should *not* determine one factor for the 2-ton vehicles and a second factor for the 20-ton trucks. Instead, only one emission factor should be calculated that represents the "fleet" average of 2.4 tons for all vehicles traveling the road.

Moreover, to retain the quality ratings when addressing a group of unpaved roads, it is necessary that reliable correction parameter values be determined for the road in question. The field and laboratory procedures for determining road surface silt and moisture contents are given in AP-42 Appendices C.1 and C.2. Vehicle-related parameters should be developed by recording visual observations of traffic. In some cases, vehicle parameters for industrial unpaved roads can be determined by reviewing maintenance records or other information sources at the facility.

In the event that site-specific values for correction parameters cannot be obtained, then default values may be used.In the absence of site-specific silt content information, an appropriate mean value from Table 13.2.2-1 may be used as a default value, but the quality rating of the equation is reduced by two letters. Because of significant differences found between different types of road surfaces and between different areas of the country, use of the default moisture content value of 0.5 percent in Equation 1b is discouraged. The quality rating should be downgraded two letters when the default moisture content value is used. (It is assumed that readers addressing industrial roads have access to the information needed to develop average vehicle information in Equation 1a for their facility.)

The effect of routine watering to control emissions from unpaved roads is discussed below in Section 13.2.2.3, “Controls”. However, all roads are subject to some natural mitigation because of rainfall and other precipitation. The Equation 1a and 1b emission factors can be extrapolated to annual

average uncontrolled conditions (but including natural mitigation) under the simplifying assumption that annual average emissions are inversely proportional to the number of days with measurable (more than 0.254 mm [0.01 inch]) precipitation:

$$E_{ext} = E\ [(365 - P)/365] \quad (2)$$

where:

$E_{ext}$ = annual size-specific emission factor extrapolated for natural mitigation, lb/VMT

E = emission factor from Equation 1a or 1b

P = number of days in a year with at least 0.254 mm (0.01 in) of precipitation (see below)

Figure 13.2.2-1 gives the geographical distribution for the mean annual number of "wet" days for the United States.

Equation 2 provides an estimate that accounts for precipitation on an annual average basis for the purpose of inventorying emissions. It should be noted that Equation 2 does not account for differences in the temporal distributions of the rain events, the quantity of rain during any event, or the potential for the rain to evaporate from the road surface. In the event that a finer temporal and spatial resolution is desired for inventories of public unpaved roads, estimates can be based on a more complex set of assumptions. These assumptions include:

1. The moisture content of the road surface material is increased in proportion to the quantity of water added;
2. The moisture content of the road surface material is reduced in proportion to the Class A pan evaporation rate;
3. The moisture content of the road surface material is reduced in proportion to the traffic volume; and
4. The moisture content of the road surface material varies between the extremes observed in the area. The CHIEF Web site (http://www.epa.gov/ttn/chief/ap42/ch13/related/c13s02-2.html) has a file which contains a spreadsheet program for calculating emission factors which are temporally and spatially resolved. Information required for use of the spreadsheet program includes monthly Class A pan evaporation values, hourly meteorological data for precipitation, humidity and snow cover, vehicle traffic information, and road surface material information.

It is emphasized that the simple assumption underlying Equation 2 and the more complex set of assumptions underlying the use of the procedure which produces a finer temporal and spatial resolution have not been verified in any rigorous manner. For this reason, the quality ratings for either approach should be downgraded one letter from the rating that would be applied to Equation 1.

### 13.2.2.3 Controls[18-22]

A wide variety of options exist to control emissions from unpaved roads. Options fall into the following three groupings:

1. Vehicle restrictions that limit the speed, weight or number of vehicles on the road;

2. Surface improvement, by measures such as (a) paving or (b) adding gravel or slag to a dirt road; and
3. Surface treatment, such as watering or treatment with chemical dust suppressants.

Available control options span broad ranges in terms of cost, efficiency, and applicability. For example, traffic controls provide moderate emission reductions (often at little cost) but are difficult to enforce. Although paving is highly effective, its high initial cost is often prohibitive. Furthermore, paving is not feasible for industrial roads subject to very heavy vehicles and/or spillage of material in transport. Watering and chemical suppressants, on the other hand, are potentially applicable to most industrial roads at moderate to low costs. However, these require frequent reapplication to maintain an acceptable level of control. Chemical suppressants are generally more cost-effective than water but not in cases of temporary roads (which are common at mines, landfills, and construction sites). In summary, then, one needs to consider not only the type and volume of traffic on the road but also how long the road will be in service when developing control plans.

Vehicle restrictions. These measures seek to limit the amount and type of traffic present on the road or to lower the mean vehicle speed. For example, many industrial plants have restricted employees from driving on plant property and have instead instituted bussing programs. This eliminates emissions due to employees traveling to/from their worksites. Although the heavier average vehicle weight of the busses increases the base emission factor, the decrease in vehicle-miles-traveled results in a lower overall emission rate.

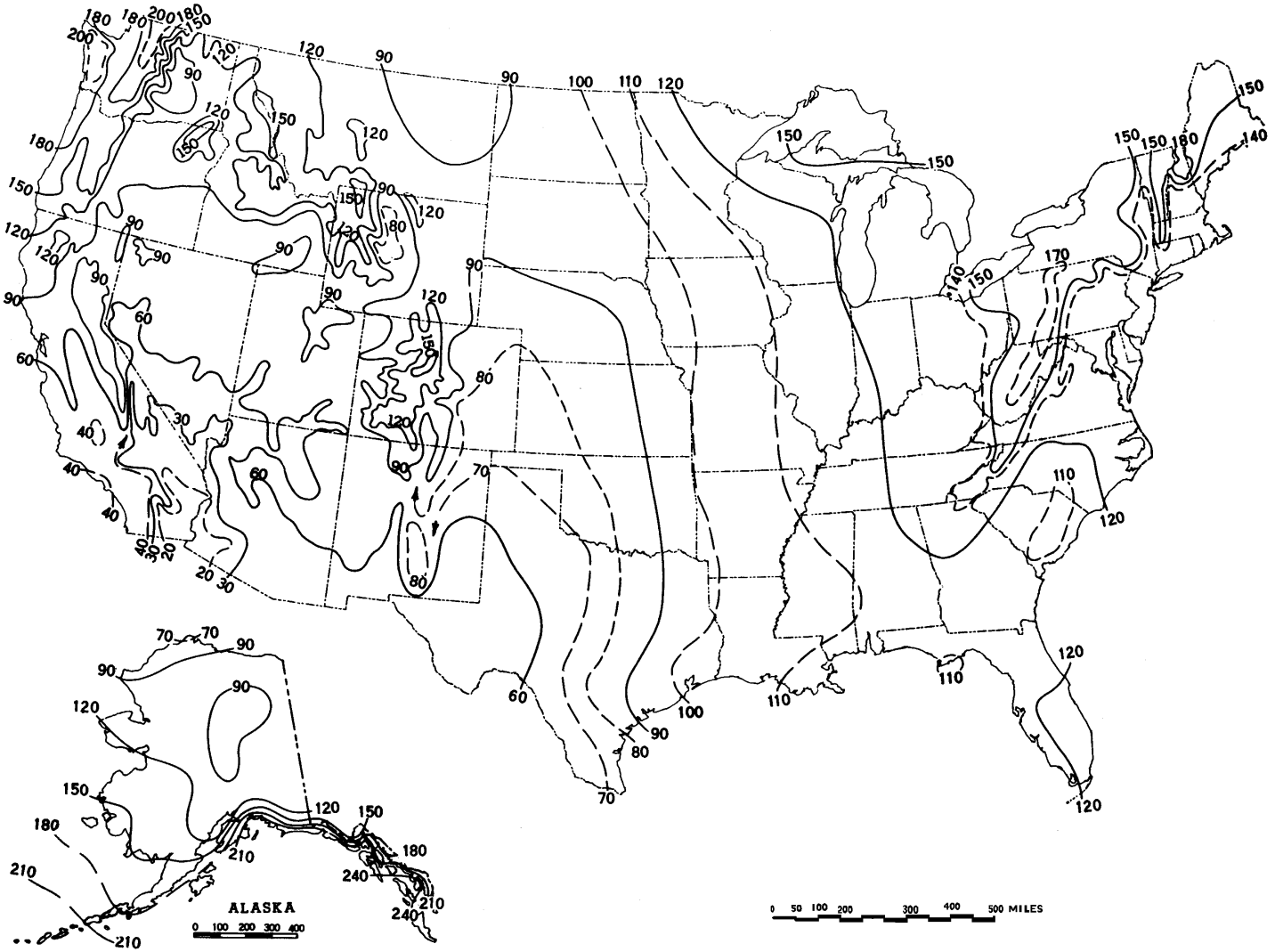



Figure 13.2.2-1. Mean number of days with 0.01 inch or more of precipitation in United States.

## 3.4 Large Stationary Diesel And All Stationary Dual-fuel Engines

### 3.4.1 General

The primary domestic use of large stationary diesel engines (greater than 600 horsepower [hp]) is in oil and gas exploration and production. These engines, in groups of 3 to 5, supply mechanical power to operate drilling (rotary table), mud pumping, and hoisting equipment, and may also operate pumps or auxiliary power generators. Another frequent application of large stationary diesels is electricity generation for both base and standby service. Smaller uses include irrigation, hoisting, and nuclear power plant emergency cooling water pump operation.

Dual-fuel engines were developed to obtain compression ignition performance and the economy of natural gas, using a minimum of 5 to 6 percent diesel fuel to ignite the natural gas. Large dual-fuel engines have been used almost exclusively for prime electric power generation. This section includes all dual-fuel engines.

### 3.4.2 Process Description

All reciprocating internal combustion (IC) engines operate by the same basic process. A combustible mixture is first compressed in a small volume between the head of a piston and its surrounding cylinder. The mixture is then ignited, and the resulting high-pressure products of combustion push the piston through the cylinder. This movement is converted from linear to rotary motion by a crankshaft. The piston returns, pushing out exhaust gases, and the cycle is repeated.

There are 2 ignition methods used in stationary reciprocating IC engines, compression ignition (CI) and spark ignition (SI). In CI engines, combustion air is first compression heated in the cylinder, and diesel fuel oil is then injected into the hot air. Ignition is spontaneous because the air temperature is above the autoignition temperature of the fuel. SI engines initiate combustion by the spark of an electrical discharge. Usually the fuel is mixed with the air in a carburetor (for gasoline) or at the intake valve (for natural gas), but occasionally the fuel is injected into the compressed air in the cylinder. Although all diesel- fueled engines are compression ignited and all gasoline- and gas-fueled engines are spark ignited, gas can be used in a CI engine if a small amount of diesel fuel is injected into the compressed gas/air mixture to burn any mixture ratio of gas and diesel oil (hence the name dual fuel), from 6 to 100 percent diesel oil.

CI engines usually operate at a higher compression ratio (ratio of cylinder volume when the piston is at the bottom of its stroke to the volume when it is at the top) than SI engines because fuel is not present during compression; hence there is no danger of premature autoignition. Since engine thermal efficiency rises with increasing pressure ratio (and pressure ratio varies directly with compression ratio), CI engines are more efficient than SI engines. This increased efficiency is gained at the expense of poorer response to load changes and a heavier structure to withstand the higher pressures.[1]

### 3.4.3 Emissions And Controls

Most of the pollutants from IC engines are emitted through the exhaust. However, some total organic compounds (TOC) escape from the crankcase as a result of blowby (gases that are vented from the oil pan after they have escaped from the cylinder past the piston rings) and from the fuel tank

and carburetor because of evaporation. Nearly all of the TOCs from diesel CI engines enter the atmosphere from the exhaust. Crankcase blowby is minor because TOCs are not present during compression of the charge. Evaporative losses are insignificant in diesel engines due to the low volatility of diesel fuels. In general, evaporative losses are also negligible in engines using gaseous fuels because these engines receive their fuel continuously from a pipe rather than via a fuel storage tank and fuel pump.

The primary pollutants from internal combustion engines are oxides of nitrogen ($NO_x$), hydrocarbons and other organic compounds, carbon monoxide (CO), and particulates, which include both visible (smoke) and nonvisible emissions. Nitrogen oxide formation is directly related to high pressures and temperatures during the combustion process and to the nitrogen content, if any, of the fuel. The other pollutants, HC, CO, and smoke, are primarily the result of incomplete combustion. Ash and metallic additives in the fuel also contribute to the particulate content of the exhaust. Sulfur oxides also appear in the exhaust from IC engines. The sulfur compounds, mainly sulfur dioxide ($SO_2$), are directly related to the sulfur content of the fuel.[2]

3.4.3.1 Nitrogen Oxides -

Nitrogen oxide formation occurs by two fundamentally different mechanisms. The predominant mechanism with internal combustion engines is thermal $NO_x$ which arises from the thermal dissociation and subsequent reaction of nitrogen ($N_2$) and oxygen ($O_2$) molecules in the combustion air. Most thermal $NO_x$ is formed in the high-temperature region of the flame from dissociated molecular nitrogen in the combustion air. Some $NO_x$, called prompt $NO_x$, is formed in the early part of the flame from reaction of nitrogen intermediary species, and HC radicals in the flame. The second mechanism, fuel $NO_x$, stems from the evolution and reaction of fuel-bound nitrogen compounds with oxygen. Gasoline, and most distillate oils, have no chemically-bound fuel $N_2$ and essentially all $NO_x$ formed is thermal $NO_x$.

3.4.3.2 Total Organic Compounds -

The pollutants commonly classified as hydrocarbons are composed of a wide variety of organic compounds and are discharged into the atmosphere when some of the fuel remains unburned or is only partially burned during the combustion process. Most unburned hydrocarbon emissions result from fuel droplets that were transported or injected into the quench layer during combustion. This is the region immediately adjacent to the combustion chamber surfaces, where heat transfer outward through the cylinder walls causes the mixture temperatures to be too low to support combustion.

Partially burned hydrocarbons can occur because of poor air and fuel homogeneity due to incomplete mixing, before or during combustion; incorrect air/fuel ratios in the cylinder during combustion due to maladjustment of the engine fuel system; excessively large fuel droplets (diesel engines); and low cylinder temperature due to excessive cooling (quenching) through the walls or early cooling of the gases by expansion of the combustion volume caused by piston motion before combustion is completed.[2]

3.4.3.3 Carbon Monoxide -

Carbon monoxide is a colorless, odorless, relatively inert gas formed as an intermediate combustion product that appears in the exhaust when the reaction of CO to $CO_2$ cannot proceed to completion. This situation occurs if there is a lack of available oxygen near the hydrocarbon (fuel) molecule during combustion, if the gas temperature is too low, or if the residence time in the cylinder is too short. The oxidation rate of CO is limited by reaction kinetics and, as a consequence, can be accelerated only to a certain extent by improvements in air and fuel mixing during the combustion process.[2-3]

3.4.3.4 Smoke, Particulate Matter, and PM-10 -

White, blue, and black smoke may be emitted from IC engines. Liquid particulates appear as white smoke in the exhaust during an engine cold start, idling, or low load operation. These are formed in the quench layer adjacent to the cylinder walls, where the temperature is not high enough to ignite the fuel. Blue smoke is emitted when lubricating oil leaks, often past worn piston rings, into the combustion chamber and is partially burned. Proper maintenance is the most effective method of preventing blue smoke emissions from all types of IC engines. The primary constituent of black smoke is agglomerated carbon particles (soot).[2]

3.4.3.5 Sulfur Oxides -

Sulfur oxide emissions are a function of only the sulfur content in the fuel rather than any combustion variables. In fact, during the combustion process, essentially all the sulfur in the fuel is oxidized to $SO_2$. The oxidation of $SO_2$ gives sulfur trioxide ($SO_3$), which reacts with water to give sulfuric acid ($H_2SO_4$), a contributor to acid precipitation. Sulfuric acid reacts with basic substances to give sulfates, which are fine particulates that contribute to PM-10 and visibility reduction. Sulfur oxide emissions also contribute to corrosion of the engine parts.[2,3]

Table 3.4-1 contains gaseous emission factors for the pollutants discussed above, expressed in units of pounds per horsepower-hour (lb/hp-hr), and pounds per million British thermal unit (lb/MMBtu). Table 3.4-2 shows the particulate and particle-sizing emission factors. Table 3.4-3 shows the speciated organic compound emission factors and Table 3.4-4 shows the emission factors for polycyclic aromatic hydrocarbons (PAH). These tables do not provide a complete speciated organic compound and PAH listing because they are based only on a single engine test; they are to be used only for rough order of magnitude comparisons.

Table 3.4-5 shows the $NO_x$ reduction and fuel consumption penalties for diesel and dual-fueled engines based on some of the available control techniques. The emission reductions shown are those that have been demonstrated. The effectiveness of controls on a particular engine will depend on the specific design of each engine, and the effectiveness of each technique could vary considerably. Other $NO_x$ control techniques exist but are not included in Table 3.4-5. These techniques include internal/external exhaust gas recirculation, combustion chamber modification, manifold air cooling, and turbocharging.

3.4.4 Control Technologies

Control measures to date are primarily directed at limiting $NO_x$ and CO emissions since they are the primary pollutants from these engines. From a $NO_x$ control viewpoint, the most important distinction between different engine models and types of reciprocating engines is whether they are rich-burn or lean-burn. Rich-burn engines have an air-to-fuel ratio operating range that is near stoichiometric or fuel-rich of stoichiometric and as a result the exhaust gas has little or no excess oxygen. A lean-burn engine has an air-to-fuel operating range that is fuel-lean of stoichiometric; therefore, the exhaust from these engines is characterized by medium to high levels of $O_2$. The most common $NO_x$ control technique for diesel and dual fuel engines focuses on modifying the combustion process. However, selective catalytic reduction (SCR) and nonselective catalytic reduction (NSCR) which are post-combustion techniques are becoming available. Control for CO have been partly adapted from mobile sources.[5]

Combustion modifications include injection timing retard (ITR), preignition chamber combustion (PCC), air-to-fuel ratio, and derating. Injection of fuel into the cylinder of a CI engine initiates the combustion process. Retarding the timing of the diesel fuel injection causes the combustion process to occur later in the power stroke when the piston is in the downward motion and

combustion chamber volume is increasing. By increasing the volume, the combustion temperature and pressure are lowered, thereby lowering $NO_x$ formation. ITR reduces $NO_x$ from all diesel engines; however, the effectiveness is specific to each engine model. The amount of $NO_x$ reduction with ITR diminishes with increasing levels of retard.[5]

Improved swirl patterns promote thorough air and fuel mixing and may include a precombustion chamber (PCC). A PCC is an antechamber that ignites a fuel-rich mixture that propagates to the main combustion chamber. The high exit velocity from the PCC results in improved mixing and complete combustion of the lean air/fuel mixture which lowers combustion temperature, thereby reducing $NO_x$ emissions.[5]

The air-to-fuel ratio for each cylinder can be adjusted by controlling the amount of fuel that enters each cylinder. At air-to-fuel ratios less than stoichiometric (fuel-rich), combustion occurs under conditions of insufficient oxygen which causes $NO_x$ to decrease because of lower oxygen and lower temperatures. Derating involves restricting engine operation to lower than normal levels of power production for the given application. Derating reduces cylinder pressures and temperatures thereby lowering $NO_x$ formation rates.[5]

SCR is an add-on $NO_x$ control placed in the exhaust stream following the engine and involves injecting ammonia ($NH_3$) into the flue gas. The $NH_3$ reacts with the $NO_x$ in the presence of a catalyst to form water and nitrogen. The effectiveness of SCR depends on fuel quality and engine duty cycle (load fluctuations). Contaminants in the fuel may poison or mask the catalyst surface causing a reduction or termination in catalyst activity. Load fluctuations can cause variations in exhaust temperature and $NO_x$ concentration which can create problems with the effectiveness of the SCR system.[5]

NSCR is often referred to as a three-way conversion catalyst system because the catalyst reactor simultaneously reduces $NO_x$, CO, and HC and involves placing a catalyst in the exhaust stream of the engine. The reaction requires that the $O_2$ levels be kept low and that the engine be operated at fuel-rich air-to-fuel ratios.[5]

### 3.4.5 Updates Since the Fifth Edition

The Fifth Edition was released in January 1995. Revisions to this section since that date are summarized below. For further detail, consult the memoranda describing each supplement or the background report for this section.

Supplement A, February 1996

No changes.

Supplement B, October 1996

- The general text was updated.
- Controlled $NO_x$ factors and PM factors were added for diesel units.
- Math errors were corrected in factors for CO from diesel units and for uncontrolled $NO_x$ from dual fueled units.

Table 3.4-1. GASEOUS EMISSION FACTORS FOR LARGE STATIONARY DIESEL AND ALL STATIONARY DUAL-FUEL ENGINES[a]

| Pollutant | Diesel Fuel (SCC 2-02-004-01) | | | Dual Fuel[b] (SCC 2-02-004-02) | | |
|---|---|---|---|---|---|---|
| | Emission Factor (lb/hp-hr) (power output) | Emission Factor (lb/MMBtu) (fuel input) | EMISSION FACTOR RATING | Emission Factor (lb/hp-hr) (power output) | Emission Factor (lb/MMBtu) (fuel input) | EMISSION FACTOR RATING |
| $NO_x$ | | | | | | |
| Uncontrolled | 0.024 | 3.2 | B | 0.018 | 2.7 | D |
| Controlled | 0.013[c] | 1.9[c] | B | ND | ND | NA |
| CO | 5.5 E-03 | 0.85 | C | 7.5 E-03 | 1.16 | D |
| $SO_x$[d] | 8.09 E-03$S_1$ | 1.01$S_1$ | B | 4.06 E-04$S_1$ + 9.57 E-03$S_2$ | 0.05$S_1$ + 0.895$S_2$ | B |
| $CO_2$[e] | 1.16 | 165 | B | 0.772 | 110 | B |
| PM | 0.0007[c] | 0.1[c] | B | ND | ND | NA |
| TOC (as $CH_4$) | 7.05 E-04 | 0.09 | C | 5.29 E-03 | 0.8 | D |
| Methane | [f] | [f] | E | 3.97 E-03 | 0.6 | E |
| Nonmethane | [f] | [f] | E | 1.32 E-03 | 0.2[g] | E |

[a] Based on uncontrolled levels for each fuel, from References 2,6-7. When necessary, the average heating value of diesel was assumed to be 19,300 Btu/lb with a density of 7.1 lb/gallon. The power output and fuel input values were averaged independently from each other, because of the use of actual brake-specific fuel consumption (BSFC) values for each data point and of the use of data possibly sufficient to calculate only 1 of the 2 emission factors (e. g., enough information to calculate lb/MMBtu, but not lb/hp-hr). Factors are based on averages across all manufacturers and duty cycles. The actual emissions from a particular engine or manufacturer could vary considerably from these levels. To convert from lb/hp-hr to kg/kw-hr, multiply by 0.608. To convert from lb/MMBtu to ng/J, multiply by 430. SCC = Source Classification Code.

[b] Dual fuel assumes 95% natural gas and 5% diesel fuel.

[c] References 8-26. Controlled $NO_x$ is by ignition timing retard.

[d] Assumes that all sulfur in the fuel is converted to $SO_2$. $S_1$ = % sulfur in fuel oil; $S_2$ = % sulfur in natural gas. For example, if sulfer content is 1.5%, then S = 1.5.

[e] Assumes 100% conversion of carbon in fuel to $CO_2$ with 87 weight % carbon in diesel, 70 weight % carbon in natural gas, dual-fuel mixture of 5% diesel with 95% natural gas, average BSFC of 7,000 Btu/hp-hr, diesel heating value of 19,300 Btu/lb, and natural gas heating value of 1050 Btu/scf.

[f] Based on data from 1 engine, TOC is by weight 9% methane and 91% nonmethane.

[g] Assumes that nonmethane organic compounds are 25% of TOC emissions from dual-fuel engines. Molecular weight of nonmethane gas stream is assumed to be that of methane.

Table 3.4-2. PARTICULATE AND PARTICLE-SIZING EMISSION FACTORS FOR LARGE UNCONTROLLED STATIONARY DIESEL ENGINES[a]

EMISSION FACTOR RATING: E

| Pollutant | Emission Factor (lb/MMBtu) (fuel input) |
|---|---|
| Filterable particulate[b] | |
| < 1 μm | 0.0478 |
| < 3 μm | 0.0479 |
| < 10 μm | 0.0496 |
| Total filterable particulate | 0.0620 |
| Condensable particulate | 0.0077 |
| Total PM-10[c] | 0.0573 |
| Total particulate[d] | 0.0697 |

[a] Based on 1 uncontrolled diesel engine from Reference 6. Source Classification Code 2-02-004-01. The data for the particulate emissions were collected using Method 5, and the particle size distributions were collected using a Source Assessment Sampling System. To convert from lb/MMBtu to ng/J, multiply by 430. PM-10 = particulate matter ≤ 10 micrometers (μm) aerometric diameter.

[b] Particle size is expressed as aerodynamic diameter.

[c] Total PM-10 is the sum of filterable particulate less than 10 μm aerodynamic diameter and condensable particulate.

[d] Total particulate is the sum of the total filterable particulate and condensable particulate.

Table 3.4-3. SPECIATED ORGANIC COMPOUND EMISSION FACTORS FOR LARGE UNCONTROLLED STATIONARY DIESEL ENGINES[a]

EMISSION FACTOR RATING: E

| Pollutant | Emission Factor (lb/MMBtu) (fuel input) |
|---|---|
| Benzene[b] | 7.76 E-04 |
| Toluene[b] | 2.81 E-04 |
| Xylenes[b] | 1.93 E-04 |
| Propylene | 2.79 E-03 |
| Formaldehyde[b] | 7.89 E-05 |
| Acetaldehyde[b] | 2.52 E-05 |
| Acrolein[b] | 7.88 E-06 |

[a]Based on 1 uncontrolled diesel engine from Reference 7. Source Classification Code 2-02-004-01. Not enough information to calculate the output-specific emission factors of lb/hp-hr. To convert from lb/MMBtu to ng/J, multiply by 430.
[b]Hazardous air pollutant listed in the *Clean Air Act*.

Table 3.4-4. PAH EMISSION FACTORS FOR LARGE UNCONTROLLED STATIONARY DIESEL ENGINES[a]

EMISSION FACTOR RATING: E

| PAH | Emission Factor (lb/MMBtu) (fuel input) |
|---|---|
| Naphthalene[b] | 1.30 E-04 |
| Acenaphthylene | 9.23 E-06 |
| Acenaphthene | 4.68 E-06 |
| Fluorene | 1.28 E-05 |
| Phenanthrene | 4.08 E-05 |
| Anthracene | 1.23 E-06 |
| Fluoranthene | 4.03 E-06 |
| Pyrene | 3.71 E-06 |
| Benz(a)anthracene | 6.22 E-07 |
| Chrysene | 1.53 E-06 |
| Benzo(b)fluoranthene | 1.11 E-06 |
| Benzo(k)fluoranthene | <2.18 E-07 |
| Benzo(a)pyrene | <2.57 E-07 |
| Indeno(1,2,3-cd)pyrene | <4.14 E-07 |
| Dibenz(a,h)anthracene | <3.46 E-07 |
| Benzo(g,h,l)perylene | <5.56 E-07 |
| TOTAL PAH | <2.12 E-04 |

[a] Based on 1 uncontrolled diesel engine from Reference 7. Source Classification Code 2-02-004-01. Not enough information to calculate the output-specific emission factors of lb/hp-hr. To convert from lb/MMBtu to ng/J, multiply by 430.

[b] Hazardous air pollutant listed in the *Clean Air Act*.

Table 3.4-5. $NO_x$ REDUCTION AND FUEL CONSUMPTION PENALTIES FOR LARGE STATIONARY DIESEL AND DUAL-FUEL ENGINES[a]

| Control Approach | | Diesel (SCC 2-02-004-01) | | Dual Fuel (SCC 2-02-004-02) | |
|---|---|---|---|---|---|
| | | $NO_x$ Reduction (%) | ΔBSFC[b] (%) | $NO_x$ Reduction (%) | ΔBSFC (%) |
| Derate | 10% | ND | ND | <20 | 4 |
| | 20% | <20 | 4 | ND | ND |
| | 25% | 5 - 23 | 1 - 5 | 1 - 33 | 1 - 7 |
| Retard | 2° | <20 | 4 | <20 | 3 |
| | 4° | <40 | 4 | <40 | 1 |
| | 8° | 28 - 45 | 2 - 8 | 50 - 73 | 3 - 5 |
| Air-to-fuel | 3% | ND | ND | <20 | 0 |
| | ±10% | 7 - 8 | 3 | 25 - 40 | 1 - 3 |
| Water injection ($H_2O$/fuel ratio) | 50% | 25 - 35 | 2 - 4 | ND | ND |
| SCR | | 80 - 95 | 0 | 80 - 95 | 0 |

[a] References 1,27-28. The reductions shown are typical and will vary depending on the engine and duty cycle. SCC = Source Classification Code. ΔBSFC = change in brake-specific fuel consumption. ND = no data.

References For Section 3.4


1. H. I. Lips, *et al*., *Environmental Assessment Of Combustion Modification Controls For Stationary Internal Combustion Engines*, EPA-600/7-81-127, U. S. Environmental Protection Agency, Cincinnati, OH, July 1981.

2. *Standards Support And Environmental Impact Statement, Volume I: Stationary Internal Combustion Engines*, EPA-450/2-78-125a, U. S. Environmental Protection Agency, Research Triangle Park, NC, July 1979.

3. M. Hoggan, et. al., *Air Quality Trends in California's South Coast and Southeast Desert Air Basins, 1976-1990*, "Air Quality Management Plan, Appendix II-B", South Coast Air Quality Management District, July 1991.

4. *Limiting Net Greenhouse Gas Emissions In the United States, Volume II: Energy Responses*, report for the Office of Environmental Analysis, Office of Policy, Planning and Analysis, Department of Energy (DDE), DOE/PE-0101 Volume II, September 1991.

5. Snyder, R. B., *Alternative Control Techniques Document—$NO_x$ Emissions from Stationary Reciprocating Internal Combustion Engines*, EPA-453/R-93-032, U. S. Environmental Protection Agency, Research Triangle Park, July 1993.

6. C. Castaldini, *Environmental Assessment Of $NO_x$ Control On A Compression Ignition Large Bore Reciprocating Internal Combustion Engine, Volume I: Technical Results*, EPA-600/7-86/001a, U. S. Environmental Protection Agency, Cincinnati, OH, April 1984.

7. *Pooled Source Emission Test Report: Oil And Gas Production Combustion Sources, Fresno And Ventura Counties, California*, ENSR # 7230-007-700, Western States Petroleum Association, Bakersfield, CA, December 1990.

8. *Final Report For An Emission Compliance Test Program On Two Standby Generators Located At American Car Company*, Greenwich, CT, York Services Corp., 1987.

9. *Final Report For An Emission Compliance Test Program On A Standby Diesel Generator At South Central Connecticut Regional Water Authority*, West Haven, CT, York Services Corp., 1988.

10. *Air Emission From Stationary Diesel Engines For The Alaska Rural Electric Cooperative Association*, Environmetrics, 1992.

11. *Compliance Test Report For Particulate Emissions From A Caterpillar Diesel Generator*, St. Mary's Hospital, Waterburg, CT, TRC Environmental Consultants, 1987.

12. *Compliance Measured Particulate Emissions From An Emergency Diesel Generator, Silorsky Aircraft, United Technologies*, Stratford, CT, TRC Environmental Consultants, 1987.

13. *Compliance Test Report For Particulate Emissions From A Cummins Diesel Generator*, Colonial Gold Limited Partnership, Hartford, CT, TRC Environmental Consultants, 1988.

14. *Compliance Test Report For Particulate Emissions From A Cummins Diesel Generator*, CIGNA Insurance Company, Bloomfield, CT, TRC Environmental Consultants, 1988.

15. *Compliance Test Report For Particulate Emission From A Waukesha Diesel Generator*, Bristol Meyers, Wallinsford, CT, TRC Environmental Consultants, 1987.

16. *Compliance Test Report For Particulate Emissions From A Cummins Diesel Generator*, Connecticut General Life Insurance, Windsor, CT, TRC Environmental Consultants, 1987.

17. *Compliance Measured Particulate Emissions From An Emergency Diesel Generator*, Danbury Hospital, Danbury, CT, TRC Environmental Consultants, 1988.

18. *Compliance Test Report For Particulate Emissions From A Caterpillar Diesel Generator*, Colonial Metro Limited Partnership, Hartford, CT, TRC Environmental Consultants, 1988.

19. *Compliance Test Report For Particulate Emissions From A Caterpillar Diesel Generator*, Boehringer -Ingelheim Pharmaceuticals, Danbury, CT, TRC Environmental Consultants, 1988.

20. *Compliance Test Report For Emissions Of Particulate From An Emergency Diesel Generator*, Meriden - Wallingford Hospital, Meriden, CT, TRC Environmental Consultants, 1987.

21. *Compliance Test Report Johnson Memorial Hospital Emergency Generator Exhaust Stack*, Stafford Springs, CT, ROJAC Environmental Services, 1987.

22. *Compliance Test Report Union Carbide Corporation Generator Exhaust Stack*, Danbury, CT, ROJAC Environmental Services, 1988.

23. *Compliance Test Report Hartford Insurance Company Emergency Generator Exhaust Stack*, Bloomfield, CT, ROJAC Environmental Services, 1987.

24. *Compliance Test Report Hartford Insurance Group Emergency Generator Exhaust Stack*, Hartford, CT, ROJAC Environmental Services, 1987.

25. *Compliance Test Report Southern New England Telephone Company Emergency Generator Exhaust Stack*, North Haven, CT, ROJAC Environmental Services, 1988.

26. *Compliance Test Report Pfizer, Inc. Two Emergency Generator Exhaust Stacks*, Groton, CT, ROJAC Environmental Services, 1987.

27. L. M. Campbell, *et al*., *Sourcebook: $NO_x$ Control Technology Data, Control Technology Center*, EPA-600/2-91-029, U. S. Environmental Protection Agency, Cincinnati, OH, July 1991.

28. *Catalysts For Air Pollution Control*, Manufacturers Of Emission Controls Association (MECA), Washington, DC, March 1992.

# EPA and Other Agency References

- 40 CFR Part 98 Tables C-1 and C-2
- TNRCC RG-109
- EPA Protocol for Equipment Leaks
- NMED's Guidance for Aggregate Handling, Storage Piles and Haul Road Emissions
- Western Regional Air Partnership (WRAP) Fugitive Dust Handbook
- Tier 4 Emission Standards for Non-Road Engines
- CARB Emission Factors for CI Diesel Engines

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*Federal Environment and Safety Codified Regulations*
*TITLE 40—Protection of Environment*
*PART 98—MANDATORY GREENHOUSE GAS REPORTING*
*SUBPART C—General Stationary Fuel Combustion Sources*

## Table C-1 to Subpart C of Part 98 —Default $CO_2$ Emission Factors and High Heat Values for Various Types of Fuel

| Fuel type | Default high heat value | Default $CO_2$ emission factor |
|---|---|---|
| Coal and coke | mmBtu/short ton | kg $CO_2$/mmBtu |
| Anthracite | 25.09 | 103.69 |
| Bituminous | 24.93 | 93.28 |
| Subbituminous | 17.25 | 97.17 |
| Lignite | 14.21 | 97.72 |
| Coal Coke | 24.80 | 113.67 |
| Mixed (Commercial sector) | 21.39 | 94.27 |
| Mixed (Industrial coking) | 26.28 | 93.90 |
| Mixed (Industrial sector) | 22.35 | 94.67 |
| Mixed (Electric Power sector) | 19.73 | 95.52 |
| Natural gas | mmBtu/scf | kg $CO_2$/mmBtu |
| (Weighted U.S. Average) | $1.026 \times 10^{-3}$ | 53.06 |
| Petroleum products | mmBtu/gallon | kg $CO_2$/mmBtu |
| Distillate Fuel Oil No. 1 | 0.139 | 73.25 |
| Distillate Fuel Oil No. 2 | 0.138 | 73.96 |
| Distillate Fuel Oil No. 4 | 0.146 | 75.04 |
| Residual Fuel Oil No. 5 | 0.140 | 72.93 |
| Residual Fuel Oil No. 6 | 0.150 | 75.10 |
| Used Oil | 0.138 | 74.00 |
| Kerosene | 0.135 | 75.20 |
| Liquefied petroleum gases (LPG) [1] | 0.092 | 61.71 |
| Propane [1] | 0.091 | 62.87 |
| Propylene [2] | 0.091 | 67.77 |
| Ethane [1] | 0.068 | 59.60 |
| Ethanol | 0.084 | 68.44 |
| Ethylene [2] | 0.058 | 65.96 |
| Isobutane [1] | 0.099 | 64.94 |
| Isobutylene [1] | 0.103 | 68.86 |
| Butane [1] | 0.103 | 64.77 |
| Butylene [1] | 0.105 | 68.72 |

| | | |
|---|---|---|
| Naphtha (<401 deg F) | 0.125 | 68.02 |
| Natural Gasoline | 0.110 | 66.88 |
| Other Oil (>401 deg F) | 0.139 | 76.22 |
| Pentanes Plus | 0.110 | 70.02 |
| Petrochemical Feedstocks | 0.125 | 71.02 |
| Petroleum Coke | 0.143 | 102.41 |
| Special Naphtha | 0.125 | 72.34 |
| Unfinished Oils | 0.139 | 74.54 |
| Heavy Gas Oils | 0.148 | 74.92 |
| Lubricants | 0.144 | 74.27 |
| Motor Gasoline | 0.125 | 70.22 |
| Aviation Gasoline | 0.120 | 69.25 |
| Kerosene-Type Jet Fuel | 0.135 | 72.22 |
| Asphalt and Road Oil | 0.158 | 75.36 |
| Crude Oil | 0.138 | 74.54 |
| Other fuels—solid | mmBtu/short ton | kg $CO_2$/mmBtu |
| Municipal Solid Waste | 9.95 [3] | 90.7 |
| Tires | 28.00 | 85.97 |
| Plastics | 38.00 | 75.00 |
| Petroleum Coke | 30.00 | 102.41 |
| Other fuels—gaseous | mmBtu/scf | kg $CO_2$/mmBtu |
| Blast Furnace Gas | $0.092 \times 10^{-3}$ | 274.32 |
| Coke Oven Gas | $0.599 \times 10^{-3}$ | 46.85 |
| Propane Gas | $2.516 \times 10^{-3}$ | 61.46 |
| Fuel Gas [4] | $1.388 \times 10^{-3}$ | 59.00 |
| Biomass fuels—solid | mmBtu/short ton | kg $CO_2$/mmBtu |
| Wood and Wood Residuals (dry basis) [5] | 17.48 | 93.80 |
| Agricultural Byproducts | 8.25 | 118.17 |
| Peat | 8.00 | 111.84 |
| Solid Byproducts | 10.39 | 105.51 |
| Biomass fuels—gaseous | mmBtu/scf | kg $CO_2$/mmBtu |
| Landfill Gas | $0.485 \times 10^{-3}$ | 52.07 |
| Other Biomass Gases | $0.655 \times 10^{-3}$ | 52.07 |
| Biomass Fuels—Liquid | mmBtu/gallon | kg $CO_2$/mmBtu |
| Ethanol | 0.084 | 68.44 |
| Biodiesel (100%) | 0.128 | 73.84 |
| Rendered Animal Fat | 0.125 | 71.06 |
| Vegetable Oil | 0.120 | 81.55 |

[1] The HHV for components of LPG determined at 60 °F and saturation pressure with the exception of ethylene.

[2] Ethylene HHV determined at 41 °F (5 °C) and saturation pressure.

[3] Use of this default HHV is allowed only for: (a) Units that combust MSW, do not generate steam, and are

allowed to use Tier 1; (b) units that derive no more than 10 percent of their annual heat input from MSW and/or tires; and (c) small batch incinerators that combust no more than 1,000 tons of MSW per year.

[4] Reporters subject to subpart X of this part that are complying with § 98.243(d) or subpart Y of this part may only use the default HHV and the default $CO_2$ emission factor for fuel gas combustion under the conditions prescribed in § 98.243(d)(2)(i) and (d)(2)(ii) and § 98.252(a)(1) and (a)(2), respectively. Otherwise, reporters subject to subpart X or subpart Y shall use either Tier 3 (Equation C-5) or Tier 4.

[5] Use the following formula to calculate a wet basis HHV for use in Equation C-1: $HHV_w = ((100 - M)/100)*HHV_d$ where $HHV_w$ = wet basis HHV, M = moisture content (percent) and $HHV_d$ = dry basis HHV from Table C-1.

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*TITLE 40—Protection of Environment*
*PART 98—MANDATORY GREENHOUSE GAS REPORTING*
*SUBPART C—General Stationary Fuel Combustion Sources*

## Table C-2 to Subpart C of Part 98 —Default $CH_4$ and $N_2O$ Emission Factors for Various Types of Fuel

| Fuel type | Default $CH_4$ emission factor (kg $CH_4$/mmBtu) | Default $N_2O$ emission factor (kg $N_2O$/mmBtu) |
|---|---|---|
| Coal and Coke (All fuel types in Table C-1) | $1.1 \times 10^{-02}$ | $1.6 \times 10^{-03}$ |
| Natural Gas | $1.0 \times 10^{-03}$ | $1.0 \times 10^{-04}$ |
| Petroleum (All fuel types in Table C-1) | $3.0 \times 10^{-03}$ | $6.0 \times 10^{-04}$ |
| Fuel Gas | $3.0 \times 10^{-03}$ | $6.0 \times 10^{-04}$ |
| Municipal Solid Waste | $3.2 \times 10^{-02}$ | $4.2 \times 10^{-03}$ |
| Tires | $3.2 \times 10^{-02}$ | $4.2 \times 10^{-03}$ |
| Blast Furnace Gas | $2.2 \times 10^{-05}$ | $1.0 \times 10^{-04}$ |
| Coke Oven Gas | $4.8 \times 10^{-04}$ | $1.0 \times 10^{-04}$ |
| Biomass Fuels—Solid (All fuel types in Table C-1, except wood and wood residuals) | $3.2 \times 10^{-02}$ | $4.2 \times 10^{-03}$ |
| Wood and wood residuals | $7.2 \times 10^{-03}$ | $3.6 \times 10^{-03}$ |
| Biomass Fuels—Gaseous (All fuel types in Table C-1) | $3.2 \times 10^{-03}$ | $6.3 \times 10^{-04}$ |
| Biomass Fuels—Liquid (All fuel types in Table C-1) | $1.1 \times 10^{-03}$ | $1.1 \times 10^{-04}$ |

Note: Those employing this table are assumed to fall under the IPCC definitions of the "Energy Industry" or "Manufacturing Industries and Construction". In all fuels except for coal the values for these two categories are identical. For coal combustion, those who fall within the IPCC "Energy Industry" category may employ a value of 1g of $CH_4$/mmBtu.

[75 FR page 79154, Dec. 17, 2010; 78 FR page 71952, Nov. 29, 2013]

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October 2000
RG-109 (Draft)

TNRCC

# Air Permit Technical Guidance for Chemical Sources:

# Flares and Vapor Oxidizers

printed on recycled paper

Air Permits Division

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

| Waste Stream | Destruction/Removal Efficiency (DRE) | | |
|---|---|---|---|
| VOC | 98 percent (generic)<br><br>99 percent for compounds containing no more than 3 carbons that contain no elements other than carbon and hydrogen in addition to the following compounds: methanol, ethanol, propanol, ethylene oxide and propylene oxide | | |
| $H_2S$ | 98 percent | | |
| $NH_3$ | case by case | | |
| CO | case by case | | |
| **Air Contaminants** | **Emission Factors** | | |
| thermal $NO_x$ | steam-assist: | high Btu | 0.0485 lb/MMBtu |
| | | low Btu | 0.068 lb/MMBtu |
| | other: | high Btu | 0.138 lb/MMBtu |
| | | low Btu | 0.0641 lb/MMBtu |
| fuel $NO_x$ | $NO_x$ is 0.5 wt percent of inlet $NH_3$, other fuels case by case | | |
| CO | steam-assist: | high Btu | 0.3503 lb/MMBtu |
| | | low Btu | 0.3465 lb/MMBtu |
| | other: | high Btu | 0.2755 lb/MMBtu |
| | | low Btu | 0.5496 lb/MMBtu |
| PM | none, required to be smokeless | | |
| $SO_2$ | 100 percent S in fuel to $SO_2$ | | |

*The only exeption ot this is if inorganics might be emitted from the flare. In the case of landfills, the AP-42 PM factor may be used. In other cases, the emissions should be based on the composition of the waste stream routed to the flare.

United States
Environmental Protection
Agency

Office of Air Quality
Planning and Standards
Research Triangle Park NC 27711

EPA-453/R-95-017
November 1995

Air

EPA

# Protocol for Equipment Leak Emission Estimates



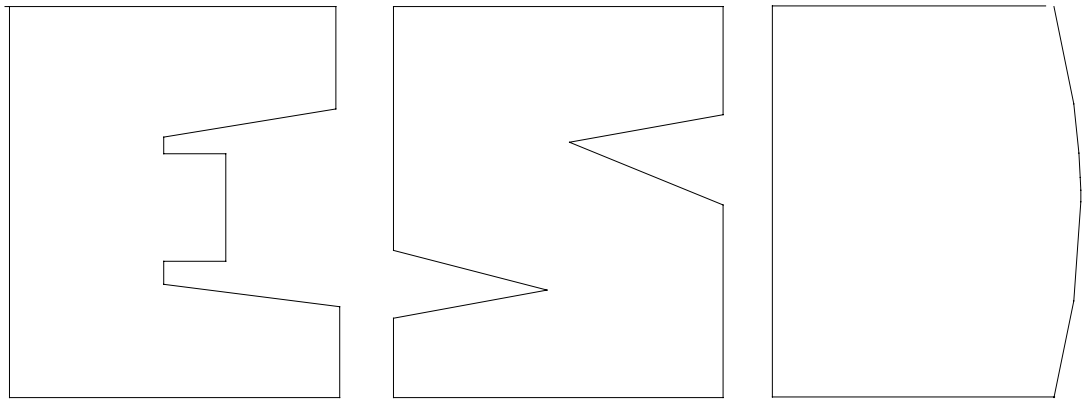


TABLE 2-4. OIL AND GAS PRODUCTION OPERATIONS AVERAGE EMISSION FACTORS (kg/hr/source)

| Equipment Type | Service[a] | Emission Factor (kg/hr/source)[b] |
|---|---|---|
| Valves | Gas | 4.5E-03 |
| | Heavy Oil | 8.4E-06 |
| | Light Oil | 2.5E-03 |
| | Water/Oil | 9.8E-05 |
| Pump seals | Gas | 2.4E-03 |
| | Heavy Oil | NA |
| | Light Oil | 1.3E-02 |
| | Water/Oil | 2.4E-05 |
| Others[c] | Gas | 8.8E-03 |
| | Heavy Oil | 3.2E-05 |
| | Light Oil | 7.5E-03 |
| | Water/Oil | 1.4E-02 |
| Connectors | Gas | 2.0E-04 |
| | Heavy Oil | 7.5E-06 |
| | Light Oil | 2.1E-04 |
| | Water/Oil | 1.1E-04 |
| Flanges | Gas | 3.9E-04 |
| | Heavy Oil | 3.9E-07 |
| | Light Oil | 1.1E-04 |
| | Water/Oil | 2.9E-06 |
| Open-ended lines | Gas | 2.0E-03 |
| | Heavy Oil | 1.4E-04 |
| | Light Oil | 1.4E-03 |
| | Water/Oil | 2.5E-04 |

[a]Water/Oil emission factors apply to water streams in oil service with a water content greater than 50%, from the point of origin to the point where the water content reaches 99%. For water streams with a water content greater than 99%, the emission rate is considered negligible.

[b]These factors are for total organic compound emission rates (including non-VOC's such as methane and ethane) and apply to light crude, heavy crude, gas plant, gas production, and off shore facilities. "NA" indicates that not enough data were available to develop the indicated emission factor.

[c]The "other" equipment type was derived from compressors, diaphrams, drains, dump arms, hatches, instruments, meters, pressure relief valves, polished rods, relief valves, and vents. This "other" equipment type should be applied for any equipment type other than connectors, flanges, open-ended lines, pumps, or valves.

# WRAP Fugitive Dust Handbook



**Prepared for:**

**Western Governors' Association**
**1515 Cleveland Place, Suite 200**
**Denver, Colorado 80202**

**Prepared by:**

**Countess Environmental**
**4001 Whitesail Circle**
Westlake Village, CA 91361
**(WGA Contract No. 30204-111)**

September 7, 2006

## Fugitive Dust Control Measures Applicable for the WRAP Region

| Source Category | Control Measure | Published PM10 Control Efficiency |
|---|---|---|
| Agricultural Tilling | Reduce tilling during high winds | 1 – 5% |
| | Roughen surface | 15 – 64% |
| | Modify equipment | 50% |
| | Employ sequential cropping | 50% |
| | Increase soil moisture | 90% |
| | Use other conservation management practices | 25 - 100% |
| Agricultural Harvesting | Limited activity during high winds | 5 – 70% |
| | Modify equipment | 50% |
| | Night farming | 10% |
| | New techniques for drying fruit | 25 –60% |
| Construction/Demolition | Water unpaved surfaces | 10 – 74% |
| | Limit on-site vehicle speed to 15 mph | 57% |
| | Apply dust suppressant to unpaved areas | 84% |
| | Prohibit activities during high winds | 98% |
| Materials Handling | Implement wet suppression | 50 – 90% |
| | Erect 3-sided enclosure around storage piles | 75% |
| | Cover storage pile with a tarp during high winds | 90% |
| Paved Roads | Sweep streets | 4 – 26% |
| | Minimize trackout | 40 – 80% |
| | Remove deposits on road ASAP | > 90% |
| Unpaved Roads | Limit vehicle speed to 25 mph | 44% |
| | Apply water | 10 – 74% |
| | Apply dust suppressant | 84% |
| | Pave the surface | >90% |
| Mineral Products Industry | Cyclone or muliclone | 68 –79% |
| | Wet scrubber | 78 –98% |
| | Fabric filter | 99 – 99.8% |
| | Electrostatic precipitator | 90 – 99.5% |
| Abrasive Blasting | Water spray | 50 – 93% |
| | Fabric filter | > 95% |
| Livestock Husbandry | Daily watering of corrals and pens | > 10% |
| | Add wood chips or mulch to working pens | > 10% |
| Wind Erosion (agricultural, open area, and storage piles) | Plant trees or shrubs as a windbreak | 25% |
| | Create cross-wind ridges | 24 – 93% |
| | Erect artificial wind barriers | 4 – 88% |
| | Apply dust suppressant or gravel | 84% |
| | Revegetate; apply cover crop | 90% |
| | Water exposed area before high winds | 90% |

The regulations included several other provisions, such as averaging, banking and trading of emission credits and maximum "family emission limits" (FEL) for emission averaging.

Tier 4 Emission Factors

## Tier 4 Emission Standards

The Tier 4 emission standards—phased-in from 2008 through 2015—introduce substantial reductions of NOx (for engines above 56 kW) and PM (above 19 kW), as well as more stringent HC limits. CO emission limits remain unchanged from the Tier 2-3 stage.

**Engines up to 560 kW.** Tier 4 emission standards for engines up to 560 kW are listed in Table 3.

**Table 3**
Tier 4 emission standards—Engines up to 560 kW, g/kWh (g/bhp-hr)

| Engine Power | Year | CO | NMHC | NMHC+$NO_x$ | $NO_x$ | PM |
|---|---|---|---|---|---|---|
| kW < 8<br>(hp < 11) | 2008 | 8.0 (6.0) | - | 7.5 (5.6) | - | 0.4[a] (0.3) |
| 8 ≤ kW < 19<br>(11 ≤ hp < 25) | 2008 | 6.6 (4.9) | - | 7.5 (5.6) | - | 0.4 (0.3) |
| 19 ≤ kW < 37<br>(25 ≤ hp < 50) | 2008 | 5.5 (4.1) | - | 7.5 (5.6) | - | 0.3 (0.22) |
| | 2013 | 5.5 (4.1) | - | 4.7 (3.5) | - | 0.03<br>(0.022) |
| 37 ≤ kW < 56<br>(50 ≤ hp < 75) | 2008 | 5.0 (3.7) | - | 4.7 (3.5) | - | 0.3[b] (0.22) |
| | 2013 | 5.0 (3.7) | - | 4.7 (3.5) | - | 0.03<br>(0.022) |
| 56 ≤ kW < 130<br>(75 ≤ hp < 175) | 2012-2014[c] | 5.0 (3.7) | 0.19 (0.14) | - | 0.40 (0.30) | 0.02<br>(0.015) |
| 130 ≤ kW ≤ 560<br>(175 ≤ hp ≤ 750) | 2011-2014[d] | 3.5 (2.6) | 0.19 (0.14) | - | 0.40 (0.30) | 0.02<br>(0.015) |

a - hand-startable, air-cooled, DI engines may be certified to Tier 2 standards through 2009 and to an optional PM standard of 0.6 g/kWh starting in 2010
b - 0.4 g/kWh (Tier 2) if manufacturer complies with the 0.03 g/kWh standard from 2012
c - PM/CO: full compliance from 2012; NOx/HC: Option 1 (if banked Tier 2 credits used)—50% engines must comply in 2012-2013; Option 2 (if no Tier 2 credits claimed)—25% engines must comply in 2012-2014, with full compliance from 2014.12.31
d - PM/CO: full compliance from 2011; NOx/HC: 50% engines must comply in 2011-2013

In engines of 56-560 kW rated power, the NOx and HC standards are phased-in over a few year period, as indicated in the notes to Table 3. The initial standards (PM compliance) are sometimes referred to as

# olicy: CARB Emission Factors for CI Diesel Engines – ercent HC in Relation to NMHC + NOx

**Policy**

When the non-methane hydrocarbon (NMHC) and nitrogen oxide (NOx) emission factor is combined, assume a breakdown of 5% and 95%, respectively.

**Effective date**

June 28, 2004

**Definitions**

The following is a list of associated definitions.

- ***CI Engine*** – Compression Ignition Engine is an internal combustion engine with operating characteristics significantly similar to the theoretical diesel combustion cycle.
- ***HC*** – Organic compound consistently entirely of hydrogen and carbon.
- ***NMHC*** – Non-Methane Hydrocarbon is the sum of all hydrocarbon air pollutants except methane.
- ***NOx*** – Nitrogen Oxides are compounds of nitric oxide (NO), nitrogen dioxide ($NO_2$), and other oxides of nitrogen, which are typically created during combustion processes.

**Contact**

Randy Frazier, x4672

**Document Control**

| Version | Revised By | Description | Date |
|---|---|---|---|
| 1.1 | HL | New Policy: CARB Emission Factors – Percent HC in Relation to NMHC + NOx | 06/28/04 |
| 1.2 | MCL | Mapping of Policy | 3/13/08 |

**Approval**

| Name & Title | Signature | Date |
|---|---|---|
| Brian Bateman, Director of Engineering | **Signed by Brian Bateman** | 2/28/2008 |

# Analyses

- Red Hills 1 Plant Inlet Gas Analysis dated July 26, 2023
- Red Hills 2 Amine Inlet Gas Analysis dated November 16, 2022
- Red Hills 3 Amine Inlet Gas Analysis dated November 16, 2022
- Red Hills 4 Amine Inlet Gas Analysis dated November 16, 2022
- Red Hills 5 Amine Inlet Gas Analysis dated November 16, 2022
- Red Hills 6 Amine Inlet Gas Analysis dated November 16, 2022
- Red Hills AGI Plant Amine Inlet Gas Analysis dated November 16, 2022
- Red Hills Plant Condensate Analysis dated May 12, 2023
- Red Hills Gas Plant Cryo Residue Gas Analysis dates January 21, 2025
- Red Hills Plant Slop Water Analysis dated September 18, 2024

| SAMPLE ID | | COLLECTION DATA | |
|---|---|---|---|
| **Operator** | Targa Resources Inc | **Pressure** | 1006 psig |
| **Location** | Red Hills Processing Complex | **Sample Temp** | N/A |
| **Site** | Red Hills 1 | **Atm Temp** | 80 F |
| **Site Type** | Plant | **Collection Date** | 07/26/2023 |
| **Sample Point** | Plant Inlet | **Collection Time** | 8:57 AM |
| **Spot/Comp** | Spot | **Collection By** | Mike McKinney |
| **Meter ID** | | **Pressure Base** | 14.730 psi |
| **Purchaser** | | **Temperature Base** | 60 F |
| **Fluid** | Gas | **Container(s)** | PL1611 |

## Onsite Testing by Stain Tube

| METHOD | TYPE | MEAS VALUE | MOL% | GRAINS/100 | PPMV |
|---|---|---|---|---|---|
| GPA2377 | H2S | 0.00 PPMV | 0.0000 | 0.00 | 0.0 |

*Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.*

## GPA 2286 Gas Extended Fractional Analysis

| COMPOUND | FORMULA | MOL% | WT% | GPM |
|---|---|---|---|---|
| **HELIUM** | He | 0.0190 | 0.0035 | 0.0019 |
| **NITROGEN** | N2 | 1.5613 | 1.9844 | 0.1711 |
| **CARBON DIOXIDE** | CO2 | 1.8379 | 3.6699 | 0.3124 |
| ***OXYGEN+ARGON** | O2+Ar | 0.0000 | 0.0000 | 0.0000 |
| **HYDROGEN SULFIDE** | H2S | 0.0000 | 0.0000 | 0.0000 |
| **METHANE** | C1 | 74.7804 | 54.4308 | 12.6258 |
| **ETHANE** | C2 | 11.8034 | 16.1032 | 3.1438 |
| **PROPANE** | C3 | 5.9517 | 11.9075 | 1.6330 |
| **I-BUTANE** | iC4 | 0.8249 | 2.1753 | 0.2688 |
| **N-BUTANE** | nC4 | 1.8722 | 4.9372 | 0.5878 |
| **I-PENTANE** | iC5 | 0.4229 | 1.3844 | 0.1540 |
| **N-PENTANE** | nC5 | 0.4492 | 1.4705 | 0.1622 |
| **NEO-PENTANE** | neC5 | 0.0000 | 0.0000 | 0.0000 |
| **HEXANES PLUS** | C6+ | 0.4771 | 1.9333 | 0.1915 |
| **TOTALS:** | | **100.0000** | **100.0000** | **19.2523** |

*Value of "0.0000" interpreted as below detectable limit. Onsite H2S value is used in fractional if performed.*
***Oxygen+Argon:** Compounds elute as single peak; additional testing required to distinguish each.*

| LIQUID YIELD | C2+ | C3+ | C4+ | C5+ | 26# Liquid | 10# Liquid |
|---|---|---|---|---|---|---|
| **GAL/MSCF** | 6.1412 | 2.9974 | 1.3644 | 0.5077 | 0.7639 | |
| **CALC PROP** | **BTU/CF** | **Specific Gr.** | **Z Factor** | **Mol Weight** | **LB/SCF** | **Wobbe IDX** |
| **DRY** | 1,267.6 | 0.7636 | 0.9962 | 22.51 | 0.0596 | 1,450.6 |
| **WATER SAT.** | 1,246.9 | 0.7615 | 0.9958 | 22.12 | 0.0586 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **C6+ ONLY** | 4,840.3 | 3.0837 | | 89.31 | | |

## Hexanes Plus Detail - Red Hills Processing Complex:Red Hills 1:Plant Inlet:7/26/2023

| C6 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 2,2-dimethylbutane | C6H14 | 0.004690 | 0.018338 |
| 2,3-dimethylbutane+cyclopentane | C6H14 | 0.016975 | 0.066371 |
| 2-methylpentane | C6H14 | 0.095346 | 0.372796 |
| 3-methylpentane | C6H14 | 0.043253 | 0.169116 |
| benzene | C6H6 | 0.015599 | 0.055284 |
| cyclohexane | C6H12 | 0.045889 | 0.175225 |
| methylcyclopentane | C6H12 | 0.040069 | 0.153002 |
| n-hexane | C6H14 | 0.101061 | 0.395141 |
| **TOTALS:** | | **0.362882** | **1.405273** |

| C7 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,1-dimethylcyclopentane+3-methylhexane | C7H16 | 0.013333 | 0.060616 |
| 2,2-dimethylpentane | C7H16 | 0.001105 | 0.005024 |
| 2,3-dimethylpentane | C7H16 | 0.002382 | 0.010829 |
| 2,4-dimethylhexane+ethylcyclopentane | C7H14 | 0.001635 | 0.007284 |
| 2,4-dimethylpentane | C7H16 | 0.000233 | 0.001059 |
| 2-methylhexane | C7H16 | 0.010920 | 0.049646 |
| 3,3-dimethylpentane | C7H16 | 0.000560 | 0.002546 |
| cis-1,3-dimethylcyclopentane+3-Ethylpentane | C7H14 | 0.004702 | 0.020947 |
| cycloheptane | C7H14 | *0.000000* | *0.000000* |
| methylcyclohexane+2,2-dimethylhexane+2,2,4-trimethylpentane | C7H14 | 0.024620 | 0.109679 |
| n-heptane | C7H16 | 0.021652 | 0.098437 |
| toluene | C7H8 | 0.007627 | 0.031885 |
| trans-1,2-dimethylcyclopentane+cis-1,2-Dimethylcyclopentane | C7H14 | 0.001110 | 0.004945 |
| trans-1,3-dimethylcyclopentane | C7H14 | 0.003800 | 0.016929 |
| **TOTALS:** | | **0.093679** | **0.419826** |

| C8 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1-ethyl-1-methylcyclopentane | C8H16 | 0.000340 | 0.001731 |
| 2,2,3-trimethylpentane | C8H18 | 0.001271 | 0.006587 |
| 2,3,4-trimethylpentane | C8H18 | 0.000731 | 0.003789 |
| 2,3,4-trimethylpentane | C8H18 | 0.000731 | 0.003789 |
| 2,5-dimethylhexane | C8H18 | *0.000000* | *0.000000* |
| 2-methylheptane+4-methylheptane | C8H18 | 0.004714 | 0.024431 |
| 3,3-dimethylhexane | C8H18 | 0.000458 | 0.002374 |
| 3-methylheptane | C8H18 | 0.001149 | 0.005955 |
| cis-1,2-dimethylcyclohexane | C8H16 | 0.002318 | 0.011802 |

| | | | |
|---|---|---|---|
| cis-1,3-dimethylcyclohexane | C8H16 | 0.000394 | 0.002006 |
| cyclooctane | C8H16 | *0.000000* | *0.000000* |
| ethylbenzene | C8H10 | 0.000245 | 0.001180 |
| ethylcyclohexane | C8H16 | 0.000685 | 0.003488 |
| m-xylene+p-xylene | C8H10 | 0.000749 | 0.003608 |
| n-octane | C8H18 | 0.002962 | 0.015351 |
| o-xylene | C8H10 | 0.000171 | 0.000824 |
| trans-1,3-dimethylcyclohexane | C8H16 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.016918** | **0.086915** |

| C9 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,1,2-trimethylcyclohexane | C9H18 | 0.000137 | 0.000785 |
| 1,2,3-trimethylbenzene | C9H12 | 0.000061 | 0.000333 |
| 1,2,4-trimethylbenzene+tert-butylbenzene | C9H12 | 0.000112 | 0.000611 |
| 1,3,5-trimethylbenzene | C9H12 | 0.000045 | 0.000245 |
| 2,2,3-trimethylhexane | C9H20 | 0.000182 | 0.001059 |
| 2,2,4-trimethylhexane | C9H20 | 0.000451 | 0.002624 |
| 2,2-dimethylheptane | C9H20 | *0.000000* | *0.000000* |
| 2,3,4-trimethylhexane | C9H20 | 0.000186 | 0.001082 |
| 2,4,4-trimethylhexane | C9H20 | 0.000401 | 0.002333 |
| 2,5-dimethylheptane | C9H20 | 0.000294 | 0.001711 |
| 2-methyloctane | C9H20 | *0.000000* | *0.000000* |
| 3,4-dimethylheptane | C9H20 | 0.000081 | 0.000471 |
| cis,cis-1,2,3-trimethylcyclohexane | C9H18 | 0.000044 | 0.000252 |
| isopropylbenzene+1,1,3-trimethylcyclopentane | C9H12 | *0.000000* | *0.000000* |
| methylcyclooctane | C9H18 | 0.000067 | 0.000384 |
| m-ethyltoluene+p-ethyltoluene | C9H12 | 0.000208 | 0.001134 |
| n-nonane | C9H20 | 0.000306 | 0.001781 |
| propylbenzene | C9H12 | 0.000307 | 0.001674 |
| propylcyclohexane | C9H18 | 0.000056 | 0.000321 |
| r-1,t-2,c-3-trimethylcyclohexane | C9H18 | 0.000169 | 0.000968 |
| r-1,t-2,t-4-trimethylcyclohexane | C9H18 | 0.000039 | 0.000223 |
| trans,trans-1,2,4-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| Unidentified C9 | C9 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.003146** | **0.017991** |

| C10 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,2,3,4-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2,3,5-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2,4,5-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |

| | | | |
|---|---|---|---|
| 1,2-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2-dimethyl-3-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2-dimethyl-4-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,3-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,3-dimethyl-2-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,4-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,4-dimethyl-2-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-2-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-2-propylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-3-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-4-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 2-methylnonane | C10H22 | 0.000184 | 0.001188 |
| 3-ethyloctane | C10H22 | 0.000052 | 0.000336 |
| 3-methylnonane | C10H22 | *0.000000* | *0.000000* |
| 4-methylnonane | C10H22 | 0.000137 | 0.000884 |
| butylbenzene | C10H14 | *0.000000* | *0.000000* |
| butylcyclohexane | C10H20 | *0.000000* | *0.000000* |
| isobutylbenzene | C10H14 | *0.000000* | *0.000000* |
| naphthalene | C10H8 | *0.000000* | *0.000000* |
| n-decane | C10H22 | 0.000080 | 0.000516 |
| sec-butylbenzene | C10H14 | *0.000000* | *0.000000* |
| tert-butylcyclohexane | C10H20 | *0.000000* | *0.000000* |
| Unidentified C10 | C10 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000453** | **0.002924** |

| C11 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-undecane | C11H24 | 0.000055 | 0.000390 |
| pentylbenzene | C11H16 | *0.000000* | *0.000000* |
| Unidentified C11 | C11 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000055** | **0.000390** |

| C12 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-dodecane | C12H26 | *0.000000* | *0.000000* |
| Unidentified C12 | C12 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

| C13 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-tridecane | C13H28 | *0.000000* | *0.000000* |
| Unidentified C13 | C13 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

| C14 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-tetradecane | C14H30 | *0.000000* | *0.000000* |
| Unidentified C14 | C14 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

| C15+ GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-pentadecane | C15H32 | *0.000000* | *0.000000* |
| Unidentified C15 | C15 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

**Pantechs Laboratories, Inc. - Order: 632-3913 - Order Date: 11/16/2022**
**Order Description: Red Hills Processing Complex, Plant Inlets, Dehy Inlets, Amine Inlet/Wastes, Glycol Waste Streams**

| SAMPLE ID | | COLLECTION DATA | |
|---|---|---|---|
| **Operator** | Targa Resources Inc | **Pressure** | 824 psig |
| **Location** | Red Hills Processing Complex | **Sample Temp** | N/A |
| **Site** | Red Hills 2 | **Atm Temp** | 47 F |
| **Site Type** | Plant | **Collection Date** | 11/16/2022 |
| **Sample Point** | Amine Inlet | **Collection Time** | 1:31 PM |
| **Spot/Comp** | Spot | **Collection By** | Cody Carson |
| **Meter ID** | | **Pressure Base** | 14.730 psi |
| **Purchaser** | | **Temperature Base** | 60 F |
| **Fluid** | Gas | **Container(s)** | PL1962 |

## Onsite Testing by Stain Tube

| METHOD | TYPE | MEAS VALUE | MOL% | GRAINS/100 | PPMV |
|---|---|---|---|---|---|
| GPA2377 | H2S | 0.00 ppmv | 0.0000 | 0.00 | 0.0 |

*Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.*

## GPA 2286 Gas Extended Fractional Analysis

| COMPOUND | FORMULA | MOL% | WT% | GPM |
|---|---|---|---|---|
| **HELIUM** | He | 0.0156 | 0.0029 | 0.0016 |
| **NITROGEN** | N2 | 2.0408 | 2.6517 | 0.2237 |
| **CARBON DIOXIDE** | CO2 | 2.2287 | 4.5494 | 0.3789 |
| ***OXYGEN+ARGON** | O2+Ar | 0.0257 | 0.0381 | 0.0023 |
| **HYDROGEN SULFIDE** | H2S | 0.0000 | 0.0000 | 0.0000 |
| **METHANE** | C1 | 75.6107 | 56.2617 | 12.7694 |
| **ETHANE** | C2 | 11.4723 | 16.0003 | 3.0564 |
| **PROPANE** | C3 | 5.4047 | 11.0542 | 1.4833 |
| **I-BUTANE** | iC4 | 0.7077 | 1.9079 | 0.2307 |
| **N-BUTANE** | nC4 | 1.5672 | 4.2250 | 0.4922 |
| **I-PENTANE** | iC5 | 0.3242 | 1.0849 | 0.1181 |
| **N-PENTANE** | nC5 | 0.3237 | 1.0833 | 0.1169 |
| **NEO-PENTANE** | neC5 | 0.0000 | 0.0000 | 0.0000 |
| **HEXANES PLUS** | C6+ | 0.2787 | 1.1406 | 0.1108 |
| **TOTALS:** | | **100.0000** | **100.0000** | **18.9842** |

*Value of "0.0000" interpreted as below detectable limit. Onsite H2S value is used in fractional if performed.*
***Oxygen+Argon:** Compounds elute as single peak; additional testing required to distinguish each.*

| LIQUID YIELD | C2+ | C3+ | C4+ | C5+ | 26# Liquid | 10# Liquid |
|---|---|---|---|---|---|---|
| **GAL/MSCF** | 5.6084 | 2.5520 | 1.0687 | 0.3458 | 0.5116 | |
| **CALC PROP** | **BTU/CF** | **Specific Gr.** | **Z Factor** | **Mol Weight** | **LB/SCF** | **Wobbe IDX** |
| **DRY** | 1,223.3 | 0.7468 | 0.9964 | 22.20 | 0.0588 | 1,415.6 |
| **WATER SAT.** | 1,203.3 | 0.7449 | 0.9961 | 21.81 | 0.0578 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **C6+ ONLY** | 4,780.8 | 3.0464 | | 88.23 | | |

## Hexanes Plus Detail - Red Hills Processing Complex:Red Hills 2:Amine Inlet:11/16/2022

| C6 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 2,2-dimethylbutane | C6H14 | 0.002927 | 0.011699 |
| 2,3-dimethylbutane+cyclopentane | C6H14 | 0.015154 | 0.060572 |
| 2-methylpentane | C6H14 | 0.059721 | 0.238709 |
| 3-methylpentane | C6H14 | 0.028074 | 0.112214 |
| benzene | C6H6 | 0.011689 | 0.042350 |
| cyclohexane | C6H12 | 0.024844 | 0.096980 |
| methylcyclopentane | C6H12 | 0.026038 | 0.101641 |
| n-hexane | C6H14 | 0.058746 | 0.234812 |
| **TOTALS:** | | **0.227193** | **0.898977** |

| C7 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,1-dimethylcyclopentane+3-methylhexane | C7H16 | 0.006231 | 0.028960 |
| 2,2-dimethylpentane | C7H16 | 0.000530 | 0.002463 |
| 2,3-dimethylpentane | C7H16 | 0.001315 | 0.006112 |
| 2,4-dimethylhexane+ethylcyclopentane | C7H14 | 0.000693 | 0.003156 |
| 2,4-dimethylpentane | C7H16 | 0.000130 | 0.000604 |
| 2-methylhexane | C7H16 | 0.005069 | 0.023559 |
| 3,3-dimethylpentane | C7H16 | 0.000264 | 0.001227 |
| cis-1,3-dimethylcyclopentane+3-Ethylpentane | C7H14 | 0.002438 | 0.011103 |
| cycloheptane | C7H14 | 0.000028 | 0.000128 |
| methylcyclohexane+2,2-dimethylhexane+2,2,4-trimethylpentane | C7H14 | 0.010627 | 0.048397 |
| n-heptane | C7H16 | 0.008797 | 0.040885 |
| toluene | C7H8 | 0.004877 | 0.020843 |
| trans-1,2-dimethylcyclopentane+cis-1,2-Dimethylcyclopentane | C7H14 | 0.000599 | 0.002728 |
| trans-1,3-dimethylcyclopentane | C7H14 | 0.002066 | 0.009409 |
| **TOTALS:** | | **0.043664** | **0.199574** |

| C8 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1-ethyl-1-methylcyclopentane | C8H16 | 0.000144 | 0.000749 |
| 2,2,3-trimethylpentane | C8H18 | 0.000518 | 0.002744 |
| 2,3,4-trimethylpentane | C8H18 | 0.000337 | 0.001786 |
| 2,3,4-trimethylpentane | C8H18 | 0.000337 | 0.001786 |
| 2,5-dimethylhexane | C8H18 | *0.000000* | *0.000000* |
| 2-methylheptane+4-methylheptane | C8H18 | 0.001636 | 0.008668 |
| 3,3-dimethylhexane | C8H18 | 0.000189 | 0.001001 |
| 3-methylheptane | C8H18 | 0.000386 | 0.002045 |
| cis-1,2-dimethylcyclohexane | C8H16 | 0.001060 | 0.005517 |
| cis-1,3-dimethylcyclohexane | C8H16 | 0.000130 | 0.000677 |

| | | | |
|---|---|---|---|
| cyclooctane | C8H16 | *0.000000* | *0.000000* |
| ethylbenzene | C8H10 | 0.000192 | 0.000945 |
| ethylcyclohexane | C8H16 | 0.000242 | 0.001260 |
| m-xylene+p-xylene | C8H10 | 0.000444 | 0.002186 |
| n-octane | C8H18 | 0.001000 | 0.005298 |
| o-xylene | C8H10 | 0.000157 | 0.000773 |
| trans-1,3-dimethylcyclohexane | C8H16 | 0.000166 | 0.000864 |
| **TOTALS:** | | **0.006938** | **0.036299** |

| C9 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,1,2-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| 1,2,3-trimethylbenzene | C9H12 | *0.000000* | *0.000000* |
| 1,2,4-trimethylbenzene+tert-butylbenzene | C9H12 | 0.000081 | 0.000452 |
| 1,3,5-trimethylbenzene | C9H12 | *0.000000* | *0.000000* |
| 2,2,3-trimethylhexane | C9H20 | 0.000042 | 0.000250 |
| 2,2,4-trimethylhexane | C9H20 | 0.000183 | 0.001089 |
| 2,2-dimethylheptane | C9H20 | 0.000044 | 0.000262 |
| 2,3,4-trimethylhexane | C9H20 | 0.000056 | 0.000333 |
| 2,4,4-trimethylhexane | C9H20 | *0.000000* | *0.000000* |
| 2,5-dimethylheptane | C9H20 | 0.000147 | 0.000874 |
| 2-methyloctane | C9H20 | *0.000000* | *0.000000* |
| 3,4-dimethylheptane | C9H20 | 0.000032 | 0.000190 |
| cis,cis-1,2,3-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| isopropylbenzene+1,1,3-trimethylcyclopentane | C9H12 | *0.000000* | *0.000000* |
| methylcyclooctane | C9H18 | *0.000000* | *0.000000* |
| m-ethyltoluene+p-ethyltoluene | C9H12 | 0.000041 | 0.000229 |
| n-nonane | C9H20 | 0.000081 | 0.000482 |
| propylbenzene | C9H12 | *0.000000* | *0.000000* |
| propylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| r-1,t-2,c-3-trimethylcyclohexane | C9H18 | 0.000057 | 0.000334 |
| r-1,t-2,t-4-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| trans,trans-1,2,4-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| Unidentified C9 | C9 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000764** | **0.004495** |

| C10 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,2,3,4-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2,3,5-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2,4,5-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2-dimethyl-3-ethylbenzene | C10H14 | *0.000000* | *0.000000* |

| | | | |
|---|---|---|---|
| 1,2-dimethyl-4-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,3-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,3-dimethyl-2-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,4-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,4-dimethyl-2-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-2-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-2-propylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-3-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-4-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 2-methylnonane | C10H22 | *0.000000* | *0.000000* |
| 3-ethyloctane | C10H22 | *0.000000* | *0.000000* |
| 3-methylnonane | C10H22 | *0.000000* | *0.000000* |
| 4-methylnonane | C10H22 | *0.000000* | *0.000000* |
| butylbenzene | C10H14 | *0.000000* | *0.000000* |
| butylcyclohexane | C10H20 | *0.000000* | *0.000000* |
| isobutylbenzene | C10H14 | *0.000000* | *0.000000* |
| naphthalene | C10H8 | *0.000000* | *0.000000* |
| n-decane | C10H22 | *0.000000* | *0.000000* |
| sec-butylbenzene | C10H14 | *0.000000* | *0.000000* |
| tert-butylcyclohexane | C10H20 | *0.000000* | *0.000000* |
| Unidentified C10 | C10 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

| C11 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-undecane | C11H24 | 0.000039 | 0.000283 |
| pentylbenzene | C11H16 | *0.000000* | *0.000000* |
| Unidentified C11 | C11 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000039** | **0.000283** |

| C12 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-dodecane | C12H26 | 0.000038 | 0.000300 |
| Unidentified C12 | C12 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000038** | **0.000300** |

| C13 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-tridecane | C13H28 | 0.000075 | 0.000641 |
| Unidentified C13 | C13 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000075** | **0.000641** |

| C14 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-tetradecane | C14H30 | *0.000000* | *0.000000* |

| | | | |
|---|---|---|---|
| Unidentified C14 | C14 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

| C15+ GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-pentadecane | C15H32 | *0.000000* | *0.000000* |
| Unidentified C15 | C15 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

**Pantechs Laboratories, Inc. - Order: 632-3913 - Order Date: 11/16/2022**
**Order Description: Red Hills Processing Complex, Plant Inlets, Dehy Inlets, Amine Inlet/Wastes, Glycol Waste Streams**

| SAMPLE ID | | COLLECTION DATA | |
|---|---|---|---|
| **Operator** | Targa Resources Inc | **Pressure** | 830 psig |
| **Location** | Red Hills Processing Complex | **Sample Temp** | N/A |
| **Site** | Red Hills 3 | **Atm Temp** | 47 F |
| **Site Type** | Plant | **Collection Date** | 11/16/2022 |
| **Sample Point** | Amine Inlet | **Collection Time** | 1:08 PM |
| **Spot/Comp** | Spot | **Collection By** | Cody Carson |
| **Meter ID** | | **Pressure Base** | 14.730 psi |
| **Purchaser** | | **Temperature Base** | 60 F |
| **Fluid** | Gas | **Container(s)** | PL2510 |

## Onsite Testing by Stain Tube

| METHOD | TYPE | MEAS VALUE | MOL% | GRAINS/100 | PPMV |
|---|---|---|---|---|---|
| GPA2377 | H2S | 0.00 ppmv | 0.0000 | 0.00 | 0.0 |

*Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.*

## GPA 2286 Gas Extended Fractional Analysis

| COMPOUND | FORMULA | MOL% | WT% | GPM |
|---|---|---|---|---|
| **HELIUM** | He | 0.0149 | 0.0027 | 0.0015 |
| **NITROGEN** | N2 | 1.8421 | 2.3553 | 0.2019 |
| **CARBON DIOXIDE** | CO2 | 2.4838 | 4.9892 | 0.4222 |
| ***OXYGEN+ARGON** | O2+Ar | 0.0169 | 0.0247 | 0.0015 |
| **HYDROGEN SULFIDE** | H2S | 0.0000 | 0.0000 | 0.0000 |
| **METHANE** | C1 | 75.2968 | 55.1332 | 12.7146 |
| **ETHANE** | C2 | 11.0490 | 15.1638 | 2.9432 |
| **PROPANE** | C3 | 5.4665 | 11.0020 | 1.5001 |
| **I-BUTANE** | iC4 | 0.7883 | 2.0912 | 0.2569 |
| **N-BUTANE** | nC4 | 1.7515 | 4.6464 | 0.5500 |
| **I-PENTANE** | iC5 | 0.4328 | 1.4252 | 0.1577 |
| **N-PENTANE** | nC5 | 0.4124 | 1.3580 | 0.1489 |
| **NEO-PENTANE** | neC5 | 0.0000 | 0.0000 | 0.0000 |
| **HEXANES PLUS** | C6+ | 0.4450 | 1.8083 | 0.1775 |
| **TOTALS:** | | **100.0000** | **100.0000** | **19.0759** |

*Value of "0.0000" interpreted as below detectable limit. Onsite H2S value is used in fractional if performed.*
***Oxygen+Argon:** Compounds elute as single peak; additional testing required to distinguish each.*

| LIQUID YIELD | C2+ | C3+ | C4+ | C5+ | 26# Liquid | 10# Liquid |
|---|---|---|---|---|---|---|
| **GAL/MSCF** | 5.7343 | 2.7910 | 1.2910 | 0.4840 | 0.7254 | |
| **CALC PROP** | **BTU/CF** | **Specific Gr.** | **Z Factor** | **Mol Weight** | **LB/SCF** | **Wobbe IDX** |
| **DRY** | 1,239.1 | 0.7590 | 0.9963 | 22.40 | 0.0594 | 1,422.2 |
| **WATER SAT.** | 1,218.8 | 0.7569 | 0.9959 | 22.01 | 0.0583 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **C6+ ONLY** | 4,814.9 | 3.0740 | | 89.03 | | |

## Hexanes Plus Detail - Red Hills Processing Complex:Red Hills 3:Amine Inlet:11/16/2022

| C6 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 2,2-dimethylbutane | C6H14 | 0.004301 | 0.016917 |
| 2,3-dimethylbutane+cyclopentane | C6H14 | 0.021128 | 0.083101 |
| 2-methylpentane | C6H14 | 0.086699 | 0.341007 |
| 3-methylpentane | C6H14 | 0.043405 | 0.170722 |
| benzene | C6H6 | 0.018319 | 0.065311 |
| cyclohexane | C6H12 | 0.040621 | 0.156034 |
| methylcyclopentane | C6H12 | 0.039546 | 0.151905 |
| n-hexane | C6H14 | 0.087786 | 0.345282 |
| **TOTALS:** | | **0.341805** | **1.330279** |

| C7 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,1-dimethylcyclopentane+3-methylhexane | C7H16 | 0.011611 | 0.053102 |
| 2,2-dimethylpentane | C7H16 | 0.000845 | 0.003865 |
| 2,3-dimethylpentane | C7H16 | 0.002762 | 0.012632 |
| 2,4-dimethylhexane+ethylcyclopentane | C7H14 | 0.001506 | 0.006749 |
| 2,4-dimethylpentane | C7H16 | 0.000207 | 0.000947 |
| 2-methylhexane | C7H16 | 0.009175 | 0.041961 |
| 3,3-dimethylpentane | C7H16 | 0.000495 | 0.002264 |
| cis-1,3-dimethylcyclopentane+3-Ethylpentane | C7H14 | 0.004276 | 0.019163 |
| cycloheptane | C7H14 | 0.000061 | 0.000273 |
| methylcyclohexane+2,2-dimethylhexane+2,2,4-trimethylpentane | C7H14 | 0.020967 | 0.093962 |
| n-heptane | C7H16 | 0.016939 | 0.077469 |
| toluene | C7H8 | 0.011059 | 0.046507 |
| trans-1,2-dimethylcyclopentane+cis-1,2-Dimethylcyclopentane | C7H14 | 0.000990 | 0.004437 |
| trans-1,3-dimethylcyclopentane | C7H14 | 0.003391 | 0.015196 |
| **TOTALS:** | | **0.084284** | **0.378527** |

| C8 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1-ethyl-1-methylcyclopentane | C8H16 | 0.000373 | 0.001910 |
| 2,2,3-trimethylpentane | C8H18 | 0.001007 | 0.005250 |
| 2,3,4-trimethylpentane | C8H18 | 0.000660 | 0.003441 |
| 2,3,4-trimethylpentane | C8H18 | 0.000660 | 0.003441 |
| 2,5-dimethylhexane | C8H18 | *0.000000* | *0.000000* |
| 2-methylheptane+4-methylheptane | C8H18 | 0.003880 | 0.020229 |
| 3,3-dimethylhexane | C8H18 | 0.000404 | 0.002106 |
| 3-methylheptane | C8H18 | 0.000937 | 0.004885 |
| cis-1,2-dimethylcyclohexane | C8H16 | 0.001883 | 0.009644 |
| cis-1,3-dimethylcyclohexane | C8H16 | 0.000368 | 0.001885 |

| | | | |
|---|---|---|---|
| cyclooctane | C8H16 | 0.000130 | 0.000666 |
| ethylbenzene | C8H10 | 0.000517 | 0.002505 |
| ethylcyclohexane | C8H16 | 0.000712 | 0.003647 |
| m-xylene+p-xylene | C8H10 | 0.001107 | 0.005364 |
| n-octane | C8H18 | 0.002567 | 0.013383 |
| o-xylene | C8H10 | 0.000324 | 0.001570 |
| trans-1,3-dimethylcyclohexane | C8H16 | 0.000273 | 0.001398 |
| **TOTALS:** | | **0.015802** | **0.081324** |

| C9 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,1,2-trimethylcyclohexane | C9H18 | 0.000060 | 0.000346 |
| 1,2,3-trimethylbenzene | C9H12 | *0.000000* | *0.000000* |
| 1,2,4-trimethylbenzene+tert-butylbenzene | C9H12 | 0.000067 | 0.000368 |
| 1,3,5-trimethylbenzene | C9H12 | 0.000145 | 0.000795 |
| 2,2,3-trimethylhexane | C9H20 | 0.000075 | 0.000439 |
| 2,2,4-trimethylhexane | C9H20 | 0.000404 | 0.002365 |
| 2,2-dimethylheptane | C9H20 | 0.000139 | 0.000814 |
| 2,3,4-trimethylhexane | C9H20 | 0.000189 | 0.001106 |
| 2,4,4-trimethylhexane | C9H20 | *0.000000* | *0.000000* |
| 2,5-dimethylheptane | C9H20 | 0.000414 | 0.002423 |
| 2-methyloctane | C9H20 | 0.000026 | 0.000152 |
| 3,4-dimethylheptane | C9H20 | 0.000085 | 0.000498 |
| cis,cis-1,2,3-trimethylcyclohexane | C9H18 | 0.000139 | 0.000801 |
| isopropylbenzene+1,1,3-trimethylcyclopentane | C9H12 | 0.000152 | 0.000834 |
| methylcyclooctane | C9H18 | *0.000000* | *0.000000* |
| m-ethyltoluene+p-ethyltoluene | C9H12 | 0.000150 | 0.000823 |
| n-nonane | C9H20 | 0.000270 | 0.001581 |
| propylbenzene | C9H12 | 0.000154 | 0.000845 |
| propylcyclohexane | C9H18 | 0.000057 | 0.000328 |
| r-1,t-2,c-3-trimethylcyclohexane | C9H18 | 0.000159 | 0.000916 |
| r-1,t-2,t-4-trimethylcyclohexane | C9H18 | 0.000094 | 0.000542 |
| trans,trans-1,2,4-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| Unidentified C9 | C9 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.002779** | **0.015976** |

| C10 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,2,3,4-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2,3,5-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2,4,5-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2-diethylbenzene | C10H14 | 0.000047 | 0.000288 |
| 1,2-dimethyl-3-ethylbenzene | C10H14 | *0.000000* | *0.000000* |

| | | | |
|---|---|---|---|
| 1,2-dimethyl-4-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,3-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,3-dimethyl-2-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,4-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,4-dimethyl-2-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-2-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-2-propylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-3-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-4-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 2-methylnonane | C10H22 | *0.000000* | *0.000000* |
| 3-ethyloctane | C10H22 | *0.000000* | *0.000000* |
| 3-methylnonane | C10H22 | *0.000000* | *0.000000* |
| 4-methylnonane | C10H22 | *0.000000* | *0.000000* |
| butylbenzene | C10H14 | *0.000000* | *0.000000* |
| butylcyclohexane | C10H20 | *0.000000* | *0.000000* |
| isobutylbenzene | C10H14 | *0.000000* | *0.000000* |
| naphthalene | C10H8 | *0.000000* | *0.000000* |
| n-decane | C10H22 | 0.000024 | 0.000156 |
| sec-butylbenzene | C10H14 | *0.000000* | *0.000000* |
| tert-butylcyclohexane | C10H20 | *0.000000* | *0.000000* |
| Unidentified C10 | C10 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000071** | **0.000444** |

| C11 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-undecane | C11H24 | 0.000070 | 0.000499 |
| pentylbenzene | C11H16 | *0.000000* | *0.000000* |
| Unidentified C11 | C11 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000070** | **0.000499** |

| C12 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-dodecane | C12H26 | 0.000041 | 0.000319 |
| Unidentified C12 | C12 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000041** | **0.000319** |

| C13 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-tridecane | C13H28 | 0.000053 | 0.000446 |
| Unidentified C13 | C13 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000053** | **0.000446** |

| C14 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-tetradecane | C14H30 | 0.000051 | 0.000462 |

| | | | |
|---|---|---|---|
| Unidentified C14 | C14 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000051** | **0.000462** |

| C15+ GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-pentadecane | C15H32 | *0.000000* | *0.000000* |
| Unidentified C15 | C15 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

**Pantechs Laboratories, Inc. - Order: 632-3913 - Order Date: 11/16/2022**
**Order Description: Red Hills Processing Complex, Plant Inlets, Dehy Inlets, Amine Inlet/Wastes, Glycol Waste Streams**

| SAMPLE ID | | COLLECTION DATA | |
|---|---|---|---|
| **Operator** | Targa Resources Inc | **Pressure** | 838 psig |
| **Location** | Red Hills Processing Complex | **Sample Temp** | N/A |
| **Site** | Red Hills 4 | **Atm Temp** | 45 F |
| **Site Type** | Plant | **Collection Date** | 11/16/2022 |
| **Sample Point** | Amine Inlet | **Collection Time** | 1:58 PM |
| **Spot/Comp** | Spot | **Collection By** | Cody Carson |
| **Meter ID** | | **Pressure Base** | 14.730 psi |
| **Purchaser** | | **Temperature Base** | 60 F |
| **Fluid** | Gas | **Container(s)** | PL2105 |

## Onsite Testing by Stain Tube

| METHOD | TYPE | MEAS VALUE | MOL% | GRAINS/100 | PPMV |
|---|---|---|---|---|---|
| GPA2377 | H2S | 0.00 ppmv | 0.0000 | 0.00 | 0.0 |

*Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.*

## GPA 2286 Gas Extended Fractional Analysis

| COMPOUND | FORMULA | MOL% | WT% | GPM |
|---|---|---|---|---|
| **HELIUM** | He | 0.0160 | 0.0029 | 0.0016 |
| **NITROGEN** | N2 | 1.8335 | 2.2934 | 0.2009 |
| **CARBON DIOXIDE** | CO2 | 3.5948 | 7.0639 | 0.6110 |
| ***OXYGEN+ARGON** | O2+Ar | 0.0099 | 0.0141 | 0.0009 |
| **HYDROGEN SULFIDE** | H2S | 0.0000 | 0.0000 | 0.0000 |
| **METHANE** | C1 | 73.4978 | 52.6467 | 12.4095 |
| **ETHANE** | C2 | 11.3446 | 15.2311 | 3.0216 |
| **PROPANE** | C3 | 5.6863 | 11.1956 | 1.5602 |
| **I-BUTANE** | iC4 | 0.8055 | 2.0904 | 0.2625 |
| **N-BUTANE** | nC4 | 1.8690 | 4.8504 | 0.5868 |
| **I-PENTANE** | iC5 | 0.4553 | 1.4667 | 0.1658 |
| **N-PENTANE** | nC5 | 0.4754 | 1.5315 | 0.1716 |
| **NEO-PENTANE** | neC5 | 0.0000 | 0.0000 | 0.0000 |
| **HEXANES PLUS** | C6+ | 0.4119 | 1.6133 | 0.1638 |
| **TOTALS:** | | **100.0000** | **100.0000** | **19.1563** |

*Value of "0.0000" interpreted as below detectable limit. Onsite H2S value is used in fractional if performed.*
***Oxygen+Argon:** Compounds elute as single peak; additional testing required to distinguish each.*

| LIQUID YIELD | C2+ | C3+ | C4+ | C5+ | 26# Liquid | 10# Liquid |
|---|---|---|---|---|---|---|
| **GAL/MSCF** | 5.9324 | 2.9108 | 1.3506 | 0.5012 | 0.7426 | |
| **CALC PROP** | **BTU/CF** | **Specific Gr.** | **Z Factor** | **Mol Weight** | **LB/SCF** | **Wobbe IDX** |
| **DRY** | 1,237.8 | 0.7759 | 0.9962 | 22.91 | 0.0607 | 1,405.2 |
| **WATER SAT.** | 1,217.6 | 0.7736 | 0.9958 | 22.51 | 0.0597 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **C6+ ONLY** | 4,762.0 | 3.0287 | | 87.72 | | |

## Hexanes Plus Detail - Red Hills Processing Complex:Red Hills 4:Amine Inlet:11/16/2022

| C6 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 2,2-dimethylbutane | C6H14 | 0.004882 | 0.018785 |
| 2,3-dimethylbutane+cyclopentane | C6H14 | 0.022324 | 0.085897 |
| 2-methylpentane | C6H14 | 0.094421 | 0.363309 |
| 3-methylpentane | C6H14 | 0.043837 | 0.168674 |
| benzene | C6H6 | 0.017165 | 0.059867 |
| cyclohexane | C6H12 | 0.035616 | 0.133836 |
| methylcyclopentane | C6H12 | 0.036986 | 0.138984 |
| n-hexane | C6H14 | 0.093218 | 0.358680 |
| **TOTALS:** | | **0.348449** | **1.328032** |

| C7 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,1-dimethylcyclopentane+3-methylhexane | C7H16 | 0.009028 | 0.040392 |
| 2,2-dimethylpentane | C7H16 | 0.000882 | 0.003946 |
| 2,3-dimethylpentane | C7H16 | 0.001919 | 0.008586 |
| 2,4-dimethylhexane+ethylcyclopentane | C7H14 | 0.000820 | 0.003595 |
| 2,4-dimethylpentane | C7H16 | 0.000213 | 0.000953 |
| 2-methylhexane | C7H16 | 0.007576 | 0.033895 |
| 3,3-dimethylpentane | C7H16 | 0.000424 | 0.001897 |
| cis-1,3-dimethylcyclopentane+3-Ethylpentane | C7H14 | 0.003035 | 0.013306 |
| cycloheptane | C7H14 | *0.000000* | *0.000000* |
| methylcyclohexane+2,2-dimethylhexane+2,2,4-trimethylpentane | C7H14 | 0.012498 | 0.054792 |
| n-heptane | C7H16 | 0.011851 | 0.053022 |
| toluene | C7H8 | 0.004941 | 0.020327 |
| trans-1,2-dimethylcyclopentane+cis-1,2-Dimethylcyclopentane | C7H14 | 0.000741 | 0.003249 |
| trans-1,3-dimethylcyclopentane | C7H14 | 0.002560 | 0.011223 |
| **TOTALS:** | | **0.056488** | **0.249183** |

| C8 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1-ethyl-1-methylcyclopentane | C8H16 | 0.000125 | 0.000626 |
| 2,2,3-trimethylpentane | C8H18 | 0.000543 | 0.002769 |
| 2,3,4-trimethylpentane | C8H18 | 0.000325 | 0.001658 |
| 2,3,4-trimethylpentane | C8H18 | 0.000325 | 0.001658 |
| 2,5-dimethylhexane | C8H18 | *0.000000* | *0.000000* |
| 2-methylheptane+4-methylheptane | C8H18 | 0.001690 | 0.008620 |
| 3,3-dimethylhexane | C8H18 | 0.000192 | 0.000979 |
| 3-methylheptane | C8H18 | 0.000377 | 0.001923 |
| cis-1,2-dimethylcyclohexane | C8H16 | 0.000927 | 0.004645 |
| cis-1,3-dimethylcyclohexane | C8H16 | 0.000126 | 0.000631 |

| | | | |
|---|---|---|---|
| cyclooctane | C8H16 | *0.000000* | *0.000000* |
| ethylbenzene | C8H10 | 0.000155 | 0.000735 |
| ethylcyclohexane | C8H16 | 0.000176 | 0.000882 |
| m-xylene+p-xylene | C8H10 | 0.000287 | 0.001360 |
| n-octane | C8H18 | 0.000824 | 0.004203 |
| o-xylene | C8H10 | 0.000100 | 0.000474 |
| trans-1,3-dimethylcyclohexane | C8H16 | 0.000115 | 0.000576 |
| **TOTALS:** | | **0.006287** | **0.031739** |

| C9 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,1,2-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| 1,2,3-trimethylbenzene | C9H12 | *0.000000* | *0.000000* |
| 1,2,4-trimethylbenzene+tert-butylbenzene | C9H12 | *0.000000* | *0.000000* |
| 1,3,5-trimethylbenzene | C9H12 | *0.000000* | *0.000000* |
| 2,2,3-trimethylhexane | C9H20 | *0.000000* | *0.000000* |
| 2,2,4-trimethylhexane | C9H20 | 0.000168 | 0.000962 |
| 2,2-dimethylheptane | C9H20 | *0.000000* | *0.000000* |
| 2,3,4-trimethylhexane | C9H20 | 0.000047 | 0.000269 |
| 2,4,4-trimethylhexane | C9H20 | *0.000000* | *0.000000* |
| 2,5-dimethylheptane | C9H20 | 0.000085 | 0.000487 |
| 2-methyloctane | C9H20 | *0.000000* | *0.000000* |
| 3,4-dimethylheptane | C9H20 | *0.000000* | *0.000000* |
| cis,cis-1,2,3-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| isopropylbenzene+1,1,3-trimethylcyclopentane | C9H12 | *0.000000* | *0.000000* |
| methylcyclooctane | C9H18 | *0.000000* | *0.000000* |
| m-ethyltoluene+p-ethyltoluene | C9H12 | *0.000000* | *0.000000* |
| n-nonane | C9H20 | 0.000063 | 0.000361 |
| propylbenzene | C9H12 | *0.000000* | *0.000000* |
| propylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| r-1,t-2,c-3-trimethylcyclohexane | C9H18 | 0.000043 | 0.000242 |
| r-1,t-2,t-4-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| trans,trans-1,2,4-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| Unidentified C9 | C9 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000406** | **0.002321** |

| C10 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,2,3,4-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2,3,5-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2,4,5-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2-dimethyl-3-ethylbenzene | C10H14 | *0.000000* | *0.000000* |

| | | | |
|---|---|---|---|
| 1,2-dimethyl-4-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,3-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,3-dimethyl-2-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,4-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,4-dimethyl-2-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-2-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-2-propylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-3-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-4-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 2-methylnonane | C10H22 | *0.000000* | *0.000000* |
| 3-ethyloctane | C10H22 | *0.000000* | *0.000000* |
| 3-methylnonane | C10H22 | *0.000000* | *0.000000* |
| 4-methylnonane | C10H22 | *0.000000* | *0.000000* |
| butylbenzene | C10H14 | *0.000000* | *0.000000* |
| butylcyclohexane | C10H20 | *0.000000* | *0.000000* |
| isobutylbenzene | C10H14 | *0.000000* | *0.000000* |
| naphthalene | C10H8 | *0.000000* | *0.000000* |
| n-decane | C10H22 | 0.000048 | 0.000305 |
| sec-butylbenzene | C10H14 | *0.000000* | *0.000000* |
| tert-butylcyclohexane | C10H20 | *0.000000* | *0.000000* |
| Unidentified C10 | C10 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000048** | **0.000305** |

| C11 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-undecane | C11H24 | 0.000063 | 0.000440 |
| pentylbenzene | C11H16 | *0.000000* | *0.000000* |
| Unidentified C11 | C11 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000063** | **0.000440** |

| C12 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-dodecane | C12H26 | 0.000053 | 0.000403 |
| Unidentified C12 | C12 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000053** | **0.000403** |

| C13 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-tridecane | C13H28 | 0.000061 | 0.000502 |
| Unidentified C13 | C13 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000061** | **0.000502** |

| C14 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-tetradecane | C14H30 | 0.000041 | 0.000363 |

| | | | |
|---|---|---|---|
| Unidentified C14 | C14 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000041** | **0.000363** |

| C15+ GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-pentadecane | C15H32 | *0.000000* | *0.000000* |
| Unidentified C15 | C15 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

**Pantechs Laboratories, Inc. - Order: 632-3913 - Order Date: 11/16/2022**
**Order Description: Red Hills Processing Complex, Plant Inlets, Dehy Inlets, Amine Inlet/Wastes, Glycol Waste Streams**

| SAMPLE ID | | COLLECTION DATA | |
|---|---|---|---|
| **Operator** | Targa Resources Inc | **Pressure** | 810 psig |
| **Location** | Red Hills Processing Complex | **Sample Temp** | N/A |
| **Site** | Red Hills 5 | **Atm Temp** | 45 F |
| **Site Type** | Plant | **Collection Date** | 11/16/2022 |
| **Sample Point** | Amine Inlet | **Collection Time** | 2:07 PM |
| **Spot/Comp** | Spot | **Collection By** | Cody Carson |
| **Meter ID** | | **Pressure Base** | 14.730 psi |
| **Purchaser** | | **Temperature Base** | 60 F |
| **Fluid** | Gas | **Container(s)** | PL5181 , PL2491 , PL2000 |

## Onsite Testing by Stain Tube

| METHOD | TYPE | MEAS VALUE | MOL% | GRAINS/100 | PPMV |
|---|---|---|---|---|---|
| GPA2377 | H2S | 1.00 ppmv | 0.0001 | 0.07 | 1.1 |

*Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.*

## GPA 2286 Gas Extended Fractional Analysis

| COMPOUND | FORMULA | MOL% | WT% | GPM |
|---|---|---|---|---|
| **HELIUM** | He | 0.0167 | 0.0031 | 0.0017 |
| **NITROGEN** | N2 | 1.7977 | 2.2991 | 0.1970 |
| **CARBON DIOXIDE** | CO2 | 3.4321 | 6.8958 | 0.5835 |
| ***OXYGEN+ARGON** | O2+Ar | 0.0052 | 0.0076 | 0.0005 |
| **HYDROGEN SULFIDE** | H2S | 0.0001 | 0.0002 | 0.0000 |
| **METHANE** | C1 | 74.7204 | 54.7252 | 12.6181 |
| **ETHANE** | C2 | 11.3088 | 15.5244 | 3.0126 |
| **PROPANE** | C3 | 5.4154 | 10.9020 | 1.4861 |
| **I-BUTANE** | iC4 | 0.7131 | 1.8922 | 0.2324 |
| **N-BUTANE** | nC4 | 1.5795 | 4.1912 | 0.4960 |
| **I-PENTANE** | iC5 | 0.3449 | 1.1361 | 0.1256 |
| **N-PENTANE** | nC5 | 0.3507 | 1.1552 | 0.1266 |
| **NEO-PENTANE** | neC5 | 0.0000 | 0.0000 | 0.0000 |
| **HEXANES PLUS** | C6+ | 0.3154 | 1.2679 | 0.1248 |
| **TOTALS:** | | **100.0000** | **100.0000** | **19.0051** |

*Value of "0.0000" interpreted as below detectable limit. Onsite H2S value is used in fractional if performed.*
***Oxygen+Argon:** Compounds elute as single peak; additional testing required to distinguish each.*

| LIQUID YIELD | C2+ | C3+ | C4+ | C5+ | 26# Liquid | 10# Liquid |
|---|---|---|---|---|---|---|
| **GAL/MSCF** | 5.6043 | 2.5917 | 1.1055 | 0.3771 | 0.5602 | |
| **CALC PROP** | **BTU/CF** | **Specific Gr.** | **Z Factor** | **Mol Weight** | **LB/SCF** | **Wobbe IDX** |
| **DRY** | 1,215.9 | 0.7588 | 0.9964 | 22.51 | 0.0596 | 1,395.9 |
| **WATER SAT.** | 1,196.1 | 0.7567 | 0.9960 | 22.12 | 0.0586 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **C6+ ONLY** | 4,764.4 | 3.0402 | | 88.05 | | |

## Hexanes Plus Detail - Red Hills Processing Complex:Red Hills 5:Amine Inlet:11/16/2022

| C6 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 2,2-dimethylbutane | C6H14 | 0.003233 | 0.012719 |
| 2,3-dimethylbutane+cyclopentane | C6H14 | 0.017799 | 0.070026 |
| 2-methylpentane | C6H14 | 0.066300 | 0.260841 |
| 3-methylpentane | C6H14 | 0.031207 | 0.122776 |
| benzene | C6H6 | 0.016082 | 0.057350 |
| cyclohexane | C6H12 | 0.030263 | 0.116277 |
| methylcyclopentane | C6H12 | 0.028201 | 0.108354 |
| n-hexane | C6H14 | 0.065558 | 0.257921 |
| **TOTALS:** | | **0.258643** | **1.006264** |

| C7 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,1-dimethylcyclopentane+3-methylhexane | C7H16 | 0.006702 | 0.030659 |
| 2,2-dimethylpentane | C7H16 | 0.000621 | 0.002841 |
| 2,3-dimethylpentane | C7H16 | 0.001489 | 0.006812 |
| 2,4-dimethylhexane+ethylcyclopentane | C7H14 | 0.000764 | 0.003425 |
| 2,4-dimethylpentane | C7H16 | 0.000154 | 0.000704 |
| 2-methylhexane | C7H16 | 0.005467 | 0.025009 |
| 3,3-dimethylpentane | C7H16 | 0.000314 | 0.001436 |
| cis-1,3-dimethylcyclopentane+3-Ethylpentane | C7H14 | 0.002498 | 0.011197 |
| cycloheptane | C7H14 | 0.000027 | 0.000121 |
| methylcyclohexane+2,2-dimethylhexane+2,2,4-trimethylpentane | C7H14 | 0.012078 | 0.054141 |
| n-heptane | C7H16 | 0.009348 | 0.042763 |
| toluene | C7H8 | 0.006364 | 0.026770 |
| trans-1,2-dimethylcyclopentane+cis-1,2-Dimethylcyclopentane | C7H14 | 0.000594 | 0.002663 |
| trans-1,3-dimethylcyclopentane | C7H14 | 0.002011 | 0.009014 |
| **TOTALS:** | | **0.048431** | **0.217555** |

| C8 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1-ethyl-1-methylcyclopentane | C8H16 | 0.000175 | 0.000897 |
| 2,2,3-trimethylpentane | C8H18 | 0.000514 | 0.002681 |
| 2,3,4-trimethylpentane | C8H18 | 0.000323 | 0.001684 |
| 2,3,4-trimethylpentane | C8H18 | 0.000323 | 0.001684 |
| 2,5-dimethylhexane | C8H18 | *0.000000* | *0.000000* |
| 2-methylheptane+4-methylheptane | C8H18 | 0.001713 | 0.008933 |
| 3,3-dimethylhexane | C8H18 | 0.000201 | 0.001048 |
| 3-methylheptane | C8H18 | 0.000398 | 0.002076 |
| cis-1,2-dimethylcyclohexane | C8H16 | 0.000903 | 0.004626 |
| cis-1,3-dimethylcyclohexane | C8H16 | 0.000157 | 0.000804 |

| | | | |
|---|---|---|---|
| cyclooctane | C8H16 | *0.000000* | *0.000000* |
| ethylbenzene | C8H10 | 0.000285 | 0.001381 |
| ethylcyclohexane | C8H16 | 0.000311 | 0.001593 |
| m-xylene+p-xylene | C8H10 | 0.000442 | 0.002142 |
| n-octane | C8H18 | 0.001044 | 0.005444 |
| o-xylene | C8H10 | 0.000134 | 0.000649 |
| trans-1,3-dimethylcyclohexane | C8H16 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.006923** | **0.035642** |

| C9 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,1,2-trimethylcyclohexane | C9H18 | 0.000056 | 0.000323 |
| 1,2,3-trimethylbenzene | C9H12 | 0.000052 | 0.000285 |
| 1,2,4-trimethylbenzene+tert-butylbenzene | C9H12 | *0.000000* | *0.000000* |
| 1,3,5-trimethylbenzene | C9H12 | 0.000075 | 0.000412 |
| 2,2,3-trimethylhexane | C9H20 | 0.000049 | 0.000287 |
| 2,2,4-trimethylhexane | C9H20 | 0.000196 | 0.001148 |
| 2,2-dimethylheptane | C9H20 | 0.000057 | 0.000334 |
| 2,3,4-trimethylhexane | C9H20 | 0.000075 | 0.000439 |
| 2,4,4-trimethylhexane | C9H20 | 0.000171 | 0.001001 |
| 2,5-dimethylheptane | C9H20 | 0.000143 | 0.000837 |
| 2-methyloctane | C9H20 | *0.000000* | *0.000000* |
| 3,4-dimethylheptane | C9H20 | 0.000042 | 0.000246 |
| cis,cis-1,2,3-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| isopropylbenzene+1,1,3-trimethylcyclopentane | C9H12 | *0.000000* | *0.000000* |
| methylcyclooctane | C9H18 | *0.000000* | *0.000000* |
| m-ethyltoluene+p-ethyltoluene | C9H12 | 0.000054 | 0.000296 |
| n-nonane | C9H20 | 0.000113 | 0.000662 |
| propylbenzene | C9H12 | 0.000105 | 0.000576 |
| propylcyclohexane | C9H18 | 0.000030 | 0.000173 |
| r-1,t-2,c-3-trimethylcyclohexane | C9H18 | 0.000078 | 0.000450 |
| r-1,t-2,t-4-trimethylcyclohexane | C9H18 | 0.000017 | 0.000098 |
| trans,trans-1,2,4-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| Unidentified C9 | C9 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.001313** | **0.007567** |

| C10 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,2,3,4-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2,3,5-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2,4,5-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2-dimethyl-3-ethylbenzene | C10H14 | *0.000000* | *0.000000* |

| | | | |
|---|---|---|---|
| 1,2-dimethyl-4-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,3-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,3-dimethyl-2-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,4-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,4-dimethyl-2-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-2-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-2-propylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-3-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-4-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 2-methylnonane | C10H22 | *0.000000* | *0.000000* |
| 3-ethyloctane | C10H22 | *0.000000* | *0.000000* |
| 3-methylnonane | C10H22 | *0.000000* | *0.000000* |
| 4-methylnonane | C10H22 | 0.000041 | 0.000266 |
| butylbenzene | C10H14 | *0.000000* | *0.000000* |
| butylcyclohexane | C10H20 | *0.000000* | *0.000000* |
| isobutylbenzene | C10H14 | *0.000000* | *0.000000* |
| naphthalene | C10H8 | *0.000000* | *0.000000* |
| n-decane | C10H22 | 0.000041 | 0.000266 |
| sec-butylbenzene | C10H14 | *0.000000* | *0.000000* |
| tert-butylcyclohexane | C10H20 | *0.000000* | *0.000000* |
| Unidentified C10 | C10 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000082** | **0.000532** |

| C11 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-undecane | C11H24 | 0.000043 | 0.000307 |
| pentylbenzene | C11H16 | *0.000000* | *0.000000* |
| Unidentified C11 | C11 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000043** | **0.000307** |

| C12 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-dodecane | C12H26 | *0.000000* | *0.000000* |
| Unidentified C12 | C12 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

| C13 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-tridecane | C13H28 | *0.000000* | *0.000000* |
| Unidentified C13 | C13 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

| C14 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-tetradecane | C14H30 | *0.000000* | *0.000000* |

| | | | |
|---|---|---|---|
| Unidentified C14 | C14 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

| C15+ GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-pentadecane | C15H32 | *0.000000* | *0.000000* |
| Unidentified C15 | C15 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

**Pantechs Laboratories, Inc. - Order: 632-3913 - Order Date: 11/16/2022**
**Order Description: Red Hills Processing Complex, Plant Inlets, Dehy Inlets, Amine Inlet/Wastes, Glycol Waste Streams**

| SAMPLE ID | | COLLECTION DATA | |
|---|---|---|---|
| **Operator** | Targa Resources Inc | **Pressure** | 808 psig |
| **Location** | Red Hills Processing Complex | **Sample Temp** | N/A |
| **Site** | Red Hills 6 | **Atm Temp** | 45 F |
| **Site Type** | Plant | **Collection Date** | 11/16/2022 |
| **Sample Point** | Amine Inlet | **Collection Time** | 2:20 PM |
| **Spot/Comp** | Spot | **Collection By** | Cody Carson |
| **Meter ID** | | **Pressure Base** | 14.730 psi |
| **Purchaser** | | **Temperature Base** | 60 F |
| **Fluid** | Gas | **Container(s)** | PL0843 |

## Onsite Testing by Stain Tube

| METHOD | TYPE | MEAS VALUE | MOL% | GRAINS/100 | PPMV |
|---|---|---|---|---|---|
| GPA2377 | H2S | 0.00 ppmv | 0.0000 | 0.00 | 0.0 |

*Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.*

## GPA 2286 Gas Extended Fractional Analysis

| COMPOUND | FORMULA | MOL% | WT% | GPM |
|---|---|---|---|---|
| **HELIUM** | He | 0.0164 | 0.0028 | 0.0017 |
| **NITROGEN** | N2 | 1.8846 | 2.2733 | 0.2064 |
| **CARBON DIOXIDE** | CO2 | 3.6569 | 6.9300 | 0.6213 |
| ***OXYGEN+ARGON** | O2+Ar | 0.0111 | 0.0153 | 0.0010 |
| **HYDROGEN SULFIDE** | H2S | 0.0000 | 0.0000 | 0.0000 |
| **METHANE** | C1 | 71.4411 | 49.3513 | 12.0582 |
| **ETHANE** | C2 | 11.5637 | 14.9724 | 3.0790 |
| **PROPANE** | C3 | 6.2418 | 11.8517 | 1.7120 |
| **I-BUTANE** | iC4 | 0.9439 | 2.3623 | 0.3075 |
| **N-BUTANE** | nC4 | 2.2836 | 5.7153 | 0.7168 |
| **I-PENTANE** | iC5 | 0.6219 | 1.9321 | 0.2264 |
| **N-PENTANE** | nC5 | 0.6729 | 2.0905 | 0.2428 |
| **NEO-PENTANE** | neC5 | 0.0000 | 0.0000 | 0.0000 |
| **HEXANES PLUS** | C6+ | 0.6621 | 2.5030 | 0.2615 |
| **TOTALS:** | | **100.0000** | **100.0000** | **19.4347** |

*Value of "0.0000" interpreted as below detectable limit. Onsite H2S value is used in fractional if performed.*
***Oxygen+Argon:** Compounds elute as single peak; additional testing required to distinguish each.*

| LIQUID YIELD | C2+ | C3+ | C4+ | C5+ | 26# Liquid | 10# Liquid |
|---|---|---|---|---|---|---|
| **GAL/MSCF** | 6.5461 | 3.4672 | 1.7551 | 0.7308 | 1.0950 | |
| **CALC PROP** | **BTU/CF** | **Specific Gr.** | **Z Factor** | **Mol Weight** | **LB/SCF** | **Wobbe IDX** |
| **DRY** | 1,280.0 | 0.8049 | 0.9959 | 23.52 | 0.0623 | 1,426.8 |
| **WATER SAT.** | 1,259.1 | 0.8021 | 0.9955 | 23.11 | 0.0613 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **C6+ ONLY** | 4,753.6 | 3.0313 | | 87.79 | | |

## Hexanes Plus Detail - Red Hills Processing Complex:Red Hills 6:Amine Inlet:11/16/2022

| C6 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 2,2-dimethylbutane | C6H14 | 0.006444 | 0.023912 |
| 2,3-dimethylbutane+cyclopentane | C6H14 | 0.034101 | 0.126540 |
| 2-methylpentane | C6H14 | 0.141864 | 0.526419 |
| 3-methylpentane | C6H14 | 0.066786 | 0.247825 |
| benzene | C6H6 | 0.033528 | 0.112772 |
| cyclohexane | C6H12 | 0.062508 | 0.226524 |
| methylcyclopentane | C6H12 | 0.061194 | 0.221762 |
| n-hexane | C6H14 | 0.142952 | 0.530456 |
| **TOTALS:** | | **0.549377** | **2.016210** |

| C7 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,1-dimethylcyclopentane+3-methylhexane | C7H16 | 0.014492 | 0.062529 |
| 2,2-dimethylpentane | C7H16 | 0.001293 | 0.005579 |
| 2,3-dimethylpentane | C7H16 | 0.003044 | 0.013134 |
| 2,4-dimethylhexane+ethylcyclopentane | C7H14 | 0.001479 | 0.006253 |
| 2,4-dimethylpentane | C7H16 | 0.000340 | 0.001467 |
| 2-methylhexane | C7H16 | 0.011852 | 0.051138 |
| 3,3-dimethylpentane | C7H16 | 0.000636 | 0.002744 |
| cis-1,3-dimethylcyclopentane+3-Ethylpentane | C7H14 | 0.005308 | 0.022442 |
| cycloheptane | C7H14 | 0.000047 | 0.000199 |
| methylcyclohexane+2,2-dimethylhexane+2,2,4-trimethylpentane | C7H14 | 0.023895 | 0.101026 |
| n-heptane | C7H16 | 0.019577 | 0.084469 |
| toluene | C7H8 | 0.012369 | 0.049074 |
| trans-1,2-dimethylcyclopentane+cis-1,2-Dimethylcyclopentane | C7H14 | 0.001295 | 0.005475 |
| trans-1,3-dimethylcyclopentane | C7H14 | 0.004475 | 0.018920 |
| **TOTALS:** | | **0.100102** | **0.424449** |

| C8 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1-ethyl-1-methylcyclopentane | C8H16 | 0.000269 | 0.001300 |
| 2,2,3-trimethylpentane | C8H18 | 0.000996 | 0.004899 |
| 2,3,4-trimethylpentane | C8H18 | 0.000635 | 0.003123 |
| 2,3,4-trimethylpentane | C8H18 | 0.000635 | 0.003123 |
| 2,5-dimethylhexane | C8H18 | *0.000000* | *0.000000* |
| 2-methylheptane+4-methylheptane | C8H18 | 0.002888 | 0.014205 |
| 3,3-dimethylhexane | C8H18 | 0.000350 | 0.001722 |
| 3-methylheptane | C8H18 | 0.000695 | 0.003418 |
| cis-1,2-dimethylcyclohexane | C8H16 | 0.001630 | 0.007876 |
| cis-1,3-dimethylcyclohexane | C8H16 | 0.000169 | 0.000817 |

| | | | |
|---|---|---|---|
| cyclooctane | C8H16 | *0.000000* | *0.000000* |
| ethylbenzene | C8H10 | 0.000282 | 0.001289 |
| ethylcyclohexane | C8H16 | 0.000428 | 0.002068 |
| m-xylene+p-xylene | C8H10 | 0.000639 | 0.002921 |
| n-octane | C8H18 | 0.001613 | 0.007934 |
| o-xylene | C8H10 | 0.000155 | 0.000709 |
| trans-1,3-dimethylcyclohexane | C8H16 | 0.000262 | 0.001266 |
| **TOTALS:** | | **0.011646** | **0.056670** |

| C9 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,1,2-trimethylcyclohexane | C9H18 | 0.000054 | 0.000294 |
| 1,2,3-trimethylbenzene | C9H12 | *0.000000* | *0.000000* |
| 1,2,4-trimethylbenzene+tert-butylbenzene | C9H12 | *0.000000* | *0.000000* |
| 1,3,5-trimethylbenzene | C9H12 | *0.000000* | *0.000000* |
| 2,2,3-trimethylhexane | C9H20 | 0.000054 | 0.000298 |
| 2,2,4-trimethylhexane | C9H20 | 0.000324 | 0.001789 |
| 2,2-dimethylheptane | C9H20 | 0.000055 | 0.000304 |
| 2,3,4-trimethylhexane | C9H20 | 0.000068 | 0.000376 |
| 2,4,4-trimethylhexane | C9H20 | *0.000000* | *0.000000* |
| 2,5-dimethylheptane | C9H20 | 0.000206 | 0.001138 |
| 2-methyloctane | C9H20 | *0.000000* | *0.000000* |
| 3,4-dimethylheptane | C9H20 | *0.000000* | *0.000000* |
| cis,cis-1,2,3-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| isopropylbenzene+1,1,3-trimethylcyclopentane | C9H12 | 0.000001 | 0.000005 |
| methylcyclooctane | C9H18 | *0.000000* | *0.000000* |
| m-ethyltoluene+p-ethyltoluene | C9H12 | *0.000000* | *0.000000* |
| n-nonane | C9H20 | 0.000063 | 0.000348 |
| propylbenzene | C9H12 | *0.000000* | *0.000000* |
| propylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| r-1,t-2,c-3-trimethylcyclohexane | C9H18 | 0.000078 | 0.000424 |
| r-1,t-2,t-4-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| trans,trans-1,2,4-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| Unidentified C9 | C9 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000903** | **0.004976** |

| C10 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,2,3,4-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2,3,5-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2,4,5-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2-dimethyl-3-ethylbenzene | C10H14 | *0.000000* | *0.000000* |

| | | | |
|---|---|---|---|
| 1,2-dimethyl-4-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,3-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,3-dimethyl-2-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,4-diethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,4-dimethyl-2-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-2-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-2-propylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-3-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-4-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 2-methylnonane | C10H22 | *0.000000* | *0.000000* |
| 3-ethyloctane | C10H22 | *0.000000* | *0.000000* |
| 3-methylnonane | C10H22 | *0.000000* | *0.000000* |
| 4-methylnonane | C10H22 | *0.000000* | *0.000000* |
| butylbenzene | C10H14 | *0.000000* | *0.000000* |
| butylcyclohexane | C10H20 | *0.000000* | *0.000000* |
| isobutylbenzene | C10H14 | *0.000000* | *0.000000* |
| naphthalene | C10H8 | *0.000000* | *0.000000* |
| n-decane | C10H22 | *0.000000* | *0.000000* |
| sec-butylbenzene | C10H14 | *0.000000* | *0.000000* |
| tert-butylcyclohexane | C10H20 | *0.000000* | *0.000000* |
| Unidentified C10 | C10 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

| C11 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-undecane | C11H24 | *0.000000* | *0.000000* |
| pentylbenzene | C11H16 | *0.000000* | *0.000000* |
| Unidentified C11 | C11 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

| C12 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-dodecane | C12H26 | *0.000000* | *0.000000* |
| Unidentified C12 | C12 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

| C13 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-tridecane | C13H28 | 0.000047 | 0.000373 |
| Unidentified C13 | C13 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000047** | **0.000373** |

| C14 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-tetradecane | C14H30 | 0.000042 | 0.000359 |

| | | | |
|---|---|---|---|
| Unidentified C14 | C14 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000042** | **0.000359** |

| C15+ GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-pentadecane | C15H32 | *0.000000* | *0.000000* |
| Unidentified C15 | C15 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000000** | **0.000000** |

**Pantechs Laboratories, Inc. - Order: 632-3913 - Order Date: 11/16/2022**
**Order Description: Red Hills Processing Complex, Plant Inlets, Dehy Inlets, Amine Inlet/Wastes, Glycol Waste Streams**

| SAMPLE ID | | COLLECTION DATA | |
|---|---|---|---|
| **Operator** | Targa Resources Inc | **Pressure** | 989 psig |
| **Location** | Red Hills Processing Complex | **Sample Temp** | N/A |
| **Site** | AGI Plant | **Atm Temp** | 40 F |
| **Site Type** | Plant | **Collection Date** | 11/16/2022 |
| **Sample Point** | Amine Inlet | **Collection Time** | 11:47 AM |
| **Spot/Comp** | Spot | **Collection By** | Cody Carson |
| **Meter ID** | | **Pressure Base** | 14.730 psi |
| **Purchaser** | | **Temperature Base** | 60 F |
| **Fluid** | Gas | **Container(s)** | PL0535 |

## Onsite Testing by Stain Tube

| METHOD | TYPE | MEAS VALUE | MOL% | GRAINS/100 | PPMV |
|---|---|---|---|---|---|
| GPA2377 | H2S | 0.48 vol% | 0.5073 | 322.16 | 5,122.3 |

*Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.*

## GPA 2286 Gas Extended Fractional Analysis

| COMPOUND | FORMULA | MOL% | WT% | GPM |
|---|---|---|---|---|
| **HELIUM** | He | 0.0163 | 0.0030 | 0.0017 |
| **NITROGEN** | N2 | 1.7564 | 2.2295 | 0.1925 |
| **CARBON DIOXIDE** | CO2 | 5.3464 | 10.6618 | 0.9090 |
| ***OXYGEN+ARGON** | O2+Ar | 0.0113 | 0.0164 | 0.0010 |
| **HYDROGEN SULFIDE** | H2S | 0.5073 | 0.7834 | 0.0683 |
| **METHANE** | C1 | 74.9394 | 54.4759 | 12.6562 |
| **ETHANE** | C2 | 9.4940 | 12.9357 | 2.5294 |
| **PROPANE** | C3 | 4.5706 | 9.1325 | 1.2544 |
| **I-BUTANE** | iC4 | 0.7855 | 2.0688 | 0.2561 |
| **N-BUTANE** | nC4 | 1.5005 | 3.9518 | 0.4713 |
| **I-PENTANE** | iC5 | 0.4378 | 1.4313 | 0.1595 |
| **N-PENTANE** | nC5 | 0.3253 | 1.0635 | 0.1175 |
| **NEO-PENTANE** | neC5 | 0.0130 | 0.0425 | 0.0050 |
| **HEXANES PLUS** | C6+ | 0.2962 | 1.2039 | 0.1200 |
| **TOTALS:** | | **100.0000** | **100.0000** | **18.7417** |

*Value of "0.0000" interpreted as below detectable limit. Onsite H2S value is used in fractional if performed.*
***Oxygen+Argon:** Compounds elute as single peak; additional testing required to distinguish each.*

| LIQUID YIELD | C2+ | C3+ | C4+ | C5+ | 26# Liquid | 10# Liquid |
|---|---|---|---|---|---|---|
| **GAL/MSCF** | 4.9131 | 2.3837 | 1.1293 | 0.3970 | 0.5788 | |
| **CALC PROP** | **BTU/CF** | **Specific Gr.** | **Z Factor** | **Mol Weight** | **LB/SCF** | **Wobbe IDX** |
| **DRY** | 1,170.0 | 0.7644 | 0.9964 | 22.70 | 0.0601 | 1,338.2 |
| **WATER SAT.** | 1,150.9 | 0.7622 | 0.9961 | 22.31 | 0.0591 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **C6+ ONLY** | 4,862.9 | 3.0970 | | 89.70 | | |

## Hexanes Plus Detail - Red Hills Processing Complex:AGI Plant:Amine Inlet:11/16/2022

| C6 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 2,2-dimethylbutane | C6H14 | 0.005850 | 0.022843 |
| 2,3-dimethylbutane+cyclopentane | C6H14 | 0.016850 | 0.065797 |
| 2-methylpentane | C6H14 | 0.067623 | 0.264058 |
| 3-methylpentane | C6H14 | 0.035812 | 0.139841 |
| benzene | C6H6 | 0.008943 | 0.031654 |
| cyclohexane | C6H12 | 0.019650 | 0.074936 |
| methylcyclopentane | C6H12 | 0.024430 | 0.093164 |
| n-hexane | C6H14 | 0.055963 | 0.218528 |
| **TOTALS:** | | **0.235121** | **0.910821** |

| C7 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,1-dimethylcyclopentane+3-methylhexane | C7H16 | 0.007525 | 0.034167 |
| 2,2-dimethylpentane | C7H16 | 0.000632 | 0.002870 |
| 2,3-dimethylpentane | C7H16 | 0.001930 | 0.008763 |
| 2,4-dimethylhexane+ethylcyclopentane | C7H14 | 0.000775 | 0.003448 |
| 2,4-dimethylpentane | C7H16 | 0.000113 | 0.000513 |
| 2-methylhexane | C7H16 | 0.005837 | 0.026503 |
| 3,3-dimethylpentane | C7H16 | 0.000459 | 0.002084 |
| cis-1,3-dimethylcyclopentane+3-Ethylpentane | C7H14 | 0.002224 | 0.009895 |
| cycloheptane | C7H14 | *0.000000* | *0.000000* |
| methylcyclohexane+2,2-dimethylhexane+2,2,4-trimethylpentane | C7H14 | 0.009432 | 0.041964 |
| n-heptane | C7H16 | 0.008229 | 0.037363 |
| toluene | C7H8 | 0.005835 | 0.024361 |
| trans-1,2-dimethylcyclopentane+cis-1,2-Dimethylcyclopentane | C7H14 | 0.000480 | 0.002136 |
| trans-1,3-dimethylcyclopentane | C7H14 | 0.001742 | 0.007750 |
| **TOTALS:** | | **0.045213** | **0.201817** |

| C8 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1-ethyl-1-methylcyclopentane | C8H16 | 0.000218 | 0.001108 |
| 2,2,3-trimethylpentane | C8H18 | 0.000448 | 0.002319 |
| 2,3,4-trimethylpentane | C8H18 | 0.000293 | 0.001517 |
| 2,3,4-trimethylpentane | C8H18 | 0.000293 | 0.001517 |
| 2,5-dimethylhexane | C8H18 | *0.000000* | *0.000000* |
| 2-methylheptane+4-methylheptane | C8H18 | 0.001871 | 0.009684 |
| 3,3-dimethylhexane | C8H18 | 0.000267 | 0.001382 |
| 3-methylheptane | C8H18 | 0.000485 | 0.002510 |
| cis-1,2-dimethylcyclohexane | C8H16 | 0.000720 | 0.003661 |
| cis-1,3-dimethylcyclohexane | C8H16 | 0.000205 | 0.001042 |

| | | | |
|---|---|---|---|
| cyclooctane | C8H16 | 0.000112 | 0.000569 |
| ethylbenzene | C8H10 | 0.000609 | 0.002930 |
| ethylcyclohexane | C8H16 | 0.000354 | 0.001800 |
| m-xylene+p-xylene | C8H10 | 0.000680 | 0.003271 |
| n-octane | C8H18 | 0.001248 | 0.006460 |
| o-xylene | C8H10 | 0.000220 | 0.001058 |
| trans-1,3-dimethylcyclohexane | C8H16 | 0.000134 | 0.000681 |
| **TOTALS:** | | **0.008157** | **0.041509** |

| C9 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,1,2-trimethylcyclohexane | C9H18 | 0.000039 | 0.000223 |
| 1,2,3-trimethylbenzene | C9H12 | 0.000267 | 0.001454 |
| 1,2,4-trimethylbenzene+tert-butylbenzene | C9H12 | 0.000362 | 0.001972 |
| 1,3,5-trimethylbenzene | C9H12 | 0.000106 | 0.000577 |
| 2,2,3-trimethylhexane | C9H20 | 0.000054 | 0.000314 |
| 2,2,4-trimethylhexane | C9H20 | 0.000201 | 0.001168 |
| 2,2-dimethylheptane | C9H20 | 0.000064 | 0.000372 |
| 2,3,4-trimethylhexane | C9H20 | 0.000130 | 0.000756 |
| 2,4,4-trimethylhexane | C9H20 | *0.000000* | *0.000000* |
| 2,5-dimethylheptane | C9H20 | 0.000270 | 0.001569 |
| 2-methyloctane | C9H20 | 0.000017 | 0.000099 |
| 3,4-dimethylheptane | C9H20 | 0.000039 | 0.000227 |
| cis,cis-1,2,3-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| isopropylbenzene+1,1,3-trimethylcyclopentane | C9H12 | 0.000099 | 0.000539 |
| methylcyclooctane | C9H18 | 0.000032 | 0.000183 |
| m-ethyltoluene+p-ethyltoluene | C9H12 | 0.000169 | 0.000920 |
| n-nonane | C9H20 | 0.000289 | 0.001680 |
| propylbenzene | C9H12 | 0.000252 | 0.001372 |
| propylcyclohexane | C9H18 | 0.000142 | 0.000812 |
| r-1,t-2,c-3-trimethylcyclohexane | C9H18 | 0.000111 | 0.000635 |
| r-1,t-2,t-4-trimethylcyclohexane | C9H18 | 0.000028 | 0.000160 |
| trans,trans-1,2,4-trimethylcyclohexane | C9H18 | *0.000000* | *0.000000* |
| Unidentified C9 | C9 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.002671** | **0.015032** |

| C10 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| 1,2,3,4-tetramethylbenzene | C10H14 | 0.000087 | 0.000529 |
| 1,2,3,5-tetramethylbenzene | C10H14 | 0.000167 | 0.001016 |
| 1,2,4,5-tetramethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,2-diethylbenzene | C10H14 | 0.000094 | 0.000572 |
| 1,2-dimethyl-3-ethylbenzene | C10H14 | 0.000096 | 0.000584 |

| | | | |
|---|---|---|---|
| 1,2-dimethyl-4-ethylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1,3-diethylbenzene | C10H14 | 0.000104 | 0.000633 |
| 1,3-dimethyl-2-ethylbenzene | C10H14 | 0.000062 | 0.000377 |
| 1,4-diethylbenzene | C10H14 | 0.000109 | 0.000663 |
| 1,4-dimethyl-2-ethylbenzene | C10H14 | 0.000106 | 0.000645 |
| 1-methyl-2-isopropylbenzene | C10H14 | 0.000068 | 0.000414 |
| 1-methyl-2-propylbenzene | C10H14 | 0.000075 | 0.000456 |
| 1-methyl-3-isopropylbenzene | C10H14 | *0.000000* | *0.000000* |
| 1-methyl-4-isopropylbenzene | C10H14 | 0.000164 | 0.000997 |
| 2-methylnonane | C10H22 | 0.000156 | 0.001006 |
| 3-ethyloctane | C10H22 | 0.000149 | 0.000961 |
| 3-methylnonane | C10H22 | 0.000059 | 0.000380 |
| 4-methylnonane | C10H22 | 0.000095 | 0.000612 |
| butylbenzene | C10H14 | 0.000220 | 0.001338 |
| butylcyclohexane | C10H20 | 0.000099 | 0.000629 |
| isobutylbenzene | C10H14 | 0.000042 | 0.000255 |
| naphthalene | C10H8 | 0.000064 | 0.000372 |
| n-decane | C10H22 | 0.000448 | 0.002888 |
| sec-butylbenzene | C10H14 | 0.000044 | 0.000268 |
| tert-butylcyclohexane | C10H20 | 0.000036 | 0.000229 |
| Unidentified C10 | C10 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.002544** | **0.015824** |

| C11 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-undecane | C11H24 | 0.000686 | 0.004859 |
| pentylbenzene | C11H16 | 0.000116 | 0.000779 |
| Unidentified C11 | C11 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000802** | **0.005638** |

| C12 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-dodecane | C12H26 | 0.000314 | 0.002424 |
| Unidentified C12 | C12 | 0.001075 | 0.008297 |
| **TOTALS:** | | **0.001389** | **0.010721** |

| C13 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-tridecane | C13H28 | 0.000149 | 0.001245 |
| Unidentified C13 | C13 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000149** | **0.001245** |

| C14 GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-tetradecane | C14H30 | 0.000102 | 0.000917 |

| | | | |
|---|---|---|---|
| Unidentified C14 | C14 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000102** | **0.000917** |

| C15+ GROUP | FORMULA | MOL% | WT% |
|---|---|---|---|
| n-pentadecane | C15H32 | 0.000037 | 0.000356 |
| Unidentified C15 | C15 | *0.000000* | *0.000000* |
| **TOTALS:** | | **0.000037** | **0.000356** |

# Certificate of Analysis

Number: 6030-23050214-001A

**Artesia Laboratory**
200 E Main St.
Artesia, NM 88210
Phone 575-746-3481

Ray Glidewell
Targa Resources
1 Mile North NM Hwy 248
Eunice, NM 88231

May 15, 2023

Station Name: Red Hills Plant
Station Location: Targa
Method: GPA 2186
Analyzed: 05/15/2023 14:36:33 by EBH

Sampled By: CW
Sample Of: Condensate Spot
Sample Date: 05/12/2023
Sample Conditions: 109.4 °F
PO/Ref. No: TAR224266

## Analytical Data

| Components | Mol. % | Wt. % | L.V. % |
|---|---|---|---|
| Hydrogen Sulfide | 0.000 | 0.000 | 0.000 |
| Nitrogen | 0.074 | 0.023 | 0.020 |
| Methane | 0.000 | 0.000 | 0.000 |
| Carbon Dioxide | 0.000 | 0.000 | 0.000 |
| Ethane | 0.011 | 0.004 | 0.007 |
| Propane | 0.228 | 0.110 | 0.154 |
| Iso-Butane | 0.203 | 0.129 | 0.163 |
| n-Butane | 1.376 | 0.877 | 1.064 |
| Iso-Pentane | 5.891 | 4.660 | 5.283 |
| n-Pentane | 10.484 | 8.293 | 9.318 |
| Hexanes Plus | 81.733 | 85.904 | 83.991 |
| | 100.000 | 100.000 | 100.000 |

| Calculated Physical Properties | Total | C6+ |
|---|---|---|
| Specific Gravity at 60°F | 0.7087 | 0.7248 |
| API Gravity at 60°F | 68.1623 | 63.7155 |
| Molecular Weight | 91.210 | 95.865 |
| Pounds per Gallon (in Vacuum) | 5.908 | 6.043 |
| Pounds per Gallon (in Air) | 5.902 | 6.036 |
| Cu. Ft. Vapor per Gallon @ 14.73 psia | 24.526 | 23.866 |
| Specific Gravity as a vapor | 3.149 | 3.310 |
| Calculated Vapor Pressure, psia @ 100°F | 6.80 | 3.20 |
| BTU / GAL. (as a vapor) | 120948 | 123121 |
| BTU / LB. (as a vapor) | 20468 | 20372 |
| BTU / Cu. Ft. @ 14.73 psia DRY | 4931 | 5159 |
| CO2, Ethane LV Ratio | 0 | |

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

Powered By SURECHEM

# Certificate of Analysis

Number: 6030-23050214-001A

**Artesia Laboratory**
200 E Main St.
Artesia, NM 88210
Phone 575-746-3481

Ray Glidewell
Targa Resources
1 Mile North NM Hwy 248
Eunice, NM 88231

May 15, 2023

Station Name: Red Hills Plant
Station Location: Targa
Method: GPA 2186
Analyzed: 05/15/2023 14:36:33 by EBH

Sampled By: CW
Sample Of: Condensate Spot
Sample Date: 05/12/2023
Sample Conditions: 109.4 °F
PO/Ref. No: TAR224266

## Analytical Data

| Components | Mol. % | Wt. % | L.V. % |
|---|---|---|---|
| Hydrogen Sulfide | NIL | NIL | NIL |
| Nitrogen | 0.074 | 0.023 | 0.020 |
| Methane | NIL | NIL | NIL |
| Carbon Dioxide | NIL | NIL | NIL |
| Ethane | 0.011 | 0.004 | 0.007 |
| Propane | 0.228 | 0.110 | 0.154 |
| Iso-Butane | 0.203 | 0.129 | 0.163 |
| n-Butane | 1.376 | 0.877 | 1.064 |
| Iso-Pentane | 5.891 | 4.660 | 5.283 |
| n-Pentane | 10.484 | 8.293 | 9.318 |
| Hexanes | 25.289 | 23.698 | 25.237 |
| Heptanes Plus | 56.444 | 62.206 | 58.754 |
| | 100.000 | 100.000 | 100.000 |

| Calculated Physical Properties | Total | C7+ |
|---|---|---|
| Specific Gravity at 60°F | 0.7087 | 0.7502 |
| API Gravity at 60°F | 68.1623 | 57.1085 |
| Molecular Weight | 91.210 | 100.521 |
| Pounds per Gallon (in Vacuum) | 5.908 | 6.255 |
| Pounds per Gallon (in Air) | 5.902 | 6.248 |
| Cu. Ft. Vapor per Gallon @ 14.73 psia | 24.526 | 23.558 |
| BTU / GAL. (as a vapor) | 120948 | 126162 |
| BTU / LB. (as a vapor) | 20468 | 20171 |
| BTU / Cu. Ft. @ 14.73 psia DRY | 4931 | 5355 |

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

**Artesia Laboratory**
200 E Main St.
Artesia, NM 88210
Phone 575-746-3481

# Certificate of Analysis

Number: 6030-23050214-001A

May 15, 2023

Ray Glidewell
Targa Resources
1 Mile North NM Hwy 248
Eunice, NM 88231

| | | | |
|---|---|---|---|
| Station Name: | Red Hills Plant | Sampled By: | CW |
| Station Location: | Targa | Sample Of: | Condensate Spot |
| Method: | GPA 2186 | Sample Date: | 05/12/2023 |
| Analyzed: | 05/15/2023 14:36:33 by EBH | Sample Conditions: | 109.4 °F |
| | | PO/Ref. No: | TAR224266 |

## Analytical Data

| Components | Mol. % | Wt. % | L.V. % |
|---|---|---|---|
| Nitrogen | 0.074 | 0.023 | 0.020 |
| Methane | NIL | NIL | NIL |
| Carbon Dioxide | NIL | NIL | NIL |
| Ethane | 0.011 | 0.004 | 0.007 |
| Propane | 0.228 | 0.110 | 0.154 |
| Iso-Butane | 0.203 | 0.129 | 0.163 |
| n-Butane | 1.376 | 0.877 | 1.064 |
| Iso-Pentane | 5.891 | 4.660 | 5.283 |
| n-Pentane | 10.484 | 8.293 | 9.318 |
| i-Hexanes | 14.171 | 13.196 | 14.023 |
| n-Hexane | 11.118 | 10.502 | 11.214 |
| Benzene | 2.186 | 1.873 | 1.503 |
| Cyclohexane | 6.648 | 6.134 | 5.549 |
| i-Heptanes | 15.613 | 16.218 | 15.938 |
| n-Heptane | 5.516 | 6.060 | 6.240 |
| Toluene | 3.449 | 3.484 | 2.833 |
| i-Octanes | 13.978 | 16.270 | 15.480 |
| n-Octane | 1.523 | 1.907 | 1.914 |
| Ethylbenzene | 0.409 | 0.476 | 0.386 |
| Xylenes | 1.529 | 1.780 | 1.447 |
| i-Nonanes | 3.179 | 4.228 | 3.956 |
| n-Nonane | 0.710 | 0.999 | 0.980 |
| i-Decanes | 0.634 | 0.883 | 0.740 |
| Decanes Plus | 1.070 | 1.894 | 1.788 |
| | 100.000 | 100.000 | 100.000 |

| Calculated Physical Properties | Total | C10+ |
|---|---|---|
| API Gravity at 60°F | 68.1623 | 50.9935 |
| Pounds per Gallon (in Air) | 5.902 | 6.457 |
| Pounds per Gallon (in Vacuum) | 5.908 | 6.464 |
| Cu. Ft. Vapor per Gallon @ 14.73 psia | 24.526 | 16.467 |
| Specific Gravity at 60°F | 0.7087 | 0.7754 |
| Molecular Weight | 91.210 | 148.627 |
| BTU / GAL. (as a vapor) | 120948 | 130430 |
| BTU / LB. (as a vapor) | 20468 | 20180 |



Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

# Certificate of Analysis

Number: 6030-23050214-001A

**Artesia Laboratory**
200 E Main St.
Artesia, NM 88210
Phone 575-746-3481

Ray Glidewell
Targa Resources
1 Mile North NM Hwy 248
Eunice, NM 88231

May 15, 2023

Station Name: Red Hills Plant
Station Location: Targa
PO/Ref. No: TAR224266

Sampled By: CW
Sample Of: Condensate Spot
Sample Date: 05/12/2023
Sample Conditions: 109.4 °F

## Analytical Data

| Test | Method | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|---|---|---|---|---|---|---|
| VP of Crude Oil: V/L = 4:1 @ 37.8 °F | ASTM D-6377 | 7.89 | psi | | EBH | 05/15/2023 |
| RVPE (D323 Equivalent) @ 3.2 °C | ASTM D-6377 | 7.22 | psi | | EBH | 05/15/2023 |

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

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CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 18, 2024

DANIEL JETT

Laboratory Services, Inc.

2609 W. Marland

Hobbs, NM 88240

RE: RED HILLS PLANT

Enclosed are the results of analyses for samples received by the laboratory on 09/06/24 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Total Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

| | |
|---|---|
| Method SM 9223-B | Total Coliform and E. coli (Colilert MMO-MUG) |
| Method EPA 524.2 | Regulated VOCs and Total Trihalomethanes (TTHM) |
| Method EPA 552.2 | Total Haloacetic Acids (HAA-5) |

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## *Analytical Results For:*

| | | |
|---|---|---|
| Laboratory Services, Inc.<br>2609 W. Marland<br>Hobbs NM, 88240 | Project: RED HILLS PLANT<br>Project Number: NONE GIVEN<br>Project Manager: DANIEL JETT<br>Fax To: (505) 397-3713 | Reported:<br>18-Sep-24 11:37 |

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| 230 BAT, | H245414-01 | Wastewater | 06-Sep-24 13:10 | 06-Sep-24 14:50 |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## *Analytical Results For:*

| | | |
|---|---|---|
| Laboratory Services, Inc.<br>2609 W. Marland<br>Hobbs NM, 88240 | Project: RED HILLS PLANT<br>Project Number: NONE GIVEN<br>Project Manager: DANIEL JETT<br>Fax To: (505) 397-3713 | Reported:<br>18-Sep-24 11:37 |

**230 BAT,**

**H245414-01 (Wastewater)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Cardinal Laboratories** | | | | | | | | | | |
| **VOLATILES BY GC/MS** | | | | | | | | | | |
| Dichlorodifluoromethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Chloromethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Vinyl chloride* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Bromomethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Chloroethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Trichlorofluoromethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,1-Dichloroethene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Carbon disulfide* | <25.0 | | 25.0 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Iodomethane | <5.00 | | 5.00 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Acrolein* | <25.0 | | 25.0 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Methylene chloride* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Acetone* | <50.0 | | 50.0 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| trans-1,2-Dichloroethene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Methyl tert-butyl ether | <5.00 | | 5.00 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,1-Dichloroethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Acrylonitrile* | <10.0 | | 10.0 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Vinyl acetate* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| cis-1,2-Dichloroethene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 2,2-Dichloropropane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Bromochloromethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Chloroform* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Carbon tetrachloride* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,1,1-Trichloroethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,1-Dichloropropene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 2-Butanone* | <10.0 | | 10.0 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| **Benzene*** | **5980** | | 50.0 | mg/L | 100000 | 4091116 | MS | 17-Sep-24 | 8260B | |
| 1,2-Dichloroethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Trichloroethene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## *Analytical Results For:*

| | | |
|---|---|---|
| Laboratory Services, Inc.<br>2609 W. Marland<br>Hobbs NM, 88240 | Project: RED HILLS PLANT<br>Project Number: NONE GIVEN<br>Project Manager: DANIEL JETT<br>Fax To: (505) 397-3713 | Reported:<br>18-Sep-24 11:37 |

### 230 BAT,

**H245414-01 (Wastewater)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Cardinal Laboratories** | | | | | | | | | | |
| **VOLATILES BY GC/MS** | | | | | | | | | | |
| Dibromomethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,2-Dichloropropane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Bromodichloromethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| cis-1,3-Dichloropropene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| **Toluene*** | **8160** | | 50.0 | mg/L | 100000 | 4091116 | MS | 17-Sep-24 | 8260B | |
| 4-Methyl-2-pentanone* | <5.00 | | 5.00 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Tetrachloroethene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| trans-1,3-Dichloropropene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,1,2-Trichloroethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Dibromochloromethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,3-Dichloropropane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,2-Dibromoethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 2-Hexanone* | <5.00 | | 5.00 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Chlorobenzene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| **Ethylbenzene*** | **453** | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,1,1,2-Tetrachloroethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| **m+p - Xylene*** | **1650** | | 100 | mg/L | 100000 | 4091116 | MS | 17-Sep-24 | 8260B | |
| **o-Xylene*** | **461** | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| **Total Xylenes*** | **2110** | | 100 | mg/L | 100000 | 4091116 | MS | 17-Sep-24 | 8260B | |
| Bromoform* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Styrene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| **Isopropylbenzene*** | **38.3** | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Bromobenzene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| **n-Propylbenzene*** | **49.4** | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,1,2,2-Tetrachloroethane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 2-Chlorotoluene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1.2.3-trichloropropane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| **1,3,5-Trimethylbenzene*** | **56.8** | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| trans-1,4-Dichloro-2-butene | <50.0 | | 50.0 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## *Analytical Results For:*

| | | |
|---|---|---|
| Laboratory Services, Inc.<br>2609 W. Marland<br>Hobbs NM, 88240 | Project: RED HILLS PLANT<br>Project Number: NONE GIVEN<br>Project Manager: DANIEL JETT<br>Fax To: (505) 397-3713 | Reported:<br>18-Sep-24 11:37 |

### 230 BAT,

**H245414-01 (Wastewater)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Cardinal Laboratories** | | | | | | | | | | |
| **VOLATILES BY GC/MS** | | | | | | | | | | |
| 4-Chlorotoluene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| tert-Butylbenzene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| **1,2,4-Trimethylbenzene*** | **128** | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| **sec-Butylbenzene*** | **7.98** | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| **p-Isopropyltoluene*** | **7.32** | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,3-Dichlorobenzene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,4-Dichlorobenzene | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| **n-Butylbenzene*** | **4.84** | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,2-Dichlorobenzene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,2-Dibromo-3-chloropropane* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Hexachlorobutadiene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,2,4-Trichlorobenzene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| Naphthalene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,2,3-Trichlorobenzene* | <2.50 | | 2.50 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| 1,4-Dioxane | <50.0 | | 50.0 | mg/L | 5000 | 4091116 | MS | 16-Sep-24 | 8260B | |
| *Surrogate: Dibromofluoromethane* | | | *110 %* | *82.4-141* | | *4091116* | MS | *16-Sep-24* | *8260B* | |
| *Surrogate: Toluene-d8* | | | *98.4 %* | *87.1-110* | | *4091116* | MS | *16-Sep-24* | *8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | | *101 %* | *76.4-114* | | *4091116* | MS | *16-Sep-24* | *8260B* | |

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## *Analytical Results For:*

| Laboratory Services, Inc.<br>2609 W. Marland<br>Hobbs NM, 88240 | Project: RED HILLS PLANT<br>Project Number: NONE GIVEN<br>Project Manager: DANIEL JETT<br>Fax To: (505) 397-3713 | Reported:<br>18-Sep-24 11:37 |
|---|---|---|

### VOLATILES BY GC/MS - Quality Control

### Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 4091116 - Volatiles** | | | | | | | | | | |
| **Blank (4091116-BLK1)** | | | | Prepared: 11-Sep-24 Analyzed: 16-Sep-24 | | | | | | |
| Dichlorodifluoromethane | ND | 0.0005 | mg/L | | | | | | | |
| Chloromethane | ND | 0.0005 | mg/L | | | | | | | |
| Vinyl chloride | ND | 0.0005 | mg/L | | | | | | | |
| Bromomethane | ND | 0.0005 | mg/L | | | | | | | |
| Chloroethane | ND | 0.0005 | mg/L | | | | | | | |
| Trichlorofluoromethane | ND | 0.0005 | mg/L | | | | | | | |
| 1,1-Dichloroethene | ND | 0.0005 | mg/L | | | | | | | |
| Carbon disulfide | 0.004 | 0.001 | mg/L | | | | | | | |
| Iodomethane | ND | 0.001 | mg/L | | | | | | | |
| Acrolein | ND | 0.005 | mg/L | | | | | | | |
| Methylene chloride | ND | 0.0005 | mg/L | | | | | | | |
| Acetone | ND | 0.010 | mg/L | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.0005 | mg/L | | | | | | | |
| Methyl tert-butyl ether | ND | 0.001 | mg/L | | | | | | | |
| 1,1-Dichloroethane | ND | 0.0005 | mg/L | | | | | | | |
| Acrylonitrile | ND | 0.002 | mg/L | | | | | | | |
| Vinyl acetate | ND | 0.0005 | mg/L | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.0005 | mg/L | | | | | | | |
| 2,2-Dichloropropane | ND | 0.0005 | mg/L | | | | | | | |
| Bromochloromethane | ND | 0.0005 | mg/L | | | | | | | |
| Chloroform | ND | 0.0005 | mg/L | | | | | | | |
| Carbon tetrachloride | ND | 0.0005 | mg/L | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.0005 | mg/L | | | | | | | |
| 1,1-Dichloropropene | ND | 0.0005 | mg/L | | | | | | | |
| 2-Butanone | ND | 0.002 | mg/L | | | | | | | |
| Benzene | ND | 0.0005 | mg/L | | | | | | | |
| 1,2-Dichloroethane | ND | 0.0005 | mg/L | | | | | | | |
| Trichloroethene | ND | 0.0005 | mg/L | | | | | | | |
| Dibromomethane | ND | 0.0005 | mg/L | | | | | | | |
| 1,2-Dichloropropane | ND | 0.0005 | mg/L | | | | | | | |
| Bromodichloromethane | ND | 0.0005 | mg/L | | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## *Analytical Results For:*

| | | |
|---|---|---|
| Laboratory Services, Inc.<br>2609 W. Marland<br>Hobbs NM, 88240 | Project: RED HILLS PLANT<br>Project Number: NONE GIVEN<br>Project Manager: DANIEL JETT<br>Fax To: (505) 397-3713 | Reported:<br>18-Sep-24 11:37 |

### VOLATILES BY GC/MS - Quality Control

### Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 4091116 - Volatiles** | | | | | | | | | | |
| **Blank (4091116-BLK1)** | | | | Prepared: 11-Sep-24 Analyzed: 16-Sep-24 | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.0005 | mg/L | | | | | | | |
| Toluene | ND | 0.0005 | mg/L | | | | | | | |
| 4-Methyl-2-pentanone | ND | 0.001 | mg/L | | | | | | | |
| Tetrachloroethene | ND | 0.0005 | mg/L | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.0005 | mg/L | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.0005 | mg/L | | | | | | | |
| Dibromochloromethane | ND | 0.0005 | mg/L | | | | | | | |
| 1,3-Dichloropropane | ND | 0.0005 | mg/L | | | | | | | |
| 1,2-Dibromoethane | ND | 0.0005 | mg/L | | | | | | | |
| 2-Hexanone | ND | 0.001 | mg/L | | | | | | | |
| Chlorobenzene | ND | 0.0005 | mg/L | | | | | | | |
| Ethylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0005 | mg/L | | | | | | | |
| m+p - Xylene | ND | 0.001 | mg/L | | | | | | | |
| o-Xylene | ND | 0.0005 | mg/L | | | | | | | |
| Total Xylenes | ND | 0.001 | mg/L | | | | | | | |
| Bromoform | ND | 0.0005 | mg/L | | | | | | | |
| Styrene | ND | 0.0005 | mg/L | | | | | | | |
| Isopropylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| Bromobenzene | ND | 0.0005 | mg/L | | | | | | | |
| n-Propylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0005 | mg/L | | | | | | | |
| 2-Chlorotoluene | ND | 0.0005 | mg/L | | | | | | | |
| 1.2.3-trichloropropane | ND | 0.0005 | mg/L | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 0.010 | mg/L | | | | | | | |
| 4-Chlorotoluene | ND | 0.0005 | mg/L | | | | | | | |
| tert-Butylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| sec-Butylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| p-Isopropyltoluene | ND | 0.0005 | mg/L | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.0005 | mg/L | | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## *Analytical Results For:*

| | | |
|---|---|---|
| Laboratory Services, Inc.<br>2609 W. Marland<br>Hobbs NM, 88240 | Project: RED HILLS PLANT<br>Project Number: NONE GIVEN<br>Project Manager: DANIEL JETT<br>Fax To: (505) 397-3713 | Reported:<br>18-Sep-24 11:37 |

### VOLATILES BY GC/MS - Quality Control

### Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 4091116 - Volatiles** | | | | | | | | | | |
| **Blank (4091116-BLK1)** | | | | Prepared: 11-Sep-24 Analyzed: 16-Sep-24 | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.0005 | mg/L | | | | | | | |
| n-Butylbenzene | ND | 0.0005 | mg/L | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.0005 | mg/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.0005 | mg/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.0005 | mg/L | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.0005 | mg/L | | | | | | | |
| Naphthalene | ND | 0.0005 | mg/L | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.0005 | mg/L | | | | | | | |
| 1,4-Dioxane | ND | 0.010 | mg/L | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *0.0567* | | mg/L | *0.0500* | | *113* | *82.4-141* | | | |
| *Surrogate: Toluene-d8* | *0.0493* | | mg/L | *0.0500* | | *98.7* | *87.1-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *0.0481* | | mg/L | *0.0500* | | *96.1* | *76.4-114* | | | |
| **LCS (4091116-BS1)** | | | | Prepared: 11-Sep-24 Analyzed: 16-Sep-24 | | | | | | |
| Dichlorodifluoromethane | 0.022 | 0.0005 | mg/L | 0.0200 | | 109 | 38.7-147 | | | |
| Chloromethane | 0.026 | 0.0005 | mg/L | 0.0200 | | 132 | 54.2-142 | | | |
| Vinyl chloride | 0.025 | 0.0005 | mg/L | 0.0200 | | 126 | 61.6-133 | | | |
| Bromomethane | 0.026 | 0.0005 | mg/L | 0.0200 | | 130 | 55.1-143 | | | |
| Chloroethane | 0.025 | 0.0005 | mg/L | 0.0200 | | 127 | 36.9-159 | | | |
| Trichlorofluoromethane | 0.027 | 0.0005 | mg/L | 0.0200 | | 136 | 28.6-162 | | | |
| 1,1-Dichloroethene | 0.025 | 0.0005 | mg/L | 0.0200 | | 123 | 53.9-149 | | | |
| Carbon disulfide | 0.049 | 0.001 | mg/L | 0.0400 | | 124 | 53.6-147 | | | |
| Iodomethane | 0.044 | 0.001 | mg/L | 0.0400 | | 110 | 63.5-135 | | | |
| Acrolein | 0.225 | 0.005 | mg/L | 0.200 | | 113 | 26.6-161 | | | |
| Methylene chloride | 0.016 | 0.0005 | mg/L | 0.0200 | | 80.4 | 49.3-163 | | | |
| Acetone | 0.042 | 0.010 | mg/L | 0.0400 | | 105 | 39.1-168 | | | |
| trans-1,2-Dichloroethene | 0.025 | 0.0005 | mg/L | 0.0200 | | 124 | 65.2-133 | | | |
| Methyl tert-butyl ether | 0.043 | 0.001 | mg/L | 0.0400 | | 108 | 57.7-137 | | | |
| 1,1-Dichloroethane | 0.025 | 0.0005 | mg/L | 0.0200 | | 123 | 74.8-123 | | | |
| Acrylonitrile | 0.042 | 0.002 | mg/L | 0.0400 | | 104 | 64.9-135 | | | |
| Vinyl acetate | 0.022 | 0.0005 | mg/L | 0.0200 | | 109 | 50.9-135 | | | |
| cis-1,2-Dichloroethene | 0.023 | 0.0005 | mg/L | 0.0200 | | 116 | 73.8-128 | | | |

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## *Analytical Results For:*

| | | |
|---|---|---|
| Laboratory Services, Inc.<br>2609 W. Marland<br>Hobbs NM, 88240 | Project: RED HILLS PLANT<br>Project Number: NONE GIVEN<br>Project Manager: DANIEL JETT<br>Fax To: (505) 397-3713 | Reported:<br>18-Sep-24 11:37 |

### VOLATILES BY GC/MS - Quality Control

### Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 4091116 - Volatiles** | | | | | | | | | | |
| **LCS (4091116-BS1)** | | | | Prepared: 11-Sep-24 Analyzed: 16-Sep-24 | | | | | | |
| 2,2-Dichloropropane | 0.023 | 0.0005 | mg/L | 0.0200 | | 116 | 62.9-136 | | | |
| Bromochloromethane | 0.027 | 0.0005 | mg/L | 0.0200 | | 135 | 70.7-123 | | | BS1 |
| Chloroform | 0.023 | 0.0005 | mg/L | 0.0200 | | 117 | 80.9-119 | | | |
| Carbon tetrachloride | 0.023 | 0.0005 | mg/L | 0.0200 | | 117 | 79.5-125 | | | |
| 1,1,1-Trichloroethane | 0.024 | 0.0005 | mg/L | 0.0200 | | 118 | 80.7-121 | | | |
| 1,1-Dichloropropene | 0.019 | 0.0005 | mg/L | 0.0200 | | 96.0 | 85.9-115 | | | |
| 2-Butanone | 0.035 | 0.002 | mg/L | 0.0400 | | 88.5 | 24.1-159 | | | |
| Benzene | 0.019 | 0.0005 | mg/L | 0.0200 | | 97.0 | 69.4-129 | | | |
| 1,2-Dichloroethane | 0.021 | 0.0005 | mg/L | 0.0200 | | 106 | 72.5-123 | | | |
| Trichloroethene | 0.019 | 0.0005 | mg/L | 0.0200 | | 95.2 | 79.3-114 | | | |
| Dibromomethane | 0.020 | 0.0005 | mg/L | 0.0200 | | 102 | 77-118 | | | |
| 1,2-Dichloropropane | 0.020 | 0.0005 | mg/L | 0.0200 | | 98.8 | 79.4-117 | | | |
| Bromodichloromethane | 0.024 | 0.0005 | mg/L | 0.0200 | | 118 | 80.3-119 | | | |
| cis-1,3-Dichloropropene | 0.018 | 0.0005 | mg/L | 0.0200 | | 89.5 | 82.5-122 | | | |
| Toluene | 0.020 | 0.0005 | mg/L | 0.0200 | | 98.9 | 68.1-127 | | | |
| 4-Methyl-2-pentanone | 0.032 | 0.001 | mg/L | 0.0400 | | 79.2 | 60.7-139 | | | |
| Tetrachloroethene | 0.019 | 0.0005 | mg/L | 0.0200 | | 92.6 | 74.2-128 | | | |
| trans-1,3-Dichloropropene | 0.021 | 0.0005 | mg/L | 0.0200 | | 104 | 84-123 | | | |
| 1,1,2-Trichloroethane | 0.021 | 0.0005 | mg/L | 0.0200 | | 103 | 81.7-118 | | | |
| Dibromochloromethane | 0.020 | 0.0005 | mg/L | 0.0200 | | 101 | 83.1-124 | | | |
| 1,3-Dichloropropane | 0.020 | 0.0005 | mg/L | 0.0200 | | 101 | 82.6-117 | | | |
| 1,2-Dibromoethane | 0.020 | 0.0005 | mg/L | 0.0200 | | 101 | 84.9-116 | | | |
| 2-Hexanone | 0.026 | 0.001 | mg/L | 0.0400 | | 64.4 | 56.3-139 | | | |
| Chlorobenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 105 | 85.1-115 | | | |
| Ethylbenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 106 | 70.2-130 | | | |
| 1,1,1,2-Tetrachloroethane | 0.023 | 0.0005 | mg/L | 0.0200 | | 115 | 82.4-120 | | | |
| m+p - Xylene | 0.045 | 0.001 | mg/L | 0.0400 | | 111 | 71.9-133 | | | |
| Total Xylenes | 0.065 | 0.001 | mg/L | 0.0600 | | 109 | 71.6-132 | | | |
| o-Xylene | 0.021 | 0.0005 | mg/L | 0.0200 | | 105 | 69.4-132 | | | |
| Bromoform | 0.022 | 0.0005 | mg/L | 0.0200 | | 110 | 71.1-141 | | | |
| Styrene | 0.022 | 0.0005 | mg/L | 0.0200 | | 112 | 71.7-128 | | | |
| Isopropylbenzene | 0.022 | 0.0005 | mg/L | 0.0200 | | 112 | 85-124 | | | |

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## *Analytical Results For:*

| | | |
|---|---|---|
| Laboratory Services, Inc.<br>2609 W. Marland<br>Hobbs NM, 88240 | Project: RED HILLS PLANT<br>Project Number: NONE GIVEN<br>Project Manager: DANIEL JETT<br>Fax To: (505) 397-3713 | Reported:<br>18-Sep-24 11:37 |

### VOLATILES BY GC/MS - Quality Control

### Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 4091116 - Volatiles** | | | | | | | | | | |
| **LCS (4091116-BS1)** | | | | Prepared: 11-Sep-24 Analyzed: 16-Sep-24 | | | | | | |
| Bromobenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 102 | 83.5-115 | | | |
| n-Propylbenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 105 | 79.6-124 | | | |
| 1,1,2,2-Tetrachloroethane | 0.019 | 0.0005 | mg/L | 0.0200 | | 95.8 | 76.5-121 | | | |
| 2-Chlorotoluene | 0.022 | 0.0005 | mg/L | 0.0200 | | 108 | 80.2-121 | | | |
| 1.2.3-trichloropropane | 0.020 | 0.0005 | mg/L | 0.0200 | | 101 | 44.7-168 | | | |
| 1,3,5-Trimethylbenzene | 0.022 | 0.0005 | mg/L | 0.0200 | | 112 | 69-137 | | | |
| trans-1,4-Dichloro-2-butene | 0.047 | 0.010 | mg/L | 0.0400 | | 116 | 9.3-235 | | | |
| 4-Chlorotoluene | 0.021 | 0.0005 | mg/L | 0.0200 | | 106 | 82.2-125 | | | |
| tert-Butylbenzene | 0.022 | 0.0005 | mg/L | 0.0200 | | 110 | 78.8-128 | | | |
| 1,2,4-Trimethylbenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 107 | 67.4-138 | | | |
| sec-Butylbenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 106 | 77.6-133 | | | |
| p-Isopropyltoluene | 0.021 | 0.0005 | mg/L | 0.0200 | | 107 | 79.8-131 | | | |
| 1,3-Dichlorobenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 104 | 84.4-120 | | | |
| 1,4-Dichlorobenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 104 | 81.7-118 | | | |
| n-Butylbenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 105 | 75.4-132 | | | |
| 1,2-Dichlorobenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 101 | 82.5-119 | | | |
| 1,2-Dibromo-3-chloropropane | 0.016 | 0.0005 | mg/L | 0.0200 | | 81.4 | 71.7-124 | | | |
| Hexachlorobutadiene | 0.021 | 0.0005 | mg/L | 0.0200 | | 105 | 78.9-148 | | | |
| 1,2,4-Trichlorobenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 99.7 | 72.4-136 | | | |
| Naphthalene | 0.027 | 0.0005 | mg/L | 0.0200 | | 137 | 62.1-141 | | | |
| 1,2,3-Trichlorobenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 107 | 76.1-134 | | | |
| 1,4-Dioxane | 0.275 | 0.010 | mg/L | 0.400 | | 68.8 | -34.6-193 | | | |
| *Surrogate: Dibromofluoromethane* | *0.0548* | | mg/L | *0.0500* | | *110* | *82.4-141* | | | |
| *Surrogate: Toluene-d8* | *0.0497* | | mg/L | *0.0500* | | *99.4* | *87.1-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *0.0531* | | mg/L | *0.0500* | | *106* | *76.4-114* | | | |
| **LCS Dup (4091116-BSD1)** | | | | Prepared: 11-Sep-24 Analyzed: 16-Sep-24 | | | | | | |
| Dichlorodifluoromethane | 0.023 | 0.0005 | mg/L | 0.0200 | | 114 | 38.7-147 | 4.72 | 22.6 | |
| Chloromethane | 0.026 | 0.0005 | mg/L | 0.0200 | | 132 | 54.2-142 | 0.682 | 27 | |
| Vinyl chloride | 0.026 | 0.0005 | mg/L | 0.0200 | | 129 | 61.6-133 | 2.35 | 23 | |
| Bromomethane | 0.025 | 0.0005 | mg/L | 0.0200 | | 126 | 55.1-143 | 2.82 | 21.5 | |
| Chloroethane | 0.025 | 0.0005 | mg/L | 0.0200 | | 126 | 36.9-159 | 0.671 | 24.1 | |

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## *Analytical Results For:*

| | | |
|---|---|---|
| Laboratory Services, Inc.<br>2609 W. Marland<br>Hobbs NM, 88240 | Project: RED HILLS PLANT<br>Project Number: NONE GIVEN<br>Project Manager: DANIEL JETT<br>Fax To: (505) 397-3713 | Reported:<br>18-Sep-24 11:37 |

### VOLATILES BY GC/MS - Quality Control

### Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 4091116 - Volatiles** | | | | | | | | | | |
| **LCS Dup (4091116-BSD1)** | | | | Prepared: 11-Sep-24 Analyzed: 16-Sep-24 | | | | | | |
| Trichlorofluoromethane | 0.027 | 0.0005 | mg/L | 0.0200 | | 136 | 28.6-162 | 0.184 | 19.8 | |
| 1,1-Dichloroethene | 0.025 | 0.0005 | mg/L | 0.0200 | | 125 | 53.9-149 | 0.887 | 16.5 | |
| Carbon disulfide | 0.054 | 0.001 | mg/L | 0.0400 | | 134 | 53.6-147 | 8.53 | 20.3 | |
| Iodomethane | 0.045 | 0.001 | mg/L | 0.0400 | | 112 | 63.5-135 | 1.93 | 24.3 | |
| Acrolein | 0.232 | 0.005 | mg/L | 0.200 | | 116 | 26.6-161 | 2.71 | 22.4 | |
| Methylene chloride | 0.016 | 0.0005 | mg/L | 0.0200 | | 81.2 | 49.3-163 | 1.11 | 19.7 | |
| Acetone | 0.047 | 0.010 | mg/L | 0.0400 | | 116 | 39.1-168 | 9.98 | 30.5 | |
| trans-1,2-Dichloroethene | 0.024 | 0.0005 | mg/L | 0.0200 | | 119 | 65.2-133 | 3.96 | 19.1 | |
| Methyl tert-butyl ether | 0.046 | 0.001 | mg/L | 0.0400 | | 114 | 57.7-137 | 5.65 | 12.8 | |
| 1,1-Dichloroethane | 0.025 | 0.0005 | mg/L | 0.0200 | | 124 | 74.8-123 | 0.892 | 4.3 | BS1 |
| Acrylonitrile | 0.044 | 0.002 | mg/L | 0.0400 | | 111 | 64.9-135 | 5.84 | 7.62 | |
| Vinyl acetate | 0.019 | 0.0005 | mg/L | 0.0200 | | 96.4 | 50.9-135 | 12.4 | 7.84 | QR-04 |
| cis-1,2-Dichloroethene | 0.024 | 0.0005 | mg/L | 0.0200 | | 121 | 73.8-128 | 3.50 | 5.73 | |
| 2,2-Dichloropropane | 0.023 | 0.0005 | mg/L | 0.0200 | | 117 | 62.9-136 | 1.29 | 9.62 | |
| Bromochloromethane | 0.026 | 0.0005 | mg/L | 0.0200 | | 131 | 70.7-123 | 2.63 | 5.16 | BS1 |
| Chloroform | 0.024 | 0.0005 | mg/L | 0.0200 | | 121 | 80.9-119 | 3.15 | 5.15 | BS1 |
| Carbon tetrachloride | 0.024 | 0.0005 | mg/L | 0.0200 | | 119 | 79.5-125 | 1.10 | 11.4 | |
| 1,1,1-Trichloroethane | 0.024 | 0.0005 | mg/L | 0.0200 | | 120 | 80.7-121 | 1.18 | 7.43 | |
| 1,1-Dichloropropene | 0.020 | 0.0005 | mg/L | 0.0200 | | 99.3 | 85.9-115 | 3.28 | 5.47 | |
| 2-Butanone | 0.038 | 0.002 | mg/L | 0.0400 | | 94.5 | 24.1-159 | 6.53 | 14.2 | |
| Benzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 98.2 | 69.4-129 | 1.28 | 4.16 | |
| 1,2-Dichloroethane | 0.021 | 0.0005 | mg/L | 0.0200 | | 107 | 72.5-123 | 1.83 | 8.94 | |
| Trichloroethene | 0.019 | 0.0005 | mg/L | 0.0200 | | 96.6 | 79.3-114 | 1.51 | 4.92 | |
| Dibromomethane | 0.021 | 0.0005 | mg/L | 0.0200 | | 103 | 77-118 | 1.52 | 5.75 | |
| 1,2-Dichloropropane | 0.020 | 0.0005 | mg/L | 0.0200 | | 99.8 | 79.4-117 | 1.01 | 5.51 | |
| Bromodichloromethane | 0.024 | 0.0005 | mg/L | 0.0200 | | 120 | 80.3-119 | 1.26 | 5.36 | BS1 |
| cis-1,3-Dichloropropene | 0.018 | 0.0005 | mg/L | 0.0200 | | 88.4 | 82.5-122 | 1.18 | 6.09 | |
| Toluene | 0.019 | 0.0005 | mg/L | 0.0200 | | 96.8 | 68.1-127 | 2.15 | 5.67 | |
| 4-Methyl-2-pentanone | 0.039 | 0.001 | mg/L | 0.0400 | | 98.1 | 60.7-139 | 21.3 | 7.57 | QR-04 |
| Tetrachloroethene | 0.019 | 0.0005 | mg/L | 0.0200 | | 92.6 | 74.2-128 | 0.00 | 6.38 | |
| trans-1,3-Dichloropropene | 0.020 | 0.0005 | mg/L | 0.0200 | | 100 | 84-123 | 3.57 | 6.26 | |
| 1,1,2-Trichloroethane | 0.021 | 0.0005 | mg/L | 0.0200 | | 106 | 81.7-118 | 2.93 | 6.82 | |

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## *Analytical Results For:*

| | | |
|---|---|---|
| Laboratory Services, Inc.<br>2609 W. Marland<br>Hobbs NM, 88240 | Project: RED HILLS PLANT<br>Project Number: NONE GIVEN<br>Project Manager: DANIEL JETT<br>Fax To: (505) 397-3713 | Reported:<br>18-Sep-24 11:37 |

### VOLATILES BY GC/MS - Quality Control

### Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 4091116 - Volatiles** | | | | | | | | | | |
| **LCS Dup (4091116-BSD1)** | | | | Prepared: 11-Sep-24 Analyzed: 16-Sep-24 | | | | | | |
| Dibromochloromethane | 0.020 | 0.0005 | mg/L | 0.0200 | | 101 | 83.1-124 | 0.447 | 7.24 | |
| 1,3-Dichloropropane | 0.021 | 0.0005 | mg/L | 0.0200 | | 105 | 82.6-117 | 3.54 | 6.06 | |
| 1,2-Dibromoethane | 0.021 | 0.0005 | mg/L | 0.0200 | | 104 | 84.9-116 | 3.27 | 5.83 | |
| 2-Hexanone | 0.037 | 0.001 | mg/L | 0.0400 | | 91.8 | 56.3-139 | 35.1 | 7.28 | QR-04 |
| Chlorobenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 103 | 85.1-115 | 1.63 | 5.18 | |
| Ethylbenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 104 | 70.2-130 | 1.29 | 4.83 | |
| 1,1,1,2-Tetrachloroethane | 0.023 | 0.0005 | mg/L | 0.0200 | | 116 | 82.4-120 | 0.691 | 6.88 | |
| m+p - Xylene | 0.044 | 0.001 | mg/L | 0.0400 | | 110 | 71.9-133 | 0.857 | 5.77 | |
| Total Xylenes | 0.065 | 0.001 | mg/L | 0.0600 | | 108 | 71.6-132 | 0.721 | 5.83 | |
| o-Xylene | 0.021 | 0.0005 | mg/L | 0.0200 | | 104 | 69.4-132 | 0.431 | 6.29 | |
| Bromoform | 0.023 | 0.0005 | mg/L | 0.0200 | | 117 | 71.1-141 | 6.11 | 14.1 | |
| Styrene | 0.022 | 0.0005 | mg/L | 0.0200 | | 108 | 71.7-128 | 4.05 | 7.55 | |
| Isopropylbenzene | 0.022 | 0.0005 | mg/L | 0.0200 | | 108 | 85-124 | 4.05 | 6.25 | |
| Bromobenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 98.4 | 83.5-115 | 4.13 | 8.41 | |
| n-Propylbenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 103 | 79.6-124 | 2.69 | 9.09 | |
| 1,1,2,2-Tetrachloroethane | 0.021 | 0.0005 | mg/L | 0.0200 | | 107 | 76.5-121 | 11.3 | 8.68 | QR-04 |
| 2-Chlorotoluene | 0.021 | 0.0005 | mg/L | 0.0200 | | 103 | 80.2-121 | 4.98 | 8.62 | |
| 1.2.3-trichloropropane | 0.022 | 0.0005 | mg/L | 0.0200 | | 112 | 44.7-168 | 10.3 | 49.2 | |
| 1,3,5-Trimethylbenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 107 | 69-137 | 4.83 | 16.5 | |
| trans-1,4-Dichloro-2-butene | 0.046 | 0.010 | mg/L | 0.0400 | | 115 | 9.3-235 | 1.30 | 92.8 | |
| 4-Chlorotoluene | 0.021 | 0.0005 | mg/L | 0.0200 | | 104 | 82.2-125 | 2.05 | 15.5 | |
| tert-Butylbenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 106 | 78.8-128 | 3.90 | 18.6 | |
| 1,2,4-Trimethylbenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 103 | 67.4-138 | 4.28 | 8.94 | |
| sec-Butylbenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 103 | 77.6-133 | 2.69 | 9.85 | |
| p-Isopropyltoluene | 0.020 | 0.0005 | mg/L | 0.0200 | | 101 | 79.8-131 | 6.39 | 9.26 | |
| 1,3-Dichlorobenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 98.4 | 84.4-120 | 5.67 | 9 | |
| 1,4-Dichlorobenzene | 0.020 | 0.0005 | mg/L | 0.0200 | | 99.8 | 81.7-118 | 3.93 | 7.71 | |
| n-Butylbenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 104 | 75.4-132 | 0.527 | 10.1 | |
| 1,2-Dichlorobenzene | 0.019 | 0.0005 | mg/L | 0.0200 | | 93.3 | 82.5-119 | 7.48 | 8.72 | |
| 1,2-Dibromo-3-chloropropane | 0.020 | 0.0005 | mg/L | 0.0200 | | 99.3 | 71.7-124 | 19.7 | 15.1 | QR-04 |
| Hexachlorobutadiene | 0.019 | 0.0005 | mg/L | 0.0200 | | 94.5 | 78.9-148 | 10.8 | 18.4 | |
| 1,2,4-Trichlorobenzene | 0.019 | 0.0005 | mg/L | 0.0200 | | 95.8 | 72.4-136 | 3.94 | 22.3 | |

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## *Analytical Results For:*

| | | |
|---|---|---|
| Laboratory Services, Inc.<br>2609 W. Marland<br>Hobbs NM, 88240 | Project: RED HILLS PLANT<br>Project Number: NONE GIVEN<br>Project Manager: DANIEL JETT<br>Fax To: (505) 397-3713 | Reported:<br>18-Sep-24 11:37 |

### VOLATILES BY GC/MS - Quality Control

### Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 4091116 - Volatiles** | | | | | | | | | | |
| **LCS Dup (4091116-BSD1)** | | | | Prepared: 11-Sep-24 Analyzed: 16-Sep-24 | | | | | | |
| Naphthalene | 0.025 | 0.0005 | mg/L | 0.0200 | | 123 | 62.1-141 | 10.8 | 33.5 | |
| 1,2,3-Trichlorobenzene | 0.021 | 0.0005 | mg/L | 0.0200 | | 103 | 76.1-134 | 3.86 | 43 | |
| 1,4-Dioxane | 0.292 | 0.010 | mg/L | 0.400 | | 72.9 | -34.6-193 | 5.92 | 35.2 | |
| *Surrogate: Dibromofluoromethane* | *0.0540* | | mg/L | *0.0500* | | *108* | *82.4-141* | | | |
| *Surrogate: Toluene-d8* | *0.0490* | | mg/L | *0.0500* | | *98.0* | *87.1-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *0.0524* | | mg/L | *0.0500* | | *105* | *76.4-114* | | | |

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Celey D. Keene, Lab Director/Quality Manager

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## Notes and Definitions

| | |
|---|---|
| QR-04 | The RPD for the BS/BSD was outside of historical limits. |
| BS1 | Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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Celey D. Keene, Lab Director/Quality Manager

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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | |
|---|---|
| Company Name: | LSM |
| Project Manager: | Daniel Jett |
| Address: | 2609 W Marland Blvd. |
| City: | Hobbs State: N.M. Zip: 88240 |
| Phone #: | 575-397-3713 Fax #: |
| Project #: | [redacted] Project Owner: |
| Project Name: | |
| Project Location: | Red Hills Plant |
| Sampler Name: | Omar Diaz |

**BILL TO**

| | |
|---|---|
| P.O. #: | |
| Company: | LSM |
| Attn: | |
| Address: | 2609 w Marland Blvd |
| City: | Hobbs |
| State: | NM Zip: 88240 |
| Phone #: | 575-397-3713 |
| Fax #: | |

**ANALYSIS REQUEST**

Cool Vol 8260

| FOR LAB USE ONLY Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | PRESERV.: ACID/BASE: | ICE / COOL | OTHER: | SAMPLING: DATE | TIME | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H245414 1 | 230 Bat. | | | | ✓ | | | | | | ✓ | | 9/6 | 1:10 | X |

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | |
|---|---|---|---|
| Relinquished By: | Date: 9/6/24 Time: 2:50 | Received By: | |
| O. Diaz | | | |
| Relinquished By: | Date: Time: | Received By: | |

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:

REMARKS: Daniel Jett. . .

| | | | | | |
|---|---|---|---|---|---|
| Delivered By: (Circle One) | Observed Temp. °C 9.9 | Sample Condition Cool: ☐ Yes ☐ No | Intact: ☐ Yes ☐ No | CHECKED BY: (Initials) AD | Turnaround Time: Standard ☐ Rush ☐ |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C 9.3 | | | | Thermometer ID #140 Correction Factor -0.6°C |

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C



† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

| SAMPLE ID | | COLLECTION DATA | |
|---|---|---|---|
| **Operator** | Targa Resources Inc | **Pressure** | 1066 psig |
| **Location** | Red Hills Processing Complex | **Sample Temp** | 85 F |
| **Site** | Red Hills 4 | **Atm Temp** | 12 F |
| **Site Type** | Plant | **Collection Date** | 01/21/2025 |
| **Sample Point** | Cryo Residue Gas | **Collection Time** | 8:40 AM |
| **Spot/Comp** | Spot | **Collection By** | Cody Carson |
| **Meter ID** | | **Pressure Base** | 14.696 psi |
| **Regulatory ID** | | **Temperature Base** | 60 F |
| **Fluid** | Gas | **Container(s)** | PL3195 |

## GPA 2261-20 Gas Fractional Analysis

| COMPOUND | FORMULA | MOL% | WT% | GPM |
|---|---|---|---|---|
| **NITROGEN** | N2 | 2.807 | 4.391 | 0.308 |
| **CARBON DIOXIDE** | CO2 | 0.216 | 0.531 | 0.037 |
| **HYDROGEN SULFIDE** | H2S | 0.000 | 0.000 | 0.000 |
| **METHANE** | C1 | 86.565 | 77.548 | 14.673 |
| **ETHANE** | C2 | 10.356 | 17.389 | 2.770 |
| **PROPANE** | C3 | 0.055 | 0.135 | 0.015 |
| **I-BUTANE** | iC4 | 0.000 | 0.000 | 0.000 |
| **N-BUTANE** | nC4 | 0.000 | 0.000 | 0.000 |
| **I-PENTANE** | iC5 | 0.000 | 0.000 | 0.000 |
| **N-PENTANE** | nC5 | 0.000 | 0.000 | 0.000 |
| **HEXANES PLUS** | C6+ | 0.001 | 0.006 | 0.000 |
| **TOTALS:** | | **100.000** | **100.000** | **17.803** |

*Value of "0.000" in fractional interpreted as below detectable limit. Onsite H2S value is used in fractional table if performed.*

| LIQUID YIELD | C2+ | C3+ | C4+ | C5+ | 26# Liquid | 10# Liquid |
|---|---|---|---|---|---|---|
| **GAL/MSCF (GPM)** | 2.785 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 |

## GPA 2172/ASTM D3588 CALCULATED PROPERTIES

| WATER CONTENT | BTU/CF, Gross | BTU/CF, Net | Specific Gr. | Z Factor | Mol Weight | Wobbe IDX |
|---|---|---|---|---|---|---|
| **DRY** | 1,061.52 | 958.13 | 0.620 | 0.998 | 17.908 | 1,348.61 |
| **SATURATED** | 1,044.24 | 942.40 | 0.620 | 0.997 | 17.597 | |

## Onsite Testing by Stain Tube

| METHOD | TYPE | MOL% | GRAINS/100 | PPMV | LB/MMSCF |
|---|---|---|---|---|---|
| GPA2377 | hydrogen sulfide | 0.0000 | 0.00 | 0.0 | 0.0 |

*Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.*

# Manufacturer Specification Sheets

Flare Specification Sheets

- RHA-FL-5850
- RA2-FL-25850
- RHA-FL-5100
- RA2-FL-25100
- RH1-FL-29-1003
- RH2-FL-5100
- RH3-FL-5100
- RH4-FL-45100
- RH5-FL-55100
- RH1-FL-2850
- RH4-FL-46200

*Office/Shop*
2300 S. Adams Road
Sand Springs, OK 74063
U.S.A
.

*Contacts:*
Ph: 918-215-1900
Fax: 918-215-1908
E-mail: sales@tulsacombustion.com
Web site: www.tulsacombustion.com

5/8/25

To whom it may concern:

Ref: Lucid Flare – TC #17-09-2126

FL-5100, AGI1 flare was designed and meets CFR 40 requirements for 98% DRE for the original design basis.

If you have any questions please reach out to our office.

Thank you,

Mitt Chinsethagid

Management

MittC@tulsacombustion.com
918-215-1900 ext. 38

ENGINEERING & CONSTRUCTION SERVICES, INC.

| | | | |
|---|---|---|---|
| CLIENT | TARGA RESOURCES | PROJECT | RED HILLS AGI 2 |
| PLANT | RED HILLS PLANT | PROJECT NO. | 22163 |
| LOCATION | LEA COUNTY, NM | TAG | FL-25850 |
| SERVICE | SOUR SLOP TANK FLARE | QUANTITY | 1 |
| P&ID | 2255 | | |

# FLARE DATASHEET

## INLET GAS PROPERTIES

| PROCESS CONDITIONS | WASTE GAS | ASSIST GAS | PILOT GAS |
|---|---|---|---|
| VOLUMETRIC FLOW (MMSCFD) | 0.09 | 0.019 | 117 BTU/hr |
| MASS FLOW (LB/H) | 382 | 140 | * |
| MOL WEIGHT (LB/LBMOL) | 38.61 | 17.12 | 17.12 |
| STACK INLET TEMPERATURE (°F) | 125 | 45 | * |
| STACK INLET PRESSURE (PSI) | 1.00 | 20.00 | 10 |
| HEAT RELEASE (MMBTU/HR) | * | * | 0.06 |
| **COMPONENT** | **(MOL FRAC)** | **(MOL FRAC)** | **(MOL FRAC)** |
| HYDROGEN SULFIDE | 0.1781 | 0.0000 | 0.0000 |
| NITROGEN | 0.0000 | 0.0200 | 0.0200 |
| CARBON DIOXIDE | 0.6817 | 0.0000 | 0.0000 |
| METHANE | 0.0000 | 0.9200 | 0.9200 |
| ETHANE | 0.0000 | 0.0600 | 0.0600 |
| PROPANE | 0.0000 | 0.0000 | 0.0000 |
| I-BUTANE | 0.0000 | 0.0000 | 0.0000 |
| N-BUTANE | 0.0000 | 0.0000 | 0.0000 |
| I-PENTANE | 0.0000 | 0.0000 | 0.0000 |
| PENTANE | 0.0000 | 0.0000 | 0.0000 |
| HEXANE | 0.0000 | 0.0000 | 0.0000 |
| HEPTANE | 0.0000 | 0.0000 | 0.0000 |
| OCTANE | 0.0000 | 0.0000 | 0.0000 |
| BENZENE | 0.0000 | 0.0000 | 0.0000 |
| TOLUENE | 0.0000 | 0.0000 | 0.0000 |
| MDEAMINE | 0.0001 | 0.0000 | 0.0000 |
| PIERAZINE | 0.0001 | 0.0000 | 0.0000 |
| WATER | 0.1401 | 0.0000 | 0.0000 |
| | | | |
| | | | |
| **TOTALS ( =1.0000)** | **1.0000** | **1.0000** | **1.0000** |

## FLARE AND GENERAL SPECIFICATION

| | |
|---|---|
| **PILOT GAS REQUIREMENT** | |
| PILOT GAS FLOW RATE (SCFH) | 65 |
| PILOT GAS SUPPLY PRESSURE (PSIG) | 150 |
| MAX ALLOWABLE SUPPLY PRESSURE TO PILOT GAS MANIFOLD (PSIG) | 150 |
| RELIEF PROTECTION REQUIRED FOR PILOT GAS MANIFOLD | * |
| **SWEEP GAS REQUIREMENT** | |
| SWEEP GAS MEDIUM AVAILABLE | N/A |
| MINIMUM SWEEP GAS REQUIRED (SCFH) | N/A |
| **INSTRUMENT AIR REQUIREMENT (FOR Z-PURGE OR EQUIVALENT)** | |
| INSTRUMENT AIR MINIMUM SUPPLY PRESSURE (PSIG) | 80 |
| INSTRUMENT AIR MAXIMUM SUPPLY PRESSURE (PSIG) | 100 |
| INSTRUMENT AIR FLOW RATE (ACFM) | 444 |
| **FLARE DESIGN PARAMETERS** | |
| FLARE TIP TYPE | ASSISTED |
| DESIGN VOCY DESTRUCTION EFFICIENCY (%) | ≥ 98% (H2S & VOC) |
| FLARE TIP DIAMETER (IN.) | 4 |
| FLARE OVERALL HEIGHT (FT) | 20 |
| MAXIMUM SOUND LEVEL (dB) | * |

| RADIATION DATA | EMERGENCY | NON-EMERGENCY |
|---|---|---|
| AVERAGE WIND SPEED (MPH) | N/A | 20 (PER API) |
| SOLAR RADIATION (BTU/FT$^2$ HR) | N/A | 330 |
| MAXIMUM RADIATION AT GRADE (BTU/FT$^2$ HR) | N/A | 500 |
| DISTANCE TO MAXIMUM RADIATION AT GRADE (FT) | N/A | SEE HEIGHT |
| DISTANCE TO 1,500 BTU/FT$^2$ HR RADIATION LEVEL (FT) | N/A | 6 |

## NOZZLE SCHEDULE

| SERVICE | SIZE | RATING | FACE | NOTES |
|---|---|---|---|---|
| PROCESS INLET | 4" | CL 150 | RFWN | MINIMUM |
| ASSIST GAS INLET | 2" | CL 150 | RFWN | |
| PILOT GAS INLET | 1/2" | CL 150 | RFWN | 1/4" at base of flare |
| INSTRUMENT AIR TO PANEL | 2" | CL 150 | * | |

## ASSIST AIR BLOWER SPECIFICATION (IF APPLICABLE)

| ASSIST AIR BLOWER MOTOR | | | | | |
|---|---|---|---|---|---|
| VOLTAGE | 460 | PHASE | 3 | HERTZ | 60 |
| AREA CLASSIFICATION | | UNCLASSIFIED | | | |

| ASSIST AIR BLOWER | | | |
|---|---|---|---|
| MANUFACTURER | N/A | VFD-COMPATIBLE | N/A |
| ENCLOSURE TYPE | N/A | HORSEPOWER (HP) | N/A |
| ASSIST AIR FLOW RATE REQUIREMENT AT MAX CASE (SCFM) | | | N/A |
| ASSIST AIR BLOWER FLOW CONTROL TYPE | | | N/A |

## INTEGRAL KNOCKOUT DRUM SPECIFICATION (IF APPLICABLE)

| | | | |
|---|---|---|---|
| DESIGN PRESSURE (PSIG) | N/A | LENGTH S/S (FT) | N/A |
| MIN/MAX DESIGN TEMP (°F) | N/A | INNER DIAMETER (IN) | N/A |

## IGNITION AND MONITORING PANEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ENCLOSURE NEMA CLASSIFICATION | NEMA 4X | | | | | | |
| AREA CLASSIFICATION | CLASS I, DIVISION 2 | | | | | | |
| Z-PURGE REQUIRED FOR AREA CLASSIFICATION? | * | | | | | | |
| PILOT IGNITION SYSTEM TYPE | HIGH ENERGY IGNITION | | | | | | |
| IGNITION AND MONITORING SYSTEM | PROFIRE 2200 OR EQUIVALENT | | | | | | |
| PLANT NETWORK INTERFACE | MODBUS | | | | | | |
| IGNITION PANEL POWER REQUIREMENT | 12.0 | VAC | * | PH | 0.1 | AMP | |

## OPTIONS

| | |
|---|---|
| SUPPORT TYPE | SELF-SUPPORTED PREFERRED |
| SMOKELESS OPERATION | NON-EMERGENCY CASE ONLY |

## RELEVANT CLIENT & INDUSTRY SPECIFICATIONS

1. STRUCTURAL DAMPENING CRITERIA, ASME STS-1: RIGID
2. US ENVIRONMENTAL PROTECTION AGENCY 40 CFR §60/63
3. API 537, FLARE DETAILS
4.

## MATERIALS OF CONSTRUCTION

| COMPONENT | MATERIAL | NOTES |
|---|---|---|
| FLARE TIP | 310 SS | |
| STACK | NACE COMPLIANT CS | |
| PILOT TIP | * | |
| KNOCKOUT | * | |

## COATING

| | |
|---|---|
| EXTERNAL PRIMER | PER CLIENT STANDARD |
| EXTERNAL FINISH | PER CLIENT STANDARD |
| PAINT COLOR | PER VENDOR STANDARD |
| INSULATION TYPE & THICKNESS | N/A |

## ENVIRONMENTAL CRITERIA

| WIND | |
|---|---|
| WIND VELOCITY (MPH) | 111 |
| WIND EXPOSURE CATEGORY | C |
| WIND IMPORTANCE FACTOR (I) | N/A |
| **SEISMIC** | |
| SEISMIC DESIGN CATEGORY | A |
| SEISMIC SITE CLASS | D |
| SEISMIC $S_S$ | 0.144 |
| SEISMIC $S_1$ | 0.04 |
| SEISMIC IMPORTANCE FACTOR (I) | 1.25 |
| **MISCELLANEOUS** | |
| GROUND SNOW LOAD (PSF) | 10 |
| SITE ELEVATION (FT) | 3,500 |
| SITE BAROMETRIC PRESSURE (PSIA) | 12.9 |

| | | | |
|---|---|---|---|
| SHIPPING WEIGHT (LB) | * | INSTALLED WEIGHT (LB) | 502 |
| MINIMUM AMBIENT TEMP (°F) | -20 | MAXIMUM AMBIENT TEMP (°F) | 110 |

## NOTES

1. VENDOR TO PROVIDE INFORMATION FOR ITEMS MARKED WITH AN ASTERISK (*).
2. VENDOR TO PROVIDE RADIATION ISOPLETHS FOR ALL CASES IDENTIFIED UNDER THE MAXIMUM WIND SPEED IDENTIFIED
3. VENDOR TO PROVIDE PRESSURE DROP CURVE FOR THE FLARE WHICH CONSIDERS THE STACK, SEAL, AND TIP; INLET PRESSURE TO ARRESTOR AND FLARE SHALL NOT EXCEED 1 PSI.
4. VENDOR TO PROVIDE RECOMMENDED TYPE AND SIZE OF ARRESTOR WITH PROPOSAL; ARRESTOR SHALL INCLUDE ONE (1) FNPT FOR TEMPERATURE INDICATION CONNECTION.
5. VENDOR TO INCLUDE WASTE GAS AND ASSIST GAS TO BE BURNED SIMULTANEOULSY IN ORDER TO CONDUCT COMPLETE COMBUSTION OF H2S.
6. VENDOR TO PROVIDE NOZZLE FOR ASSIST GAS INLET; FLOW CONTROL OF ASSIST GAS (BASED ON WASTE GAS FLOW) WILL BE PROVIDED BY OTHERS.

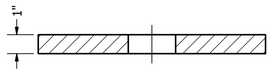
| REVISION | A | B | 0 | 1 | | |
|---|---|---|---|---|---|---|
| ISSUED FOR | QUOTE | REVIEW | PURCHASE | AS-BUILT | | |
| ENGINEER/DATE | CMZ / 11/17/22 | MVF / 01/04/23 | ECO / 02/19/23 | NMB / 01/25/24 | / | / |

RA2-FL-25850

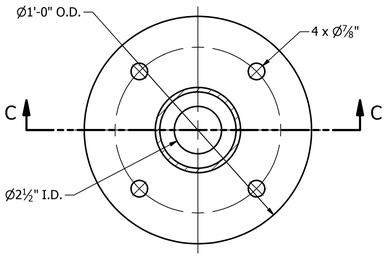
ENGINEERING DESIGN INFORMATION
GUY SUPPORTED STACK :

| | |
|---|---|
| DESIGN WIND SPEED | : 120 MPH |
| EXPOSURE | : C |
| DEAD WEIGHT | : 502 lbs |
| VERTICAL FORCE ON BASE | : 5.56 Kip |
| MOMENT | : 2.6 k-ft |
| SHARE FORCE | : 0.58 Kip |
| ANCHOR BOLT SIZE | : 3/4" |
| ANCHOR BOLT MATERIAL | : A-193-B7 |
| ANCHOR BOLT QUANTITY | : 4 |
| CORROSION ALLOWANCE | : 1/16" |

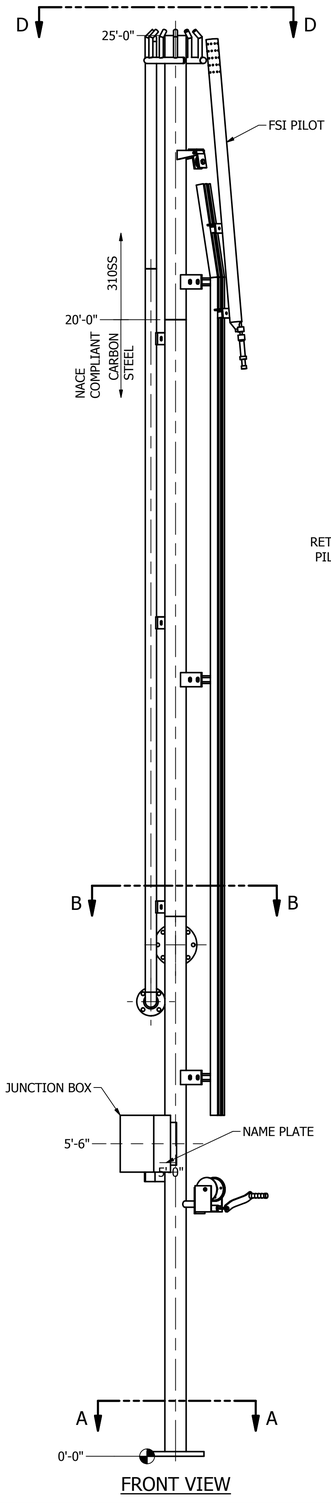
NOTES : UNLESS OTHERWISE SPECIFIED
1. ALL BOLT HOLES SHALL STRADDLE COMMON CENTERLINES.
2. SEE PLAN VIEW FOR TRUE ORIENTATIONS.
3. PAINT SPECIFICATIONS DO NOT APPLY TO STAINLESS STEEL MATERIALS.
4. ALL NOZZLES AND COUPLINGS TO BE CAPPED OF PLUGGED PRIOR TO SHIPPING.



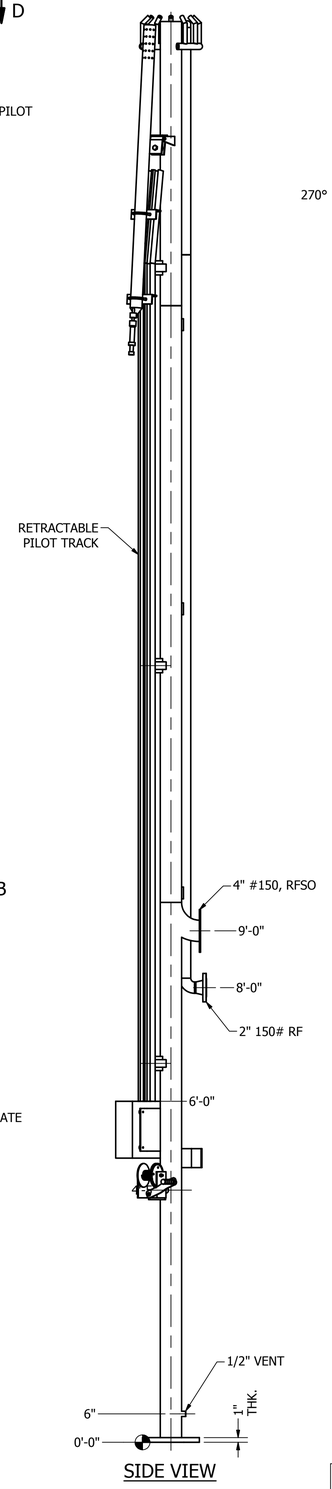

SECTION C-C



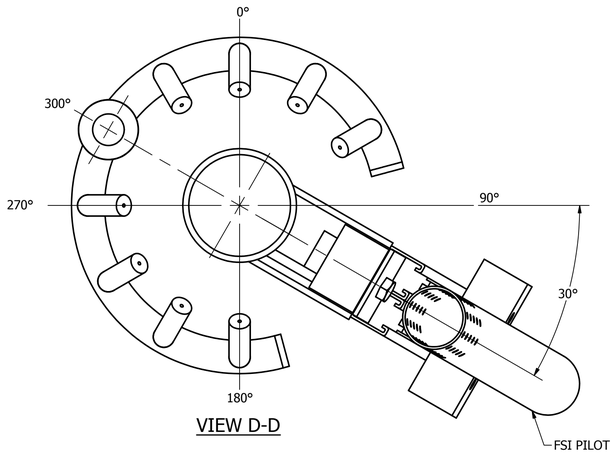

SECTION A-A



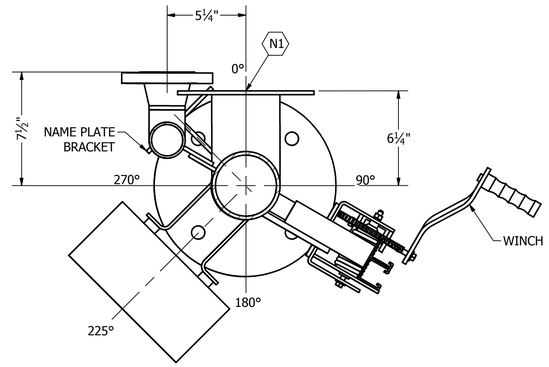

FRONT VIEW



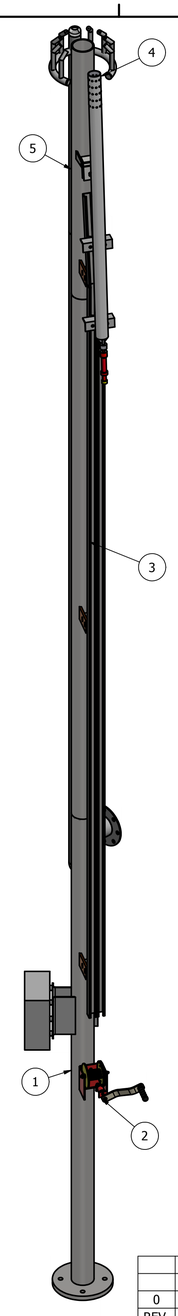

SIDE VIEW




VIEW D-D




SECTION B-B




ISO VIEW

| PARTS LIST | | |
|---|---|---|
| ITEM | QTY | DESCRIPTION |
| 1 | 1 | MGA4x25-FLARE STACK ASSEMBLY |
| 2 | 1 | MEDIUM WINCH ASSEMBLY |
| 3 | 1 | Retractable pilot assembly |
| 4 | 1 | Pilot Assembly |
| 5 | 1 | Flare Tip |

| NOZZLE SCHEDULE | | | | | |
|---|---|---|---|---|---|
| ITEM | TYPE | SERVICE | SIZE | RATING | SPEC. |
| N1 | RFSO | WASTE GAS INLET | 4" | 150# | A-105 |
| N2 | RF | | 2" | 150# | A-105 |


MISSION FLARES & COMBUSTION
PO BOX 4358
LAKE CHARLES, LA 70606
844-303-0078


MODEL

SERIAL NUMBER

TAG NUMBER

www.missionflares.com

WEIGHT : 502 lbs

PAINT SPECIFICATION:

| | |
|---|---|
| SURFACE PREP | : SSPC-SP10 |
| PRIMER | : ONE COAT INORGANIC ZINC 2.0-4.0 MILS DFT |
| TOP COAT | : ONE COAT PPG HI-TEMP 500 (OR EQUIVILENT) 1.5-2.0 MILS DFT, CARLSBAD CANYON |


PROPRIETARY DATA IS INCLUDED IN THE INFORMATION DISCLOSED HEREIN AND IS THE PROPERTY OF MISSION FLARES AND COMBUSTION. THIS INFORMATION IS SUBMITTED IN CONFIDENCE AND MUST BE USED IN CONNECTION WITH WORK DONE FOR MISSION FLARES AND COMBUSTION AND ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED. UNAUTHORIZED DISCLOSURE OR USE IS PROHIBITED BY LAW.


| REV. | CHANGES | DRG. | CHK. | APP. | DATE |
|---|---|---|---|---|---|
| 0 | First Issue | KDP | KP | | 16-Apr-23 |

REVISION TABLE

| | | |
|---|---|---|
| DRAWN | | 16-Apr-23 |
| CHECKED | KP | 16-Apr-23 |
| QA | | |
| MFG | | |
| APPROVED | KDP | 16-Apr-23 |

TITLE
MGA4x25 Ft OAH GAS ASSIST FLARE
GENERAL ARRANGEMENT

| SIZE | DWG NO | REV |
|---|---|---|
| D | 22301-G01 | 0 |

SCALE 1 / 16 SHEET 1 OF 1

*Office/Shop*
2300 S. Adams Road
Sand Springs, OK 74063
U.S.A
.

*Contacts:*
Ph: 918-215-1900
Fax: 918-215-1908
E-mail: sales@tulsacombustion.com
Web site: www.tulsacombustion.com

5/8/25

To whom it may concern:

Ref: Lucid Flare – TC #17-09-2126

FL-5100, AGI1 flare was designed and meets CFR 40 requirements for 98% DRE for the original design basis.

If you have any questions please reach out to our office.

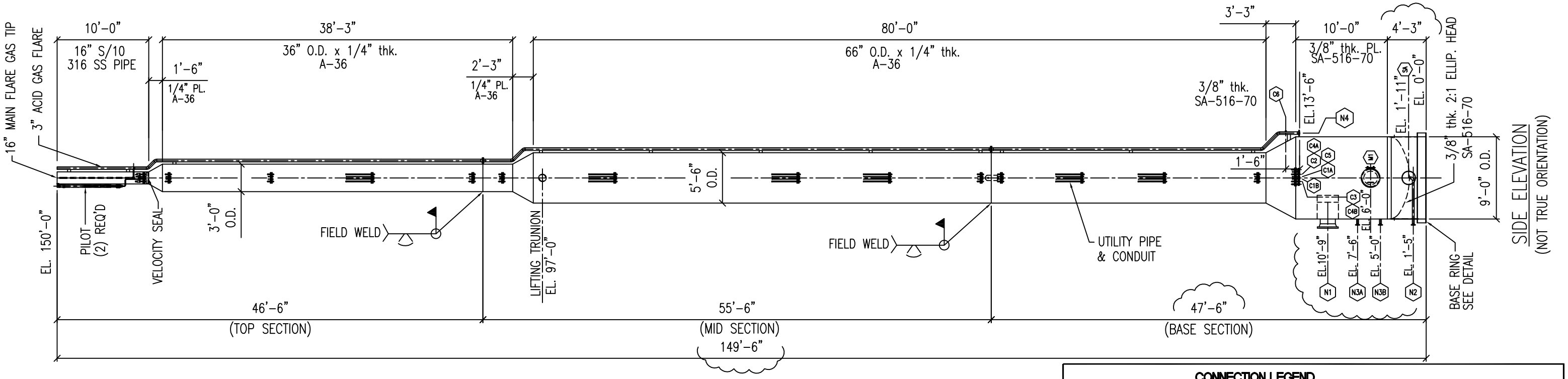
Thank you,

Mitt Chinsethagid

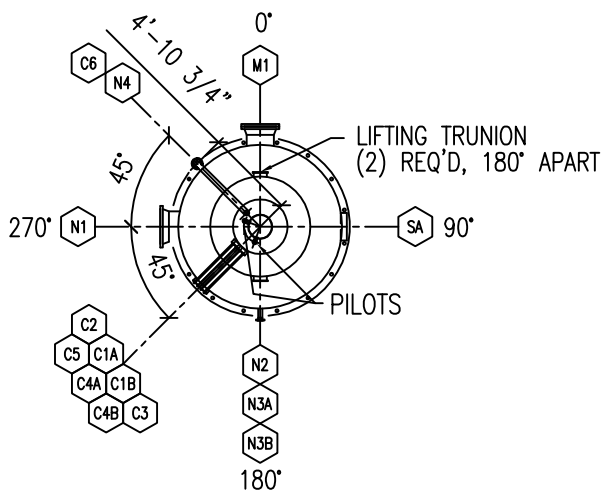
Management

MittC@tulsacombustion.com
918-215-1900 ext. 38

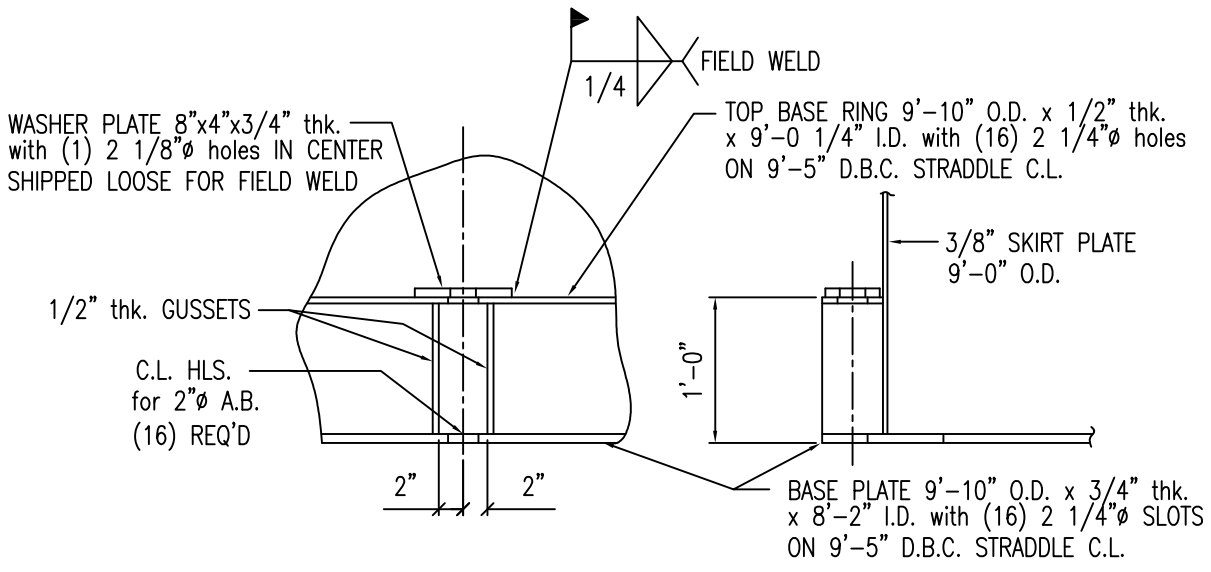
RHA-FL-5100




## SIDE ELEVATION
(NOT TRUE ORIENTATION)




## PLAN VIEW
(TRUE ORIENTATION)




## BASE RING DETAIL
(16) 2"ø A.B. F-1544 Gr.55 REQ'D STRADDLE CENTER LINES

## CONNECTION LEGEND

| MARK | QTY | SIZE | RATING | SERVICE | NOZZLE PROJECTION |
|---|---|---|---|---|---|
| N1 | 1 | 20" | 150# RF | FLARE GAS INLET | 12" |
| N2 | 1 | 2" | 150# RF | DRAIN | 8" |
| N3A&B | 2 | 2" | 150# RF | LEVEL CONN. | 8" |
| M1 | 1 | 18" | 150# RF | HINGE MANWAY W/ BLIND | 12" |
| SA | 1 | 18" | -- | SKIRT ACCESS (BANDED) | 3" |
| N4 | 1 | 3" | 150# RF | ACID GAS FLARE INLET | DWG. |
| C1A&B | 2 | 1/2" | FNPT | PILOT GAS SUPPLY | —— |
| C2 | 1 | 3/4" | FNPT | IGNITION CONDUIT CONNECTION | —— |
| C3 | 1 | 3/4" | FNPT | THERMOCOUPLE CONDUIT CONN. | —— |
| C4A&B | 2 | 1" | FNPT | FFG | —— |
| C5 | 1 | 3/4" | FNPT | AIR INJECTION | —— |
| C6 | 1 | 1" | FNPT | GAS INJECTION | —— |

## DESIGN CONDITION:

DESIGN WIND SPEED 120 MPH (3 sec. GUST) per ASCE 7-10, EXPOSURE "C"
IMPORTANCE FACTOR, $I_s$ = 1.1 / $I_{EQ}$ = 1.25
RISK CATEGORY : III, SITE CLASS: D
$S_1$ = 0.023 / $S_s$ = 0.064
SEISMIC DESIGN CATEGORY A
SNOW LOAD : 35 PSF GROUND
CORROSION ALLOWANCE = 0.0625"for C.S., 0" for S.S.

WIND GOVERN —
- TOTAL DEAD LOAD (DRY) = 35 KIPS
- TOTAL DEAD LOAD (WET) = 65 KIPS
- TOTAL OVERTURNING MOMENT = 1321 KIP-FT
- TOTAL HORIZONTAL SHEAR = 20 KIPS

## GENERAL NOTES:

1. ALL DESIGN TO BE IN ACCORDANCE WITH AISC.
2. ALL C.S. PLATE MATERIAL A-36 OR BETTER UNLESS NOTED.
3. ALL FLANGE BOLT HOLES STRADDLE CENTERLINES UNLESS NOTED.
4. WELDING PER ASME SETION IX
5. FINISH: EXTERNAL C.S. SURFACE PREP. : SSPC-SP6
   PAINT: HIGH HEAT BLACK, NO PAINT ON S.S.

| DWG. NO. | REFERENCE DRAWING | NO. | REVISION | DR. | CKD. | APPR. |
|---|---|---|---|---|---|---|
| | | 2 | REDUCED SKIRT BY 0'-6" PER CUSTOMER 1/4/18 | KB | JK | MK |
| | | 1 | NEW DWG., CHANGE STACK TO 150ft TALL FLARE | mc 11/20/17 | JK | MK |

THE INFORMATION ON THIS DRAWING IS THE PROPERTY OF TULSA COMBUSTION LLC, UNAUTHORIZED USE IS FORBIDDEN.

**Tulsa Combustion LLC**

| | |
|---|---|
| CUSTOMER | LUCID ENERGY LLC |
| P.O. | 170084-07 |
| USER | LUCID ENERGY LLC<br>RED HILLS PLANT |
| JOB SITE | JAL, NM |
| DR. mc | CK. JK |
| DATE: 11/20/17 | APPR. MK<br>DATE: 11/21/17<br>DATE: 11/21/17 |

150 ft TALL FLARE STACK
WITH ACID GAS FLARE & K.O. DRUM

SCALE: NONE
REV.
DWG. NO: 17-09-2126-201
2

ENGINEERING & CONSTRUCTION SERVICES, INC.

| | | | |
|---|---|---|---|
| **CLIENT** | TARGA RESOURCES | **PROJECT** | RED HILLS AGI 2 |
| **PLANT** | RED HILLS PLANT | **PROJECT NO.** | 22163 |
| **LOCATION** | LEA COUNTY, NM | **TAG** | FL-25100 |
| **SERVICE** | FLARE | **QUANTITY** | 1 |
| **P&ID** | DWG 2252 | | |

# DUAL-TIP FLARE DATASHEET

## INLET GAS PROPERTIES

| PROCESS CONDITIONS | CASE #1 | CASE #2 | CASE #3 |
|---|---|---|---|
| VOLUMETRIC FLOW (MMSCFD) | 8.20 | 82.14 | 15.00 |
| MASS FLOW (LB/H) | 34,006 | 250,000 | 60,850 |
| MOL WEIGHT (LB/LBMOL) | 37.75 | 27.65 | 36.96 |
| STACK INLET TEMPERATURE (°F) | 115 | 108 | 80 |
| STACK INLET PRESSURE (PSIA) | 14.0 | 14.0 | 14.0 |
| HEAT RELEASE (MMBTU/HR) | * | * | * |
| **COMPONENT** | **(MOL FRAC)** | **(MOL FRAC)** | **(MOL FRAC)** |
| HYDROGEN SULFIDE | 0.1377 | 0.0452 | 0.0148 |
| NITROGEN | 0.0030 | 0.0052 | 0.0042 |
| CARBON DIOXIDE | 0.6754 | 0.2668 | 0.0686 |
| METHANE | 0.1088 | 0.4996 | 0.3484 |
| ETHANE | 0.0121 | 0.0857 | 0.1447 |
| PROPANE | 0.0003 | 0.0378 | 0.1676 |
| I-BUTANE | 0.0000 | 0.0024 | 0.0497 |
| N-BUTANE | 0.0000 | 0.0120 | 0.1189 |
| I-PENTANE | 0.0000 | 0.0011 | 0.0406 |
| PENTANE | 0.0000 | 0.0015 | 0.0274 |
| HEXANE | 0.0000 | 0.0025 | 0.0126 |
| HEPTANE | 0.0000 | 0.0000 | 0.0017 |
| OCTANE | 0.0000 | 0.0000 | 0.0000 |
| BENZENE | 0.0000 | 0.0000 | 0.0000 |
| TOLUENE | 0.0000 | 0.0000 | 0.0000 |
| ETHYLBENZENE | 0.0000 | 0.0000 | 0.0000 |
| XYLENES | 0.0000 | 0.0000 | 0.0000 |
| WATER | 0.0627 | 0.0402 | 0.0011 |
| | | | |
| | | | |
| **TOTALS ( =1.0000)** | **1.0000** | **1.0000** | **1.0000** |

## FLARE AND GENERAL SPECIFICATION

| | |
|---|---|
| **PILOT GAS REQUIREMENT** | |
| PILOT GAS FLOW RATE (SCFH) | 870/300 |
| PILOT GAS SUPPLY PRESSURE (PSIG) | 100 |
| MAX ALLOWABLE SUPPLY PRESSURE TO PILOT GAS MANIFOLD (PSIG) | 150 (HEADER DESIGN) |
| RELIEF PROTECTION REQUIRED FOR PILOT GAS MANIFOLD | * |
| **SWEEP GAS REQUIREMENT** | |
| SWEEP GAS MEDIUM AVAILABLE | FUEL GAS |
| MINIMUM SWEEP GAS REQUIRED (SCFH) | 300 |
| **INSTRUMENT AIR REQUIREMENT (FOR Z-PURGE OR EQUIVALENT)** | |
| INSTRUMENT AIR MINIMUM SUPPLY PRESSURE (PSIG) | 80 |
| INSTRUMENT AIR MAXIMUM SUPPLY PRESSURE (PSIG) | 120 |
| INSTRUMENT AIR FLOW RATE (SCFM) | * |
| **FLARE DESIGN PARAMETERS** | |
| FLARE TIP TYPE | ASSISTED |
| DESIGN VOCY DESTRUCTION EFFICIENCY (%) | ≥ 98% |
| FLARE TIP DIAMETER (IN.) | * |
| FLARE OVERALL HEIGHT (FT) | 145 |
| MAXIMUM SOUND LEVEL (dB) | * |

| RADIATION DATA | EMERGENCY | NON-EMERGENCY |
|---|---|---|
| AVERAGE WIND SPEED (MPH) | 20 (PER API) | 20 (PER API) |
| SOLAR RADIATION (BTU/FT$^2$ HR) | 300 | 300 |
| MAXIMUM RADIATION AT GRADE (BTU/FT$^2$ HR) | 2000 | 500 |
| DISTANCE TO MAXIMUM RADIATION AT GRADE (FT) | * | 50 |
| DISTANCE TO 1,500 BTU/FT$^2$ HR RADIATION LEVEL | * | * |

## NOZZLE SCHEDULE

| SERVICE | SIZE | RATING | FACE | NOTES |
|---|---|---|---|---|
| PROCESS INLET | 24" | CL 150 | RFWN | NOTE 5 |
| ACID GAS INLET | 20" | CL 150 | RFWN | 304 S.S. |
| PILOT GAS INLET | 1" | 3000# | CPLG | SOCKETWELD |
| INSTRUMENT AIR TO PANEL | * | * | * | |

## ASSIST AIR BLOWER SPECIFICATION (IF APPLICABLE)

| ASSIST AIR BLOWER MOTOR | | | | | |
|---|---|---|---|---|---|
| VOLTAGE | 480 | PHASE | 3 | HERTZ | 60 |
| AREA CLASSIFICATION | | UNCLASSIFIED | | | |

| ASSIST AIR BLOWER | | | |
|---|---|---|---|
| MANUFACTURER | * | VFD-COMPATIBLE | YES |
| ENCLOSURE TYPE | TEAO | HORSEPOWER (HP) | 125-150 |
| ASSIST AIR FLOW RATE REQUIREMENT AT MAX CASE (SCFM) | | | * |
| ASSIST AIR BLOWER FLOW CONTROL TYPE | | | VFD |

## INTEGRAL KNOCKOUT DRUM SPECIFICATION (IF APPLICABLE)

| | | | |
|---|---|---|---|
| DESIGN PRESSURE (PSIG) | N/A | LENGTH S/S (FT) | N/A |
| MIN/MAX DESIGN TEMP (°F) | N/A | INNER DIAMETER (IN) | N/A |

## IGNITION AND MONITORING PANEL

| | |
|---|---|
| ENCLOSURE NEMA CLASSIFICATION | NEMA 4X |
| AREA CLASSIFICATION | CLASS I, DIVISION 2 |
| Z-PURGE REQUIRED FOR AREA CLASSIFICATION? | YES |
| PILOT IGNITION SYSTEM TYPE | HIGH ENERGY IGNITION |
| IGNITION AND MONITORING SYSTEM | LOCAL CONTROL PANEL WITH PILOT INDICATION |
| PLANT NETWORK INTERFACE | MODBUS |
| IGNITION PANEL POWER REQUIREMENT | 120.0 VAC 1.0 PH * AMP |

## OPTIONS

| | |
|---|---|
| SUPPORT TYPE | SELF SUPPORTED |
| SMOKELESS OPERATION | NON-EMERGENCY (NOTE 4) |

## RELEVANT CLIENT & INDUSTRY SPECIFICATIONS

1. STRUCTURAL DAMPENING CRITERIA, ASME STS-1: RIGID
2. US ENVIRONMENTAL PROTECTION AGENCY 40 CFR §60/63
3. API 537, FLARE DETAILS
4.

## MATERIALS OF CONSTRUCTION

| COMPONENT | MATERIAL | NOTES |
|---|---|---|
| FLARE TIP | 310SS | |
| STACK | CS-NACE/SS | WARM FLARE / ACID GAS FLARE (NOTE 6) |
| PILOT TIP | CK-20 | |
| KNOCKOUT | N/A | |

## COATING

| | |
|---|---|
| EXTERNAL PRIMER | INORGANIC ZINC |
| EXTERNAL FINISH | HIGH HEAT ALUMINUM |
| PAINT COLOR | MANUFACTURER STANDARD |
| INSULATION TYPE & THICKNESS | NONE |

## ENVIRONMENTAL CRITERIA

| WIND | |
|---|---|
| WIND VELOCITY (MPH) | 120 (3 SECOND GUST) |
| WIND EXPOSURE CATEGORY | C |
| WIND IMPORTANCE FACTOR (I) | N/A |
| **SEISMIC** | |
| SEISMIC DESIGN CATEGORY | A |
| SEISMIC SITE CLASS | D |
| SEISMIC $S_S$ | 0.144 |
| SEISMIC $S_1$ | 0.04 |
| SEISMIC IMPORTANCE FACTOR (I) | 1.25 |
| **MISCELLANEOUS** | |
| GROUND SNOW LOAD (PSF) | 10 |
| SITE ELEVATION (FT) | 3,500 |
| SITE BAROMETRIC PRESSURE (PSIA) | 12.9 |

| | | | |
|---|---|---|---|
| SHIPPING WEIGHT (LB) | * | INSTALLED WEIGHT (LB) | * |
| MINIMUM AMBIENT TEMP (°F) | 0 | MAXIMUM AMBIENT TEMP (°F) | 110 |

## NOTES

1. VENDOR TO PROVIDE INFORMATION FOR ITEMS MARKED WITH AN ASTERISK (*).
2. VENDOR TO PROVIDE RADIATION ISOPLETHS FOR ALL CASES IDENTIFIED UNDER THE MAXIMUM WIND SPEED IDENTIFIED
3. VENDOR TO PROVIDE PRESSURE DROP CURVE FOR THE FLARE WHICH CONSIDERS THE STACK, VELCOCITY SEAL, AND TIP
4. VENDOR SHALL SUPPLY A 150 HP VFD CAPABLE BLOWER, VENDOR TO ADVISE ON THE SMOKELESS CAPACITY FOR THE SCENARIOS IDENTIFIED. VENDOR TO PROVIDE 145 FT STACK MINIMUM.
5. FLARE TO HANDLE TWO SERVICES; "ACID GAS" (CASES 1 & 2) AND "PROCESS" (CASES 3, 4, 5 & 6)
6. FLARE STACK TO BE STRESS-RELIEVED AND NACE MR-0175 COMPLIANT C.S. STACK WITH A STAINLESS STEEL ACID GAS RISER
7. FLOWRATE DETERMINED BASED ON TARGA EMISSIONS PERMIT

| REVISION | 0 | 1 | | | | |
|---|---|---|---|---|---|---|
| ISSUED FOR | PURCHASE | PURCHASE | | | | |
| ENGINEER/DATE | ECO / 01/20/23 | LMG / 02/07/23 | / | / | / | / |

ENGINEERING & CONSTRUCTION SERVICES, INC.

| | | | |
|---|---|---|---|
| **CLIENT** | TARGA RESOURCES | **PROJECT** | RED HILLS AGI 2 |
| **PLANT** | RED HILLS PLANT | **PROJECT NO.** | 22163 |
| **LOCATION** | LEA COUNTY, NM | **TAG** | FL-25100 |
| **SERVICE** | FLARE | **QUANTITY** | 1 |
| **P&ID** | DWG 2252 | | |

# FLARE DATASHEET

## INLET GAS PROPERTIES (CONT.)

| PROCESS CONDITIONS | CASE #4 | CASE #5 | CASE #6 |
|---|---|---|---|
| VOLUMETRIC FLOW (MMSCFD) | 39.20 | 110.70 | 62.80 |
| MASS FLOW (LB/H) | 209,050 | 271,253 | 327,706 |
| MOL WEIGHT (LB/LBMOL) | 48.54 | 22.33 | 47.36 |
| STACK INLET TEMPERATURE (°F) | 280 | 56 | 196 |
| STACK INLET PRESSURE (PSIA) | 10.0 | 14.0 | 13.0 |
| HEAT RELEASE (BTU/HR) | * | * | * |
| **COMPONENT** | **(MOL FRAC)** | **(MOL FRAC)** | **(MOL FRAC)** |
| HYDROGEN SULFIDE | 0.0113 | 0.0075 | 0.0156 |
| NITROGEN | 0.0027 | 0.0232 | 0.0008 |
| CARBON DIOXIDE | 0.0485 | 0.0705 | 0.0480 |
| METHANE | 0.2350 | 0.7377 | 0.1361 |
| ETHANE | 0.1100 | 0.0839 | 0.1445 |
| PROPANE | 0.1498 | 0.0455 | 0.2406 |
| I-BUTANE | 0.0502 | 0.0080 | 0.0716 |
| N-BUTANE | 0.1254 | 0.0153 | 0.1679 |
| I-PENTANE | 0.0632 | 0.0040 | 0.0609 |
| PENTANE | 0.0600 | 0.0028 | 0.0522 |
| HEXANE | 0.0970 | 0.0011 | 0.0491 |
| HEPTANE | 0.0344 | 0.0000 | 0.0100 |
| OCTANE | 0.0117 | 0.0000 | 0.0020 |
| BENZENE | 0.0000 | 0.0000 | 0.0000 |
| TOLUENE | 0.0000 | 0.0000 | 0.0000 |
| ETHYLBENZENE | 0.0000 | 0.0000 | 0.0000 |
| XYLENES | 0.0000 | 0.0000 | 0.0000 |
| WATER | 0.0008 | 0.0003 | 0.0007 |
| | | | |
| | | | |
| TOTALS ( =1.0000) | 1.0000 | 1.0000 | 1.0000 |

## CASE DESCRIPTION

| CASE NUMBER | CASE RELIEF SCENARIO | DESCRIPTION |
|---|---|---|
| 1 | NON-EMERGENCY | ACID GAS - (STAINLESS STEEL RISER) (NOTE 7) |
| 2 | EMERGENCY | ACID GAS AND PSV-23402 CV FAILURE RELIEF - (S.S. RISER) |
| 3 | NON-EMERGENCY | OVERHEAD GAS - SMOKELESS |
| 4 | EMERGENCY | SLUG CATCHER FIRE RELIEF |
| 5 | EMERGENCY | AMINE FLASH TANK PSV - CV FAILURE |
| 6 | EMERGENCY | CONDENSATE SURGE TANK PSV - CV FAILURE |
| 7 | N/A | |
| 8 | N/A | |
| PILOT GAS | N/A | TYPICAL FUEL GAS COMPOSITION |

## NOTES

1. VENDOR TO PROVIDE INFORMATION FOR ITEMS MARKED WITH AN ASTERISK (*).
2.
3.
4.

| | | | | | | |
|---|---|---|---|---|---|---|
| **REVISION** | 0 | 1 | | | | |
| **ISSUED FOR** | PURCHASE | PURCHASE | | | | |
| **ENGINEER/DATE** | ECO / 01/20/23 | LMG / 02/07/23 | / | / | / | / |

# BCCK ENGINEERING, INC.
**Midland, Texas**

## FLARE

| | | | | |
|---|---|---|---|---|
| **CUSTOMER:** | BCCK Engineering, Inc. | | **JOB NO.:** | 6110 |
| **PLANT:** | Red Hills Facility - Lea County NM | | **ITEM NO.:** | 29-1001 |
| **SERVICE:** | Flare | | **P.O. NO.:** | 6110-143 |
| **NO. REQ'D.:** | 1 | **SIZE:** | 42" Diam x 75' OAH | Page 1 of 5 |

1. TYPE: **VERTICAL, SELF SUPPORTED**
   - A. MODEL: Callidus
   - B. SMOKELESS: Yes

2. SITE CONDITIONS:
   - A. MINIMUM WINTER DESIGN TEMPERATURE: -20°F
   - B. MAXIMUM SUMMER TEMPERATURE: +105°F
   - C. ALTITUDE: 3550 FT above sea level
   - D. DESIGN WIND SPEED: 90 MPH
   - E. PREVAILING WIND DIRECTION: **From South**
   - F. ELECTRICAL AREA CLASSIFICATION: UNCLASSSIFIED
   - G. SEISMIC ZONE: Zone 1

3. DESIGN SPECIFICATIONS

| | CASE 1 | CASE 2 | CASE 3 | CASE 4 |
|---|---|---|---|---|
| A. RATES (LB/HR): | 247,014 | 212,249 | 146,854 | |
| B. FLARE INLET PRESSURE (PSIG): | 8 | 6.5 | 8 | |
| C. FLARE ASSEMBLY PRESSURE DROP (PSI): | | | | |
| D. INLET GAS TEMPERATURE (°F): | 120 | 76 | 68 | |
| E. OUTLET TEMPERATURE (°F): | | | | |
| F. OUTLET VELOCITY (FT/SEC): | | | | |
| G. MOLECULAR WEIGHT: | 16.78 | 18.77 | 22.30 | |
| H. COMPOSITION | | | | |
| COMPONENTS | (MOL %) | (MOL %) | (MOL %) | |
| CO2 | 0.00 | 0.00 | 3.862 | |
| N2 | 4.50 | 4.28 | 3.439 | |
| C1 | 94.12 | 83.42 | 71.750 | |
| C2 | 1.33 | 9.29 | 11.434 | |
| C3 | 0.05 | 2.59 | 5.990 | |
| iC4 | 0.00 | 0.14 | 0.658 | |
| nC4 | 0.00 | 0.23 | 1.432 | |
| iC5 | 0.00 | 0.02 | 0.317 | |
| nC5 | 0.00 | 0.02 | 0.293 | |
| C6 | 0.00 | 0.00 | 0.166 | |
| C7 | 0.00 | 0.00 | 0.043 | |
| C8 | 0.00 | 0.00 | 0.008 | |
| C9 | 0.00 | 0.00 | 0.001 | |
| H2S | 0.00 | 0.00 | 0.592 | |
| H2O | 0.00 | 0.00 | 0.015 | |
| Net Heating Value, btu/scf | 879 | 982 | 1075 | |

4. FLARE RISER
   - A. DIAMETER: 42" INCHES (per Section)
   - B. LENGTH: 65 FEET (Overall, Less Tip)
   - C. MATERIAL: Carbon Steel
   - D. SECTIONS: ☒ FIELD WELDED ☐ FLANGED

| R | | | | |
|---|---|---|---|---|
| | A | 10/26/2011 | JMC / | ISSUED FOR QUOTE / APPROVED BY |
| | 0 | 12/8/2011 | BTS / BTS | ISSUED FOR PURCHASE |
| E | | | | |
| | | | | |
| V | | | | |

**BCCK ENGINEERING, INC.**
**Midland, Texas**

## FLARE

| | | | | |
|---|---|---|---|---|
| **CUSTOMER:** | BCCK Engineering, Inc. | **JOB NO.:** | 6110 |
| **PLANT:** | Red Hills Facility - Lea County NM | **ITEM NO.:** | 29-1001 |
| **SERVICE:** | Flare | **P.O. NO.:** | 6110-143 |
| **NO. REQ'D.:** | 1 | **SIZE:** 42" Diam x 75' OAH | Page 2 of 5 |

5. TIP — MODEL NO: Callidus AA
   - A. DIAMETER: 42" / 20" INCHES
   - B. LENGTH: 10 FEET
   - C. MATERIAL: 304 SS - Upper 5 ft.; Carbon Steel - Lower 5 ft.
   - D. WEIGHT: _____ LBS
   - E. FLANGED CONNECTION: Yes (YES / NO) 42" Section
   - F. 20" RISER WELDED (IN FIELD)

6. PURGE SEAL — MODEL NO: Callidus VS-20
   - A. TYPE: Velocity
   - B. MATERIAL: 304 SS
   - C. DIAMETER: 20 INCHES
   - D. LENGTH: _____ FEET
   - E. WEIGHT: _____ LBS
   - F. FLANGED CONNECTION: No (YES / NO)

7. PILOTS — MODEL NO: Callidus
   - A. NUMBER REQUIRED: 3
   - B. TYPE: Electric Spark
   - C. FUEL GAS RATE EACH PILOT: 97 SCFH @ 30PSIG
   - D. LENGTH / WEIGHT: _____

8. CONNECTIONS
   - A. FLARED GAS INLET SIZE: 20" - 150#RF
   - B. FUEL GAS SUPPLY SIZE: _____

9. INTEGRAL KNOCKOUT DRUM
   - A. SIZE: N/A
   - B. CORROSION ALLOWANCE:
   - C. DESIGN PRESS./TEMP.:
   - D. INTERNAL COATING _____
   - E. ASME CODE STAMP _____ YES _____ NO

10. ACCESSORIES
    - A. IGNITER: X AUTOMATIC _____ MANUAL MODEL NO: _____
      - POWER REQUIRED: 115V / 1 Phase / 60 Hz
      - RETRACTABLE: (YES/NO) YES (Thermocouple Only)
      - SPARK SOURCE/CONTROL BOX ENCLOSURE: NEMA 7
    - B. FLASHBACK PREVENTION TYPE: _____ MODEL NO: _____
      - SIZE: _____
      - MATERIAL: _____
    - C. WIND SHIELD MODEL NO: TBD
      - SIZE: _____
      - MATERIAL: _____
    - D. FLAME RETENTION RING _____
      - MATERIAL: _____

11. SUPPORT
    - A. TYPE: X FREE STANDING _____ GUYED
    - B. NUMBER OF GUY WIRES REQUIRED: _____

| REV | | | | |
|---|---|---|---|---|
| R | A | 10/26/2011 | JMC / | ISSUED FOR QUOTE / APPROVED BY |
| | 0 | 12/8/2011 | BTS / BTS | ISSUED FOR PURCHASE |
| E | | | | |
| | | | | |
| V | | | | |

# BCCK ENGINEERING, INC.
**Midland, Texas**

## FLARE

| | | | | |
|---|---|---|---|---|
| **CUSTOMER:** | BCCK Engineering, Inc. | **JOB NO.:** | 6110 |
| **PLANT:** | Red Hills Facility - Lea County NM | **ITEM NO.:** | 29-1001 |
| **SERVICE:** | Flare | **P.O. NO.:** | 6110-143 |
| **NO. REQ'D.:** | 1 | **SIZE:** 42" Diam x 75' OAH | Page 3 of 5 |

11. UTILITIES
    - A. POWER AVAILABLE: 460V / 3 Phase / 60 Hz
    - B. FUEL GAS SUPPLY PRESSURE: 60 PSIG
    - C. INSTRUMENT AIR SUPPLY PRESSURE: 80 PSIG (Min)

12. SMOKELESS OPERATION SOURCE (AIR OR STEAM): **AIR**
    - STEAM PROPERTIES AVAILABLE: _____ PSIG _____ °F
    - STEAM RATE REQUIRED: _____ LB / HR
    - AIR RATE REQUIRED: _____ SCFH ☐ CONTINUOUS ☐ INTERMITTENT
    - FAN
      - TYPE: Vane Axial (Manually Adjustable) MFR: Chicago Blower or equal MODEL NO: _____
      - HP: _____ BHP _____ RPM DRIVE TYPE: Direct
    - MOTOR
      - TYPE: Induction (VFD Comp) MFR: _____ FRAME NO: _____
      - ENCLOSURE: TEAO 60 HP _____ RPM
      - VOLTS / PHASE / HERTZ 460V / 3 Phase / 60 Hz FULL LOAD AMPS: _____
      - SERVICE FACTOR: 1.15 INSULATION CLASS: _____ TEMP RISE C: _____
      - MOTOR SPACE HEATER REQUIRED: No (FOR MOTORS 200 HP OR GREATER)
      - SPACE HEATER POWER: _____ MOTOR STARTING CONDITION: _____
    - ACCESSORIES
      - A. Inlet Bell
      - B. Inlet Bird Screen
      - C. Rainsheild
      - D. Inspection Access Door

13. MISCELLANEOUS
    - A. OVERALL FLARE HEIGHT: **75 (Min)** FEET Based on Radiation levels less than 1500 BTU/HR-FT$^2$
    - B. TOTAL WEIGHT: _____ LBS
    - C. PAINT CARBON STEEL: High Heat Aluminum
    - D. CARBON STEEL CORROSION ALLOWANCE: 0.125"
    - E. FLAME DETECTION PROVIDED BY: ☒ THERMOCOUPLE (Type K) ☐ OTHER (Resonance Frequency)
    - F. ESTIMATED NOISE EMISSION _____ dBA at 100 FEET
    - G. RADIATION LEVEL AT:
      - FLARE BASE: 1850 BTU / HR-FT$^2$ Including solar radiation
      - 50' RADIUS: 2075 BTU / HR-FT$^2$ Including solar radiation
      - 100' RADIUS: 2000 BTU / HR-FT$^2$ **Including solar radiation**
      - 200' RADIUS: 1350 BTU / HR-FT$^2$ **Including solar radiation**
    - H. AIRCRAFT WARNING REQUIRED: (YES / NO) NO METHOD: _____
    - I. FIRST CRITICAL WIND SPEED VELOCITY: _____ MPH
    - J. DESTRUCTION EFFICIENCY: 99.5 %

| R | | | | |
|---|---|---|---|---|
| | A | 10/26/2011 | JMC/ | ISSUED FOR QUOTE / APPROVED BY |
| | 0 | 12/8/2011 | BTS / BTS | ISSUED FOR PURCHASE |
| E | | | | |
| | | | | |
| V | | | | |

5/24/2017 1:09 PM

# PRIMARY FLARE

BY: EMG | JOB NO: 10135 | PAGE 1 OF 2

DATE: 9/6/2016 | ITEM NO.: FL-5100 PRIMARY FLARE

CUSTOMER: Lucid Energy | P.O. 10135-2002, Rev.1

PLANT: Red Hills II | MFG: Zeeco, Inc.

SERVICE: Primary Flare

QUANTITY: 1 | SIZE: 4' - 10" DIA X 100' - 0" OAH

SAULSBURY INDUSTRIES

Texas Registered Engineering Firm F-518

Work by Saulsbury Engineering: REV. 1

| REV. | DATE | BY | APPR. | NO. | FIRM | Request for Quotation |
|---|---|---|---|---|---|---|
| IFC | 10/5/2016 | DLS | JNC | 0 | SI | 9/1/2016 EMG DLS A SI |
| | | | | | | Added PO# 5/16/2017 DLS JNC 1 SI |

| Design Cases | Cold Flare Riser (Case #1) | Cold Flare Riser (Case #2) | Warm Flare Riser (Case #1) | Warm Flare Riser (Case #2) |
|---|---|---|---|---|
| Flow Rate (Lb/Hr) | 392,000 | 267,780 | 221,526 | 352,687 |
| Relief Scenario | JT-Valve Failure | Fire - NGL Surge Tank | Refrigeration Comp. Blocked Flow | Amine Contactor Level Control Valve Failure |
| Controlling Point Sources | PSV-501 | PSV-404 | PSV-161,162,163 | PSV-(amine flash tank; tag not specified at time) |
| Molecular Weight | 17.904 | 37.64 | 44.17 | 23.34 |
| Temperature at Inlet Nozzle, ºF | -127 | 170 | 140 -190 | 65 |
| Pressure at Inlet Nozzle, PSIG | 25 | 15 | 10 | 20 |
| Smokeless Operation Required (Yes/No) | Yes | Yes, Note 3 | Yes, Note 3 | |
| Lower Heating Value, BTU/SCF | 979 | 2171 | 2318 | 1074 |
| Composition (Mol %) | | | | |
| Nitrogen | 3.667% | 0.000% | | 2.476% |
| Carbon Dioxide | 0.009% | 0.034% | | 6.998% |
| Methane | 90.837% | 1.220% | | 69.814% |
| Ethane | 5.199% | 60.161% | 0.25% | 10.966% |
| Propane | 0.281% | 26.067% | 99.00% | 5.781% |
| i-Butane | 0.003% | 2.861% | 0.75% | 0.726% |
| n-Butane | 0.004% | 6.445% | | 1.766% |
| i-Pentane | 0.000% | 1.306% | | 0.430% |
| n-Pentane | 0.000% | 1.250% | | 0.439% |
| Hexane | 0.000% | 0.480% | | 0.255% |
| Heptane | 0.000% | 0.144% | | 0.116% |
| Benzene | 0.000% | 0.000% | | 0.000% |
| Toluene | 0.000% | 0.000% | | 0.000% |
| O-Xylene | 0.000% | 0.000% | | 0.000% |
| P-Xylene | 0.000% | 0.000% | | 0.000% |
| Octanes+ | 0.000% | 0.024% | | 0.0323% |
| Water | 0.000% | 0.000% | | 0.000% |
| Hydrogren Sulfide | 0.000015% | 0.00013% | | 0.1997% |
| Flare Riser Diameter & Inlet Nozzle Size, Note 2 | By Vendor | | By Vendor | |
| Radiation Design Parameters: Temp, F / Wind, MPH | 90 / 30 | | 90 / 30 | |

Notes
1) Elevated, self-supported flare.
2) Vendor to propose optimum size of two risers
3) Smokeless rate is 20% of the warm flare design rate.
4) Flare shall be of one-piece lift/erection design for site installation.
5) Instrument air available at 85 to 125 psig.
6) Provide radiation shielding for any JB's, panels, boxes, or other electrical equipment if required to prevent operating temperature out of spec during extended release.
7) Supply heavy duty vaneaxial blower for air assist with VFD control.
8) Pressure at flare base for majority of other cases will be 5 psig or less.

# PRIMARY FLARE

| | | | | | | |
|---|---|---|---|---|---|---|
| BY: | EMG | JOB NO: | 10135 | PAGE | 2 | OF 2 |
| DATE: | 9/6/2016 | ITEM NO.: | FL-5100 PRIMARY FLARE | | | |
| CUSTOMER: | Lucid Energy | | P.O. 10135-2002, Rev.1 | | | |
| PLANT: | Red Hills II | | MFG: Zeeco, Inc. | | | |
| SERVICE: | Primary Flare | | | | | |
| QUANTITY: | 1 | SIZE: | 4' - 10" DIA X 100' - 0" OAH | | | |

SAULSBURY INDUSTRIES

Texas Registered Engineering Firm F-518

Work by Saulsbury Engineering: REV. 1

| | | | |
|---|---|---|---|
| Power Available | 460Vac 3 P 60 Hz | | |
| Control Power | 120 Vac 1 P 60 Hz | | |
| Electric Classification Area | Class 1, Div 2, Grp C,D, Temp T2B | | |
| Pilot Gas | Pipeline gas, 100 psia | | |
| Utility Gas | Pipeline Gas, 100 psia | | |
| Purge Reduction | Pipeline Gas, 100 psia | | |
| Flare Tip | By Vendor | | |
| | | | |
| Maximum Allowable Thermal Radiation, BTU/Hr/SqFt | 1750 - Note 6 | | |
| At Grade, Specify Distance from Flare Base, Ft | 100 | | |
| Stack Support | Self Supported | | |
| Structural Design Wind Velocity, MPH | 120 | | |
| Seismic Zone | 1 | | |
| Flare Knockout Drum | Supplied by Others | | |
| Design Pressure, PSIG / Temperature, F / MDMT, F | 50 / 350 / -150 | | |
| ASME Code Stamp / National Board Registration | No | | |
| Ignition Device | HEI | | |
| Enclosure | Class 1 Div 2, Grp C,D, T2B | | |
| Ladder Platforms | No | | |
| Special Instrumentation | Air Assist Flow switch | | |
| | | | |

Notes:
1) Applicable specifications: NEC NEMA AISC
2) Specifications: Piping - ASME B31.3; Welding - AWS 1.1; Structural - ASCE 7-05 / ASME STS-1-2011
3) Use pressure transmitters for all pressure instrumentation.
4) Ignition system: Manual with automatic re-light; provide temperature or optical pilot monitoring
5) Ignition device: HEI - high energy spark ignition; FFG - flame front generator
6) General documentation to include general arrangement drawings, detail flare stack drawings, ASME STS-1-2011 analysis and required foundation loads.
7) Preferred base design is a base plate, top plate and intermediate gussets.

# PRIMARY FLARE

BY: APL | JOB NO: 10357 | PAGE 1 OF 2

DATE: 10/24/2017 | ITEM NO.: FL-5100 PRIMARY FLARE

CUSTOMER: Lucid Energy

PLANT: Red Hills III MFG: Zeeco, Inc.

SERVICE: Primary Flare

QUANTITY: 1 SIZE: 4' - 10" DIA X 100' - 0" OAH

SAULSBURY INDUSTRIES

Texas Registered Engineering Firm F-518

Work by Saulsbury Engineering: REV. 1

| Design Cases | Cold Flare Riser (Case #1) | Cold Flare Riser (Case #2) | Warm Flare Riser (Case #1) | Warm Flare Riser (Case #2) |
|---|---|---|---|---|
| Flow Rate (Lb/Hr) | 392,000 | 267,780 | 221,526 | 352,687 |
| Relief Scenario | JT-Valve Failure | Fire - NGL Surge Tank | Refrigeration Comp. Blocked Flow | Amine Contactor Level Control Valve Failure |
| Controlling Point Sources | PSV-501 | PSV-404 | PSV-161,162,163 | PSV-0101 |
| Molecular Weight | 17.904 | 37.64 | 44.17 | 23.34 |
| Temperature at Inlet Nozzle, ºF | -127 | 170 | 140 -190 | 65 |
| Pressure at Inlet Nozzle, PSIG | 25 | 15 | 10 | 20 |
| Smokeless Operation Required (Yes/No) | Yes | Yes, Note 3 | Yes, Note 3 | |
| Lower Heating Value, BTU/SCF | 979 | 2171 | 2318 | 1074 |
| Composition (Mol %) | | | | |
| Nitrogen | 3.667% | 0.000% | | 2.476% |
| Carbon Dioxide | 0.009% | 0.034% | | 6.998% |
| Methane | 90.837% | 1.220% | | 69.814% |
| Ethane | 5.199% | 60.161% | 0.25% | 10.966% |
| Propane | 0.281% | 26.067% | 99.00% | 5.781% |
| i-Butane | 0.003% | 2.861% | 0.75% | 0.726% |
| n-Butane | 0.004% | 6.445% | | 1.766% |
| i-Pentane | 0.000% | 1.306% | | 0.430% |
| n-Pentane | 0.000% | 1.250% | | 0.439% |
| Hexane | 0.000% | 0.480% | | 0.255% |
| Heptane | 0.000% | 0.144% | | 0.116% |
| Benzene | 0.000% | 0.000% | | 0.000% |
| Toluene | 0.000% | 0.000% | | 0.000% |
| O-Xylene | 0.000% | 0.000% | | 0.000% |
| P-Xylene | 0.000% | 0.000% | | 0.000% |
| Octanes+ | 0.000% | 0.024% | | 0.0323% |
| Water | 0.000% | 0.000% | | 0.000% |
| Hydrogren Sulfide | 0.000015% | 0.00013% | | 0.1997% |
| Flare Riser Diameter & Inlet Nozzle Size, Note 2 | By Vendor | | By Vendor | |
| Radiation Design Parameters: Temp, F / Wind, MPH | 90 / 30 | | 90 / 30 | |

| REV. | DATE | BY | APPR. | NO. | FIRM |
|---|---|---|---|---|---|
| IFC | 1/9/2018 | DLS | APL | 0 | SI |
| Request for Quotation | 10/24/2017 | APL | DLS | A | SI |
| As Built | 6/20/2018 | DLS | SH | 1 | SI |

Notes
1) Elevated, self-supported flare.
2) Vendor to propose optimum size of two risers
3) Smokeless rate is 20% of the warm flare design rate.
4) Flare shall be of one-piece lift/erection design for site installation.
5) Instrument air available at 85 to 125 psig.
6) Provide radiation shielding for any JB's, panels, boxes, or other electrical equipment if required to prevent operating temperature out of spec during extended release.
7) Supply heavy duty vaneaxial blower for air assist with VFD control.
8) Pressure at flare base for majority of other cases will be 5 psig or less.

# PRIMARY FLARE

BY: APL JOB NO: 10357 PAGE 2 OF 2

DATE: 10/24/2017 ITEM NO.: FL-5100 PRIMARY FLARE

CUSTOMER: Lucid Energy

PLANT: Red Hills III MFG: Zeeco, Inc.

SERVICE: Primary Flare

QUANTITY: 1 SIZE: 4' - 10" DIA X 100' - 0" OAH

SAULSBURY INDUSTRIES

Texas Registered Engineering Firm F-518

Work by Saulsbury Engineering: REV. 1

| | | | |
|---|---|---|---|
| Power Available | 460Vac 3 P 60 Hz | | |
| Control Power | 120 Vac 1 P 60 Hz | | |
| Electric Classification Area | Class 1, Div 2, Grp C,D, Temp T2B | | |
| Pilot Gas | Pipeline gas, 100 psia | | |
| Utility Gas | Pipeline Gas, 100 psia | | |
| Purge Reduction | Pipeline Gas, 100 psia | | |
| Flare Tip | By Vendor | | |
| | | | |
| Maximum Allowable Thermal Radiation, BTU/Hr/SqFt | 1750 - Note 6 | | |
| At Grade, Specify Distance from Flare Base, Ft | 100 | | |
| Stack Support | Self Supported | | |
| Structural Design Wind Velocity, MPH | 120 | | |
| Seismic Zone | 1 | | |
| Flare Knockout Drum | Supplied by Others | | |
| Design Pressure, PSIG / Temperature, F / MDMT, F | 50 / 350 / -150 | | |
| ASME Code Stamp / National Board Registration | No | | |
| Ignition Device | HEI | | |
| Enclosure | Class 1 Div 2, Grp C,D, T2B | | |
| Ladder Platforms | No | | |
| Special Instrumentation | Air Assist Flow switch | | |
| | | | |

Notes:
1) Applicable specifications: NEC NEMA AISC
2) Specifications: Piping - ASME B31.3; Welding - AWS 1.1; Structural - ASCE 7-05 / ASME STS-1-2011
3) Use pressure transmitters for all pressure instrumentation.
4) Ignition system: Manual with automatic re-light; provide temperature or optical pilot monitoring
5) Ignition device: HEI - high energy spark ignition; FFG - flame front generator
6) General documentation to include general arrangement drawings, detail flare stack drawings, ASME STS-1-2011 analysis and required foundation loads.
7) Preferred base design is a base plate, top plate and intermediate gussets.

# PRIMARY FLARE

BY: APL | JOB NO: 10507 | PAGE 1 OF 2

DATE: 9/24/2018 | ITEM NO.: FL-45100 | P&ID: P04-4501

CUSTOMER: Lucid Energy | RFQ: 10507-011

PLANT: Red Hills IV | PO: 10507-128182

SERVICE: Primary Flare

QUANTITY: 1 SIZE: 4' - 10" DIA X 100' - 0" OAH

SAULSBURY

Texas Registered Engineering Firm F-518

Work by Saulsbury Engineering: Rev 1 As-Built

| Design Cases | Cold Flare Riser (Case #1) | Cold Flare Riser (Case #2) | Warm Flare Riser (Case #1) | Warm Flare Riser (Case #2) |
|---|---|---|---|---|
| Flow Rate (Lb/Hr) | 392,000 | 267,780 | 221,526 | 352,687 |
| Relief Scenario | JT-Valve Failure | Fire - NGL Surge Tank | Refrigeration Comp. Blocked Flow | Amine Contactor Level Control Valve Failure |
| Controlling Point Sources | PSV-501 | PSV-404 | PSV-161,162,163 | PSV-0101 |
| Molecular Weight | 17.904 | 37.64 | 44.17 | 23.34 |
| Temperature at Inlet Nozzle, ºF | -127 | 170 | 140 -190 | 65 |
| Pressure at Inlet Nozzle, PSIG | 25 | 15 | 10 | 20 |
| Smokeless Operation Required (Yes/No) | Yes | Yes, Note 3 | Yes, Note 3 | |
| Lower Heating Value, BTU/SCF | 979 | 2171 | 2318 | 1074 |
| Composition (Mol %) | | | | |
| Nitrogen | 3.667% | 0.000% | | 2.476% |
| Carbon Dioxide | 0.009% | 0.034% | | 6.998% |
| Methane | 90.837% | 1.220% | | 69.814% |
| Ethane | 5.199% | 60.161% | 0.25% | 10.966% |
| Propane | 0.281% | 26.067% | 99.00% | 5.781% |
| i-Butane | 0.003% | 2.861% | 0.75% | 0.726% |
| n-Butane | 0.004% | 6.445% | | 1.766% |
| i-Pentane | 0.000% | 1.306% | | 0.430% |
| n-Pentane | 0.000% | 1.250% | | 0.439% |
| Hexane | 0.000% | 0.480% | | 0.255% |
| Heptane | 0.000% | 0.144% | | 0.116% |
| Benzene | 0.000% | 0.000% | | 0.000% |
| Toluene | 0.000% | 0.000% | | 0.000% |
| O-Xylene | 0.000% | 0.000% | | 0.000% |
| P-Xylene | 0.000% | 0.000% | | 0.000% |
| Octanes+ | 0.000% | 0.024% | | 0.0323% |
| Water | 0.000% | 0.000% | | 0.000% |
| Hydrogen Sulfide | 0.000015% | 0.00013% | | 0.1997% |
| Flare Riser Diameter & Inlet Nozzle Size, Note 2 | A312-Type 304 SS, 16" OD; 150# RFWN Flange | | A53-B ERW CS, 14" OD; 150# RFWN Flange | |
| Radiation Design Parameters: Temp, F / Wind, MPH | 90 / 30 | | 90 / 30 | |

| REV. | DATE | BY | APPR. | NO. | FIRM |
|---|---|---|---|---|---|
| Request for Quotation | 9/24/2018 | APL | GLM | A | SI |
| Issue For Information | 4/17/2019 | MTM | | 0 | SI |
| As-Built | 8/8/2019 | DK | MTM | 1 | SI |

Notes
1) Elevated, self-supported flare.
2) Vendor to propose optimum size of two risers
3) Smokeless rate is 20% of the warm flare design rate.
4) Flare shall be of one-piece lift/erection design for site installation.
5) Instrument air available at 85 to 125 psig.
6) Provide radiation shielding for any JB's, panels, boxes, or other electrical equipment if required to prevent operating temperature out of spec during extended release.
7) Supply heavy duty vaneaxial blower for air assist with VFD control. Aerovent VJ-54D6-43°, Design 47, 54"; with 50 HP TEFC Motor, 1200 / 1800 RPM
8) Pressure at flare base for majority of other cases will be 5 psig or less.

Vendor: Zeeco

# PRIMARY FLARE

| | | | | | |
|---|---|---|---|---|---|
| BY: | APL | JOB NO: 10507 | PAGE 2 | OF 2 | |
| DATE: | 9/24/2018 | ITEM NO.: FL-45100 | P&ID: | P04-4501 | |
| CUSTOMER: | Lucid Energy | | RFQ: | 10507-011 | |
| PLANT: | Red Hills IV | | PO: | 10507-128182 | |
| SERVICE: | Primary Flare | | | | |
| QUANTITY: | 1 | SIZE: 4' - 10" DIA X 100' - 0" OAH | | | |

SAULSBURY

Texas Registered Engineering Firm F-518

Work by Saulsbury Engineering: Rev 1 As-Built

| | | | |
|---|---|---|---|
| Power Available | 460Vac 3 P 60 Hz | | |
| Control Power | 120 Vac 1 P 60 Hz | | |
| Electric Classification Area | Class 1, Div 2, Grp C,D, Temp T2B | | |
| Pilot Gas | Pipeline gas, 100 psia | 65 SCFH @ 15 PSIG per Pilot | (3) Pilots |
| Utility Gas | Pipeline Gas, 100 psia | | |
| Purge Reduction ( Velocity Seal) | Pipeline Gas, 100 psia | 290 SCFH Warm; 980 SCFH Cold | |
| Flare Tip AFDSMJW-14-16/58 (with Windshield) | By Vendor | 4'-10" OD x 10"-0"; 6680 LBS | A-240 310 SS / A-36 CS |
| | | | |
| Maximum Allowable Thermal Radiation, BTU/Hr/SqFt | 1750 - Note 6 (Page 1) | | |
| At Grade, Specify Distance from Flare Base, Ft | 100 | | |
| Stack Support | Self Supported | | |
| Structural Design Wind Velocity, MPH | 120 | | |
| Seismic Zone | 1 | | |
| Flare Knockout Drum | Supplied by Others | | |
| Design Pressure, PSIG / Temperature, F / MDMT, F | Cold Flare Riser 50 / +350 / -150 | Warm Flare Riser 50 / +350 / -20 | |
| ASME Code Stamp / National Board Registration | No | | |
| Ignition Device | HEI | | |
| Enclosure | Class 1 Div 2, Grp C,D, T2B | | |
| Ladder Platforms | No | | |
| Special Instrumentation | Air Assist Flow switch | | |
| Flare Stack with Flare Tip | 58" OD x 100' OAH | Flare Stack Air Riser A-36 CS | |

Notes:
1) Applicable specifications: NEC NEMA AISC
2) Specifications: Piping - ASME B31.3; Welding - AWS 1.1; Structural - ASCE 7-05 / ASME STS-1-2011
3) Use pressure transmitters for all pressure instrumentation.
4) Ignition system: Manual with automatic re-light; provide temperature or optical pilot monitoring
5) Ignition device: HEI - high energy spark ignition; FFG - flame front generator
6) General documentation to include general arrangement drawings, detail flare stack drawings, ASME STS-1-2011 analysis and required foundation loads.
7) Preferred base design is a base plate, top plate and intermediate gussets.
8) Carbon Steel Corrosion Allowance: 0.0625"
9) Paint: Air Riser Carbon Steel External Surfaces - SSPC-SP6 Surface Preparation; Inorganic Zink Primer; High Heat Aluminum Finish
Utility Piping Carbon Steel External Surfaces - SSPC-SP6 Surface Preparation; Inorganic Zink Primer; High Heat Aluminum Finish
Air Riser Skirt Carbon Steel Internal Surfaces - SSPC-SP6 Surface Preparation; Inorganic Zink Primer
Warm Gas Riser Carbon Steel External Surfaces - SSPC-SP6 Surface Preparation; Inorganic Zink Primer
10) Weight: 48,900 lbs.

# PRIMARY FLARE

BY: JNH | JOB NO: 10618 | PAGE 1 OF 2

DATE: 8/22/2019 | ITEM NO.: FL-55100 | P&ID: P04-5501

CUSTOMER: Lucid Energy | RFQ: 10618-025

PLANT: Red Hills V | PO: 10618-139867

SAULSBURY

SERVICE: Primary Flare

QUANTITY: 1 SIZE: 11'-0" OD x 199' OAH

Texas Registered Engineering Firm F-518

Work by Saulsbury Engineering: Rev As Built

| REV. | Issue For Purchase | Request for Quotation |
|---|---|---|
| DATE | 9/16/2019 | 8/22/2019 |
| BY | MTM | JNH |
| APPR. | AL | MTM |
| NO. | 0 | A |
| FIRM | SI | SI |
| REV. | As Built | Revised Per New Flare Design |
| DATE | 11/24/2020 | 10/11/2019 |
| BY | MTM | TH |
| APPR. | | MSG |
| NO. | 2 | 1 |
| FIRM | SI | SI |

| Design Cases | Cold Flare Riser (Case #1) | Cold Flare Riser (Case #2) | Warm Flare Riser (Case #1) | Warm Flare Riser (Case #2) |
|---|---|---|---|---|
| Flow Rate (Lb/Hr) | 1,052,040 | 535,560 | 221,526 | 352,687 |
| Relief Scenario | Power Failure | Fire - NGL Surge Tank | Refrigeration Comp. Blocked Flow | Amine Contactor Level Control Valve Failure |
| Controlling Point Sources | PSV-5501/6501 | PSV-5404/6404 | PSV-5161,5162,5163 | PSV-50101 |
| Molecular Weight | 21.22 | 37.64 | 44.17 | 23.34 |
| Temperature at Inlet Nozzle, ºF | 9 | 170 | 140 -190 | 65 |
| Pressure at Inlet Nozzle, PSIG | 40 | 30 | 15 | 20 |
| Smokeless Operation Required (Yes/No) | Yes, Note 3 | Yes, Note 3 | Yes, Note 3 | |
| Lower Heating Value, BTU/SCF | 1105 | 2171 | 2318 | 1074 |
| Composition (Mol %) | | | | |
| Nitrogen | 2.697% | 0.000% | | 2.476% |
| Carbon Dioxide | 1.009% | 0.034% | | 6.998% |
| Methane | 75.951% | 1.220% | | 69.814% |
| Ethane | 11.673% | 60.161% | 0.25% | 10.966% |
| Propane | 5.817% | 26.067% | 99.00% | 5.781% |
| i-Butane | 0.662% | 2.861% | 0.75% | 0.726% |
| n-Butane | 1.496% | 6.445% | | 1.766% |
| i-Pentane | 0.288% | 1.306% | | 0.430% |
| n-Pentane | 0.266% | 1.250% | | 0.439% |
| Hexane | 0.086% | 0.480% | | 0.255% |
| Heptane | 0.020% | 0.144% | | 0.116% |
| Benzene | 0.000% | 0.000% | | 0.000% |
| Toluene | 0.000% | 0.000% | | 0.000% |
| O-Xylene | 0.000% | 0.000% | | 0.000% |
| P-Xylene | 0.000% | 0.000% | | 0.000% |
| Octanes+ | 0.000% | 0.024% | | 0.0323% |
| Water | 0.000% | 0.000% | | 0.000% |
| Hydrogren Sulfide | 0.000% | 0.000% | | 0.200% |
| Flare Riser Diameter & Inlet Nozzle Size, Note 2 | 26" 150# ANSI 304 SS | | 20" 150# ANSI A105 CS | |
| Radiation Design Parameters: Temp, F / Wind, FPS | 100 / 30 | | 100 / 30 | |

Notes
1) Elevated, self-supported flare.
2) Vendor to propose optimum size of two risers
3) Smokeless rate is 20% of the maximum design case
4) Flare shall be of one-piece lift/erection design for site installation.
5) Instrument air available at 85 to 125 psig.
6) Provide radiation shielding for any JB's, panels, boxes, or other electrical equipment if required to prevent operating temperature out of spec during extended release.
7) Supply heavy duty vaneaxial blower(s) for air assist with VFD control.
8) Pressure at flare base for majority of other cases will be 5 psig or less.

# PRIMARY FLARE

| | | | | | |
|---|---|---|---|---|---|
| BY: | JNH | JOB NO: 10618 | PAGE 2 | OF 2 | |
| DATE: | 8/22/2019 | ITEM NO.: FL-55100 | P&ID: P04-5501 | | |
| CUSTOMER: | Lucid Energy | | RFQ: 10618-025 | | |
| PLANT: | Red Hills V | | PO: 10618-139867 | | |
| SERVICE: | Primary Flare | | | | |
| QUANTITY: | 1 | SIZE: 11'-0" OD x 199' OAH | | | |

SAULSBURY

Texas Registered Engineering Firm F-518

Work by Saulsbury Engineering: Rev As Built

| | | | |
|---|---|---|---|
| Power Available | 460 VAC 3 P 60 Hz | | |
| Control Power | 120 VAC 1 P 60 Hz | | |
| Electric Classification Area | Class 1, Div 2, Grp C,D, Temp T2B | | |
| Pilot Gas | Fuel Gas, 100 psig | | |
| Utility Gas | Fuel Gas, 100 psig | | |
| Purge Reduction | Fuel Gas, 100 psig | | |
| Flare Tip | By Vendor | | |
| | | | |
| Maximum Allowable Thermal Radiation, BTU/Hr/SqFt | 1750 - Note 6 | | |
| At Grade, Specify Distance from Flare Base, Ft | 100 | | |
| Stack Support | Self Supported | | |
| Structural Design Wind Velocity, MPH | 120 | | |
| Seismic Zone | 1 | | |
| Flare Knockout Drum | Supplied by Others | | |
| Design Pressure, PSIG / Temperature, F / MDMT, F | 75 / 350 / -150 | | |
| ASME Code Stamp / National Board Registration | No | | |
| Ignition Device (Note 5) | HEI | FFG Backup | |
| Enclosure | Class 1 Div 2, Grp C,D, T2B | | |
| Ladder Platforms | No | | |
| Special Instrumentation | 1 redundant pilot | | |

Notes:
1) Applicable specifications: NEC NEMA AISC
2) Specifications: Piping - ASME B31.3; Welding - AWS 1.1; Structural - ASCE 7-latest / ASME STS-1-Latest
3) Height should not exceed 199'-0" if possible.
4) Ignition system: Manual with automatic re-light; provide temperature or optical pilot monitoring
5) Ignition device: HEI - high energy spark ignition; FFG - flame front generator
6) General documentation to include general arrangement drawings, detail flare stack drawings, ASME STS-1-Latest analysis and required foundation loads.
7) Preferred base design is a base plate, top plate and intermediate gussets.
8) Both warm and cold inlet nozzles to be able to handle at least 2x API 537 standard allowable nozzle loads.

HERO Flare
FLARES • THERMAL OXIDIZERS • COMBUSTORS

14842 N Maple Drive
Kellyville, OK 74039
918 941 2166
www.heroflare.com

Targa Resources

*Rev 0: 9/30/24*
Flare Technology: Air Assist
Smokeless: Yes
Flare Model: G50A13

**Project Reference**: Red Hills Smokeless Flare

Hero Flare is pleased to have the opportunity to provide a firm proposal for the supply of our A+ Series smokeless flare technology. We took our proven air assist smokeless technology and made it even better by achieving higher smokeless capacities at a lower cost.

The A+ series technology is fully Quad O compliant. Our systems come complete with our Hotspot Ignition ™ System which is a high stability pilot that can operate in the most extreme conditions. In addition, all flare systems are provided with a blower VFD to maximize efficiency smokeless capacity across the full operating range.

The Hero Flare system offers the following:

- 40 CFR 60.18 EPA Compliant.
- 98% Destruction Efficiency.
- Continuously Monitored Pilot Ignition System with automatic re-light.
- Blower VFD allows for optimal energy and combustion efficiency to avoid EPA violations.

We look forward to working with you as this project progresses.

Best regards,

**Craig Rosencutter**
Office: (918) 941-2166 Ext. 101
Cell: (918) 344-4335
Email: craig.rosencutter@heroflare.com

**Garrett Consedine**
Office: (918) 941-2166 Ext. 114
Cell: (918) 948-4647
Email: garrett.consedine@heroflare.com

*Committed to providing reliable technology that you can count on!*

HOTSPOT IGNITION™
Most Reliable Flare Pilot Technology Available *Offered by HERO Flare*

A+ SERIES SMOKELESS FLARE
QUAD O Compliant Elevated Flare Technology *Offered by HERO Flare*

# Design Data Sheet

## Design Flow Rate

| Flow Rate Case | Flow Rate (SCFD) | Molecular Weight | Lower Heating Value (Btu/SCF) | Pressure | Temp. (°F) |
|---|---|---|---|---|---|
| LP Inlet: Smokeless Flow Rate | 3 to 200,000 | 30-40 | 1,600 to 2,000 | < 3oz/in²* | Amb. |

*Does not include pressure drop across arrestor
Important Note: Assist Gas is required for this composition to maintain 3-5 MSCFD (125-208 SCFH).

## Site Conditions

| | | | | | |
|---|---|---|---|---|---|
| Wind | 120 MPH | Temperature | 0 to 120 °F | Elevation | 14.5 Psi |

## Site Utilities Required

| | | |
|---|---|---|
| Pilot Gas (per pilot) | Natural Gas: 55 scfh @ 18 psig OR Propane: 25 scfh @ 9 psig (Clean, dry gas) | |
| Plant Air | No Plant Air Required | |
| Pilot Panel Electricity | 120V / 1 Phase / 10 Amps is required to operate pilot ignition system | |
| Blower / VFD Electricity | 240VAC / 3 Phase / 3 Amps | Blower Size: 1 HP |

## Emission / Flare Performance

| | |
|---|---|
| Destruction | A 98% or greater hydrocarbon destruction efficiency will be achieved |
| Smokeless Rate | 100% Smokeless |
| Max Radiation | Less than 500 Btu/hr/SF |
| Tip Velocity | Meets EPA regulations over full operating range |

## Pilot Construction

| | |
|---|---|
| Electrical / Classification | 120VAC / Non-classified area |
| Control Panel Type | Nema 4 (Painted) |
| Pilot(s) | One (1) Stainless Steel Gas Pilot with Easy Glide Retraction System |
| Pilot Construction | Stainless Steel |
| Pilot Monitoring | Type K Thermocouple |
| Pilot Gas Connection | ½" FNPT Located at Base of Flare |

## Flare Construction

| Component | Dimension | Material |
|---|---|---|
| Stack Height | 50' | A53B |
| Flare tip | 2' Long | Stainless |
| Tank Vapor Flare Inlet | 3" Flanged | Carbon |

# Manufacturer Specification Sheets

Thermal Oxidizer Specification Sheets

- RH2-TO-5500
- RH4-TO-45500
- RH5-TO-55500

Zeeco, Inc.

# INSTALLATION & OPERATION MANUAL

FOR: SAULSBURY INDUSTRIES, INC. & LUCID ENERGY

PROJECT: THERMAL OXIDIZER, TO-5500

LOCATION: RED HILLS II, LEA COUNTY, NM

EQUIPMENT: VERTICAL THERMAL OXIDIZER SKID

SI PURCHASE ORDER: 10135-66364

DOCUMENT NO.: 30343-8120, REV.0

| Rev | Prepared By | Checked By | Date | Description |
|---|---|---|---|---|
| 0 | JR | BF | 03/13/2017 | FOR INFORMATION |
| | | | | |
| | | | | |

# 1.0 INTRODUCTION

## 1.1 Summary of Scope of Supply

The vertical thermal oxidizer is intended to oxidize the combustibles present in the specified waste stream. This is understood to apply only when the system is operated in accordance with the operating conditions stipulated in the design summary and for the waste(s) in Section 1.2.1 below.

The firing rate of the system is controlled by maintaining a specified operating temperature inside of the thermal oxidizer while the waste gas flow rates fluctuate. Efficient destruction of the waste is achieved at a thermal oxidizer operating temperature set point controlled at approximately 1,600 $^{o}$F. The temperature works in conjunction with the thermal oxidizer volume and its associated residence time to achieve the efficient destruction of the waste gas stream.

The thermal oxidizer design includes internal shop installed refractory insulation. The selected materials are designed for a long, trouble-free operating lifetime. The list below summarizes the services and equipment provided in Zeeco's supply.

One (1) Thermal Oxidizer Package Including:

- One (1) Vertical Thermal Oxidizer w/ Integral Stack (10'-0" O.D. x 76'-0" OAH)
- Shop Installed Refractory Lining
- One (1) GB Style Burner
- One (1) Fuel Control Rack w/ Local Control Panel
- One (1) Combustion Air Fan w/ Ducting

## 1.2 Process Description

The vertical forced draft thermal oxidizer is equipped with one (1) forced draft fuel gas GB-Series burner. When the purge cycle is complete, the burner pilot is ignited via electric ignition. Once the burner pilot flame is proven, the main burner flame is ignited. The thermal oxidizer is then allowed to achieve a waste permissive temperature of 1,600 $^{o}$F, following the recommended field cure procedures and schedule in APPENDIX D. Waste gas is then injected around the burner via the inlet nozzle. This high temperature accompanied with thermal oxidizer volume, known as residence time, destroys the hydrocarbon constituents of the waste gas stream. The flue gases from the thermal oxidizer then exits to atmosphere.

A temperature controller (supplied by others in DCS) monitors the combustion product's temperature through a thermocouple input and modulates both the fuel gas and combustion air flows into the burner. This ensures that sufficient temperature is maintained to provide complete destruction of varying waste gas compositions.

The fuel gas alone is used for start-up, burner stability, and refractory cure. The normal heat release for burner stability on fuel gas is ~82 MM BTU/HR. When more heat is needed for refractory curing, or if the heat produced by the combustion of the waste gas during operation is not sufficient to maintain a thermal oxidizer temperature of 1,600 $^{o}$F, a maximum fuel gas heat release of 90 MM BTU/HR is available from the burner.

Combustion air is supplied by the blower. All air enters the thermal oxidizer through the burner via the combustion air nozzle (N9) located on the thermal oxidizer. The flue gas exits the vent stack at an elevation of 76 feet.

### 1.2.1 Process Design Conditions (Design Case) for Waste Streams

| **Acid Gas Stream: Normal Operating Conditions** | | | | **Glycol System OVHD Stream** | | |
|---|---|---|---|---|---|---|
| Temperature | 120 | °F | | Temperature | 120 | °F |
| Pressure (at Still Column) | 8 | psig | | Pressure (at Still Column) | 1 | psig |
| Flow Rate | 21.40 | MMSCFD | | Flow Rate | 0.03 | MMSCFD |
| | 891,750.0 | SCFH | | | 1,091.7 | SCFH |
| | | | | | | |
| Mol. Wt. | 41.5135 | | | Mol. Wt. | 49.255 | |
| Mass Flow Rate | 97,552 | lb/hr | | Mass Flow Rate | 141.43 | lb/hr |
| Gross Heating Value (HHV) | 23.64 | BTU/SCF | | Gross Heating Value (HHV) | 2,648 | BTU/SCF |
| Net Heating Value (LHV) | 17.83 | BTU/SCF | | Net Heating Value (LHV) | 2435 | BTU/SCF |
| | | | | | | |
| Gas Composition | | | | Gas Composition | | |
| Carbon Dioxide | 88.78 | mol% | | Carbon Dioxide | 0.09126 | mol% |
| Hydrogen Sulfide | 2.552 | mol% | | Hydrogen Sulfide | 0.00146 | mol% |
| Nitrogen | 0.00053 | mol% | | Nitrogen | 0.03141 | mol% |
| Methane | 0.1614 | mol% | | Methane | 11.34145 | mol% |
| Ethane | 0.0501 | mol% | | Ethane | 14.14543 | mol% |
| Propane | 0.0156 | mol% | | Propane | 19.03921 | mol% |
| i-Butane | 0.0011 | mol% | | i-Butane | 2.74371 | mol% |
| n-Butane | 0.00502 | mol% | | n-Butane | 11.84171 | mol% |
| i-Pentane | 0.00023 | mol% | | i-Pentane | 5.32271 | mol% |
| n-Pentane | 0.00041 | mol% | | n-Pentane | 6.96234 | mol% |
| Hexane | 0.0001432 | mol% | | Hexane | 7.36443 | mol% |
| Heptane | 0.000015 | mol% | | Heptane | 6.01695 | mol% |
| n-Octane | 0.0000058 | mol% | | n-Octane | 2.36336 | mol% |
| Water | 8.43102384 | mol% | | Water | 12.70755 | mol% |

### 1.2.2 System Performance

| **Stack Emission** | **Expected Performance** |
|---|---|
| Destruction Efficiency | > 99.9% of all Hydrocarbons |
| NOx, $ppm_{vd}$ @ 3% O2 | 50 |
| CO, $ppm_{vd}$ @ 3% O2 | 50 |

**Note:** These values are understood to apply only when the system is operated in accordance with the above operating conditions and waste(s) stipulated in section 1.2.1 above, and design temperature.

### 1.2.3 Combustion Air Performance

Reference AirPro Fan vendor literature in APPENDIX G for combustion air blower performance curve information.

### 1.2.4 Burner Performance

Zeeco, Inc.

# INSTALLATION & OPERATION MANUAL

FOR: SAULSBURY INDUSTRIES, INC. & LUCID ENERGY

PROJECT: THERMAL OXIDIZER, TO-45500

LOCATION: RED HILLS II, LEA COUNTY, NM

EQUIPMENT: VERTICAL THERMAL OXIDIZER SKID

SI PURCHASE ORDER: 10507-128390

DOCUMENT NO.: 37954-8120, REV.0

| Rev | Prepared By | Checked By | Date | Description |
|---|---|---|---|---|
| 0 | JR | TSL | 07/16/2019 | FOR INFORMATION |
| | | | | |
| | | | | |

# 1.0 INTRODUCTION

## 1.1 Summary of Scope of Supply

The vertical thermal oxidizer is intended to oxidize the combustibles present in the specified waste stream. This is understood to apply only when the system is operated in accordance with the operating conditions stipulated in the design summary and for the waste(s) in Section 1.2.1 below.

The firing rate of the system is controlled by maintaining a specified operating temperature inside of the thermal oxidizer while the waste gas flow rates fluctuate. Efficient destruction of the waste is achieved at a thermal oxidizer operating temperature set point controlled at approximately 1,600 °F. The temperature works in conjunction with the thermal oxidizer volume and its associated residence time to achieve the efficient destruction of the waste gas stream.

The thermal oxidizer design includes internal shop installed refractory insulation. The selected materials are designed for a long, trouble-free operating lifetime. The list below summarizes the services and equipment provided in Zeeco's supply.

One (1) Thermal Oxidizer Package Including:

- One (1) Vertical Thermal Oxidizer w/ Integral Stack (10'-0" O.D. x 76'-0" OAH)
- Shop Installed Refractory Lining
- One (1) GB Style Burner
- One (1) Fuel Control Rack w/ Local Control Panel
- One (1) Combustion Air Fan w/ Ducting

## 1.2 Process Description

The vertical forced draft thermal oxidizer is equipped with one (1) forced draft fuel gas GB-Series burner. When the purge cycle is complete, the burner pilot is ignited via electric ignition. Once the burner pilot flame is proven, the main burner flame is ignited. The thermal oxidizer is then allowed to achieve a waste permissive temperature of 1,600 °F, following the recommended field cure procedures and schedule in APPENDIX D. Waste gas is then injected around the burner via the inlet nozzle. This high temperature accompanied with thermal oxidizer volume, known as residence time, destroys the hydrocarbon constituents of the waste gas stream. The flue gases from the thermal oxidizer then exits to atmosphere.

A temperature controller (supplied by others in DCS) monitors the combustion product's temperature through a thermocouple input and modulates both the fuel gas and combustion air flows into the burner. This ensures that sufficient temperature is maintained to provide complete destruction of varying waste gas compositions.

The fuel gas alone is used for start-up, burner stability, and refractory cure. The normal heat release for burner stability on fuel gas is ~59 MM BTU/HR. When more heat is needed for refractory curing, or if the heat produced by the combustion of the waste gas during operation is not sufficient to maintain a thermal oxidizer temperature of 1,600 °F, a maximum fuel gas heat release of 80 MM BTU/HR is available from the burner.

Combustion air is supplied by the blower. All air enters the thermal oxidizer through the burner via the combustion air nozzle (N9) located on the thermal oxidizer. The flue gas exits the vent stack at an elevation of 76 feet.

### 1.2.1 Process Design Conditions (Design Case) for Waste Streams

| **Acid Gas Stream: Normal Operating Conditions (note 4)** | | |
|---|---|---|
| Temperature | 120 | °F |
| Pressure (at Still Column) | 8 | psig |
| Flow Rate | 15.52 | MMSCFD |
| | 646,716.7 | SCFH |
| | | |
| Mol. Wt. | 41.6885 | |
| Mass Flow Rate | 74,750 | lb/hr |
| Gross Heating Value (HHV) | 38.63 | BTU/SCF |
| Net Heating Value (LHV) | 410.259 | BTU/SCF |
| | | |
| Gas Composition | | |
| Carbon Dioxide | 90.955600 | mol% |
| Hydrogen Sulfide | 0.000000 | mol% |
| Nitrogen | 0.001192 | mol% |
| Methane | 0.403197 | mol% |
| Ethane | 0.150558 | mol% |
| Propane | 0.045237 | mol% |
| i-Butane | 0.002940 | mol% |
| n-Butane | 0.013719 | mol% |
| i-Pentane | 0.000762 | mol% |
| n-Pentane | 0.001150 | mol% |
| Hexane | 0.000294 | mol% |
| Heptane | 0.000023 | mol% |
| Cyclopentane | 0.000000 | mol% |
| Cyclohexane | 0.000000 | mol% |
| Methylcyclohexane | 0.000000 | mol% |
| 2,2,4-Trimethylpentane | 0.000000 | mol% |
| n-Octane | 0.000004 | mol% |
| Water | 8.425343 | mol% |
| | | |
| Benzene | 0.000000 | mol% |
| Toluene | 0.000000 | mol% |
| Ethylbenzene | 0.000000 | mol% |
| p-Xylene | 0.000000 | mol% |
| o-Xylene | 0.000000 | mol% |

| **Glycol System OVHD Stream** | | |
|---|---|---|
| Temperature | 120 | °F |
| Pressure (at Still Column) | 1 | psig |
| Flow Rate | 0.03 | MMSCFD |
| | 1,175.0 | SCFH |
| | | |
| Mol. Wt. | 44.0945 | |
| Mass Flow Rate | 154.10 | lb/hr |
| Gross Heating Value (HHV) | 2,180 | BTU/SCF |
| Net Heating Value (LHV) | 2397 | BTU/SCF |
| | | |
| Gas Composition | | |
| Carbon Dioxide | 0.075918 | mol% |
| Hydrogen Sulfide | 0.000000 | mol% |
| Nitrogen | 0.025841 | mol% |
| Methane | 11.808588 | mol% |
| Ethane | 17.076163 | mol% |
| Propane | 23.551844 | mol% |
| i-Butane | 3.134154 | mol% |
| n-Butane | 12.962193 | mol% |
| i-Pentane | 4.977922 | mol% |
| n-Pentane | 6.242762 | mol% |
| Hexane | 4.408814 | mol% |
| Heptane | 2.429908 | mol% |
| Cyclopentane | 0.000000 | mol% |
| Cyclohexane | 0.000000 | mol% |
| Methylcyclohexane | 0.000000 | mol% |
| 2,2,4-Trimethylpentane | 0.000000 | mol% |
| n-Octane | 0.576862 | mol% |
| Water | 12.726965 | mol% |
| | | |
| Benzene | 0.000000 | mol% |
| Toluene | 0.000000 | mol% |
| Ethylbenzene | 0.000000 | mol% |
| m-Xylene | 0.000000 | mol% |
| o-Xylene | 0.000000 | mol% |

### 1.2.2 System Performance

| Stack Emission | Expected Performance |
|---|---|
| Destruction Efficiency | > 99.5% of all VOCs |

**Note:** These values are understood to apply only when the system is operated in accordance with the above operating conditions and waste(s) stipulated in section 1.2.1 above, and design temperature.

### 1.2.3 Combustion Air Performance

Reference AirPro Fan vendor literature in APPENDIX G for combustion air blower performance curve information.

Zeeco, Inc.

# INSTALLATION & OPERATION MANUAL

FOR: LUCID ENERGY GROUP

PROJECT: RED HILLS V, TO-55500

LOCATION: JAL, NM

EQUIPMENT: VERTICAL THERMAL OXIDIZER SKID

PURCHASE ORDER: PO-190080-02

DOCUMENT NO.: 41184-8120, REV.0

| Rev | Prepared By | Checked By | Date | Description |
|---|---|---|---|---|
| 0 | SB | AH | 3/24/2020 | FOR INFORMATION |
| | | | | |
| | | | | |

# 1.0 INTRODUCTION

## 1.1 Summary of Scope of Supply

The vertical thermal oxidizer is intended to oxidize the combustibles present in the specified waste stream. This is understood to apply only when the system is operated in accordance with the operating conditions stipulated in the design summary and for the waste(s) in Section 1.2.1 below.

The firing rate of the system is controlled by maintaining a specified operating temperature inside of the thermal oxidizer while the waste gas flow rates fluctuate. Efficient destruction of the waste is achieved at a thermal oxidizer operating temperature set point controlled at approximately 1,600 °F. The temperature works in conjunction with the thermal oxidizer volume and its associated residence time to achieve the efficient destruction of the waste gas stream.

The thermal oxidizer design includes internal shop installed refractory insulation. The selected materials are designed for a long, trouble-free operating lifetime. The list below summarizes the services and equipment provided in Zeeco's supply.

One (1) Thermal Oxidizer Package Including:

- One (1) Vertical Thermal Oxidizer w/ Integral Stack (10'-0" O.D. x 75'-0" OAH)
- Shop Installed Refractory Lining
- One (1) GB Style Burner
- One (1) Fuel Control Rack w/ Local Control Panel
- One (1) Combustion Air Fan w/ Ducting

## 1.2 Process Description

The vertical forced draft thermal oxidizer is equipped with one (1) forced draft fuel gas GB-Series burner. When the purge cycle is complete, the burner pilot is ignited via electric ignition. Once the burner pilot flame is proven, the main burner flame is ignited. The thermal oxidizer is then allowed to achieve a waste permissive temperature of 1,600 °F, following the recommended field cure procedures and schedule in APPENDIX E. Waste gas is then injected around the burner via the inlet nozzle. This high temperature accompanied with thermal oxidizer volume, known as residence time, destroys the hydrocarbon constituents of the waste gas stream. The flue gases from the thermal oxidizer then exits to atmosphere.

A temperature controller (supplied by others in DCS) monitors the combustion product's temperature through a thermocouple input and modulates both the fuel gas and combustion air flows into the burner. This ensures that sufficient temperature is maintained to provide complete destruction of varying waste gas compositions.

The fuel gas alone is used for start-up, burner stability, and refractory cure. The normal heat release for burner stability on fuel gas is ~57 MM BTU/HR. When more heat is needed for refractory curing, or if the heat produced by the combustion of the waste gas during operation

is not sufficient to maintain a thermal oxidizer temperature of 1,600 °F, a maximum fuel gas heat release of 75 MM BTU/HR is available from the burner.

Combustion air is supplied by the blower. All air enters the thermal oxidizer through the burner via the combustion air nozzle (N9) located on the thermal oxidizer. The flue gas exits the vent stack at an elevation of 76 feet.

### 1.2.1 Site Conditions

| | |
|---|---|
| Elevation, ft | 3612 |
| Seismic Zone | Zone 0, ASCE 7-10 |
| Design Wind Velocity | 100 MPH, ASCE 7-10 |
| Barometric Pressure, psia | 13.0 (assumed) |
| Temperature, °F (Min/Max) | 0 / 105 |
| Design Relative Humidity | 90% (assumed) |

### 1.2.2 Waste Stream Summary

| | **Amine Acid Gas** | **TEG Overhead** |
|---|---|---|
| COMPONENT: | Mol% | Mol% |
| N2 | 0.000476436 | 0.023533817 |
| C1 | 0.160343489 | 10.52602613 |
| CO2 | 92.80947832 | 0.139200764 |
| C2 | 0.043605007 | 13.12750526 |
| H2S | 0.006564341 | 0 |
| C3 | 0.013389894 | 17.86443624 |
| iC4 | 0.00094232 | 2.552395332 |
| nC4 | 0.003913018 | 10.55245659 |
| iC5 | 0.000141998 | 4.19340138 |
| nC5 | 0.000248341 | 5.266306596 |
| C6 | 0.000126353 | 8.807176215 |
| C7 | 2.72456E-07 | 0.15051084 |
| C8 | 1.06148E-07 | 0.059643694 |
| C9 | 2.60623E-09 | 0.044655609 |
| Cyclopentane | 0.00016068 | 2.031482149 |
| Benzene | 0.012892923 | 7.777448444 |
| Cyclohexane | 0.000139167 | 1.150332198 |
| Methylcyclohexane | 9.42409E-06 | 0.457895628 |
| 2,2,4-Trimethylpentane | 2.13572E-07 | 0.073574104 |
| Toluene | 0.002402702 | 2.682916488 |

| | **Amine Acid Gas** | **TEG Overhead** |
|---|---|---|
| COMPONENT: | Mol% | Mol% |
| Ethylbenzene | 5.08093E-05 | 0.110829457 |
| p-Xylene | 0.000330822 | 0.500214123 |
| H2O | 6.944783312 | 11.90746968 |
| MDEA | 2.22147E-08 | 0.000589214 |
| Piperazine | 2.96789E-08 | 7.98446E-12 |
| TEG | 0 | 4.50342E-08 |
| **Total Flowrate for Base Case, lbmol/hr** | **1622.5** | **3.5** |
| **Total Flowrate for 2x Base Case, lbmol/hr** | **3245.0** | **7.0** |
| **New Case 1x Amine Acid Gas 2x TEG, lbmol/hr** | **1622.5** | **7.0** |
| Mol. Wt. | 42.2 | 50.2 |
| Pressure, psig | 11.8 | 2.0 |
| Temperature, °F | 120 | 120 |

All waste streams are assumed to be in vapor state, no liquids have been considered in the design of the thermal oxidizer. If liquids are present, a knock out drum needs to be installed upstream of the thermal oxidizer as well as heat tracing and insulating the waste lines to avoid condensation. This additional scope is currently not included in Zeeco's scope.

It is assumed that the Acid Gas, Amine and TEG Flash Gases and TEG Overhead streams will be entering in two separate connections, inert streams such as Acid Gas in one connection and rich gases, such as the Amine and TEG Flash Gases and TEG Overhead streams in the other. It is assumed both inert and rich gas streams and will be running continuously and simultaneously. The Acid Gas stream will never be without TEG/ Amine Flash streams and vice versa.

### 1.2.3 Utilities

| | |
|---|---|
| Electrical Power | 460V / 3 Phase / 60 Hz |
| Instrument Air, SCFH | 2000 to 4000 |
| Fuel Gas Required for Base Case- all waste coming to TO simultaneously (Fuel Gas assumed as Methane) | 57 MMBtu/hr |
| Fuel Gas Required for 2x Base Case - all waste coming to TO simultaneously (Fuel Gas assumed as Methane) | 113 MMBtu/hr |

### 1.2.4 Flue Gas at 1600°F

| | **Base Case (all waste streams with 0% margin included)** |
|---|---|
| **COMPONENT:** | **Mol%** |
| $CO_2$ | 38.51 |

| | |
|---|---|
| $H_2O$ | 15.69 |
| $N_2$ | 42.74 |
| $SO_2$ | 0.00 |
| $O_2$ | 3.06 |
| **TOTAL, lbmol/hr** | **4390.11** |

### 1.2.5 System Performance

| Stack Emission | Expected Performance |
|---|---|
| Destruction Efficiency | > 99.9% of VOCs |
| NOx, $ppm_{vd}$ @ 3% O2 | 50 |
| CO, $ppm_{vd}$ @ 3% O2 | 50 |

These values are understood to apply only when the system is operated in accordance with the operating conditions stipulated in the design summary and for the waste stipulated in the design basis sections of this proposal. VOC is defined as non-methane and non-ethane hydrocarbons.

### 1.2.6 Combustion Air Performance

Reference AirPro Fan vendor literature in APPENDIX H for combustion air blower performance curve information.

### 1.2.7 Burner Performance

Reference the burner capacity curve (41184-G009A-001) in APPENDIX E for burner performance information.

## 1.3 Equipment Description

The forced draft thermal oxidizer system is described below.

### 1.3.1 Burner (Reference Zeeco Drawing 41184-G006A-001)

One (1) Forced Draft Zeeco GB Burner is offered with the following features:

- 75 MMBtu/hr maximum fuel gas release rating
- AR/GS Pilot for intermittent use
- A-36 Carbon Steel Construction
- 60% Al2O3 Burner Tile Construction
- 10:1 Fuel Gas Turndown
- All Carbon Steel External Surfaces Sandblasted to SSPC-SP6
- Painted per Zeeco Standard

### 1.3.2 Thermal Oxidizer (Reference Zeeco Drawing 41184-G064A-001)

One (1) vertical thermal oxidizer with integral stack is offered. It is designed to operate at 1600°F with excess air to ensure complete combustion of the waste gas combustible components. The thermal oxidizer has the following features:

- Nominal 10’-0” OD to 76’- 0” elevation
- Shell Material: SA-36

# Manufacturer Specification Sheets

Hot Oil Heaters and Stabilizer Heaters

- RH1-H-23-704
- RH1-H-1101
- RH4-H-41100

Tulsa Heaters Midstream
1215 S. Boulder, Suite 1040
Tulsa, OK 74119
(918) 392-8000

April 04, 2025

To: Targa Resources
**Mehdi Hashemian**
Engineering Manager

RE: PM Emissions Guarantee for THM Heaters

THM has supplied several heaters to the Targa Resources Red Hills facility over the years. These heaters were provided with various levels of emissions guarantees based on requests made at the time of purchase. Per discussions with all parties involved, THM would like to offer a revised guarantee for Particulate Matter (SPM) emissions of 0.0044 lb/MMBtu for the following THM heaters:

- RH1-H-23-704
- RH1-H-1101
- RH4-H-41100
- RH2-H-2301
- RH2-H-0901
- RH2-H-1001
- RHA-H-4901
- RH3-H-741
- RH3-H-781
- RH3-H-6301
- RH4-H-741
- RH4-H-781
- RH4-H-3901
- RH4-H-5301
- RH4-H-4001
- RH5-H-50902
- RH5-H-50001
- RH5-H-50741
- RH5-H-50781
- RH6-H-60001
- RH6-H-60741
- RH6-H-60781
- RA2-H-20001

Please let us know if there are any additional questions regarding this matter.

Thank you,

**Justin Forth**
President
Tulsa Heaters Midstream
Justin.Forth@TulsaHeatersMidstream.com
(918) 392-8000

# BCCK ENGINEERING, INC.
Midland, Texas

## DIRECT FIRED HEATERS

| | | | | |
|---|---|---|---|---|
| **CUSTOMER:** | **BCCK ENGINEERING, INC.** | **JOB NO.:** | 6110 |
| **PLANT:** | **RED HILLS FACILITY** | **ITEM NO.:** | 23-704 |
| **SERVICE:** | **HOT OIL HEATER** | **P.O. NO.:** | 6110-047 |
| | | **PAGE NO.:** | Page 1 of 9 |

### BURNER DATA SHEET

**IDENTIFICATION:**

Manufacturer: Newpoint Thermal

Site Location: Lea County, NM

**DESIGN DATA:**

GAS

Rate per Burner (Gross BTU/Hr) Max. _____ Normal _____ Min. _____

Conditions at Normal Rate: % Excess Air **15%** Press. (PSIG) _____ Draft (in $H_2O$) _____

**BURNER DESCRIPTION:**

Type (Draft) Forced Model/Size Maxon Kinedizer LE 14" Number 1 Position Down-Fired

GAS BURNER

No. of Tips _____ Tip Mat'l _____ Drilling _____

Orifice Type _____ Mat'l _____ Drilling _____

PILOT

Type and Size _____ Tip Mat'l _____ Drilling _____

Location in Burner _____ Orifice Size _____ Ignitor Type _____

Air Source _____ Air Flow, % of Theoretical _____

Aspirator Size _____ Normal Press (PSIG) _____ Heat Rel. (MMBTU/HR) _____

TILE

Material _____ Project (above floor) _____

PIPING CONNECTION (Size, NPS Type) _____

Gas _____ Pilot _____

Muffler, Make and Model _____

FUELS

Main Gas (LHV BTU/SCF) 909-1010 Mol. Wt. 16.72-19.09 Press. Available Operating 50 PSIG

Design Flow Rate (scfh) _____ Press. Mechanical Design 150 PSIG

Characteristics (H2, Dew Point, etc.) _____

Temp at tip, if preheated _____

Pilot Gas (LHV BTU/SCF) 909-1010 Mol. Wt. 16.72-19.09 Press. Available Operating 50 PSIG

Design Flow Rate (scfh) _____ Press. Mechanical Design 150 PSIG

Other (Incl. Waste Gas) _____

HEATER

Mfr. Newpoint Thermal Service HOT OIL HEATER

Configuration Vertical Floor / Wall Thickness _____

Clearance, Burner To: Tube _____ Radiant Wall _____ Arch _____

Plenum Configuration _____ Clear Ht. _____ Air Preheat _____

NOISE EMISSION - OVERALL dBA LEVEL: <85 Low NOx Burner (Yes / No) Yes

$NO_X$ EMISSION LEVELS: <20.9 tn/yr (80 ppm)

CO EMISSION LEVELS: <17.5 tn/yr (110 ppm corrected to 3% $O_2$)

REMARKS: Minimum Turndown 2.3 : 1 (13.75 MMBtu/hr) to maintain emissions

| | | | | |
|---|---|---|---|---|
| R | B | DAB | 5/12/2011 | CHANGED PROCESS DESIGN CONDITIONS (CHANGED HOT OIL) & ADDED NOTE 6 ON PG 8 |
| E | C | DAB | 5/13/2011 | ISSUED FOR QUOTATION - INCREASE ALLOWABLE PRESSURE DROP TO 15 PSI |
| V | 0 | DAB | 6/30/2011 | ISSUED FOR PURCHASE |

# BCCK ENGINEERING, INC.

**Midland, Texas**

## DIRECT FIRED HEATERS

| | | | | |
|---|---|---|---|---|
| **CUSTOMER:** | **BCCK ENGINEERING, INC.** | | **JOB NO.:** | 6110 |
| **PLANT:** | **RED HILLS FACILITY** | | **ITEM NO.:** | 23-704 |
| **SERVICE:** | **HOT OIL HEATER** | | **P.O. NO.:** | 6110-047 |
| | | | **PAGE NO.:** | Page 2 of 9 |

### API FIRED HEATER DATA SHEET

| | | | |
|---|---|---|---|
| Purchaser / Owner | BCCK Engineering, Inc. / -- | Manufacturer | Newpoint Thermal |
| Location: | Lea County, NM | Item No. | 23-704 |
| Unit | HOT OIL SYSTEM | Reference | JN 6110 |
| Service | HOT OIL HEATER | | |
| Number Required | 1 | Type | Direct Fired |

* Total Duty per Heater, MM Btu per Hr Absorbed: 32.1 Operating/35.31 Design

### PROCESS DESIGN CONDITIONS

| | | | | | |
|---|---|---|---|---|---|
| * Heater Section | | Rad/Conv | | | |
| * Service | | Normal Op | | | |
| Heat Absorption, MM Btu per Hr | | 32.34 | | | |
| * Fluid | ** Xceltherm 600 | ** | | | |
| * Flow Rate, Lb per Hr | | 257,860 | | | |
| Flow Rate, BPD | | | | | |
| * Pressure Drop, psi (Allowable / Design) | | 15 | | | |
| Pressure Drop, psi (Calculated) | | 21 | | | |
| * Average Flux Density, Btu per Hr per Sq Ft (Allowable Des.) | | 10,000 | | | |
| Radiant Average Flux Density, Btu per Hr per Sq Ft (Calc.) | | 8,678 | | | |
| Maximum Flux Density, Btu per Hr per Sq Ft | | | | | |
| Velocity Limitation Avg. (Ft/s) | | | | | |
| Maximum Calculated Inside Film Temperature, °F | | 568 | | | |
| Fouling Factor | | 0.001 | | | |
| Calculated Velocity, ft/sec | | | | | |
| * Min. Velocity for Environmental Considerations | | | | | |
| **Inlet Conditions:** | | | | | |
| *Temperature, °F | | 300 | | | |
| *Pressure, (psig) | | 59 | | | |
| *Liquid Flow, Lb per Hr | | 257,860 | | | |
| *Vapor Flow, Lb per Hr | | NA | | | |
| *Liquid, (Deg API) (Sp Gr at 60°F) | | 0.775 | SG @ Operating Temp | | |
| *Vapor, Molecular Weight | | NA | | | |
| *Liquid Viscosity, Cp | | 1.09 | | | |
| **Outlet Conditions:** | | | | | |
| *Temperature, °F | | 500 | | | |
| *Pressure, (psig) | | 38 | | | |
| *Liquid Flow, Lb per Hr | | 257,860 | | | |
| *Vapor Flow, Lb per Hr | | NA | | | |
| *Liquid, (Deg API) (Sp Gr at 60°F) | | 0.707 | SG @ Operating Temp | | |
| *Vapor, Molecular Weight | | NA | | | |
| *Liquid Viscosity, Cp | | 0.37 | | | |
| **Remarks and Special Requirements:** | | | | | |
| *1. Distillation Data or Composition Attached | | NO | | | |
| 2. Combustion Loading BTU/HR/ft3 | | | | | |

* Asterisks refer to the items to be completed by purchaser

| | | | | |
|---|---|---|---|---|
| R | B | DAB | 5/12/2011 | CHANGED PROCESS DESIGN CONDITIONS (CHANGED HOT OIL) & ADDED NOTE 6 ON PG 8 |
| E | C | DAB | 5/13/2011 | ISSUED FOR QUOTATION - INCREASE ALLOWABLE PRESSURE DROP TO 15 PSI |
| V | 0 | DAB | 6/30/2011 | ISSUED FOR PURCHASE |

# FIRED HEATER

BY: APL JOB NO: 10507 PAGE 1 OF 3

DATE: 1/2/2019 ITEM NO.: H-41100

CUSTOMER: Lucid Energy

PLANT: Red Hills IV P&ID: 4100B

SERVICE: Inline Heater

QUANTITY: One SIZE: **96" OD x 35' OAL**

UNIT NUMBER REQUIRED: One

SAULSBURY

Texas Registered Engineering Firm F-518

Work by Saulsbury Engineering: Rev 3 As-Built

MANUFACTURER: Tulsa Heaters Midstream REFERENCE: Model No HF1000 (MJ19-385)

TYPE OF HEATER: Horizontal; Water Bath; Forced Draft; Indirect Firetube

* TOTAL HEATER ABSORBED DUTY, MM Btu/hr.: 9.0

| REV | Issue For Purchase | As-Built |
|---|---|---|
| DATE | 1/2/2019 | 9/13/2019 |
| BY | MTM | DK |
| APPR. | | MTM |
| NO. | 0 | 3 |
| REV | SI | SI |

| REV | Issue for Information | Issue For Purchase |
|---|---|---|
| DATE | 4/15/2019 | 2/25/2019 |
| BY | APL | APL |
| APPR. | MTM | MTM |
| NO. | 2 | 1 |
| REV | SI | SI |

## PROCESS DESIGN CONDITIONS

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| * OPERATING CASE | Normal | | | | | | | |
| HEATER SECTION | Process | | Water Bath / Firetube | | | | | |
| * SERVICE | Slug Catcher Liquids | | Average Bath Film Temperature (Allow / Calc) | | 300 / 285 °F | | | |
| * HEAT ABSORPTION, MMBtu/hr. | 9.000 | | | | | | | |
| *FLUID | Slug Catcher Liquids | | Dowtherm SR-1 (50 %) / Water (50%) | | | | | |
| * FLOW RATE, Lb/hr. | 149,400 | | 8450 Gallons | | | | | |
| FLOW RATE, GPM | 580 | | | | | | | |
| *PRESSURE DROP, ALLOWABLE (CLEAN / FOULED), Psi. | 15 | | | | | | | |
| PRESSURE DROP, CALCULATED (CLEAN / FOULED), Psi. | * | | | | | | | |
| AVG. FIRETUBE HEAT FLUX DENSITY, ALLOWABLE, Btu/hr-ft 2. | | | 12,000 | | | | | |
| AVG.FIRETUBE HEAT FLUX DENSITY, CALCULATED, Btu/hr-ft2. | | | 8,591 | | | | | |
| MAX. RAD.. SECT. FLUX DENSITY, Btu/hr-ft2. | * | | Heat Density Calc 8606 BTU/hr-in2 | | MAX. METAL TEMP (Firetube) | | 607 °F | |
| CONV.. SECT. FLUX DENSITY, (BARE TUBE), Btu/hr-ft2. | * | | | | | | | |
| OVERALL HEAT TRANSFER COEFFICIENT BTU/hr-ft2-°F | 74 | | | | | | | |
| PROCESS FLUID MASS VELOCITY, Lb/sec-ft2. | ** | | | | | | | |
| MAXIMUM ALLOW. / CALC. INSIDE FILM TEMPERATURE, °F. | 625 | ** | | | | | | |
| * FOULING FACTOR, hr-ft2-°F/Btu. | 0.0015 | | | | | | | |
| COIL SURFACE AREA, ft2 TOTAL | 1,105 | | Firetube Area Total 1042 FT2 | | | | | |

## INLET CONDITIONS

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| *TEMPERATURE, °F. | 60 | | Average Bath Temperature 203 °F | | | | | |
| * PRESSURE, PSIG | 950 (910) | | | | | | | |
| *LIQUID FLOW, Lb/hr. | 149,400 | | | | | | | |
| *VAPOR FLOW, Lb/hr. | - | | | | | | | |
| *LIQUID GRAVITY, (DEG API) ( SP. GR. @ 60°F.) #/FT3 | 0.517 | | | | | | | |
| *VAPOR MOLECULAR WEIGHT | - | | | | | | | |
| *VISCOSITY, (LIQUID / VAPOR), cP. | 0.113 | - | | | | | | |
| *SPECIFIC HEAT, (LIQUID / VAPOR), Btu/Lb-°F. | 0.643 | - | | | | | | |
| *THERMAL CONDUCTIVITY, (LIQUID / VAPOR), Btu/hr-ft-°F. | 0.0613 | - | | | | | | |

## OUTLET CONDITIONS

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| *TEMPERATURE, °F. | 120 | | | | | | | |
| * PRESSURE, PSIG | 945 (908) | | | | | | | |
| *LIQUID FLOW, Lb/hr. | 149,400 | | | | | | | |
| *VAPOR FLOW, Lb/hr. | 275 (550) | | | | | | | |
| *LIQUID GRAVITY, (DEG API) ( SP. GR. @ 60°F.) #/FT3 | 0.492 | | | | | | | |
| *VAPOR MOLECULAR WEIGHT | 25.558 | | | | | | | |
| *VISCOSITY, (LIQUID / VAPOR), cP. | 0.095300 | 0.0137 | | - | | | | |
| *SPECIFIC HEAT, (LIQUID / VAPOR), Btu/Lb-°F. | 0.638 | 0.689 | | - | | | | |
| *THERMAL CONDUCTIVITY, (LIQUID / VAPOR), Btu/hr-ft-°F. | 0.0217 (0.061) | 0.0560 | | - | | | | |

## REMARKS AND SPECIAL REQUIREMENTS:

# FIRED HEATER

BY: APL JOB NO: 10507 PAGE 1 OF 3
DATE: 1/2/2018 ITEM NO.: H-41100
CUSTOMER: Lucid Energy
PLANT: Red Hills IV P&ID: 4100B
SERVICE: Inline Heater
QUANTITY: One SIZE: 96" OD x 35' OAL

SAULSBURY

Texas Registered Engineering Firm F-518
Work by Saulsbury Engineering: Rev 3 As-Built

Issue For Purchase — As-Built
REV: 0 — 3
DATE: 12/12/2018 — 8/12/2019
BY: MTM — DK
APP'D: MTM
NO: 0 — 3
PAGE: SI — SI

Issue For Information — Issue For Purchase
REV: 0 — 1
DATE: 4/30/2018 — 2/26/2019
BY: APL — APL
APP'D: MTM — MTM
NO: 2 — 1
PAGE: SI — SI

## COMBUSTION DESIGN CONDITIONS

| | | | | |
|---|---|---|---|---|
| * OPERATING CASE | Design Case | | | |
| * TYPE OF FUEL | Dry Fuel Gas | | | |
| * EXCESS AIR, % | 20% | | | |
| CALCULATED HEAT RELEASE (LHV) / (HHV), MM Btu/hr. | 11.97 / * (Note 3) | | | |
| FUEL EFFICIENCY CALCULATED, % (LHV) / (HHV) | 75.1 / * | | | |
| FUEL EFFICIENCY GUARANTEED, % (LHV) / (HHV) | 72.1 / * (Min, Note 3) | | | |
| RADIATION LOSS, PERCENT OF HEAT RELEASE (LHV) | ** | | | |
| FLUE GAS TEMPERATURE LEAVING: RADIANT SECTION, °F. | ** | | | |
| CONVECTION SECTION, °F. | ** | | | |
| AIR PREHEATER, °F. | | | | |
| FLUE GAS QUANTITY, Lb/hr. | | | | |
| FLUE GAS MASS VELOCITY THRU CONV.. SECTION, Lb/sec-ft2. | | | | |
| DRAFT: AT ARCH, in-H20. | | | | |
| AT BURNERS, in-H20. | | | | |
| AMBIENT AIR TEMPERATURE, EFFICIENCY CALCULATION, °F. | | | | |
| * AMBIENT AIR TEMPERATURE, STACK DESIGN, °F. | 110 | | | |
| * ALTITUDE ABOVE SEA LEVEL, ft. | 3,612 | | | |
| VOLUMETRIC HEAT RELEASE (LHV), Btu/hr-ft3. | ** | Combustion Loading | | |

## FUEL CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| * GAS TYPE Dry Fuel Gas | | ~~* LIQUID TYPE~~ | | ~~* OTHER TYPE~~ | |
| * LHV, 881.0 Btu/~~(Lb)~~ (Scf). | | ~~* LHV Btu/Lb.~~ | | ~~* LHV, Btu/(Lb) (Scf)~~ | |
| * HHV, 978.3 Btu/~~(Lb)~~ (Scf). | | ~~* HHV, Btu/Lb.~~ | | ~~* HHV, Btu/(Lb) (Scf)~~ | |
| * PRESSURE SUPPLY, 100 (50 Supply / 150 Max) Psig. | | ~~* PRESS. @ BURNER, Psig.~~ | | ~~* PRESS. @ BURNER, Psig.~~ | |
| TEMPERATURE SUPPLY, 70 °F. | | ~~* TEMP. @ BURNER, °F.~~ | | ~~* TEMP. @ BURNER, °F.~~ | |
| * MOLECULAR WEIGHT 16.51 | | ~~* VISCOSITY @ SSU.~~ | | ~~* MOLECULAR WEIGHT~~ | |
| | | ~~* ATOMIZING STEAM TEMP., °F.~~ | | | |
| COMPOSITION | MOLE % | ~~* ATOMIZING STEAM PRESSURE, Psig.~~ | | ~~* COMPOSITION~~ | ~~MOLE %~~ |
| Nitrogen | 3.45 | | | | |
| Methane | 96.1 | ~~*COMPOSITION WT%~~ | | | |
| Ethane | 0.399 | | | | |
| Carbon Dioxide | 0.00297 | | | | |
| Propane | 0.01064 | | | | |
| | | | | | |
| | | | | | |
| | | ~~* VANADIUM (PPM)~~ | | | |
| | | ~~* SODIUM (PPM)~~ | | | |
| | | ~~* SULFUR~~ | | | |
| | | ~~* ASH~~ | | | |

## BURNER DATA

MANUFACTURER: Webster Combustion SIZE / MODEL: 12.3-75 (CMS Model: CMS2500) NUMBER: Two

TYPE: Staged Head LOCATION: Firetube End ORIENTATION: HORIZONTAL

HEAT RELEASE PER BURNER, MM Btu/hr. DESIGN: 5.99 (LHV) MAXIMUM: 6.58 (LHV) MINIMUM: 1.32 (LHV) Turndown 5:1

PRESSURE DROP ACROSS BURNER @ DESIGN HEAT RELEASE, in H 20:

DISTANCE BURNER CENTER LINE TO TUBE CENTER LINE, HORIZONTAL, ft. HORIZONTAL: VERTICAL:

DISTANCE BURNER CENTER LINE TO UNSHIELDED REFRACTORY, ft. HORIZONTAL: VERTICAL:

* PILOT, TYPE: GAS CONTINUOUS CAPACITY, BTU / HR: -- COMBUSTION GAS FLOW RATE -- sFT3/hr:

* IGNITION METHOD: ELECTRIC

* FLAME SCANNERS, LOCATION: PILOTS and MAIN BURNERS (Note 1) NUMBER:

DESIGN / GUARANTEED EMISSIONS: LB/MMBTU (CORRECTED TO 3% 02, Dry LHV)
Combustion Mass Balances:
Lb/ MM Btu ~~(LHV) (HHV)~~

NOx: 0.067 CO: 0.081 SOx:
NOx 48 ppm SOx 0 ppm CO 95 ppm VOC 14 ppm
UHC: 14 ppm SPM: 14 ppm PARTICULATES:

NOTES:

1) Include flame scanners on main burners and flame rods on pilots.

2) Unit shall be provided with Ultra Low NOx burners

3) 11.12 MMBTU/hr is the heat release limit set forth by the air permit, based on ultra low NOx burners, and should not be exceeded in the heater design. Minimum efficiency required is based on necessary heat duty to feed plant users.

If higher efficiencies (and thus higher available absorbed duty) are achievable, please quote/design accordingly.

4) Fuel Gas Rate: 14,030 SCFH (296 LBm/hr) Pressure: 5 PSIG

5) Pilot Gas Rate: 272 SCFH Pressure: 1 PSIG

6 ) Combustion Air Rate: 5792 LBm/hr

7) Burner Control:

8) Blower Duct provided with combustion air pressure switch.

9) Fuel Gas Piping carbon steel with flanged and welded connections. Double block with pneumatically actuated shut-off valves, and a pressure transmitter for the main and pilot trains.

# Manufacturer Specification Sheets

Mol Sieve Heaters

- RH2-H-741
- RH3-H-741
- RH4-H-741
- RH5-H-50741
- RH6-H-60741

UOP RUSSELL, LLC
Tulsa, Oklahoma

JOB NO: TRJ-415 DATE: 3/9/2011
CLIENT: UOP Russell BY: JRG
SUBJECT: 200 MMscfd Cryo Plant

# FIRED HEATER

Service: Regen Gas Heater Tag No: H-741
Design Duty, MBTU/Hr 5605 Type: Helical Coil
No. of Coils per Unit One No. Units: One Model: Heatec HCI-5010-40-G

| Fluid | | Regen Gas | | Burners | | |
|---|---|---|---|---|---|---|
| | | Inlet | Outlet | | Gas | Oil |
| Liquids | Lbs/Hr | 0 | 0 | LHV (BTU/cf) | 973 | |
| Density | Lbs/CuFt | | | Mol. Wt. | 18.26 | |
| Molecular Weight | | | | Gravity | | |
| Specific Heat | BTU/Lb °F | | | Pressure Avail. (psig) | 100 | |
| Thermal Cond. | BTU/Hr-Ft-°F | | | Pressure Req'd (psig) | 10 | |
| Viscosity | cP | | | Steam for Atomizing | | |
| Vapor | Lbs/Hr | 20840 | 20840 | Fuel Gas Req'd (MSCFD) | 167.53 | N/A |
| Density | Lbs/CuFt | 3.824 | 1.885 | Mfgr: | Eclipse WiNOX | |
| Molecular Weight | | 21.57 | 21.57 | Type: | Forced Draft - 20 Hp Blower | |
| Specific Heat | BTU/Lb °F | 0.6169 | 0.7189 | Number Req'd | One | |
| Thermal Cond. | BTU/HrFt °F | 0.0232 | 0.0422 | Pilots Req'd | Yes , electrical ignition | |
| Viscosity | cP | 0.0143 | 0.0198 | NOx | 40 ppm | |
| Operating Temp. | °F | 135 | 550 | **Structural Design** | | |
| Operating Pressure | PSIA | 949 | 939 | Wind Load, MPH, (3) | 120, Exp.C, Cat. III, Cf=0.7 | |
| Velocity | Ft/Sec | Allow. | 28.7 Calc. | Seismic Zone, (3) | I = 1.25 | |
| Pressure Drop | PSI | 10 Allow. | 6 Calc. | Ambient, °F | -20 / 110 | |
| Fouling Resistance | SqFt*F/BTU | 0.001 | | Elevation, Ft | 750 | |
| Design Press. / Temp. | | 1095 PSIG | 650 °F | **Stack Design** | | |
| Min. Design Mtl. Temp. | | -20 °F @ | 1095 PSIG | Self-supporting | Yes | |
| Corrosion Allowance | | 0.0625 | | Minimum Height | 8 ft above top of heater | |
| Insulation Thickness | | 3" - 5" ceramic fiber on the interior | | Minimum Wall Thickness: | 0.125 | |
| Efficiency-Based on LHV | (%) | 85.0% (Assume 3% Loss) | | Lining Type | No | |
| Excess Air | | 15 | | Lining Thickness: | No | |
| Firebox Unit Heat Release | | 27,800 BTU/Hr- Ft^3 | | Damper: | No | |
| Number of Passes | | One - process, Two - fireside | | | | |

| Coil Design | | Radiant | Convection-Bare | Convection-Finned | |
|---|---|---|---|---|---|
| Gas Temperature | In/Out | 135 / 550 | | | |
| Number Tubes | | One | | | |
| Tube O.D. | In | Single Circuit 4" | 4" 900# RTJ Flg | Inlet and Outlet | |
| Tube Length | Eff. Ft | ----- | | | |
| Bare Surface | Sq Ft | ▲ 741 | | | |
| Finned Surface | Sq Ft | N/A | | | |
| Avg. Heat Flux | BTU/Hr-Sq Ft | 8,278 | | | |
| Tube Materials | | SA-106 Gr.B Sch 80 | SA- | SA- | |

Convection Fins (inch): Height: Thickness: No. / inch: Material:
Overall Dimension: ▲ 23'-9-5/6" L x 10'-10 9/16" W x 7'-10 5/8" H (less stack) Dry Weight: 23,500 lbs ▲
Code Requirements: ASME VIII Div I Stamp: Yes Nat'l Board: Yes

**Notes:**

1) **Add 30% to duty and 10% flow rates for design.**
2) See attached Scope of Supply.
3) Wind design per ASCE 7-10, Cat. III, Exposure C. Seismic design per ASCE 7-10, I=1.25, Site D. , $S_S$ =100% , $S_1$ =40%
4) Electric power to be 480 v / 3 ph / 60 hz. Control enclosures to be NEMA 4.
5) Add Spare ignitor.

| REVISION | 3 | ▲ 4 | 1 | 2 |
|---|---|---|---|---|
| ENGINEER/DATE | JRG 11/29/11 | EWS 1/31/12 | JRG 10/20/11 | KCA 11/15/11 |
| ISSUED FOR | Revised | Revised | Revised | Revised |

UOP RUSSELL, LLC
Tulsa, Oklahoma

JOB NO: TRJ-463 DATE: 11/11/2016
CLIENT: UOP Russell BY: JRG
SUBJECT: 200 MMscfd Cryo Plant

# FIRED HEATER

| | | | | | |
|---|---|---|---|---|---|
| Service: | Regen Gas Heater | | | Tag No: | H-741 |
| Design Duty, MBTU/Hr | 5605 | | | Type: | Helical Coil |
| No. of Coils per Unit | One | No. Units: | One | Model: | THM SHO500 |

| Fluid | | Regen Gas Inlet | Regen Gas Outlet | Burners | Gas | Oil |
|---|---|---|---|---|---|---|
| Liquids | Lbs/Hr | 0 | 0 | LHV (BTU/cf) | 973 | |
| Density | Lbs/CuFt | | | Mol. Wt. | 18.26 | |
| Molecular Weight | | | | Gravity | | |
| Specific Heat | BTU/Lb °F | | | Pressure Avail. (psig) | 100 | |
| Thermal Cond. | BTU/Hr-Ft-°F | | | Pressure Req'd (psig) | 10 | |
| Viscosity | cP | | | Steam for Atomizing | | |
| Vapor | Lbs/Hr | 20840 | 20840 | Fuel Gas Req'd (MSCFD) | 167.53 | N/A |
| Density | Lbs/CuFt | 3.824 | 1.885 | Mfgr: | Callidus CUBL-3W | |
| Molecular Weight | | 21.57 | 21.57 | Type: | Forced Draft - 10 Hp Blower | |
| Specific Heat | BTU/Lb °F | 0.6169 | 0.7189 | Number Req'd | One | |
| Thermal Cond. | BTU/HrFt °F | 0.0232 | 0.0422 | Pilots Req'd | Yes , electrical ignition | |
| Viscosity | cP | 0.0143 | 0.0198 | NOx | 40 ppm | |
| Operating Temp. | °F | 135 | 550 | **Structural Design** | | |
| Operating Pressure | PSIA | 949 | 939 | Wind Load, MPH, (3) | 120, Exp.C, Cat. III, Cf=0.7 | |
| Velocity | Ft/Sec | Allow. | 39 Calc. | Seismic Zone, (3) | I = 1.25 | |
| Pressure Drop | PSI | 10 Allow. | 6 Calc. | Ambient, °F | -20 / 110 | |
| Fouling Resistance | SqFt*F/BTU | 0.001 | | Elevation, Ft | 750 | |
| Design Press. / Temp. | | 1095 PSIG | 650 °F | **Stack Design** | | |
| Min. Design Mtl. Temp. | | -20 °F @ | 1095 PSIG | Self-supporting | Yes | |
| Corrosion Allowance | | 0.0625 | | Minimum Height | 8 ft above top of heater | |
| Insulation Thickness | | 3" - 5" ceramic fiber on the interior | | Minimum Wall Thickness: | 0.125 | |
| Efficiency-Based on LHV | (%) | 85.0% | (Assume 3% Loss) | Lining Type | No | |
| Excess Air | | 15 | | Lining Thickness: | No | |
| Firebox Unit Heat Release | | | BTU/Hr- Ft^3 | Damper: | No | |
| Number of Passes | | One - process, Two - fireside | | | | |

| Coil Design | | Radiant | Convection-Bare | Convection-Finned | |
|---|---|---|---|---|---|
| Gas Temperature | In/Out | 1526 | 377 | | |
| Number Tubes | | 1 | 4 | 12 | |
| Tube O.D. | In | 4.500" OD | 4.500" OD | 4.500" OD | |
| Tube Length | Eff. Ft | 20.42 | 7.46 | 7.46 | |
| Bare Surface | Sq Ft | 283 | 35 | N/A | |
| Finned Surface | Sq Ft | N/A | N/A | 1309 | |
| Avg. Heat Flux | BTU/Hr-Sq Ft | 12,460 | | | |
| Tube Materials | | SA-106 Gr.B Sch 80 | SA-106 Gr.B Sch 80 | SA-106 Gr.B Sch 80 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Convection Fins (inch): | Height: | | Thickness: | | No. / inch: | Material: | |
| Overall Dimension: | | | | | | | |
| Code Requirements: | ASME VIII Div I | | Stamp: | Yes | | Nat'l Board: | Yes |

**Notes:**

1) **Add 30% to duty and 10% flow rates for design.**
2) See attached Scope of Supply.
3) Wind design per ASCE 7-10, Cat. III, Exposure C. Seismic design per ASCE 7-10, I=1.25, Site D. , $S_S$ =100% , $S_1$ =40%
4) Electric power to be 480 v / 3 ph / 60 hz. Control enclosures to be NEMA 4.
5) Add Spare ignitor.

| REVISION | A | | 0 | | 1 | | | |
|---|---|---|---|---|---|---|---|---|
| ENGINEER/DATE | JRG | 11/11/16 | JRG | 11/18/16 | SOO | 11/13/17 | | |
| ISSUED FOR | RFQ | | Purchase | | Purchase | | | |

| | | | | | |
|---|---|---|---|---|---|
| Owner: | Unknown | | Owner Ref.: | H-741 | Ftnt |
| Purchaser: | UOPR | | Purchaser Ref.: | J479 | & |
| Manufacturer: | Tulsa Heaters Midstream, LLC | | THM Ref.: | MJ17-271 | Rev |
| Service: | Regen Gas Heater | | Project: | 200 MMscfd Cryo Plant | |
| Quantity: | 1 | | Location: | Unknown | |
| SHO Duty: | 7.29 | MMBTU/ hr | SHO Model: | SHO500 | |
| CMS Release: | 9.20 | MMBTU/ hr | CMS Model: | CMS1500 | |

## PROCESS DESIGN CONDITIONS

| | | | | | | |
|---|---|---|---|---|---|---|
| Heater Section | --- | Radiant / Convection | Radiant / Convection | | | |
| Operating Case | --- | Over-Design Case | Design Case | | | |
| Service | --- | Regen Gas Heater | Regen Gas Heater | | | |
| Heat Absorption (R/C) | MMBTU/ hr | 4.36 / 2.93 | 3.52 / 2.08 | | | |
| Process Fluid | --- | Gas | Gas | | | |
| Process Mass Flow Rate, Total | Lb/ hr | 22,924 | 20,840 | | | |
| Process Bulk Velocity (calc. R/C) | ft/ s | 42 / 21 | 39 / 19 | | | |
| Process Mass Velocity (calc. R/C) | Lb/ s ft2 | 80 / 80 | 73 / 73 | | | |
| Coking Allowance (dP calcs) | in | | | | | |
| Pressure Drop, Clean (allow. / calc.) | psi | 10 / 7 | 10 / 6 | | | |
| Pressure Drop, Fouled (allow. / calc.) | psi | | | | | |
| Average Heat Flux (allowable) | BTU/ hr ft2 | 13,000 | 13,000 | | | |
| Average Heat Flux (calculated) | BTU/ hr ft2 | 15,410 | 12,460 | | | |
| Maximum Heat Flux (allowable) | BTU/ hr ft2 | | | | | |
| Maximum Heat Flux (calc. R/C) | BTU/ hr ft2 | 27,400 / 31,140 | 22,200 / 23,990 | | | |
| Fouling Factor, Internal | hr ft2 °F/ BTU | 0.001 | 0.001 | | | |
| Corrosion or Erosion Characteristics | --- | | | | | |
| Max. Film Temperature (allow. / calc.) | °F | 650 / 669 | 650 / 654 | | | |
| **Inlet Conditions:** | | | | | | |
| Temperature | °F | 75 | 135 | | | |
| Pressure | psig | 934 | 934 | | | |
| Mass Flow Rate, Liquid | Lb/ hr | 0 | 0 | | | |
| Mass Flow Rate, Vapor | Lb/ hr | 22,924 | 20,840 | | | |
| Weight Percent, Liquid / Vapor | wt% | 0% / 100% | 0% / 100% | | | |
| Density, Liquid / Vapor | Lb/ ft3 | 0.00 / 3.82 | 0.00 / 3.82 | | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | --- / 21.6 | --- / 21.6 | | | |
| Viscosity, Liquid / Vapor | cp | 0.0001 / 0.014 | 0.001 / 0.014 | | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0 / 0.617 | 0.000 / 0.617 | | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0 / 0.023 | 0.000 / 0.023 | | | |
| **Outlet Conditions:** | | | | | | |
| Temperature | °F | 550 | 550 | | | |
| Pressure | psig | 928 | 929 | | | |
| Mass Flow Rate, Liquid | Lb/ hr | 0 | 0 | | | |
| Mass Flow Rate, Vapor | Lb/ hr | 22,924 | 20,840 | | | |
| Weight Percent, Liquid / Vapor | wt% | 0% / 100% | 0% / 100% | | | |
| Density, Liquid / Vapor | Lb/ ft3 | 0.00 / 1.88 | 0.00 / 1.88 | | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | --- / 21.6 | --- / 21.6 | | | |
| Viscosity, Liquid / Vapor | cp | 0.000 / 0.020 | 0.0001 / 0.020 | | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.000 / 0.719 | 0 / 0.719 | | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.000 / 0.042 | 0 / 0.042 | | | |

| revision | date | description | by | chk'd | appv'd |
|---|---|---|---|---|---|
| Rev. 0 | 19-Aug-17 | Issued for Approval | JF | JDC | |



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Owner Ref.: H-741 THM Ref.: MJ17-271

Ftnt & Rev

## COMBUSTION DESIGN CONDITIONS

| | | | | | | |
|---|---|---|---|---|---|---|
| Overall Performance: | | | | | | |
| Operating Case | --- | Over-Design Case | Design Case | | | |
| Service | --- | Regen Gas Heate | Regen Gas Heate | | | |
| Excess Air | mol% | 15.0% | 15.0% | | | |
| Calculated Heat Release (LHV) | MMBTU/ hr | 8.37 | 6.30 | | | |
| Guaranteed Efficiency | HR% | 83.1% | 85.0% | | | |
| Calculated Efficiency | HR% | 87.1% | 89.0% | | | |
| Radiation Loss | HR% | 3.00% | 3.00% | | | |
| Flow Rate, Combustion Gen./ Imp. | Lb/ hr | 8,145 | 6,130 | | | |
| Flue Gas Temp. Leaving (R/C) | °F | 1,649 / 447 | 1,526 / 377 | | | |
| Flue Gas Mass Velocity | Lb/ sec ft2 | 0.260 | 0.196 | | | |

| Fuel(s) Data: | | Gas 1 | | | |
|---|---|---|---|---|---|
| | | Mol.Wt. | | | |
| LHV | BTU/ scf | 976 | | | |
| LHV | BTU/ Lb | 20,426 | | | |
| P @ Burner | psig | 75 | | | |
| T @ Burner | °F | 100 | | | |
| MW | Lb/ Lbmole | 18.13 | | | |
| m @ ??? °F | cp | - - - | | | |
| m @ ??? °F | cp | - - - | | | |
| Atomizing Media | | - - - | | | |
| Atom. Media P & T | | - - - | | | |

| Components: | | | | | |
|---|---|---|---|---|---|
| N | wt% | - - - | | | |
| S | wt% | - - - | | | |
| Ash | wt% | - - - | | | |
| Ni | ppm | - - - | | | |
| Va | ppm | - - - | | | |
| Na | ppm | - - - | | | |
| Fe | ppm | - - - | | | |
| H2 | mol% | 0.0% | | | |
| O2 | mol% | 0.0% | | | |
| N2 + Ar | mol% | 1.0% | | | |
| CO | mol% | 0.0% | | | |
| CO2 | mol% | 1.0% | | | |
| CH4 | mol% | 88.0% | | | |
| C2H6 | mol% | 8.0% | | | |
| C2H4 | mol% | 0.0% | | | |
| C3H8 | mol% | 2.0% | | | |
| C3H6 | mol% | 0.0% | | | |
| C4H10 | mol% | 0.0% | | | |
| C4H8 | mol% | 0.0% | | | |
| C5H12 | mol% | 0.0% | | | |
| C5H10 | mol% | 0.0% | | | |
| C6+ | mol% | 0.0% | | | |
| H2S | ppmv | 0.0% | | | |
| SO2 | mol% | 0.0% | | | |
| NH3 | mol% | 0.0% | | | |
| H2O | mol% | 0.0% | | | |
| spare | mol% | 0.0% | | | |

| Blower/Fan Peformance: | | |
|---|---|---|
| Volumetric Flow | acfm | 1,800 |
| Rated Power | HP | 10 |
| Fan Speed | RPM | 3,600 |
| Sound Pressure | dBA | < 85 |
| Area Classification | NEC | Unclassified |

| Burner Design: | | | |
|---|---|---|---|
| OEM | --- | Callidus Technologies, LLC | |
| Type | --- | Enhanced IFGR | ULTRA Low NOx |
| Quantities | --- | 1 | Burner |
| Model No. | --- | CUBL-3W | Cylindrical |
| Windbox | --- | yes ... | |
| Location | --- | EndWall Center ... | Horizontally Fired |
| Pilot Design: | | | |
| Type / Model | | Self-Inspirating / by O.E.M. | |
| Ignition | --- | Electric | requires elec.ign.system |
| Heat Release | - - | > 90000 BTU/ hr on ... | Gas 1 |

| Burner Performance: | | |
|---|---|---|
| Minimum Heat Release | MMBTU/ hr | 1.84 |
| Design Heat Release | MMBTU/ hr | 8.37 |
| Maximum Heat Release | MMBTU/ hr | 9.20 |
| Burner Turndown | Max:Min | 5.00 |
| Volumetric Ht. Release | BTU/ hr ft3 | 17,106 |
| Pressure @ Arch | inH2O | 0.50 |
| Pressure @ Burner | inH2O | 7.64 |
| Combustion Air T @ Burner | °F | 60 |
| Flue Gas T @ Burner | °F | 1,450 |

| Guaranteed Emissions: | | | |
|---|---|---|---|
| Basis of Guarantee | --- | 3.0% O2, dry (LHV) | |
| NOx Emissions | Lb/MMBTU | 0.053 | 40 ppm |
| SOx Emissions | Lb/MMBTU | no quote | |
| CO Emissions | Lb/MMBTU | 0.041 | 50 ppm |
| VOC Emissions | Lb/MMBTU | 0.019 | 15 ppm |
| UHC Emissions | Lb/MMBTU | 0.007 | 15 ppm |
| SPM10 Emissions | Lb/MMBTU | 0.014 | 16 ppm |
| Noise Emissions | dBA @ 3ft | 85 | |

| Net Flame Clearances: | |
|---|---|
| Est. Flame Size | approx. 10.9 ft L x 2.5 ft Diameter |
| Hor Clearance | 0.75 ft NET Tube Clearance |
| Vert. Clearance | 0.75 ft NET Tube Clearance |
| Axial Clearance | -1.77 ft NET Refractory Clearance (to Arch hot face) |

| Nominal Flame Clearances: | | | |
|---|---|---|---|
| from burner CL ... | | Vertical | Horizontal |
| to Tube CL, API | ft | 5.70 | 3.80 |
| to Tube CL, calc. | ft | 3.25 | 3.25 |
| to Refrac., calc. | ft | n / a | 9.17 |

| | | | | | |
|---|---|---|---|---|---|
| Owner: | TBD | | Owner Ref.: | H-741 | Ftnt |
| Purchaser: | UOPR | | Purchaser Ref.: | J505 | & |
| Manufacturer: | Tulsa Heaters Midstream, LLC | | THM Ref.: | MJ19-384 | Rev |
| Service: | Regen Gas Heater | | Project: | SC20 | |
| Quantity: | 1 | | Location: | TBD | |
| SHO Duty: | 5.61 | MMBTU/ hr | SHO Model: | SHO500 | |
| CMS Release: | 9.08 | MMBTU/ hr | CMS Model: | CMS1500 | |
| SHOS Flow: | 820 | USgpm #DIV/0! | SHOS.Model: | N/A | |

## PROCESS DESIGN CONDITIONS

| | | | | |
|---|---|---|---|---|
| Heater Section | - - - | Radiant / Convection | Radiant / Convection | |
| Operating Case | - - - | Design Case | Over Design Case | |
| Service | - - - | Regen Gas Heater | Regen Gas Heater | |
| Heat Absorption (R/C) | MMBTU/ hr | 3.53 / 2.08 | 4.36 / 2.93 | |
| Process Fluid | - - - | Gas | Gas | |
| Process Mass Flow Rate, Total | Lb/ hr | 20,840 | 22,924 | |
| Process Bulk Velocity (calc. R/C) | ft/ s | 39 / 19 | 42 / 21 | |
| Process Mass Velocity (calc. R/C) | Lb/ s ft2 | 73 / 73 | 80 / 80 | |
| Coking Allowance (dP calcs) | in | | | |
| Pressure Drop, Clean (allow. / calc.) | psi | 10 / 6 | 10 / 7 | |
| Pressure Drop, Fouled (allow. / calc.) | psi | | | |
| Average Heat Flux (allowable) | BTU/ hr ft2 | 13,000 | 13,000 | |
| Average Heat Flux (calculated) | BTU/ hr ft2 | 12,480 | 15,410 | |
| Maximum Heat Flux (allowable) | BTU/ hr ft2 | | | |
| Maximum Heat Flux (calc. R/C) | BTU/ hr ft2 | 22,200 / 24,050 | 27,400 / 31,190 | |
| Fouling Factor, Internal | hr ft2 °F/ BTU | 0.001 | 0.001 | |
| Corrosion or Erosion Characteristics | - - - | | | |
| Max. Film Temperature (allow. / calc.) | °F | 700 / 654 | 700 / 669 | |
| **Inlet Conditions:** | | | | |
| Temperature | °F | 135 | 75 | |
| Pressure | psig | 934 | 934 | |
| Mass Flow Rate, Liquid | Lb/ hr | 0 | 0 | |
| Mass Flow Rate, Vapor | Lb/ hr | 20,840 | 22,924 | |
| Weight Percent, Liquid / Vapor | wt% | 0% / 100% | 0% / 100% | |
| Density, Liquid / Vapor | Lb/ ft3 | 0.00 / 3.82 | 0.00 / 3.82 | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 21.6 | - - - / 21.6 | |
| Viscosity, Liquid / Vapor | cp | 0.0001 / 0.014 | 0.001 / 0.014 | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0 / 0.617 | 0.000 / 0.617 | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0 / 0.023 | 0.000 / 0.023 | |
| **Outlet Conditions:** | | | | |
| Temperature | °F | 550 | 550 | |
| Pressure | psig | 929 | 928 | |
| Mass Flow Rate, Liquid | Lb/ hr | 0 | 0 | |
| Mass Flow Rate, Vapor | Lb/ hr | 20,840 | 22,924 | |
| Weight Percent, Liquid / Vapor | wt% | 0% / 100% | 0% / 100% | |
| Density, Liquid / Vapor | Lb/ ft3 | 0.00 / 1.88 | 0.00 / 1.88 | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 21.6 | - - - / 21.6 | |
| Viscosity, Liquid / Vapor | cp | 0.000 / 0.020 | 0.0001 / 0.020 | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.000 / 0.719 | 0 / 0.719 | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.000 / 0.042 | 0 / 0.042 | |

| revision | date | description | by | chk'd | appv'd |
|---|---|---|---|---|---|
| Rev. 0 | 2/21/19 | Initial Issue | JF | JZ | |



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Owner Ref.: H-741 THM Ref.: MJ19-384

Ftnt & Rev

## COMBUSTION DESIGN CONDITIONS

### Overall Performance:

| | | | | |
|---|---|---|---|---|
| Operating Case | - - - | Design Case | Over Design Case | |
| Service | - - - | Regen Gas Heater | Regen Gas Heater | |
| Excess Air | mol% | 15.0% | 15.0% | |
| Calculated Heat Release (LHV) | MMBTU/ hr | 6.22 | 8.26 | |
| Guaranteed Efficiency | HR% | 85.1% | 85.1% | |
| Calculated Efficiency | HR% | 90.1% | 88.3% | |
| Radiation Loss | HR% | 2.00% | 2.00% | |
| Flow Rate, Combustion Gen./ Imp. | Lb/ hr | 6,058 | 8,043 | |
| Flue Gas Temp. Leaving (R/C) | °F | 1,530 / 372 | 1,653 / 439 | |
| Flue Gas Mass Velocity | Lb/ sec ft2 | 0.193 | 0.257 | |

### Fuel(s) Data:

| | | Gas 1 Mol.Wt. |
|---|---|---|
| LHV | BTU/ scf | 909 |
| LHV | BTU/ Lb | 21,500 |
| P @ Burner | psig | 150 |
| T @ Burner | °F | 100 |
| MW | Lb/ Lbmole | 16.04 |
| Flow @ design | lb/hr | 289 |
| Flow @ design | scfh | 9,084 |
| Atomizing Media | | - - - |
| Atom. Media P & T | | - - - |

### Components:

| | | |
|---|---|---|
| N | wt% | - - - |
| S | wt% | - - - |
| Ash | wt% | - - - |
| Ni | ppm | - - - |
| Va | ppm | - - - |
| Na | ppm | - - - |
| Fe | ppm | - - - |
| H2 | mol% | 0.0% |
| O2 | mol% | 0.0% |
| N2 + Ar | mol% | 0.0% |
| CO | mol% | 0.0% |
| CO2 | mol% | 0.0% |
| CH4 | mol% | 100.0% |
| C2H6 | mol% | 0.0% |
| C2H4 | mol% | 0.0% |
| C3H8 | mol% | 0.0% |
| C3H6 | mol% | 0.0% |
| C4H10 | mol% | 0.0% |
| C4H8 | mol% | 0.0% |
| C5H12 | mol% | 0.0% |
| C5H10 | mol% | 0.0% |
| C6+ | mol% | 0.0% |
| H2S | ppmv | 0.0% |
| SO2 | mol% | 0.0% |
| NH3 | mol% | 0.0% |
| H2O | mol% | 0.0% |
| spare | mol% | 0.0% |

### Blower/Fan Peformance:

| | | |
|---|---|---|
| Volumetric Flow | acfm | 2,000 |
| Rated Power | HP | 10 |
| Fan Speed | RPM | 3,600 |
| Sound Pressure | dBA | < 85 |
| Area Classification | NEC | Unclassified |

### Burner Design:

| | | | |
|---|---|---|---|
| OEM | - - - | Callidus Technologies, LLC | |
| Type | - - - | Enhanced IFGR | |
| Quantities | - - - | 1 | ULTRA Low NOx |
| Model No. | - - - | CUBL-2W-HC-HZ | Cylindrical |
| Windbox | - - - | yes ... | |
| Location | - - - | EndWall Center ... | Horizontally Fired |

### Pilot Design:

| | | | |
|---|---|---|---|
| Type / Model | Self-Inspirating | / by O.E.M. | |
| Ignition | - - - | Electric | requires elec.ign.system |
| Heat Release | - - - | > 350000 BTU/ hr on ... | Gas 1 |

### Burner Performance:

| | | |
|---|---|---|
| Minimum Heat Release | MMBTU/ hr | 1.82 |
| Design Heat Release | MMBTU/ hr | 8.26 |
| Maximum Heat Release | MMBTU/ hr | 9.08 |
| Burner Turndown | Max:Min | 5.00 |
| Volumetric Ht. Release | BTU/ hr ft3 | 12,715 |
| Pressure @ Arch | inH2O | 0.30 |
| Pressure @ Burner | inH2O | 4.30 |
| Combustion Air T @ Burner | °F | 60 |
| Flue Gas T @ Burner | °F | 1,330 |

### Guaranteed Emissions:

| | | | |
|---|---|---|---|
| Basis of Guarantee | - - - | 3.0% O2, dry (LHV) | |
| NOx Emissions | Lb/MMBTU | 0.040 | 30 ppm |
| SOx Emissions | Lb/MMBTU | no quote | |
| CO Emissions | Lb/MMBTU | 0.041 | 50 ppm |
| VOC Emissions | Lb/MMBTU | 0.019 | 15 ppm |
| UHC Emissions | Lb/MMBTU | 0.007 | 15 ppm |
| SPM10 Emissions | Lb/MMBTU | 0.013 | 15 ppm |
| Noise Emissions | dBA @ 3ft | 85 | |

### Net Flame Clearances:

| | |
|---|---|
| Est. Flame Size | approx. 8.5 ft L x 2.5 ft Diameter |
| Hor Clearance | 0.75 ft NET Tube Clearance |
| Vert. Clearance | 0.75 ft NET Tube Clearance |
| Axial Clearance | 0.67 ft NET Refractory Clearance (to Target hot face) |

### Nominal Flame Clearances:

| from burner CL ... | | Vertical | Horizontal |
|---|---|---|---|
| to Tube CL, API | ft | 5.66 | 3.77 |
| to Tube CL, calc. | ft | 3.25 | 3.25 |
| to Refrac., calc. | ft | n / a | 9.17 |

| | | | | |
|---|---|---|---|---|
| Owner: | Lucid Energy Group | Owner Ref.: | H-60741 | Ftnt |
| Purchaser: | UOPR | Purchaser Ref.: | J514 | & |
| Manufacturer: | Tulsa Heaters Midstream, LLC | THM Ref.: | MJ21-475 | Rev |
| Service: | Regen Gas Heater | Project: | SC20 RSV | |
| Quantity: | 1 | Location: | Jal, NM | |
| SHO Duty: | 5.61 MMBTU/ hr | SHO Model: | SHO500 | |
| BMS Release: | 9.10 MMBTU/ hr | BMS Model: | BMS1500 | |

## PROCESS DESIGN CONDITIONS

| | | Radiant / Convection | Radiant / Convection | | |
|---|---|---|---|---|---|
| Heater Section | - - - | | | | |
| Operating Case | - - - | Design Case | Over Design Case | | |
| Service | - - - | Regen Gas Heater | Regen Gas Heater | | |
| Heat Absorption (R/C) | MMBTU/ hr | 3.53 / 2.07 | 4.37 / 2.91 | | |
| Process Fluid | - - - | Gas | Gas | | |
| Process Mass Flow Rate, Total | Lb/ hr | 20,840 | 22,924 | | |
| Process Bulk Velocity (calc. R/C) | ft/ s | 39 / 19 | 42 / 21 | | |
| Process Mass Velocity (calc. R/C) | Lb/ s ft2 | 73 / 73 | 80 / 80 | | |
| Coking Allowance (dP calcs) | in | | | | |
| Pressure Drop, Clean (allow. / calc.) | psi | 10 / 6 | 10 / 7 | | |
| Pressure Drop, Fouled (allow. / calc.) | psi | | | | |
| Average Heat Flux (allowable) | BTU/ hr ft2 | 16,000 | 16,000 | | |
| Average Heat Flux (calculated) | BTU/ hr ft2 | 12,500 | 15,470 | | |
| Maximum Heat Flux (allowable) | BTU/ hr ft2 | | | | |
| Maximum Heat Flux (calc. R/C) | BTU/ hr ft2 | 22,200 / 23,890 | 27,500 / 31,030 | | |
| Fouling Factor, Internal | hr ft2 °F/ BTU | 0.001 | 0.001 | | |
| Corrosion or Erosion Characteristics | - - - | | | | |
| Max. Film Temperature (allow. / calc.) | °F | 1000 / 654 | 1000 / 669 | | |
| **Inlet Conditions:** | | | | | |
| Temperature | °F | 135 | 75 | | |
| Pressure | psig | 934 | 934 | | |
| Mass Flow Rate, Liquid | Lb/ hr | 0 | 0 | | |
| Mass Flow Rate, Vapor | Lb/ hr | 20,840 | 22,924 | | |
| Weight Percent, Liquid / Vapor | wt% | 0% / 100% | 0% / 100% | | |
| Density, Liquid / Vapor | Lb/ ft3 | 0.00 / 3.82 | 0.00 / 3.82 | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 21.6 | - - - / 21.6 | | |
| Viscosity, Liquid / Vapor | cp | 0 / 0.014 | 0.001 / 0.014 | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0 / 0.617 | 0.000 / 0.617 | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0 / 0.023 | 0.000 / 0.023 | | |
| **Outlet Conditions:** | | | | | |
| Temperature | °F | 550 | 550 | | |
| Pressure | psig | 929 | 928 | | |
| Mass Flow Rate, Liquid | Lb/ hr | 0 | 0 | | |
| Mass Flow Rate, Vapor | Lb/ hr | 20,840 | 22,924 | | |
| Weight Percent, Liquid / Vapor | wt% | 0% / 100% | 0% / 100% | | |
| Density, Liquid / Vapor | Lb/ ft3 | 0.00 / 1.88 | 0.00 / 1.88 | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 21.6 | - - - / 21.6 | | |
| Viscosity, Liquid / Vapor | cp | 0.000 / 0.020 | 0 / 0.020 | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.000 / 0.719 | 0 / 0.719 | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.000 / 0.042 | 0 / 0.042 | | |

| revision | date | description | by | chk'd | appv'd |
|---|---|---|---|---|---|
| Rev. 0 | 27-Oct-21 | Issued for Approval | JF | JDC | |



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Owner Ref.: H-60741 THM Ref.: MJ21-475

Ftnt & Rev

## COMBUSTION DESIGN CONDITIONS

**Overall Performance:**

| | | | | |
|---|---|---|---|---|
| Operating Case | --- | Design Case | Over Design Case | |
| Service | --- | Regen Gas Heate | Regen Gas Heate | |
| Excess Air | mol% | 15.0% | 15.0% | |
| Calculated Heat Release (LHV) | MMBTU/ hr | 6.22 | 8.27 | |
| Guaranteed Efficiency | HR% | 85.1% | 85.1% | |
| Calculated Efficiency | HR% | 90.1% | 88.1% | |
| Radiation Loss | HR% | 2.00% | 2.00% | |
| Flow Rate, Combustion Gen./ Imp. | Lb/ hr | 6,064 | 8,056 | |
| Flue Gas Temp. Leaving (R/C) | °F | 1,527 / 375 | 1,651 / 445 | |
| Flue Gas Mass Velocity | Lb/ sec ft2 | 0.194 | 0.257 | |

**Fuel(s) Data:**

| | | Gas 1 |
|---|---|---|
| | | Mol.Wt. |
| LHV | BTU/ scf | 910 |
| LHV | BTU/ Lb | 21,397 |
| P @ Burner | psig | 150 |
| T @ Burner | °F | 95 |
| MW | Lb/ Lbmole | 16.14 |
| Flow @ design | lb/hr | 386 |
| Flow @ design | scfh | 9,087 |
| Atomizing Media | | - - - |
| Atom. Media P & T | | - - - |

**Components:**

| | | |
|---|---|---|
| N | wt% | - - - |
| S | wt% | - - - |
| Ash | wt% | - - - |
| Ni | ppm | - - - |
| Va | ppm | - - - |
| Na | ppm | - - - |
| Fe | ppm | - - - |
| H2 | mol% | 0.0% |
| O2 | mol% | 0.0% |
| N2 + Ar | mol% | 0.2% |
| CO | mol% | 0.0% |
| CO2 | mol% | 0.0% |
| CH4 | mol% | 99.3% |
| C2H6 | mol% | 0.4% |
| C2H4 | mol% | 0.0% |
| C3H8 | mol% | 0.0% |
| C3H6 | mol% | 0.0% |
| C4H10 | mol% | 0.0% |
| C4H8 | mol% | 0.0% |
| C5H12 | mol% | 0.0% |
| C5H10 | mol% | 0.0% |
| C6+ | mol% | 0.0% |
| H2S | ppmv | 0.0% |
| SO2 | mol% | 0.0% |
| NH3 | mol% | 0.0% |
| H2O | mol% | 0.0% |
| spare | mol% | 0.0% |

**Blower/Fan Peformance:**

| | | |
|---|---|---|
| Volumetric Flow | acfm | 2,000 |
| Rated Power | HP | 7.5 |
| Fan Speed | RPM | 1,800 |
| Sound Pressure | dBA | < 85 |
| Area Classification | NEC | Class I, Div. II, Groups C&D |

**Burner Design:**

| | | | |
|---|---|---|---|
| OEM | --- | Callidus Technologies, LLC | |
| Type | --- | Enhanced IFGR | |
| Quantities | --- | 1 | ULTRA Low NOx |
| Model No. | --- | CUBL-2W-HC-HZ | Cylindrical |
| Windbox | --- | yes ... | |
| Location | --- | EndWall Center ... | Horizontally Fired |

**Pilot Design:**

| | | | |
|---|---|---|---|
| Type / Model | | Self-Inspirating / by O.E.M. | |
| Ignition | --- | Electric | requires elec.ign.system |
| Heat Release | - - | > 350000 BTU/ hr on ... | Gas 1 |

**Burner Performance:**

| | | |
|---|---|---|
| Minimum Heat Release | MMBTU/ hr | 1.82 |
| Design Heat Release | MMBTU/ hr | 8.27 |
| Maximum Heat Release | MMBTU/ hr | 9.10 |
| Burner Turndown | Max:Min | 5.00 |
| Volumetric Ht. Release | BTU/ hr ft3 | 12,726 |
| Pressure @ Arch | inH2O | 0.50 |
| Pressure @ Burner | inH2O | 4.51 |
| Combustion Air T @ Burner | °F | 60 |
| Flue Gas T @ Burner | °F | 1,330 |

**Guaranteed Emissions:**

| | | | |
|---|---|---|---|
| Basis of Guarantee | --- | 3.0% O2, | dry (LHV) |
| NOx Emissions | Lb/MMBTU | 0.053 | 40 ppm |
| SOx Emissions | Lb/MMBTU | no quote | |
| CO Emissions | Lb/MMBTU | 0.041 | 50 ppm |
| VOC Emissions | Lb/MMBTU | 0.019 | 15 ppm |
| UHC Emissions | Lb/MMBTU | 0.007 | 15 ppm |
| SPM10 Emissions | Lb/MMBTU | 0.013 | 15 ppm |
| Noise Emissions | dBA @ 3ft | 85 | |

**Net Flame Clearances:**

| | |
|---|---|
| Est. Flame Size | approx. 8 ft L x 3 ft Diameter |
| Hor Clearance | 0.25 ft NET Tube Clearance |
| Vert. Clearance | 0.25 ft NET Tube Clearance |
| Axial Clearance | 1.17 ft NET Refractory Clearance (to Target hot face) |

**Nominal Flame Clearances:**

| from burner CL ... | | Vertical | Horizontal |
|---|---|---|---|
| to Tube CL, API | ft | 5.66 | 3.77 |
| to Tube CL, calc. | ft | 3.25 | 3.25 |
| to Refrac., calc. | ft | n / a | 9.17 |

# Manufacturer Specification Sheets

Cryo HMO Heaters

- RH2-H-781
- RH3-H-781
- RH4-H-781
- RH5-H-50781
- RH6-H-60781
- RA2-H-20001

| | | | | |
|---|---|---|---|---|
| Owner: | Unknown | | Owner Ref.: | 200 MMscfd Cryo Plant |
| Purchaser: | UOPR | | Purchaser Ref.: | J463 |
| Manufacturer: | Tulsa Heaters Midstream | | THM Ref.: | MJ17-266 / |
| Service: | Heat Medium Heater | | Project: | 200 MMscfd Cryo Plant |
| Number: | 1 | | Location: | Unknown |
| SHO Duty: | 10.35 | MMBTU/ hr | SHO Model: | SHO1750 |

**Design Heat Release***

| | | |
|---|---|---|
| LHV Basis | 12.0 | MMBTU/hr |
| HHV Basis | 13.2 | MMBTU/hr |

**Products of Combustion**

| | MW | | | |
|---|---|---|---|---|
| O2 | 32.00 | 333 | Lbm/ hr | |
| N2 + Ar | 28.15 | 8,451 | Lbm/ hr | |
| CO2 | 44.01 | 1,575 | Lbm/ hr | |
| H2O | 18.02 | 1,277 | Lbm/ hr | |
| NOx | 46.01 | 0.64 | Lbm/ hr | 40 ppm |
| SOx | 64.06 | 0.00 | Lbm/ hr | 0 ppm |
| CO | 28.01 | 0.49 | Lbm/ hr | 50 ppm |
| VOC | 44.10 | 0.23 | Lbm/ hr | 15 ppm |
| UHC | 16.04 | 0.08 | Lbm/ hr | 15 ppm |
| SPM | | 0.17 | Lbm/ hr | 16 ppm |
| Total | | 11,638 | Lbm/ hr | |

| | | |
|---|---|---|
| Flue Gas Exit Temperature | 372 | °F |
| Flue Gas Exit Velocity | 20.8 | Ft/sec |
| Stack Height | 24.3 | ft |
| Stack ID | 28 | in |

**NOTE:**
Emissions above are for design case operation with air and fuel in ratio control. The normal condition defined by cutomer's datasheet will have values less than above on a lb/hr basis and essentially the same on a ppm basis. Turndown and start-up are not considered as guaranteed emissions cases.

* Heat release based on de-rated tuning that occurred on 10-23-25. System configured so that firing rate cannot exceed 12 MMBtu/hr (LHV).

| revision | date | description | by | chk'd | appv'd |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

USA Applications
SHO = Superior Quality, Flexibility, Dependability & Modularity

EMISSIONS PERMIT DATA SHEET
AMERICAN ENGINEERING SYSTEM of UNITS

MJ17-266-Emmisions-



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# UOP RUSSELL, LLC

Tulsa, Oklahoma

JOB NO: TRJ-463 DATE: 3/7/2017
CLIENT: UOP Russell BY: JRG
SUBJECT: 200 MMscfd RSV Cryo Plant

## FIRED HEATER

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Service: | HMO Heater for E-207 | | | | Tag No: | H-781 | |
| Design Duty, MBTU/Hr | 24,750 | | | | Type: | Helical Coil | |
| No. of Coils per Unit | One | No. Units: | One | | THM SHO2500 | | |

| Fluid | | Therminol 55 | | Burners | | |
|---|---|---|---|---|---|---|
| | | Inlet | Outlet | | Gas | Oil |
| Liquids | Lbs/Hr | 415,512 | 415,512 | LHV (BTU/scf) | 973 | |
| Density | Lbs/CuFt | 51.30 | 49.00 | Mol. Wt. | 18.26 | |
| Molecular Weight | | 320.00 | 320.00 | Gravity | | |
| Specific Heat | BTU/Lb °F | 0.5180 | 0.5650 | Pressure Avail. (psig) | 100 | |
| Thermal Cond. | BTU/Hr-Ft-°F | 0.0693 | 0.0656 | Pressure Req'd (psig) | | |
| Viscosity | cP | 3.3100 | 1.311 | Steam for Atomizing | | |
| Vapor | Lbs/Hr | 0 | 0 | Fuel Gas Req'd (MSCFD) | 727.77 | N/A |
| Density | Lbs/CuFt | | | Mfgr: | Callidus CUBL-HC-10W | |
| Molecular Weight | | | | Type: | Forced Draft - 25 HP Blower | |
| Specific Heat | BTU/Lb °F | | | Number Req'd | One | |
| Thermal Cond. | BTU/HrFt °F | | | Pilots Req'd (Note 4) | Yes, electrical ignition | |
| Viscosity | cP | | | NOx | < 40 ppmvd | |
| Operating Temp. | °F | 195 | 305 | **Structural Design** | | |
| Operating Pressure | PSIA | 75 | | Wind Load, MPH, (3) | 120,Exp. C,Cat. III,Cf=0.7 | |
| Velocity | Ft/Sec | | Calc. | Seismic Zone, (3) | | |
| Pressure Drop | PSI | 20 Allow. | Calc. | Ambient, °F | -20 / 110 | |
| Fouling Resistance | SqFt*F/BTU | 0.0020 | | Elevation, Ft | 1300 | |
| Design Press. / Temp. | | 150 PSIG | 500 °F | **Stack Design** | | |
| Min. Design Mtl. Temp. | | -20 °F @ | 150 PSIG | Self-supporting | Yes | |
| Corrosion Allowance | | 0.0625 | | Minimum Height | 8 ft above top of heater | |
| Insulation Thickness | | 3-5" high temp ceramic fiber | | Minimum Wall Thickness: | 0.125 | |
| Efficiency-Based on LHV | (%) | 86.4% (Assume 3% Loss) | | Lining Type | No | |
| Excess Air | | 15 | | Lining Thickness: | No | |
| Firebox Unit Heat Release | | | BTU/Hr- Ft^3 | Damper: | No | |
| Number of Passes | | 2 Pass | | | | |

| Coil Design | | Radiant | Convection-Bare | Convection-Finned | |
|---|---|---|---|---|---|
| Gas Temperature | In/Out | / 1430 | / 398 | | |
| Number Tubes | | 29 | 5 | 25 | |
| Tube O.D. | In | 5.563 | 5.563 | 5.563 | |
| Tube Length | Eff. Ft | 35.34 | 12.46 | 12.46 | |
| Bare Surface | Sq Ft | 1,491 | 91 | ----- | |
| Finned Surface | Sq Ft | ----- | ----- | 5936 | |
| Avg. Heat Flux | BTU/Hr-Sq Ft | 11,080 | | | |
| Tube Materials | | SA- 106 Gr. B | SA- 106 Gr. B | SA- 106 Gr. B | |

| | | | | | |
|---|---|---|---|---|---|
| Convection Fins (inch): | Height: | Thickness: | No. / inch: | Material: | |
| Overall Dimension: | | | | | |
| Code Requirements: | ASME VIII Div I | Stamp: | Yes | Nat'l Board: | Yes |

**Notes:**

1) Add 10% to duty and flow rates for design.
2) See attached Scope of Supply.
3) Wind design per ASCE 7-10, Cat. III, Exposure C. Seismic design per ASCE 7-10, I=1.25, Site D. , $S_S$ =100% , $S_1$ =40%
4) Add Spare ignitor

| REVISION | A | | 0 | | 1 | | | |
|---|---|---|---|---|---|---|---|---|
| ENGINEER/DATE | JRG | 3/7/17 | JRG | 3/23/17 | SOO | 11/13/17 | | |
| ISSUED FOR | RFQ | | Purchase | | Purchase | | | |

| | | | | | |
|---|---|---|---|---|---|
| Owner: | Unknown | | Owner Ref.: | H-781 | Ftnt |
| Purchaser: | UOPR | | Purchaser Ref.: | J479 | & |
| Manufacturer: | Tulsa Heaters Midstream, LLC | | THM Ref.: | MJ17-272 | Rev |
| Service: | Heat Medium Heater | | Project: | 200 MMscfd Cryo Plant | |
| Quantity: | 1 | | Location: | Unknown | |
| SHO Duty: | 17.55 | MMBTU/ hr | SHO Model: | SHO1750 | |
| CMS Release: | 22.30 | MMBTU/ hr | CMS Model: | CMS2500 | |
| SHOS Flow: | 650 | USgpm @ 137 ft TDH | SHOS.Model: | SHOS660 | |

## PROCESS DESIGN CONDITIONS

| | | | | |
|---|---|---|---|---|
| Heater Section | --- | Radiant / Convection | Radiant / Convection | |
| Operating Case | --- | Over-Design Case | Design Case | |
| Service | --- | Heat Medium Heat | Heat Medium Heat | |
| Heat Absorption (R/C) | MMBTU/ hr | 11.82 / 5.72 | 10.88 / 5.07 | |
| Process Fluid | --- | Therminol 55 | Therminol 55 | |
| Process Mass Flow Rate, Total | Lb/ hr | 267,775 | 267,775 | |
| Process Bulk Velocity (calc. R/C) | ft/ s | 9 / 8 | 9 / 8 | |
| Process Mass Velocity (calc. R/C) | Lb/ s ft2 | 421 / 421 | 421 / 421 | |
| Coking Allowance (dP calcs) | in | | | |
| Pressure Drop, Clean (allow. / calc.) | psi | 20 / 21 | 20 / 21 | |
| Pressure Drop, Fouled (allow. / calc.) | psi | | | |
| Average Heat Flux (allowable) | BTU/ hr ft2 | 13,000 | 13,000 | |
| Average Heat Flux (calculated) | BTU/ hr ft2 | 11,560 | 10,640 | |
| Maximum Heat Flux (allowable) | BTU/ hr ft2 | | | |
| Maximum Heat Flux (calc. R/C) | BTU/ hr ft2 | 20,600 / 32,070 | 18,900 / 29,070 | |
| Fouling Factor, Internal | hr ft2 °F/ BTU | 0.002 | 0.002 | |
| Corrosion or Erosion Characteristics | --- | | | |
| Max. Film Temperature (allow. / calc.) | °F | 650 / 423 | 650 / 413 | |
| **Inlet Conditions:** | | | | |
| Temperature | °F | 195 | 195 | |
| Pressure | psig | 60 | 60 | |
| Mass Flow Rate, Liquid | Lb/ hr | 267,775 | 267,775 | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | 0 | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | 100% / 0% | |
| Density, Liquid / Vapor | Lb/ ft3 | 51.30 / 0.00 | 51.30 / 0.00 | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | --- / 0.0 | --- / 0.0 | |
| Viscosity, Liquid / Vapor | cp | 3.3101 / 0.000 | 3.310 / 0.000 | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.518 / 0.000 | 0.518 / 0.000 | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.0693 / 0.000 | 0.069 / 0.000 | |
| **Outlet Conditions:** | | | | |
| Temperature | °F | 305 | 305 | |
| Pressure | psig | 41 | 41 | |
| Mass Flow Rate, Liquid | Lb/ hr | 267,775 | 267,775 | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | 0 | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | 100% / 0% | |
| Density, Liquid / Vapor | Lb/ ft3 | 49.00 / 0.00 | 49.00 / 0.00 | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | --- / 0.0 | --- / 0.0 | |
| Viscosity, Liquid / Vapor | cp | 1.311 / 0.000 | 1.311 / 0.000 | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.565 / 0.000 | 0.565 / 0.000 | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.066 / 0.000 | 0.0656 / 0.000 | |

| revision | date | description | by | chk'd | appv'd |
|---|---|---|---|---|---|
| Rev. 0 | 19-Aug-17 | Issued for Approval | JF | JDC | |



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Owner Ref.: H-781 THM Ref.: MJ17-272

Ftnt & Rev

## COMBUSTION DESIGN CONDITIONS

| Overall Performance: | | | | | | |
|---|---|---|---|---|---|---|
| Operating Case | --- | Over-Design Case | Design Case | | | |
| Service | --- | Heat Medium Heat | Heat Medium Heat | | | |
| Excess Air | mol% | 15.0% | 15.0% | | | |
| Calculated Heat Release (LHV) | MMBTU/ hr | 20.28 | 18.22 | | | |
| Guaranteed Efficiency | HR% | 84.5% | 85.6% | | | |
| Calculated Efficiency | HR% | 86.5% | 87.6% | | | |
| Radiation Loss | HR% | 3.00% | 3.00% | | | |
| Flow Rate, Combustion Gen./ Imp. | Lb/ hr | 19,739 | 17,736 | | | |
| Flue Gas Temp. Leaving (R/C) | °F | 1,452 / 468 | 1,402 / 429 | | | |
| Flue Gas Mass Velocity | Lb/ sec ft2 | 0.472 | 0.424 | | | |

| Fuel(s) Data: | | Gas 1 | | | |
|---|---|---|---|---|---|
| | | Mol.Wt. | | | |
| LHV | BTU/ scf | 976 | | | |
| LHV | BTU/ Lb | 20,426 | | | |
| P @ Burner | psig | 75 | | | |
| T @ Burner | °F | 100 | | | |
| MW | Lb/ Lbmole | 18.13 | | | |
| m @ ??? °F | cp | --- | | | |
| m @ ??? °F | cp | --- | | | |
| Atomizing Media | | --- | | | |
| Atom. Media P & T | | --- | | | |

| Components: | | | | | |
|---|---|---|---|---|---|
| N | wt% | --- | | | |
| S | wt% | --- | | | |
| Ash | wt% | --- | | | |
| Ni | ppm | --- | | | |
| Va | ppm | --- | | | |
| Na | ppm | --- | | | |
| Fe | ppm | --- | | | |
| H2 | mol% | 0.0% | | | |
| O2 | mol% | 0.0% | | | |
| N2 + Ar | mol% | 1.0% | | | |
| CO | mol% | 0.0% | | | |
| CO2 | mol% | 1.0% | | | |
| CH4 | mol% | 88.0% | | | |
| C2H6 | mol% | 8.0% | | | |
| C2H4 | mol% | 0.0% | | | |
| C3H8 | mol% | 2.0% | | | |
| C3H6 | mol% | 0.0% | | | |
| C4H10 | mol% | 0.0% | | | |
| C4H8 | mol% | 0.0% | | | |
| C5H12 | mol% | 0.0% | | | |
| C5H10 | mol% | 0.0% | | | |
| C6+ | mol% | 0.0% | | | |
| H2S | ppmv | 0.0% | | | |
| SO2 | mol% | 0.0% | | | |
| NH3 | mol% | 0.0% | | | |
| H2O | mol% | 0.0% | | | |
| spare | mol% | 0.0% | | | |

| Blower/Fan Peformance: | | |
|---|---|---|
| Volumetric Flow | acfm | 4,300 |
| Rated Power | HP | 15 |
| Fan Speed | RPM | 3,600 |
| Sound Pressure | dBA | < 85 |
| Area Classification | NEC | Unclassified |

| Burner Design: | | | |
|---|---|---|---|
| OEM | --- | Callidus Technologies, LLC | |
| Type | --- | Enhanced IFGR | ULTRA Low NOx |
| Quantities | --- | 1 | Burner |
| Model No. | --- | CUBL-5W | Cylindrical |
| Windbox | --- | yes ... | |
| Location | --- | EndWall Center ... | Horizontally Fired |
| Pilot Design: | | | |
| Type / Model | | Self-Inspirating / by O.E.M. | |
| Ignition | --- | Electric | requires elec.ign.system |
| Heat Release | --- | > 90000 BTU/ hr on ... | Gas 1 |

| Burner Performance: | | |
|---|---|---|
| Minimum Heat Release | MMBTU/ hr | 4.46 |
| Design Heat Release | MMBTU/ hr | 20.28 |
| Maximum Heat Release | MMBTU/ hr | 22.30 |
| Burner Turndown | Max:Min | 5.00 |
| Volumetric Ht. Release | BTU/ hr ft3 | 10,034 |
| Pressure @ Arch | inH2O | 0.60 |
| Pressure @ Burner | inH2O | 7.75 |
| Combustion Air T @ Burner | °F | 60 |
| Flue Gas T @ Burner | °F | 1,260 |

| Guaranteed Emissions: | | | |
|---|---|---|---|
| Basis of Guarantee | --- | 3.0% O2, dry (LHV) | |
| NOx Emissions | Lb/MMBTU | 0.053 | 40 ppm |
| SOx Emissions | Lb/MMBTU | no quote | |
| CO Emissions | Lb/MMBTU | 0.041 | 50 ppm |
| VOC Emissions | Lb/MMBTU | 0.019 | 15 ppm |
| UHC Emissions | Lb/MMBTU | 0.007 | 15 ppm |
| SPM10 Emissions | Lb/MMBTU | 0.014 | 16 ppm |
| Noise Emissions | dBA @ 3ft | 85 | |

| Net Flame Clearances: | |
|---|---|
| Est. Flame Size | approx. 19.7 ft L x 3.5 ft Diameter |
| Hor Clearance | 1 ft NET Tube Clearance |
| Vert. Clearance | 1 ft NET Tube Clearance |
| Axial Clearance | 1.45 ft NET Refractory Clearance (to Arch hot face) |

| Nominal Flame Clearances: | | | |
|---|---|---|---|
| from burner CL ... | | Vertical | Horizontal |
| to Tube CL, API | ft | 10.61 | 7.08 |
| to Tube CL, calc. | ft | 4.50 | 4.50 |
| to Refrac., calc. | ft | n / a | 21.17 |

| | | | | | |
|---|---|---|---|---|---|
| Owner: | TBD | | Owner Ref.: | H-781 | Ftnt |
| Purchaser: | UOPR | | Purchaser Ref.: | J490 | & |
| Manufacturer: | Tulsa Heaters Midstream, LLC | | THM Ref.: | MJ18-370 / | Rev |
| Service: | Heat Medium Heater | | Project: | 200 MMscfd Cryo (Sat'd) | |
| Quantity: | 1 | | Location: | TBD | |
| SHO Duty: | 24.75 | MMBTU/ hr | SHO Model: | SHO2500 | |
| CMS Release: | 33.99 | MMBTU/ hr | CMS Model: | CMS5500 | |
| SHOS Flow: | 1,110 | USgpm @ 137 ft TDH | SHOS.Model: | SHOS1220 | |

## PROCESS DESIGN CONDITIONS

| | | Radiant / Convection | Radiant / Convection | Radiant / Convection | Radiant / Convection |
|---|---|---|---|---|---|
| Heater Section | - - - | | | | |
| Operating Case | - - - | Design Case | Over Design Case | | |
| Service | - - - | Heat Medium Heat | Heat Medium Heat | | |
| Heat Absorption (R/C) | MMBTU/ hr | 16.60 / 8.15 | 17.99 / 9.24 | | |
| Process Fluid | - - - | Therminol 55 | Therminol 55 | | |
| Process Mass Flow Rate, Total | Lb/ hr | 415,512 | 457,063 | | |
| Process Bulk Velocity (calc. R/C) | ft/ s | 8 / 8 | 9 / 9 | | |
| Process Mass Velocity (calc. R/C) | Lb/ s ft2 | 415 / 415 | 457 / 457 | | |
| Coking Allowance (dP calcs) | in | | | | |
| Pressure Drop, Clean (allow. / calc.) | psi | 20 / 20 | 20 / 26 | | |
| Pressure Drop, Fouled (allow. / calc.) | psi | | | | |
| Average Heat Flux (allowable) | BTU/ hr ft2 | 13,000 | 13,000 | | |
| Average Heat Flux (calculated) | BTU/ hr ft2 | 11,140 | 12,070 | | |
| Maximum Heat Flux (allowable) | BTU/ hr ft2 | | | | |
| Maximum Heat Flux (calc. R/C) | BTU/ hr ft2 | 20,300 / 24,260 | 22,000 / 27,010 | | |
| Fouling Factor, Internal | hr ft2 °F/ BTU | 0.002 | 0.002 | | |
| Corrosion or Erosion Characteristics | - - - | | | | |
| Max. Film Temperature (allow. / calc.) | °F | 635 / 426 | 635 / 427 | | |
| **Inlet Conditions:** | | | | | |
| Temperature | °F | 195 | 195 | | |
| Pressure | psig | 60 | 60 | | |
| Mass Flow Rate, Liquid | Lb/ hr | 415,512 | 457,063 | | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | 0 | | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | 100% / 0% | | |
| Density, Liquid / Vapor | Lb/ ft3 | 51.30 / 0.00 | 51.30 / 0.00 | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 0.0 | - - - / 0.0 | | |
| Viscosity, Liquid / Vapor | cp | 3.3101 / 0.000 | 3.310 / 0.000 | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.518 / 0.000 | 0.518 / 0.000 | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.0693 / 0.000 | 0.069 / 0.000 | | |
| **Outlet Conditions:** | | | | | |
| Temperature | °F | 305 | 305 | | |
| Pressure | psig | 40 | 36 | | |
| Mass Flow Rate, Liquid | Lb/ hr | 415,512 | 457,063 | | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | 0 | | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | 100% / 0% | | |
| Density, Liquid / Vapor | Lb/ ft3 | 49.00 / 0.00 | 49.00 / 0.00 | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 0.0 | - - - / 0.0 | | |
| Viscosity, Liquid / Vapor | cp | 1.311 / 0.000 | 1.311 / 0.000 | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.565 / 0.000 | 0.565 / 0.000 | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.066 / 0.000 | 0.0656 / 0.000 | | |

| revision | date | description | by | chk'd | appv'd |
|---|---|---|---|---|---|
| A | | Issued with Proposal | | | |

TULSA HEATERS MIDSTREAM

USA Applications

SHO = Superior Quality, Flexibility, Dependability & Modularity

FIRED HEATER DATA SHEET

AMERICAN ENGINEERING SYSTEM of UNITS

MJ18-370-HTRds-



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Owner Ref.: H-781 THM Ref.: MJ18-370

Ftnt & Rev

## COMBUSTION DESIGN CONDITIONS

| Overall Performance: | | | | | |
|---|---|---|---|---|---|
| Operating Case | --- | Design Case | Over Design Case | | |
| Service | --- | Heat Medium Heat | Heat Medium Heat | | |
| Excess Air | mol% | 15.0% | 15.0% | | |
| Calculated Heat Release (LHV) | MMBTU/ hr | 27.83 | 30.90 | | |
| Guaranteed Efficiency | HR% | 86.9% | 86.9% | | |
| Calculated Efficiency | HR% | 88.9% | 88.1% | | |
| Radiation Loss | HR% | 2.00% | 2.00% | | |
| Flow Rate, Combustion Gen./ Imp. | Lb/ hr | 27,108 | 30,103 | | |
| Flue Gas Temp. Leaving (R/C) | °F | 1,433 / 413 | 1,483 / 446 | | |
| Flue Gas Mass Velocity | Lb/ sec ft2 | 0.327 | 0.363 | | |

| Fuel(s) Data: | | Gas 1 Mol.Wt. | Gas 2 Mol.Wt. | Gas 3 Mol.Wt. | Design Fuel Oil |
|---|---|---|---|---|---|
| LHV | BTU/ scf | 909 | | | --- |
| LHV | BTU/ Lb | 21,500 | | | |
| P @ Burner | psig | 150 | | | |
| T @ Burner | °F | 100 | | | |
| MW | Lb/ Lbmole | 16.04 | | | --- |
| Flow @ design | lb/hr | 1,294 | | | |
| Flow @ design | scfh | 33,998 | | | |
| Atomizing Media | | --- | | | |
| Atom. Media P & T | | --- | | | |
| Components: | | | | | |
| N | wt% | --- | | | |
| S | wt% | --- | | | |
| Ash | wt% | --- | | | |
| Ni | ppm | --- | | | |
| Va | ppm | --- | | | |
| Na | ppm | --- | | | |
| Fe | ppm | --- | | | |
| H2 | mol% | 0.0% | | | --- |
| O2 | mol% | 0.0% | | | --- |
| N2 + Ar | mol% | 0.0% | | | --- |
| CO | mol% | 0.0% | | | --- |
| CO2 | mol% | 0.0% | | | --- |
| CH4 | mol% | 100.0% | | | --- |
| C2H6 | mol% | 0.0% | | | --- |
| C2H4 | mol% | 0.0% | | | --- |
| C3H8 | mol% | 0.0% | | | --- |
| C3H6 | mol% | 0.0% | | | --- |
| C4H10 | mol% | 0.0% | | | --- |
| C4H8 | mol% | 0.0% | | | --- |
| C5H12 | mol% | 0.0% | | | --- |
| C5H10 | mol% | 0.0% | | | --- |
| C6+ | mol% | 0.0% | | | --- |
| H2S | ppmv | 0.0% | | | --- |
| SO2 | mol% | 0.0% | | | --- |
| NH3 | mol% | 0.0% | | | --- |
| H2O | mol% | 0.0% | | | --- |
| spare | mol% | 0.0% | | | --- |

| Blower/Fan Peformance: | | |
|---|---|---|
| Volumetric Flow | acfm | 7,200 |
| Rated Power | HP | 40 |
| Fan Speed | RPM | 3,600 |
| Sound Pressure | dBA | < 85 |
| Area Classification | NEC | Unclassified |

| Burner Design: | | | |
|---|---|---|---|
| OEM | --- | Callidus Technologies, LLC | |
| Type | --- | Enhanced IFGR | |
| Quantities | --- | 1 | ULTRA Low NOx |
| Model No. | --- | CUBL-8W-HC-HZ | Cylindrical |
| Windbox | --- | yes ... | |
| Location | --- | EndWall Center ... | Horizontally Fired |
| Pilot Design: | | | |
| Type / Model | | Self-Inspirating / by O.E.M. | |
| Ignition | --- | Electric | requires elec.ign.system |
| Heat Release | --- | > 350000 BTU/ hr on ... | Gas 1 |

| Burner Performance: | | |
|---|---|---|
| Minimum Heat Release | MMBTU/ hr | 6.80 |
| Design Heat Release | MMBTU/ hr | 30.90 |
| Maximum Heat Release | MMBTU/ hr | 33.99 |
| Burner Turndown | Max:Min | 5.00 |
| Volumetric Ht. Release | BTU/ hr ft3 | 7,723 |
| Pressure @ Arch | inH2O | 0.50 |
| Pressure @ Burner | inH2O | 8.34 |
| Combustion Air T @ Burner | °F | 60 |
| Flue Gas T @ Burner | °F | 1,240 |

| Guaranteed Emissions: | | | |
|---|---|---|---|
| Basis of Guarantee | --- | 3.0% O2, | dry (LHV) |
| NOx Emissions | Lb/MMBTU | 0.040 | 30 ppm |
| SOx Emissions | Lb/MMBTU | no quote | |
| CO Emissions | Lb/MMBTU | 0.041 | 50 ppm |
| VOC Emissions | Lb/MMBTU | 0.019 | 15 ppm |
| UHC Emissions | Lb/MMBTU | 0.007 | 15 ppm |
| SPM10 Emissions | Lb/MMBTU | 0.013 | 15 ppm |
| Noise Emissions | dBA @ 3ft | 85 | |

| Net Flame Clearances: | |
|---|---|
| Est. Flame Size | approx. 20.5 ft L x 4.5 ft Diameter |
| Hor Clearance | 1.13 ft NET Tube Clearance |
| Vert. Clearance | 1.13 ft NET Tube Clearance |
| Axial Clearance | 3.67 ft NET Refractory Clearance (to Target hot face) |

| Nominal Flame Clearances: from burner CL ... | | Vertical | Horizontal |
|---|---|---|---|
| to Tube CL, API | ft | 15.00 | 10.00 |
| to Tube CL, calc. | ft | 5.63 | 5.63 |
| to Refrac., calc. | ft | n / a | 24.17 |

| | | | | | |
|---|---|---|---|---|---|
| Owner: | Lucid Energy Group | | Owner Ref.: | H-60781 | Ftnt |
| Purchaser: | UOPR | | Purchaser Ref.: | J514 | & |
| Manufacturer: | Tulsa Heaters Midstream, LLC | | THM Ref.: | MJ21-476 | Rev |
| Service: | Heat Medium Heater | | Project: | SC20 RSV | |
| Quantity: | 1 | | Location: | Jal, NM | |
| SHO Duty: | 24.75 | MMBTU/ hr | SHO Model: | SHO2500 | |
| BMS Release: | 33.85 | MMBTU/ hr | BMS Model: | BMS5500 | |
| SHOS Flow: | 1,110 | USgpm @ 200 ft TDH | SHOS.Model: | SHOS1220 | |

## PROCESS DESIGN CONDITIONS

| | | | | |
|---|---|---|---|---|
| Heater Section | - - - | Radiant / Convection | Radiant / Convection | |
| Operating Case | - - - | Design Case | Over Design Case | |
| Service | - - - | Heat Medium Heat | Heat Medium Heat | |
| Heat Absorption (R/C) | MMBTU/ hr | 16.13 / 8.62 | 17.94 / 9.28 | |
| Process Fluid | - - - | Therminol 55 | Therminol 55 | |
| Process Mass Flow Rate, Total | Lb/ hr | 415,512 | 457,063 | |
| Process Bulk Velocity (calc. R/C) | ft/ s | 8 / 8 | 9 / 9 | |
| Process Mass Velocity (calc. R/C) | Lb/ s ft2 | 415 / 415 | 457 / 457 | |
| Coking Allowance (dP calcs) | in | | | |
| Pressure Drop, Clean (allow. / calc.) | psi | 20 / 21 | 20 / 26 | |
| Pressure Drop, Fouled (allow. / calc.) | psi | | | |
| Average Heat Flux (allowable) | BTU/ hr ft2 | 13,000 | 13,000 | |
| Average Heat Flux (calculated) | BTU/ hr ft2 | 10,820 | 12,040 | |
| Maximum Heat Flux (allowable) | BTU/ hr ft2 | | | |
| Maximum Heat Flux (calc. R/C) | BTU/ hr ft2 | 19,700 / 25,270 | 21,900 / 27,110 | |
| Fouling Factor, Internal | hr ft2 °F/ BTU | 0.002 | 0.002 | |
| Corrosion or Erosion Characteristics | - - - | | | |
| Max. Film Temperature (allow. / calc.) | °F | 635 / 423 | 635 / 426 | |
| **Inlet Conditions:** | | | | |
| Temperature | °F | 195 | 195 | |
| Pressure | psig | 60 | 60 | |
| Mass Flow Rate, Liquid | Lb/ hr | 415,512 | 457,063 | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | 0 | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | 100% / 0% | |
| Density, Liquid / Vapor | Lb/ ft3 | 51.30 / 0.00 | 51.30 / 0.00 | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 0.0 | - - - / 0.0 | |
| Viscosity, Liquid / Vapor | cp | 3.3101 / 0.000 | 3.310 / 0.000 | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.518 / 0.000 | 0.518 / 0.000 | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.0693 / 0.000 | 0.069 / 0.000 | |
| **Outlet Conditions:** | | | | |
| Temperature | °F | 305 | 305 | |
| Pressure | psig | 40 | 36 | |
| Mass Flow Rate, Liquid | Lb/ hr | 415,512 | 457,063 | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | 0 | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | 100% / 0% | |
| Density, Liquid / Vapor | Lb/ ft3 | 49.00 / 0.00 | 49.00 / 0.00 | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 0.0 | - - - / 0.0 | |
| Viscosity, Liquid / Vapor | cp | 1.311 / 0.000 | 1.311 / 0.000 | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.565 / 0.000 | 0.565 / 0.000 | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.066 / 0.000 | 0.0656 / 0.000 | |

| | | | | | |
|---|---|---|---|---|---|
| Rev. 0 | 27-Oct-21 | Issued for Approval | JF | JDC | |
| revision | date | description | by | chk'd | appv'd |



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Owner Ref.: H-60781 THM Ref.: MJ21-476

Ftnt & Rev

## COMBUSTION DESIGN CONDITIONS

### Overall Performance:

| | | | | | | |
|---|---|---|---|---|---|---|
| Operating Case | | --- | Design Case | Over Design Case | | |
| Service | | --- | Heat Medium Heat | Heat Medium Heat | | |
| Excess Air | | mol% | 25.0% | 25.0% | | |
| Calculated Heat Release (LHV) | | MMBTU/ hr | 28.11 | 30.78 | | |
| Guaranteed Efficiency | | HR% | 86.1% | 86.1% | | |
| Calculated Efficiency | | HR% | 88.1% | 88.5% | | |
| Radiation Loss | | HR% | 2.00% | 2.00% | | |
| Flow Rate, Combustion Gen./ Imp. | | Lb/ hr | 29,651 | 32,465 | | |
| Flue Gas Temp. Leaving (R/C) | | °F | 1,409 / 420 | 1,472 / 432 | | |
| Flue Gas Mass Velocity | | Lb/ sec ft2 | 0.358 | 0.392 | | |

### Fuel(s) Data:

| | | Gas 1 Mol.Wt. | | | |
|---|---|---|---|---|---|
| LHV | BTU/ scf | 910 | | | |
| LHV | BTU/ Lb | 21,397 | | | |
| P @ Burner | psig | 150 | | | |
| T @ Burner | °F | 95 | | | |
| MW | Lb/ Lbmole | 16.14 | | | |
| Flow @ design | lb/hr | 1,438 | | | |
| Flow @ design | scfh | 33,822 | | | |
| Atomizing Media | | --- | | | |
| Atom. Media P & T | | --- | | | |

### Components:

| | | | | | |
|---|---|---|---|---|---|
| N | wt% | --- | | | |
| S | wt% | --- | | | |
| Ash | wt% | --- | | | |
| Ni | ppm | --- | | | |
| Va | ppm | --- | | | |
| Na | ppm | --- | | | |
| Fe | ppm | --- | | | |
| H2 | mol% | 0.0% | | | |
| O2 | mol% | 0.0% | | | |
| N2 + Ar | mol% | 0.2% | | | |
| CO | mol% | 0.0% | | | |
| CO2 | mol% | 0.0% | | | |
| CH4 | mol% | 99.3% | | | |
| C2H6 | mol% | 0.4% | | | |
| C2H4 | mol% | 0.0% | | | |
| C3H8 | mol% | 0.0% | | | |
| C3H6 | mol% | 0.0% | | | |
| C4H10 | mol% | 0.0% | | | |
| C4H8 | mol% | 0.0% | | | |
| C5H12 | mol% | 0.0% | | | |
| C5H10 | mol% | 0.0% | | | |
| C6+ | mol% | 0.0% | | | |
| H2S | ppmv | 0.0% | | | |
| SO2 | mol% | 0.0% | | | |
| NH3 | mol% | 0.0% | | | |
| H2O | mol% | 0.0% | | | |
| spare | mol% | 0.0% | | | |

### Blower/Fan Peformance:

| | | |
|---|---|---|
| Volumetric Flow | acfm | 7,800 |
| Rated Power | HP | 40 |
| Fan Speed | RPM | 3,600 |
| Sound Pressure | dBA | < 85 |
| Area Classification | NEC | Class I, Div. II, Groups C&D |

### Burner Design:

| | | | |
|---|---|---|---|
| OEM | --- | Callidus Technologies, LLC | |
| Type | --- | Enhanced IFGR | |
| Quantities | --- | 1 | ULTRA Low NOx |
| Model No. | --- | CUBL-12W-HC-HZ | Cylindrical |
| Windbox | --- | yes ... | |
| Location | --- | EndWall Center ... | Horizontally Fired |

### Pilot Design:

| | | | | |
|---|---|---|---|---|
| Type / Model | | Self-Inspirating / by O.E.M. | | |
| Ignition | --- | Electric | | requires elec.ign.system |
| Heat Release | - - | > 350000 | BTU/ hr on ... | Gas 1 |

### Burner Performance:

| | | |
|---|---|---|
| Minimum Heat Release | MMBTU/ hr | 6.77 |
| Design Heat Release | MMBTU/ hr | 30.78 |
| Maximum Heat Release | MMBTU/ hr | 33.85 |
| Burner Turndown | Max:Min | 5.00 |
| Volumetric Ht. Release | BTU/ hr ft3 | 7,801 |
| Pressure @ Arch | inH2O | 0.60 |
| Pressure @ Burner | inH2O | 3.81 |
| Combustion Air T @ Burner | °F | 60 |
| Flue Gas T @ Burner | °F | 1,210 |

### Guaranteed Emissions:

| | | | |
|---|---|---|---|
| Basis of Guarantee | --- | 3.0% O2, dry (LHV) | |
| NOx Emissions | Lb/MMBTU | 0.053 | 37 ppm |
| SOx Emissions | Lb/MMBTU | no quote | |
| CO Emissions | Lb/MMBTU | 0.041 | 46 ppm |
| VOC Emissions | Lb/MMBTU | 0.019 | 14 ppm |
| UHC Emissions | Lb/MMBTU | 0.007 | 14 ppm |
| SPM10 Emissions | Lb/MMBTU | 0.013 | 14 ppm |
| Noise Emissions | dBA @ 3ft | 85 | |

### Net Flame Clearances:

| | |
|---|---|
| Est. Flame Size | approx. 28 ft L x 5 ft Diameter |
| Hor Clearance | 0.63 ft NET Tube Clearance |
| Vert. Clearance | 0.63 ft NET Tube Clearance |
| Axial Clearance | -3.83 ft NET Refractory Clearance (to Target hot face) |

### Nominal Flame Clearances:

| from burner CL ... | | Vertical | Horizontal |
|---|---|---|---|
| to Tube CL, API | ft | 14.95 | 9.96 |
| to Tube CL, calc. | ft | 5.63 | 5.63 |
| to Refrac., calc. | ft | n / a | 24.17 |

| | | | | | |
|---|---|---|---|---|---|
| Owner: | Lucid Energy Group | | Owner Ref.: | H-60001 | Ftnt |
| Purchaser: | Lucid Energy Group | | Purchaser Ref.: | TBD | & |
| Manufacturer: | Tulsa Heaters Midstream, LLC | | THM Ref.: | MJ21-474 | Rev |
| Service: | Hot Oil Heater | | Project: | Red Hills 6 | |
| Quantity: | 1 | | Location: | Jal, New Mexico | |
| SHO Duty: | 70.00 | MMBTU/ hr | SHO Model: | SHO5000 | |
| CMS Release: | 89.94 | MMBTU/ hr | CMS Model: | BMS8500 | |
| SHOS Flow: | 1,560 | USgpm @ 187 ft TDH | SHOS.Model: | N/A | |

## PROCESS DESIGN CONDITIONS

| | | | | | |
|---|---|---|---|---|---|
| Heater Section | - - - | Radiant / Convection | | | |
| Operating Case | - - - | Design Case | | | |
| Service | - - - | Hot Oil Heater | | | |
| Heat Absorption (R/C) | MMBTU/ hr | 41.24 / 28.76 | | | |
| Process Fluid | - - - | Chemtherm 550 | | | |
| Process Mass Flow Rate, Total | Lb/ hr | 645,000 | | | |
| Process Bulk Velocity (calc. R/C) | ft/ s | 9 / 9 | | | |
| Process Mass Velocity (calc. R/C) | Lb/ s ft2 | 447 / 447 | | | |
| Coking Allowance (dP calcs) | in | | | | |
| Pressure Drop, Clean (allow. / calc.) | psi | 30 / 29 | | | |
| Pressure Drop, Fouled (allow. / calc.) | psi | | | | |
| Average Heat Flux (allowable) | BTU/ hr ft2 | 13,000 | | | |
| Average Heat Flux (calculated) | BTU/ hr ft2 | 14,450 | | | |
| Maximum Heat Flux (allowable) | BTU/ hr ft2 | | | | |
| Maximum Heat Flux (calc. R/C) | BTU/ hr ft2 | 26,000 / 34,950 | | | |
| Fouling Factor, Internal | hr ft2 °F/ BTU | 0.002 | | | |
| Corrosion or Erosion Characteristics | - - - | | | | |
| Max. Film Temperature (allow. / calc.) | °F | 640 / 568 | | | |
| **Inlet Conditions:** | | | | | |
| Temperature | °F | 280 | | | |
| Pressure | psig | 75 | | | |
| Mass Flow Rate, Liquid | Lb/ hr | 645,000 | | | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | | | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | | | |
| Density, Liquid / Vapor | Lb/ ft3 | 51.43 / 0.00 | | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 0.0 | | | |
| Viscosity, Liquid / Vapor | cp | 2.3127 / 0.000 | | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.5602 / 0.000 | | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.0705 / 0.000 | | | |
| **Outlet Conditions:** | | | | | |
| Temperature | °F | 460 | | | |
| Pressure | psig | 46 | | | |
| Mass Flow Rate, Liquid | Lb/ hr | 645,000 | | | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | | | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | | | |
| Density, Liquid / Vapor | Lb/ ft3 | 47.52 / 0.00 | | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 0.0 | | | |
| Viscosity, Liquid / Vapor | cp | 0.721 / 0.000 | | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.647 / 0.000 | | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.066 / 0.000 | | | |

| revision | date | description | by | chk'd | appv'd |
|---|---|---|---|---|---|
| Rev. 0 | 18-Oct-21 | Issued for Approval | JF | JDC | |



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Owner Ref.: H-60001 THM Ref.: MJ21-474

Ftnt & Rev

## COMBUSTION DESIGN CONDITIONS

### Overall Performance:

| | | |
|---|---|---|
| Operating Case | --- | Design Case |
| Service | --- | Hot Oil Heater |
| Excess Air | mol% | 25.0% |
| Calculated Heat Release (LHV) | MMBTU/ hr | 81.77 |
| Guaranteed Efficiency | HR% | 83.6% |
| Calculated Efficiency | HR% | 85.6% |
| Radiation Loss | HR% | 2.00% |
| Flow Rate, Combustion Gen./ Imp. | Lb/ hr | 86,390 |
| Flue Gas Temp. Leaving (R/C) | °F | 1,620 / 501 |
| Flue Gas Mass Velocity | Lb/ sec ft2 | 0.926 |

### Fuel(s) Data:

| | | Gas 1 |
|---|---|---|
| | | Mol.Wt. |
| LHV | BTU/ scf | 898 |
| LHV | BTU/ Lb | 20,247 |
| P @ Burner | psig | 150 |
| T @ Burner | °F | 100 |
| MW | Lb/ Lbmole | 16.82 |
| Flow @ design | lb/hr | 4,038 |
| Flow @ design | scfh | 91,101 |
| Atomizing Media | | --- |
| Atom. Media P & T | | --- |

### Components:

| | | |
|---|---|---|
| N | wt% | --- |
| S | wt% | --- |
| Ash | wt% | --- |
| Ni | ppm | --- |
| Va | ppm | --- |
| Na | ppm | --- |
| Fe | ppm | --- |
| H2 | mol% | 0.0% |
| O2 | mol% | 0.0% |
| N2 + Ar | mol% | 3.3% |
| CO | mol% | 0.0% |
| CO2 | mol% | 0.0% |
| CH4 | mol% | 94.1% |
| C2H6 | mol% | 2.5% |
| C2H4 | mol% | 0.0% |
| C3H8 | mol% | 0.1% |
| C3H6 | mol% | 0.0% |
| C4H10 | mol% | 0.0% |
| C4H8 | mol% | 0.0% |
| C5H12 | mol% | 0.0% |
| C5H10 | mol% | 0.0% |
| C6+ | mol% | 0.0% |
| H2S | ppmv | 0.0% |
| SO2 | mol% | 0.0% |
| NH3 | mol% | 0.0% |
| H2O | mol% | 0.0% |
| spare | mol% | 0.0% |

### Blower/Fan Peformance:

| | | |
|---|---|---|
| Volumetric Flow | acfm | 20,600 |
| Rated Power | HP | 150 |
| Fan Speed | RPM | 1,800 |
| Sound Pressure | dBA | < 85 |
| Area Classification | NEC | Class I, Div. II, Groups C&D |

### Burner Design:

| | | |
|---|---|---|
| OEM | --- | Callidus Technologies, LLC |
| Type | --- | Enhanced IFGR |
| Quantities | --- | 1 ULTRA Low NOx |
| Model No. | --- | CUBL-16W-HC-HZ Cylindrical |
| Windbox | --- | yes ... |
| Location | --- | EndWall Center ... Horizontally Fired |

### Pilot Design:

| | | |
|---|---|---|
| Type / Model | Self-Inspirating | / by O.E.M. |
| Ignition | --- Electric | requires elec.ign.system |
| Heat Release | -- > 350000 | BTU/ hr on ... Gas 1 |

### Burner Performance:

| | | |
|---|---|---|
| Minimum Heat Release | MMBTU/ hr | 17.99 |
| Design Heat Release | MMBTU/ hr | 81.77 |
| Maximum Heat Release | MMBTU/ hr | 89.94 |
| Burner Turndown | Max:Min | 5.00 |
| Volumetric Ht. Release | BTU/ hr ft3 | 10,184 |
| Pressure @ Arch | inH2O | 3.50 |
| Pressure @ Burner | inH2O | 17.31 |
| Combustion Air T @ Burner | °F | 60 |
| Flue Gas T @ Burner | °F | 1,420 |

### Guaranteed Emissions:

| | | | |
|---|---|---|---|
| Basis of Guarantee | --- | 3.0% O2, dry (LHV) | |
| NOx Emissions | Lb/MMBTU | 0.040 | 27 ppm |
| SOx Emissions | Lb/MMBTU | no quote | |
| CO Emissions | Lb/MMBTU | 0.041 | 46 ppm |
| VOC Emissions | Lb/MMBTU | 0.019 | 14 ppm |
| UHC Emissions | Lb/MMBTU | 0.007 | 14 ppm |
| SPM10 Emissions | Lb/MMBTU | 0.013 | 14 ppm |
| Noise Emissions | dBA @ 3ft | 85 | |

### Net Flame Clearances:

| | |
|---|---|
| Est. Flame Size | approx. 37.5 ft L x 6.5 ft Diameter |
| Hor Clearance | 0 ft NET Tube Clearance |
| Vert. Clearance | 0 ft NET Tube Clearance |
| Axial Clearance | 3.5 ft NET Refractory Clearance (to Target hot face) |

### Nominal Flame Clearances:

| from burner CL ... | | Vertical | Horizontal |
|---|---|---|---|
| to Tube CL, API | ft | 35.98 | 23.99 |
| to Tube CL, calc. | ft | 6.50 | 6.50 |
| to Refrac., calc. | ft | n / a | 41.00 |

# Manufacturer Specification Sheets

Glycol Reboilers

- RH2-H-2301
- RH3-H-6301
- RH4-H-5301

HTRI

# HEAT EXCHANGER SPECIFICATION SHEET



US Units

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Customer | Reset Energy | | | Job No. | | | |
| Address | | | | Reference No. | 190061 | | |
| Plant Location | | | | Proposal No. | P19-4987B | | |
| Service of Unit | TEG Reboiler Bundle | | | Date | 6/6/19 | Rev | 0 |
| Size | 23 x 168 inch | Type | B-U Horizontal | Item No. | | | |
| Surf/Unit (Gross/Eff) | 1137.7 / 1117.5 ft2 | Shell/Unit | 1 | Connected In | 1 Parallel | 1 | Series |
| | | | | Surf/Shell (Gross/Eff) | 1137.7 / 1117.5 ft2 | | |

## PERFORMANCE OF ONE UNIT

| | | Shell Side | | Tube Side | |
|---|---|---|---|---|---|
| Fluid Allocation | | TEG | | Chemtherm 550 | |
| Fluid Name | | 28649 | | 163090 | |
| Fluid Quantity, Total | lb/hr | 1711.3 | | | |
| Vapor (In/Out) | | 28649 | 26938 | 163090 | 163090 |
| Liquid | | | | | |
| Steam | | | | | |
| Water | | | | | |
| Noncondensables | | | | | |
| Temperature (In/Out) | | 243.89 | 400.00 | 460.00 | 420.00 |
| Density | lb/ft3 | 65.395 | 0.0483 V/L 60.013 | 49.165 | 50.079 |
| Viscosity | cP | 2.3487 | 0.0158 V/L 0.7960 | 0.5653 | 0.6526 |
| Molecular Weight, Vapor | | | | | |
| Molecular Weight, Noncondensables | | | | | |
| Specific Heat | Btu/lb-F | 0.6379 | 0.5044 V/L 0.6712 | 0.6219 | 0.6038 |
| Thermal Conductivity | Btu/hr-ft-F | 0.1181 | 0.0186 V/L 0.1066 | 0.0663 | 0.0672 |
| Latent Heat | Btu/lb | 905.57 | 332.87 | | |
| Inlet Pressure | psia | 15.888 | | 64.696 | |
| Velocity | ft/sec | 1.37 | | 4.96 | |
| Pressure Drop, Allow/Calc | psi | | 0.205 | 10.000 | 5.192 |
| Fouling Resistance (min) | ft2-hr-F/Btu | 0.00200 | | 0.00100 | |

Heat Exchanged 4000008 Btu/hr MTD (Corrected) 65.8 F

Transfer Rate, Service 54.40 Btu/ft2-hr-F Clean 82.61 Btu/ft2-hr-F Actual 64.98 Btu/ft2-hr-F

## CONSTRUCTION OF ONE SHELL

Sketch (Bundle/Nozzle Orientation)

| | | | Shell Side | Tube Side |
|---|---|---|---|---|
| Design/Test Pressure | | psig | 150.00 / | 150.00 / |
| Design Temperature | | F | 450.00 | 550.00 |
| No Passes per Shell | | | 1 | 4 |
| Corrosion Allowance | | inch | 0.0625 | 0.0625 |
| Connections Size & Rating | In | inch | @ | 1 @ 6" - 300# RF |
| | Out | inch | @ | 1 @ 6" - 300# RF |
| | Intermediate | | @ | @ |

Tube No. 198U OD 0.7500 inch Thk(Avg) 0.0830 inch Length 14.000 ft Pitch 0.9375 inch

Tube Type Plain Material SA-214 Tube (W) K01807 Tube pattern 90

Shell ID 23.375 OD 24.000 inch Shell Cover (Integ.)

Channel or Bonnet Carbon Steel Channel Cover Carbon Steel

Tubesheet-Stationary Carbon Steel Tubesheet-Floating

Floating Head Cover Impingement Plate None

Baffles-Cross Carbon steel Type Support %Cut (Diam) Spacing(c/c) Inlet inch

Baffles-Long Seal Type None

Supports-Tube U-Bend Type None

Bypass Seal Arrangement pairs seal strips Tube-Tubesheet Joint Expanded (2 grooves)

Expansion Joint Type None

Rho-V2-Inlet Nozzle lb/ft-sec2 Bundle Entrance Bundle Exit lb/ft-sec2

Gaskets-Shell Side Tube Side

-Floating Head Internal Enhancements None

Code Requirements ASME TEMA Class C

Weight/Shell lb Filled with Water lb Bundle lb

Remarks:

MDMT: -20 F Both Sides. RT-1 Required.

Ship mechanically cleaned only (blasting & painting to be done in Reset yard)

Reprinted with Permission (v8.0000 .0.1)

# Manufacturer Specification Sheets

Amine Reboilers

- RH2-H-0901
- RH2-H-1001
- RHA-H-4901
- RH4-H-3901
- RH4-H-4001

# 2.0 PROCESS DESIGN CONDITIONS

## 2.1. Process Design (Coil)

| | |
|---|---|
| Media | Chem Therm 550 |
| Flow rate (Lb./Hr.) | 783,476 |
| Operating pressure (PSIG) | 60 |
| Inlet temperature (°F) | 280 |
| Outlet temperature (°F) | 400 |
| Calc. Pressure Drop (PSI) | 7.2 |
| Coil Terminal size/type (IN.) | 8" / 300# |
| Process Passes | Dual |
| Design pressure (PSIG) | 150 |
| Design temperature (°F) | -20 to 600 |
| Size | 8” Sch. 40 |
| Material (SMLS PIPE) | SA-106B |
| Coil heat flux (BTU/HR-SQ.FT.) | 14,788 |
| Net thermal eff. @ Design Duty | 82.3% (2% Setting loss) |
| Radiography: (Coil) | 100% |
| Corr. Allow. | 0.0625” |
| Coil Code | ASME Sect. VIII |

## 2.2 Heater

| | |
|---|---|
| Heater duty (MMBTU/HR) | 55 |
| Calc. Duty (MM BTU/HR) | 55 |
| Turndown | 10:1 |

## 2.3 Preliminary Instrument Set Points

See P & I D drawings for recommended set-points

**These settings / readings are PRELIMINARY only, and are subject to change. Operating conditions may warrant changes after start-up, and again as atmospheric conditions change. Refer to vender literature for adjustment methods.**

# SYSTEM DESIGN DATA

| Thermal Fluid System Datasheet | | | | | |
|---|---|---|---|---|---|
| *Customer Name* | *Reset Energy* | | *Project Name* | *HMO Heater* | |
| *Date completed* | *June 8, 2015* | | *Project Location* | *New Mexico* | |
| *Revision number* | *A* | | *Sales Engineer* | *Nick Krauss* | |
| **Heater Design & Performance** | | | | | |
| Heat Input | 25.00 | MMBTU/hr | Heater Model Number | HC2-20.0-H-SF | |
| Heater Type | HC2 | | Heater Configuration | Horizontal | |
| System Flow Rate | 1,000 | gal / min. | Fluid Pressure Drop | 17 | lb / in²(d) |
| Heater Flow Rate | 1,000 | gal / min. | Flue Gas Pressure Drop | 3.6 | in W.C. |
| System Bypass | 0 | gal / min. | Average Heat Flux | 11,561 | Btu / hr / ft2 |
| Heater Bypass | 0 | gal / min. | Radiant Zone Heat Flux | 25,529 | Btu / hr / ft2 |
| Thermal Fluid | Chemtherm 550 | | Maximum Film Temperature | 489 | °F |
| Process Supply Temperature | 425 | °F | Inner Coil Velocity | 9 | ft / sec |
| Heater Outlet Temperature | 425 | °F | Outer Coil Velocity | 6 | ft / sec |
| Process Return Temperature | 323 | °F | Thermal Efficiency | 81.6% | % LHV Basis |
| Heater Coil Design Temperature | 750 | °F | Heater Coil Design Pressure | 250 | lb / in²(g) |
| **Burner & Combustion Data** | | | | | |
| Fuel Type | Gas | | Selected Burner Make | Maxon | |
| Combustion Air Preheat | No | | Burner Model Selected | LE 12 | |
| Efficiency with Preheat | N/A | % LHV Basis | Steady State Firing Rate (HHV Basis) | 33,886,285 | Btu / hr |
| Oxygen Trim | No | | Burner Design Margin | 0% | |
| Combustion Control Type | Parallel Point Positioning | | Design Firing Rate (HHV Basis) | 33,886,285 | Btu / hr |
| Low NOx Required | No | | Combustion Air Design Temperature | 60 | °F |
| BMS Type | Standard | | Available Fuel Pressure From Customer | 50 | lb / in²(g) |
| Combustion Control Type | Standard | | Excess Air | 40 | % |
| Control Panel Location | Heater Mounted | | Design Fuel Flow Rate | 27,713 | (std)ft³ / hr |
| NOx Required (if any) | 41 | ppm | Burner Duty Cycle | Continuous | |
| CO Required (if any) | N/A | ppm | Fuel Train Location | Heater Mounted | |
| Gas Consumption @ Steady State | 27,713 | (std)ft³ / hr | Fuel Train / BMS Code Compliance | NFPA 87-15 | |
| Air Consumption @ Steady State | 8,452 | (act)ft³ / min | Estimated Primary SSOV Size | 2.5 | in. |
| Gas Consumption @ High Fire | 27,713 | (std)ft³ / hr | Fuel Train Type | Sigma Thermal Standard | |
| Air Consumption @ High Fire | 8,452 | (act)ft³ / min | Fuel Train Construction | NPT | |
| Exhaust Gas Flow Rate | 16,000 | (act)ft³ / min | Flue Gas Velocity | 49 | ft / sec |
| Exhaust Stack Mounting Configuration | Heater Mounted | | Exhaust Gas Temperature | 563 | °F |
| Exhuast Stack Diameter | 32 | in | Exhaust Stack Height From Grade | 15 | ft |
| **General Project Data** | | | | | |
| Maximum Ambient Temperature | 115 | °F | Control Panel Area Classification | General Area | |
| Minimum Ambient Temperature | -20 | °F | Skid Area Classification | General Area | |
| Elevation (above mean sea level) | 3,500 | ft | Wiring Standards | Sigma Thermal Standard | |
| Motor Requirements | Premium Efficiency TEFC | | Electrical Code of Construction | NEC | |
| Instrumentation | Sigma Thermal Standard | | Control Panel Certification | UL | |
| Motor Starters | By Others | | Primary Voltage | 460V / 3 / 60Hz | |
| Minimum Electrical Enclosures Rating | NEMA 4 | | Control Voltage | 120V / 1 / 60Hz | |
| Will a blanket be used? | By Others | | Will a tank tower be supplied? | No | |
| Will the heater be skid mounted? | No | | Are there secondary circulation skids required? | No | |
| Will a side stream filter be used? | No | | User Control Valves | No | |
| Automated System Bypass Valve | By Others | | Heater Code of Construction | ASME Section VIII | |
| Expansion Tank Code of Construction | ASME Section VIII | | Applicable Piping Code / Standard | ASME B31.1 | |
| Paint Colors | Sigma Thermal Standard | | Overall Paint Specification | Sigma Thermal Standard | |

| | | | | | |
|---|---|---|---|---|---|
| Owner: | Lucid Energy | | Owner Ref.: | H-3901/4001 | Ftnt |
| Purchaser: | Lucid Energy | | Purchaser Ref.: | H3901/4001 | & |
| Manufacturer: | Tulsa Heaters Midstream, LLC | | THM Ref.: | MJ19-388/389 / | Rev |
| Service: | Hot Oil Heater | | Project: | Red Hills | |
| Quantity: | 2 | | Location: | Jal, NM | |
| SHO Duty: | 55.00 | MMBTU/ hr | SHO Model: | SHO5000 | |
| CMS Release: | 76.73 | MMBTU/ hr | CMS Model: | CMS8500 | |

## PROCESS DESIGN CONDITIONS

| | | Radiant / Convection | Radiant / Convection | Radiant / Convection | Radiant / Convection |
|---|---|---|---|---|---|
| Heater Section | - - - | | | | |
| Operating Case | - - - | Design Case | Alt Case | | |
| Service | - - - | Hot Oil Heater | Hot Oil Heater | | |
| Heat Absorption (R/C) | MMBTU/ hr | 36.11 / 18.89 | 38.75 / 21.25 | | |
| Process Fluid | - - - | Chemtherm 550 | Chemtherm 550 | | |
| Process Mass Flow Rate, Total | Lb/ hr | 916,667 | 916,667 | | |
| Process Bulk Velocity (calc. R/C) | ft/ s | 9 / 8 | 9 / 8 | | |
| Process Mass Velocity (calc. R/C) | Lb/ s ft2 | 423 / 423 | 423 / 423 | | |
| Coking Allowance (dP calcs) | in | | | | |
| Pressure Drop, Clean (allow. / calc.) | psi | 10 / 17 | 10 / 18 | | |
| Pressure Drop, Fouled (allow. / calc.) | psi | | | | |
| Average Heat Flux (allowable) | BTU/ hr ft2 | 13,000 | 13,000 | | |
| Average Heat Flux (calculated) | BTU/ hr ft2 | 12,320 | 13,220 | | |
| Maximum Heat Flux (allowable) | BTU/ hr ft2 | | | | |
| Maximum Heat Flux (calc. R/C) | BTU/ hr ft2 | 22,500 / 27,150 | 24,200 / 29,950 | | |
| Fouling Factor, Internal | hr ft2 °F/ BTU | 0.002 | 0.002 | | |
| Corrosion or Erosion Characteristics | - - - | | | | |
| Max. Film Temperature (allow. / calc.) | °F | 640 / 532 | 640 / 539 | | |
| **Inlet Conditions:** | | | | | |
| Temperature | °F | 325 | 315 | | |
| Pressure | psig | 60 | 60 | | |
| Mass Flow Rate, Liquid | Lb/ hr | 916,667 | 916,667 | | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | 0 | | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | 100% / 0% | | |
| Density, Liquid / Vapor | Lb/ ft3 | 50.45 / 0.00 | 50.66 / 0.00 | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 0.0 | - - - / 0.0 | | |
| Viscosity, Liquid / Vapor | cp | 1.6301 / 0.000 | 1.754 / 0.000 | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.582 / 0.000 | 0.577 / 0.000 | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.0694 / 0.000 | 0.070 / 0.000 | | |
| **Outlet Conditions:** | | | | | |
| Temperature | °F | 425 | 425 | | |
| Pressure | psig | 43 | 43 | | |
| Mass Flow Rate, Liquid | Lb/ hr | 916,667 | 916,667 | | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | 0 | | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | 100% / 0% | | |
| Density, Liquid / Vapor | Lb/ ft3 | 48.28 / 0.00 | 48.28 / 0.00 | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 0.0 | - - - / 0.0 | | |
| Viscosity, Liquid / Vapor | cp | 0.868 / 0.000 | 0.8679 / 0.000 | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.630 / 0.000 | 0.6303 / 0.000 | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.067 / 0.000 | 0.06705 / 0.000 | | |

| revision | date | description | by | chk'd | appv'd |
|---|---|---|---|---|---|
| 1 | 15-Apr-19 | Revised customer heater number | JF | EH | JF |
| 0 | 3-Apr-19 | Intl Issue | JF | EH | JF |



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Owner Ref.: H-3901/4001 THM Ref.: MJ19-388/389

Ftnt & Rev

## COMBUSTION DESIGN CONDITIONS

| Overall Performance: | | | | | |
|---|---|---|---|---|---|
| Operating Case | --- | Design Case | Alt Case | | |
| Service | --- | Hot Oil Heater | Hot Oil Heater | | |
| Excess Air | mol% | 15.0% | 15.0% | | |
| Calculated Heat Release (LHV) | MMBTU/ hr | 63.50 | 69.75 | | |
| Guaranteed Efficiency | HR% | 84.6% | 84.0% | | |
| Calculated Efficiency | HR% | 86.6% | 86.0% | | |
| Radiation Loss | HR% | 2.00% | 2.00% | | |
| Flow Rate, Combustion Gen./ Imp. | Lb/ hr | 61,853 | 67,946 | | |
| Flue Gas Temp. Leaving (R/C) | °F | 1,522 / 497 | 1,563 / 519 | | |
| Flue Gas Mass Velocity | Lb/ sec ft2 | 0.663 | 0.729 | | |

| Fuel(s) Data: | | Gas 1 Mol.Wt. | Gas 2 Mol.Wt. | Gas 3 Mol.Wt. | Design Fuel Oil |
|---|---|---|---|---|---|
| LHV | BTU/ scf | 909 | | | --- |
| LHV | BTU/ Lb | 21,500 | | | |
| P @ Burner | psig | 150 | | | |
| T @ Burner | °F | 100 | | | |
| MW | Lb/ Lbmole | 16.04 | | | --- |
| Flow @ design | lb/hr | 2,953 | | | |
| Flow @ design | scfh | 76,739 | | | |
| Atomizing Media | | --- | | | |
| Atom. Media P & T | | --- | | | |
| Components: | | | | | |
| N | wt% | --- | | | |
| S | wt% | --- | | | |
| Ash | wt% | --- | | | |
| Ni | ppm | --- | | | |
| Va | ppm | --- | | | |
| Na | ppm | --- | | | |
| Fe | ppm | --- | | | |
| H2 | mol% | 0.0% | | | --- |
| O2 | mol% | 0.0% | | | --- |
| N2 + Ar | mol% | 0.0% | | | --- |
| CO | mol% | 0.0% | | | --- |
| CO2 | mol% | 0.0% | | | --- |
| CH4 | mol% | 100% | | | --- |
| C2H6 | mol% | 0.0% | | | --- |
| C2H4 | mol% | 0.0% | | | --- |
| C3H8 | mol% | 0.0% | | | --- |
| C3H6 | mol% | 0.0% | | | --- |
| C4H10 | mol% | 0.0% | | | --- |
| C4H8 | mol% | 0.0% | | | --- |
| C5H12 | mol% | 0.0% | | | --- |
| C5H10 | mol% | 0.0% | | | --- |
| C6+ | mol% | 0.0% | | | --- |
| H2S | ppmv | 0.0% | | | --- |
| SO2 | mol% | 0.0% | | | --- |
| NH3 | mol% | 0.0% | | | --- |
| H2O | mol% | 0.0% | | | --- |
| spare | mol% | 0.0% | | | --- |

| Blower/Fan Peformance: | | |
|---|---|---|
| Volumetric Flow | acfm | 16,200 |
| Rated Power | HP | 60 |
| Fan Speed | RPM | 1,800 |
| Sound Pressure | dBA | < 85 |
| Area Classification | NEC | Class I, Div. II, Groups C&D |

| Burner Design: | | | |
|---|---|---|---|
| OEM | --- | Callidus Technologies, LLC | |
| Type | --- | Enhanced IFGR | |
| Quantities | --- | 1 | ULTRA Low NOx |
| Model No. | --- | CUBL-16W-HC-HZ | Cylindrical |
| Windbox | --- | yes ... | |
| Location | --- | EndWall Center ... | Horizontally Fired |
| Pilot Design: | | | |
| Type / Model | | Self-Inspirating / by O.E.M. | |
| Ignition | --- | Electric | requires elec.ign.system |
| Heat Release | --- | > 350000 BTU/ hr on ... | Gas 1 |

| Burner Performance: | | | |
|---|---|---|---|
| Minimum Heat Release | MMBTU/ hr | 15.35 | |
| Design Heat Release | MMBTU/ hr | 69.75 | |
| Maximum Heat Release | MMBTU/ hr | 76.73 | |
| Burner Turndown | Max:Min | 5.00 | |
| Volumetric Ht. Release | BTU/ hr ft3 | 7,696 | |
| Pressure @ Arch | inH2O | 1.70 | |
| Pressure @ Burner | inH2O | 9.37 | |
| Combustion Air T @ Burner | °F | 60 | |
| Flue Gas T @ Burner | °F | 1,330 | |
| Guaranteed Emissions: | | | |
| Basis of Guarantee | --- | 3.0% O2, dry (LHV) | |
| NOx Emissions | Lb/MMBTU | 0.040 | 30 ppm |
| SOx Emissions | Lb/MMBTU | no quote | |
| CO Emissions | Lb/MMBTU | 0.041 | 50 ppm |
| VOC Emissions | Lb/MMBTU | 0.019 | 15 ppm |
| UHC Emissions | Lb/MMBTU | 0.007 | 15 ppm |
| SPM10 Emissions | Lb/MMBTU | 0.013 | 15 ppm |
| Noise Emissions | dBA @ 3ft | 85 | |

| Net Flame Clearances: | |
|---|---|
| Est. Flame Size | approx. 35.5 ft L x 6 ft Diameter |
| Hor Clearance | 0.5 ft NET Tube Clearance |
| Vert. Clearance | 0.5 ft NET Tube Clearance |
| Axial Clearance | 5.67 ft NET Refractory Clearance (to Target hot face) |

| Nominal Flame Clearances: from burner CL ... | | Vertical | Horizontal |
|---|---|---|---|
| to Tube CL, API | ft | 31.02 | 20.68 |
| to Tube CL, calc. | ft | 6.50 | 6.50 |
| to Refrac., calc. | ft | n / a | 41.17 |

# Manufacturer Specification Sheets

Amine/Glycol Reboilers

- RH5-H-50902
- RH5-H-50001
- RH6-H-60001

| | | | | | |
|---|---|---|---|---|---|
| Owner: | Lucid | | Owner Ref.: | H-50001 | Ftnt |
| Purchaser: | Lucid | | Purchaser Ref.: | TBD | & |
| Manufacturer: | Tulsa Heaters Midstream, LLC | | THM Ref.: | MJ19-418 / | Rev |
| Service: | Hot Oil Heater | | Project: | Red Hills 5 | |
| Quantity: | 1 | | Location: | TBD | |
| SHO Duty: | 70.00 | MMBTU/ hr | SHO Model: | SHO5000 | |
| CMS Release: | 89.94 | MMBTU/ hr | CMS Model: | CMS8500 | |
| SHOS Flow: | 1,560 | USgpm @ 187 ft TDH | SHOS.Model: | N/A | |

## PROCESS DESIGN CONDITIONS

| | | Radiant / Convection | Radiant / Convection | Radiant / Convection | Radiant / Convection |
|---|---|---|---|---|---|
| Heater Section | - - - | | | | |
| Operating Case | - - - | Design Case | | | |
| Service | - - - | Hot Oil Heater | | | |
| Heat Absorption (R/C) | MMBTU/ hr | 41.24 / 28.76 | | | |
| Process Fluid | - - - | Chemtherm 550 | | | |
| Process Mass Flow Rate, Total | Lb/ hr | 645,000 | | | |
| Process Bulk Velocity (calc. R/C) | ft/ s | 9 / 9 | | | |
| Process Mass Velocity (calc. R/C) | Lb/ s ft2 | 447 / 447 | | | |
| Coking Allowance (dP calcs) | in | | | | |
| Pressure Drop, Clean (allow. / calc.) | psi | 30 / 29 | | | |
| Pressure Drop, Fouled (allow. / calc.) | psi | | | | |
| Average Heat Flux (allowable) | BTU/ hr ft2 | 13,000 | | | |
| Average Heat Flux (calculated) | BTU/ hr ft2 | 14,450 | | | |
| Maximum Heat Flux (allowable) | BTU/ hr ft2 | | | | |
| Maximum Heat Flux (calc. R/C) | BTU/ hr ft2 | 26,000 / 34,950 | | | |
| Fouling Factor, Internal | hr ft2 °F/ BTU | 0.002 | | | |
| Corrosion or Erosion Characteristics | - - - | | | | |
| Max. Film Temperature (allow. / calc.) | °F | 640 / 568 | | | |
| **Inlet Conditions:** | | | | | |
| Temperature | °F | 280 | | | |
| Pressure | psig | 75 | | | |
| Mass Flow Rate, Liquid | Lb/ hr | 645,000 | | | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | | | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | | | |
| Density, Liquid / Vapor | Lb/ ft3 | 51.43 / 0.00 | | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 0.0 | | | |
| Viscosity, Liquid / Vapor | cp | 2.3127 / 0.000 | | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.5602 / 0.000 | | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.0705 / 0.000 | | | |
| **Outlet Conditions:** | | | | | |
| Temperature | °F | 460 | | | |
| Pressure | psig | 46 | | | |
| Mass Flow Rate, Liquid | Lb/ hr | 645,000 | | | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | | | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | | | |
| Density, Liquid / Vapor | Lb/ ft3 | 47.52 / 0.00 | | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 0.0 | | | |
| Viscosity, Liquid / Vapor | cp | 0.721 / 0.000 | | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.647 / 0.000 | | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.066 / 0.000 | | | |

| revision | date | description | by | chk'd | appv'd |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 2 | 26-Sep-19 | Updated Equipment No. | | TT | |
| 1 | 11-Sep-19 | | | TT | |
| 0 | 22-Aug-19 | Issued with Proposal | JF | TT | |



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| | | | | | |
|---|---|---|---|---|---|
| Owner: | Lucid | | Owner Ref.: | H-50902 | Ftnt |
| Purchaser: | Lucid | | Purchaser Ref.: | TBD | & |
| Manufacturer: | Tulsa Heaters Midstream, LLC | | THM Ref.: | MJ19-419 / | Rev |
| Service: | Hot Oil Heater | | Project: | Red Hills 5 | |
| Quantity: | 1 | | Location: | TBD | |
| SHO Duty: | 70.00 | MMBTU/ hr | SHO Model: | SHO5000 | |
| CMS Release: | 89.94 | MMBTU/ hr | CMS Model: | CMS8500 | |
| SHOS Flow: | 1,560 | USgpm @ 187 ft TDH | SHOS.Model: | N/A | |

## PROCESS DESIGN CONDITIONS

| | | Radiant / Convection | Radiant / Convection | Radiant / Convection | Radiant / Convection |
|---|---|---|---|---|---|
| Heater Section | - - - | | | | |
| Operating Case | - - - | Design Case | | | |
| Service | - - - | Hot Oil Heater | | | |
| Heat Absorption (R/C) | MMBTU/ hr | 41.24 / 28.76 | | | |
| Process Fluid | - - - | Chemtherm 550 | | | |
| Process Mass Flow Rate, Total | Lb/ hr | 645,000 | | | |
| Process Bulk Velocity (calc. R/C) | ft/ s | 9 / 9 | | | |
| Process Mass Velocity (calc. R/C) | Lb/ s ft2 | 447 / 447 | | | |
| Coking Allowance (dP calcs) | in | | | | |
| Pressure Drop, Clean (allow. / calc.) | psi | 30 / 29 | | | |
| Pressure Drop, Fouled (allow. / calc.) | psi | | | | |
| Average Heat Flux (allowable) | BTU/ hr ft2 | 13,000 | | | |
| Average Heat Flux (calculated) | BTU/ hr ft2 | 14,450 | | | |
| Maximum Heat Flux (allowable) | BTU/ hr ft2 | | | | |
| Maximum Heat Flux (calc. R/C) | BTU/ hr ft2 | 26,000 / 34,950 | | | |
| Fouling Factor, Internal | hr ft2 °F/ BTU | 0.002 | | | |
| Corrosion or Erosion Characteristics | - - - | | | | |
| Max. Film Temperature (allow. / calc.) | °F | 640 / 568 | | | |
| **Inlet Conditions:** | | | | | |
| Temperature | °F | 280 | | | |
| Pressure | psig | 75 | | | |
| Mass Flow Rate, Liquid | Lb/ hr | 645,000 | | | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | | | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | | | |
| Density, Liquid / Vapor | Lb/ ft3 | 51.43 / 0.00 | | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 0.0 | | | |
| Viscosity, Liquid / Vapor | cp | 2.3127 / 0.000 | | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.5602 / 0.000 | | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.0705 / 0.000 | | | |
| **Outlet Conditions:** | | | | | |
| Temperature | °F | 460 | | | |
| Pressure | psig | 46 | | | |
| Mass Flow Rate, Liquid | Lb/ hr | 645,000 | | | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | | | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | | | |
| Density, Liquid / Vapor | Lb/ ft3 | 47.52 / 0.00 | | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | - - - / 0.0 | | | |
| Viscosity, Liquid / Vapor | cp | 0.721 / 0.000 | | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.647 / 0.000 | | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.066 / 0.000 | | | |

| revision | date | description | by | chk'd | appv'd |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 2 | 26-Sep-19 | Updated Equipment No. | TT | | |
| 1 | 11-Sep-19 | | TT | | |
| 0 | 22-Aug-19 | Issued with Proposal | JF | | |



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| | | | | | |
|---|---|---|---|---|---|
| Owner: | Lucid Energy Group | | Owner Ref.: | H-60001 | Ftnt |
| Purchaser: | Lucid Energy Group | | Purchaser Ref.: | TBD | & |
| Manufacturer: | Tulsa Heaters Midstream, LLC | | THM Ref.: | MJ21-474 | Rev |
| Service: | Hot Oil Heater | | Project: | Red Hills 6 | |
| Quantity: | 1 | | Location: | Jal, New Mexico | |
| SHO Duty: | 70.00 | MMBTU/ hr | SHO Model: | SHO5000 | |
| CMS Release: | 89.94 | MMBTU/ hr | CMS Model: | BMS8500 | |
| SHOS Flow: | 1,560 | USgpm @ 187 ft TDH | SHOS.Model: | N/A | |

## PROCESS DESIGN CONDITIONS

| | | | | | |
|---|---|---|---|---|---|
| Heater Section | --- | Radiant / Convection | | | |
| Operating Case | --- | Design Case | | | |
| Service | --- | Hot Oil Heater | | | |
| Heat Absorption (R/C) | MMBTU/ hr | 41.24 / 28.76 | | | |
| Process Fluid | --- | Chemtherm 550 | | | |
| Process Mass Flow Rate, Total | Lb/ hr | 645,000 | | | |
| Process Bulk Velocity (calc. R/C) | ft/ s | 9 / 9 | | | |
| Process Mass Velocity (calc. R/C) | Lb/ s ft2 | 447 / 447 | | | |
| Coking Allowance (dP calcs) | in | | | | |
| Pressure Drop, Clean (allow. / calc.) | psi | 30 / 29 | | | |
| Pressure Drop, Fouled (allow. / calc.) | psi | | | | |
| Average Heat Flux (allowable) | BTU/ hr ft2 | 13,000 | | | |
| Average Heat Flux (calculated) | BTU/ hr ft2 | 14,450 | | | |
| Maximum Heat Flux (allowable) | BTU/ hr ft2 | | | | |
| Maximum Heat Flux (calc. R/C) | BTU/ hr ft2 | 26,000 / 34,950 | | | |
| Fouling Factor, Internal | hr ft2 °F/ BTU | 0.002 | | | |
| Corrosion or Erosion Characteristics | --- | | | | |
| Max. Film Temperature (allow. / calc.) | °F | 640 / 568 | | | |
| **Inlet Conditions:** | | | | | |
| Temperature | °F | 280 | | | |
| Pressure | psig | 75 | | | |
| Mass Flow Rate, Liquid | Lb/ hr | 645,000 | | | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | | | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | | | |
| Density, Liquid / Vapor | Lb/ ft3 | 51.43 / 0.00 | | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | --- / 0.0 | | | |
| Viscosity, Liquid / Vapor | cp | 2.3127 / 0.000 | | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.5602 / 0.000 | | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.0705 / 0.000 | | | |
| **Outlet Conditions:** | | | | | |
| Temperature | °F | 460 | | | |
| Pressure | psig | 46 | | | |
| Mass Flow Rate, Liquid | Lb/ hr | 645,000 | | | |
| Mass Flow Rate, Vapor | Lb/ hr | 0 | | | |
| Weight Percent, Liquid / Vapor | wt% | 100% / 0% | | | |
| Density, Liquid / Vapor | Lb/ ft3 | 47.52 / 0.00 | | | |
| Molecular Weight, Liquid / Vapor | Lb/ Lbmole | --- / 0.0 | | | |
| Viscosity, Liquid / Vapor | cp | 0.721 / 0.000 | | | |
| Specific Heat, Liquid / Vapor | BTU/ Lb °F | 0.647 / 0.000 | | | |
| Thermal Conductivity, Liq./Vap. | BTU/hr ft °F | 0.066 / 0.000 | | | |

| revision | date | description | by | chk'd | appv'd |
|---|---|---|---|---|---|
| Rev. 0 | 18-Oct-21 | Issued for Approval | JF | JDC | |



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# Manufacturer Specification Sheets

Other Unit Specification Sheets

- RH-TRAILER

# MAXI-HEAT® 1MBTU

The **Maxi-Heat®** line includes a robustly designed towable indirect fired heater, with 1M BTU. This Unit provides heat for different applications including severe harsh conditions. The 1M includes two independently operating burners providing up to a combined 1,000,000 BTUs of heat. For ease of operation the **Maxi-Heat®** comes fully equipped with the iQ system, which automatically calibrates each burner providing reliable trouble free operation, eliminating the tedious trial and error combustion measurements and adjustments. Recirculation is standard on all **Maxi-Heat®** products resulting in increased efficiency of the heater and less fuel consumed. The **Maxi-Heat®** can go from warming equipment to curing concrete, the heat you can rely on when you need it most.



# KEY FEATURES

## Allmand® MAXI-HEAT®

**External Control Panel** Provides the operator with the necessary operating parameters needed during operation eliminating the need to open the heater door.

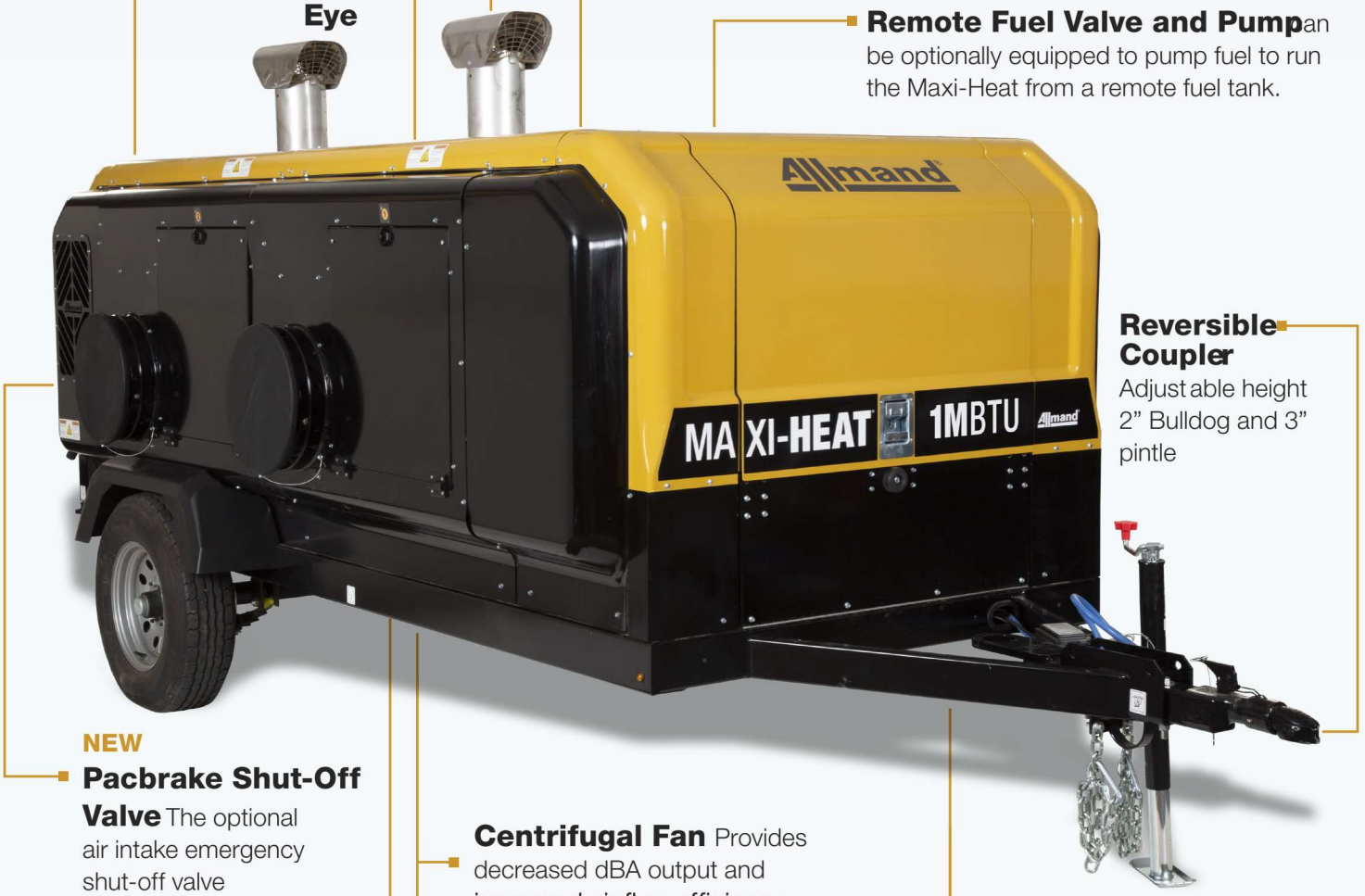
**Flexible Applications** Twin Heater units on the 1M BTU model providing flexibility of heat needed for the jobsite.

**iQ System** Automatically calibrates burner for temperature, humidity and barometric pressure. Provides damper setting on color display, and information on efficiency, target and actual outlet temperatures.

**Lifting Eye**

NEW

**Remote Fuel Valve and Pump** can be optionally equipped to pump fuel to run the Maxi-Heat from a remote fuel tank.




**Reversible Coupler** Adjustable height 2" Bulldog and 3" pintle

NEW

**Pacbrake Shut-Off Valve** The optional air intake emergency shut-off valve automatically closes the valve and shuts down the engine when an overspeed runaway condition occurs.

**Centrifugal Fan** Provides decreased dBA output and increased air flow efficiency.

**Air Recirculation Inlet** Air inlet comes standard and results in increased efficiency of the heater and less fuel consumed.

**Durable Steel Enclosure** is built to last through the toughest environments and conditions.

**Sleek Design** allowing for ease of transport and maneuverability.

**16", 20" or Dual 12" Duct Flange Outlets**

NEW

**Adjustable Air Recirculation Inlet** The optional adjustable air recirculation inlet connection changes size to fit either 16" or 20" ducting.

NEW

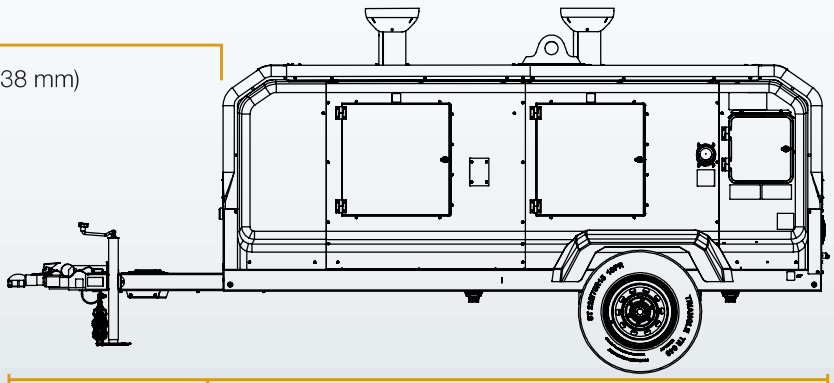
**CSA Approved Steel Fuel Tank** The optional 175 gallon steel double wall (UN-31A rated) fuel tank meets CSA and Transport Canada standards.

**Fluid Containment System (FCS)** Provides 130%+ fluid containment for all on-board fluids.

# Allmand® MAXI-HEAT®

# TECHNICAL SPECS

| Model | Maxi-Heat® 1MBTU | Maxi-Heat® 1MBTU |
|---|---|---|
| **Engine Brand** | Kubota D1005 | CAT or Perkins 1.1 |
| **Engine Model** | D1005 | 1.1 |
| **Frequency** | 60 Hz | 60 Hz |
| **Ducting Length - Continuous Heating** | 3,354 cfm with 96°F rise over ambient @125 ft | 3,354 cfm with 96°F rise over ambient @125 ft |
| **Sound Level @ 23ft (FULL LOAD) dBA** | 67.1 dBA | 65.7 dBA |
| **Sound Level @ 23ft (NO LOAD) dBA** | 62.9 dBA | 62.4 dBA |
| **Phase** | 1-phase | 1-phase |
| **Prime Power (kW)*** | 7 | 8 |
| **BTU per Hour** | 1,000,000 | 1,000,000 |
| **Heated Air Output Maximum (cfm)** | 7,060 | 7,060 |
| **Horsepower (@ 1,800 RPM) ****** | 11.6 | 13.8 |
| **Oil Change Interval (hr)** | 500 | 1,000 |
| **Engine Tier** | Tier 4 Final | Tier 4 Final |
| **Fuel Tank - Single (Poly - Standard)** | | |
| **Fuel Capacity gal (L)** | 210 (794.9) | 210 (794.9) |
| **Operating Time - 1 Heater @ Full Load (hrs)** | 67.5 | 67.8 |
| **Operating Time - 2 Heater @ Full Load (hrs)** | 35.1 | 34.6 |
| **Fuel Tank - Single (Steel - Optional)** | | |
| **Fuel Capacity gal (L)** | 175 (662.4) | 175 (662.4) |
| **Operating Time - 1 Heater @ Full Load (hrs)** | 56.5 | 56.4 |
| **Operating Time - 2 Heater @ Full Load (hrs)** | 29.2 | 28.8 |
| **Fuel Tank - Multi (Poly - Optional)** | | |
| **Heater Fuel Tank - 1 Capacity gal (L)** | 116 (439.1) | 116 (439.1) |
| **Heater Fuel Tank - 2 Capacity gal (L)** | 116 (439.1) | 116 (439.1) |
| **Engine Fuel Tank Capacity gal (L)** | 50 (189.2) | 50 (189.2) |
| **Total Fuel Tank Capacity gal (L)** | 281.6 (1,065.9) | 281.6 (1,065.9) |
| **Operating Time - 1 Heater @ Full Load (hrs)** | 42.1 | 42.1 |
| **Operating Time - 2 Heater @ Full Load (hrs)** | 42.1 | 42.1 |
| **Weights & Shipping** | | |
| **Net Dry Weight (lbs†)** | 4,633 | |
| **Operating Wet Weight NO Fuel (lbs†)** | 4,654 | |
| **Operating Wet Weight FULL Fuel (lbs†)** | 5,869 | |
| **Number of Units on 48' Flatbed** | 4 | |
| **Number of Units on 53' Flatbed** | 4 | |



**Width**
80.2 in (2,038 mm)

**Height**
Transport Position
83.9 in (2,130 mm)

**Length**
183.4 in (4,657 mm)

* Prime generator electrical output per Allmand® testing. ** Based on one hour run test full fuel tank consumption. *** All power levels are stated gross horsepower as rated by each engine's manufacturer. † Dry and wet weights vary by model. Allmand® has a policy of continuous product improvement and reserves the right to modify its specifications at any time and without prior notice. See operator's manual or www.allmand.com website for complete warranty details.

# OPTIONS

Maxi-Heat®

## Thermostat Package

- Remote Thermostat
- Lead extension

## 2 5/16" Bulldog Hitch

## Lockable Battery Disconnect

## 16", 20" or Dual 12" Duct Flange Outlets (ducting sold separately)

## Adjustable Air Recirculation Inlet

## Air Shut off Valve

## Remote Fuel Valve and Pump

## Single Steel Fuel Tank or Multi Poly Fuel Tanks

## Custom Paint

## Telematics (Customer supplied – consult factory)

## Emergency Stop




## COMPROMISE NOTHING.

At Allmand, our sole focus is providing jobsite support equipment to help your customers get the job done. Whenever they need it. Wherever they are. And whatever it takes. What's more, our genuine commitment to you — the highest standard of service and lowest total cost of ownership — is simply unmatched. Choose the equipment that comes with complete confidence that jobsite productivity won't go dark at 2 a.m. **Allmand. Above All.**

Allmand®

BRIGGS&STRATTON

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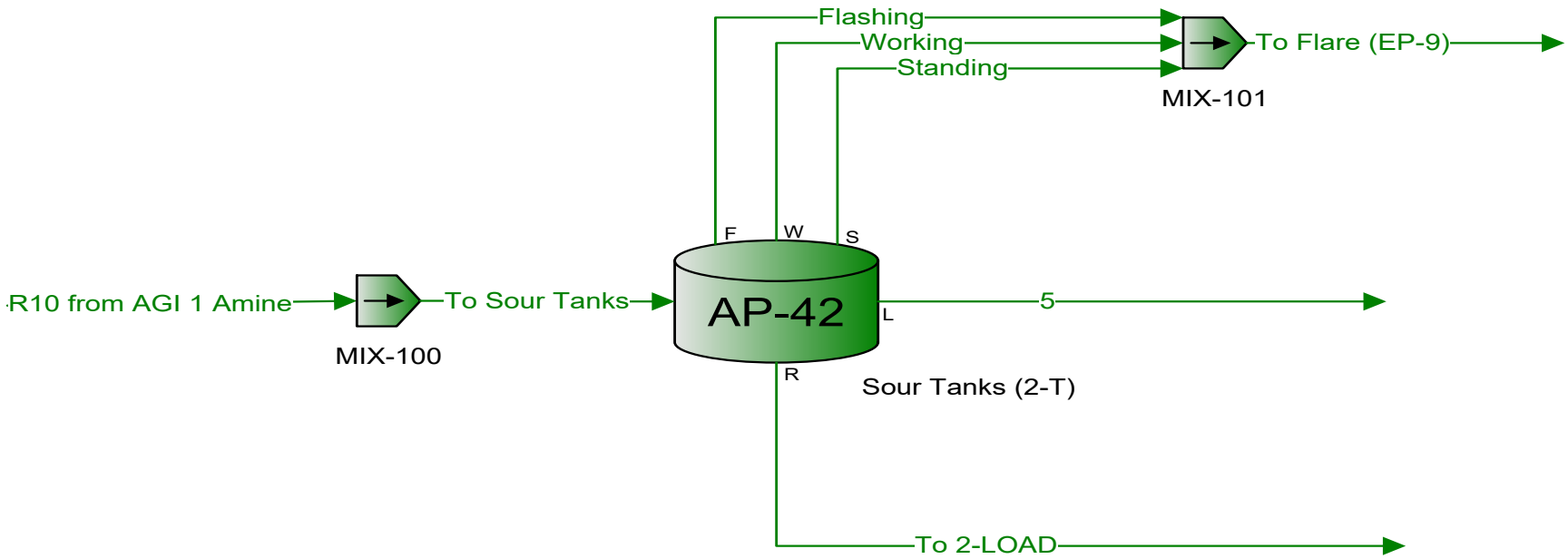
# BR&E ProMax

- Sour Slop Tanks (RHA-TK-SLOP)
    - High Inlet Gas Rate
    - $CO_2$ Slip
- Sour Slop Tanks (RA2-TK-SLOP)
    - High Inlet Gas Rate
    - $CO_2$ Slip
    - High Inlet Acid Gas
- Condensate Tanks (RH1-TK-COND-EAST and RH1-TK-COND-WEST)
- Slop Water Storage Tanks (RH4-TK-SLOP, RH2-TK-SLOP, and RH1-TK-SLOP)
    - RH4 Slop Tank Scenario 1
    - RH4 Slop Tank Scenario 2
- Methanol Storage Tanks
- Sweet Amine Units (RH1-AMINE, RH2-AMINE, RH4-AMINE, and RH5-AMINE)
    - High Inlet Gas Rate
    - High Inlet $CO_2$ Rate
- Sour Amine Unit – RA2-AMINE
    - High Inlet Gas Rate
    - $CO_2$ Slip
    - High Inlet Acid Gas
- Sour Amine Unit - RHA-AMINE
    - High Inlet Gas Rate
    - $CO_2$ Slip
- Dehydration Units (RH1-TEG, RH2-TEG, RH3-TEG, RH4-TEG, RH5-TEG, RH6-TEG)
    - Maximum Flow Rate
    - Average Flow Rate
    - Minimum Flow Rate

# Sour Tanks (2-T)
## Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Sour Tanks (2-T) | |

## Targa Northern Delaware, LLC – Red Hills Gas Processing Plant




* User Specified Values
? Extrapolated or Approximate Values

ProMax 6.0.24240.0
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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

## Connections

| | Flashing | R10 from AGI 1 Amine | Standing | To Flare (EP-9) | To Sour Tanks |
|---|---|---|---|---|---|
| From Block | Sour Tanks (2-T) | -- | Sour Tanks (2-T) | MIX-101 | MIX-100 |
| To Block | MIX-101 | MIX-100 | MIX-101 | -- | Sour Tanks (2-T) |

## Stream Composition

| Mole Fraction | Flashing % | R10 from AGI 1 Amine % | | Standing % | To Flare (EP-9) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| H2S | 19.6383 | 0.0416511 | * | 8.71595 | 18.9936 | 0.0416511 |
| Carbon Dioxide | 76.331 | 0.0970782 | * | 35.2277 | 73.9045 | 0.0970782 |
| Nitrogen | 8.34266E-06 | 7.26561E-09 | * | 4.93316E-08 | 7.85307E-06 | 7.26561E-09 |
| Methane | 0.00925979 | 8.16235E-06 | * | 0.000152003 | 0.00872212 | 8.16235E-06 |
| Ethane | 0.00327059 | 2.91505E-06 | * | 6.81179E-05 | 0.00308153 | 2.91505E-06 |
| Propane | 0.00091797 | 8.10085E-07 | * | 3.38871E-06 | 0.000863979 | 8.10085E-07 |
| Isobutane | 5.84148E-05 | 5.11604E-08 | * | 5.36581E-08 | 5.49695E-05 | 5.11604E-08 |
| n-Butane | 0.000358666 | 3.16053E-07 | * | 3.04945E-07 | 0.000337511 | 3.16053E-07 |
| Isopentane | 6.79971E-06 | 5.9499E-09 | * | 1.55331E-09 | 6.39838E-06 | 5.9499E-09 |
| n-Pentane | 9.79695E-06 | 8.49544E-09 | * | 7.41419E-10 | 9.21864E-06 | 8.49544E-09 |
| Hexane | 4.70674E-07 | 4.0712E-10 | * | 6.90901E-12 | 4.42889E-07 | 4.0712E-10 |
| n-Heptane | 1.51498E-08 | 1.30874E-11 | * | 4.9255E-14 | 1.42555E-08 | 1.30874E-11 |
| n-Octane | 3.4381E-09 | 2.96431E-12 | * | 1.42022E-15 | 3.23513E-09 | 2.96431E-12 |
| Methylcyclopentane | 2.17624E-06 | 1.94395E-09 | * | 2.27595E-10 | 2.04778E-06 | 1.94395E-09 |
| Benzene | 0.00325161 | 1.18674E-05 | * | 2.02971E-05 | 0.00306085 | 1.18674E-05 |
| Cyclohexane | 8.26862E-06 | 7.73111E-09 | * | 1.40506E-09 | 7.78057E-06 | 7.73111E-09 |
| Methylcyclohexane | 6.62507E-08 | 5.91612E-11 | * | 2.32043E-12 | 6.23397E-08 | 5.91612E-11 |
| Toluene | 0.000531595 | 1.62261E-06 | * | 7.80322E-07 | 0.000500259 | 1.62261E-06 |
| 2,2-Dimethylpropane | 5.64659E-08 | 4.91344E-11 | * | 1.58065E-11 | 5.31335E-08 | 4.91344E-11 |
| 2-Methylpentane | 2.05893E-07 | 1.77755E-10 | * | 2.55167E-12 | 1.93738E-07 | 1.77755E-10 |
| 3-Methylpentane | 1.23472E-07 | 1.06994E-10 | * | 3.12727E-12 | 1.16183E-07 | 1.06994E-10 |
| 2,3-Dimethylbutane | 3.67842E-08 | 3.18545E-11 | * | 1.04233E-12 | 3.46128E-08 | 3.18545E-11 |
| 1,1-Dimethylcyclopentane | 7.74453E-08 | 6.92146E-11 | * | 4.52953E-12 | 7.28736E-08 | 6.92146E-11 |
| 2,3-Dimethylpentane | 4.13791E-10 | 3.59639E-13 | * | 5.5534E-15 | 3.89364E-10 | 3.59639E-13 |
| 2-Methylhexane | 8.82858E-10 | 7.61324E-13 | * | 2.05339E-15 | 8.30739E-10 | 7.61324E-13 |
| cis-1,3-Dimethylcyclopentane | 1.71754E-08 | 1.53754E-11 | * | 9.1678E-13 | 1.61615E-08 | 1.53754E-11 |
| trans-1,3-Dimethylcyclopentane | 1.96829E-08 | 1.78203E-11 | * | 1.32824E-12 | 1.8521E-08 | 1.78203E-11 |
| 2,2,4-Trimethylpentane | 1.7309E-10 | 1.49748E-13 | * | 8.65385E-16 | 1.62872E-10 | 1.49748E-13 |
| 2-Methylheptane | 5.8116E-11 | 5.00769E-14 | * | 2.34855E-17 | 5.46852E-11 | 5.00769E-14 |
| cis-1,2-Dimethylcyclohexane | 1.17945E-09 | 1.02544E-12 | * | 3.45506E-15 | 1.10982E-09 | 1.02544E-12 |
| m-Xylene | 6.40961E-05 | 1.46432E-07 | * | 1.78723E-08 | 6.03133E-05 | 1.46432E-07 |
| p-Xylene | 6.54915E-05 | 1.55164E-07 | * | 2.06711E-08 | 6.16265E-05 | 1.55164E-07 |
| Ethylcyclohexane | 1.47776E-08 | 1.33521E-11 | * | 1.90717E-13 | 1.39052E-08 | 1.33521E-11 |
| Water | 4.01093 | 99.807 | * | 56.0561 | 7.08338 | 99.807 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.00187312 | 0.0542916 | * | 9.25499E-06 | 0.00176309 | 0.0542916 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

| Mass Fraction | Flashing % | R10 from AGI 1 Amine % | | Standing % | To Flare (EP-9) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| H2S | 16.3175 | 0.0784165 | * | 10.3962 | 16.0695 | 0.0784165 |
| Carbon Dioxide | 81.9001 | 0.236014 | * | 54.2599 | 80.7427 | 0.236014 |
| Nitrogen | 5.6978E-06 | 1.12437E-08 | * | 4.83659E-08 | 5.46123E-06 | 1.12437E-08 |
| Methane | 0.00362167 | 7.23363E-06 | * | 8.53434E-05 | 0.00347359 | 7.23363E-06 |
| Ethane | 0.00239763 | 4.84212E-06 | * | 7.16851E-05 | 0.00230023 | 4.84212E-06 |
| Propane | 0.000986872 | 1.97331E-06 | * | 5.22971E-06 | 0.000945767 | 1.97331E-06 |
| Isobutane | 8.27755E-05 | 1.64265E-07 | * | 1.0915E-07 | 7.93139E-05 | 1.64265E-07 |
| n-Butane | 0.00050824 | 1.01478E-06 | * | 6.20313E-07 | 0.000486985 | 1.01478E-06 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

| Mass Fraction | Flashing % | R10 from AGI 1 Amine % | | Standing % | To Flare (EP-9) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| Isopentane | 1.19607E-05 | 2.37142E-08 | * | 3.92226E-09 | 1.146E-05 | 2.37142E-08 |
| n-Pentane | 1.72328E-05 | 3.38598E-08 | * | 1.87215E-09 | 1.65113E-05 | 3.38598E-08 |
| Hexane | 9.88872E-07 | 1.9381E-09 | * | 2.08376E-11 | 9.47466E-07 | 1.9381E-09 |
| n-Heptane | 3.70101E-08 | 7.24435E-11 | * | 1.72733E-13 | 3.54604E-08 | 7.24435E-11 |
| n-Octane | 9.57479E-09 | 1.87055E-11 | * | 5.67777E-15 | 9.17386E-09 | 1.87055E-11 |
| Methylcyclopentane | 4.46526E-06 | 9.03771E-09 | * | 6.70369E-10 | 4.27831E-06 | 9.03771E-09 |
| Benzene | 0.0061923 | 5.12086E-05 | * | 5.54879E-05 | 0.00593533 | 5.12086E-05 |
| Cyclohexane | 1.69657E-05 | 3.59431E-08 | * | 4.13853E-09 | 1.62555E-05 | 3.59431E-08 |
| Methylcyclohexane | 1.5859E-07 | 3.20891E-10 | * | 7.97381E-12 | 1.5195E-07 | 3.20891E-10 |
| Toluene | 0.00119415 | 8.25895E-06 | * | 2.5163E-06 | 0.00114425 | 8.25895E-06 |
| 2,2-Dimethylpropane | 9.93236E-08 | 1.95833E-10 | * | 3.99128E-11 | 9.51662E-08 | 1.95833E-10 |
| 2-Methylpentane | 4.32575E-07 | 8.46204E-10 | * | 7.69582E-12 | 4.14462E-07 | 8.46204E-10 |
| 3-Methylpentane | 2.59411E-07 | 5.09346E-10 | * | 9.43184E-12 | 2.48549E-07 | 5.09346E-10 |
| 2,3-Dimethylbutane | 7.72826E-08 | 1.51644E-10 | * | 3.14367E-12 | 7.40466E-08 | 1.51644E-10 |
| 1,1-Dimethylcyclopentane | 1.85388E-07 | 3.7542E-10 | * | 1.55651E-11 | 1.77626E-07 | 3.7542E-10 |
| 2,3-Dimethylpentane | 1.01087E-09 | 1.99073E-12 | * | 1.94752E-14 | 9.68539E-10 | 1.99073E-12 |
| 2-Methylhexane | 2.15677E-09 | 4.21421E-12 | * | 7.20103E-15 | 2.06646E-09 | 4.21421E-12 |
| cis-1,3-Dimethylcyclopentane | 4.11144E-08 | 8.33962E-11 | * | 3.15038E-12 | 3.93929E-08 | 8.33962E-11 |
| trans-1,3-Dimethylcyclopentane | 4.71167E-08 | 9.66574E-11 | * | 4.56432E-12 | 4.51439E-08 | 9.66574E-11 |
| 2,2,4-Trimethylpentane | 4.82039E-10 | 9.44943E-13 | * | 3.45965E-15 | 4.61855E-10 | 9.44943E-13 |
| 2-Methylheptane | 1.61848E-10 | 3.15996E-13 | * | 9.38908E-17 | 1.55071E-10 | 3.15996E-13 |
| cis-1,2-Dimethylcyclohexane | 3.22668E-09 | 6.35656E-12 | * | 1.35689E-14 | 3.09157E-09 | 6.35656E-12 |
| m-Xylene | 0.000165901 | 8.58791E-07 | * | 6.64064E-08 | 0.000158957 | 8.58791E-07 |
| p-Xylene | 0.000169513 | 9.10002E-07 | * | 7.68057E-08 | 0.000162418 | 9.10002E-07 |
| Ethylcyclohexane | 4.0428E-08 | 8.27678E-11 | * | 7.48996E-13 | 3.87352E-08 | 8.27678E-11 |
| Water | 1.76166 | 99.3281 | * | 35.3437 | 3.16787 | 99.3281 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.00544177 | 0.357389 | * | 3.85978E-05 | 0.00521552 | 0.357389 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

| Mass Flow | Flashing lb/h | R10 from AGI 1 Amine lb/h | | Standing lb/h | To Flare (EP-9) lb/h | To Sour Tanks lb/h |
|---|---|---|---|---|---|---|
| H2S | 0.606993 | 5.04368 | * | 0.00362039 | 0.623895 | 1.49549 |
| Carbon Dioxide | 3.0466 | 15.1802 | * | 0.0188956 | 3.13481 | 4.50105 |
| Nitrogen | 2.11952E-07 | 7.23183E-07 | * | 1.68431E-11 | 2.12031E-07 | 2.14429E-07 |
| Methane | 0.000134722 | 0.000465261 | * | 2.97202E-08 | 0.000134861 | 0.000137953 |
| Ethane | 8.91894E-05 | 0.000311441 | * | 2.49638E-08 | 8.93059E-05 | 9.23445E-05 |
| Propane | 3.67107E-05 | 0.000126922 | * | 1.82121E-09 | 3.67192E-05 | 3.76332E-05 |
| Isobutane | 3.07916E-06 | 1.05654E-05 | * | 3.80109E-11 | 3.07934E-06 | 3.13272E-06 |
| n-Butane | 1.8906E-05 | 6.52698E-05 | * | 2.1602E-10 | 1.8907E-05 | 1.9353E-05 |
| Isopentane | 4.44925E-07 | 1.52528E-06 | * | 1.3659E-12 | 4.44932E-07 | 4.52256E-07 |
| n-Pentane | 6.41044E-07 | 2.17784E-06 | * | 6.51963E-13 | 6.41047E-07 | 6.45744E-07 |
| Hexane | 3.67851E-08 | 1.24657E-07 | * | 7.25653E-15 | 3.67851E-08 | 3.69616E-08 |
| n-Heptane | 1.37674E-09 | 4.65951E-09 | * | 6.01529E-17 | 1.37674E-09 | 1.38158E-09 |
| n-Octane | 3.56173E-10 | 1.20312E-09 | * | 1.97724E-18 | 3.56173E-10 | 3.56733E-10 |
| Methylcyclopentane | 1.66103E-07 | 5.81298E-07 | * | 2.33451E-13 | 1.66104E-07 | 1.72359E-07 |
| Benzene | 0.000230347 | 0.00329369 | * | 1.93233E-08 | 0.000230437 | 0.000976603 |
| Cyclohexane | 6.31109E-07 | 2.31183E-06 | * | 1.44121E-12 | 6.31116E-07 | 6.85473E-07 |
| Methylcyclohexane | 5.8994E-09 | 2.06394E-08 | * | 2.77683E-15 | 5.89941E-09 | 6.11973E-09 |
| Toluene | 4.44211E-05 | 0.000531209 | * | 8.76284E-10 | 4.44252E-05 | 0.000157507 |
| 2,2-Dimethylpropane | 3.69474E-09 | 1.25958E-08 | * | 1.38994E-14 | 3.6948E-09 | 3.73474E-09 |
| 2-Methylpentane | 1.60914E-08 | 5.44271E-08 | * | 2.68001E-15 | 1.60914E-08 | 1.6138E-08 |
| 3-Methylpentane | 9.64982E-09 | 3.27607E-08 | * | 3.28457E-15 | 9.64984E-09 | 9.71378E-09 |
| 2,3-Dimethylbutane | 2.87483E-09 | 9.75359E-09 | * | 1.09476E-15 | 2.87484E-09 | 2.89201E-09 |
| 1,1-Dimethylcyclopentane | 6.89625E-09 | 2.41467E-08 | * | 5.42042E-15 | 6.89627E-09 | 7.15967E-09 |
| 2,3-Dimethylpentane | 3.76032E-11 | 1.28042E-10 | * | 6.78212E-18 | 3.76033E-11 | 3.79654E-11 |
| 2-Methylhexane | 8.02296E-11 | 2.71054E-10 | * | 2.50771E-18 | 8.02296E-11 | 8.03695E-11 |
| cis-1,3-Dimethylcyclopentane | 1.52941E-09 | 5.36397E-09 | * | 1.0971E-15 | 1.52942E-09 | 1.59046E-09 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

| Mass Flow | Flashing lb/h | R10 from AGI 1 Amine lb/h | | Standing lb/h | To Flare (EP-9) lb/h | To Sour Tanks lb/h |
|---|---|---|---|---|---|---|
| trans-1,3-Dimethylcyclopentane | 1.75269E-09 | 6.21692E-09 | * | 1.58949E-15 | 1.7527E-09 | 1.84336E-09 |
| 2,2,4-Trimethylpentane | 1.79314E-11 | 6.07779E-11 | * | 1.2048E-18 | 1.79314E-11 | 1.80211E-11 |
| 2-Methylheptane | 6.02058E-12 | 2.03246E-11 | * | 3.26968E-20 | 6.02058E-12 | 6.02639E-12 |
| cis-1,2-Dimethylcyclohexane | 1.20029E-10 | 4.08849E-10 | * | 4.72528E-18 | 1.20029E-10 | 1.21227E-10 |
| m-Xylene | 6.17136E-06 | 5.52367E-05 | * | 2.31256E-11 | 6.17147E-06 | 1.63781E-05 |
| p-Xylene | 6.30572E-06 | 5.85306E-05 | * | 2.67471E-11 | 6.30584E-06 | 1.73547E-05 |
| Ethylcyclohexane | 1.50388E-09 | 5.32355E-09 | * | 2.60833E-16 | 1.50388E-09 | 1.57847E-09 |
| Water | 0.0655322 | 6388.7 | * | 0.0123082 | 0.122992 | 1894.29 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.000202428 | 22.987 | * | 1.34414E-08 | 0.000202491 | 6.8158 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

## Stream Properties

| Property | Units | Flashing | R10 from AGI 1 Amine | | Standing | To Flare (EP-9) | To Sour Tanks |
|---|---|---|---|---|---|---|---|
| Temperature | °F | 80 | 120.001 | * | 80 | 80 | 120.001 |
| Pressure | psia | 12.76 | 28.6959 | * | 12.76 | 12.76 | 28.6959 |
| Molecular Weight | lb/lbmol | 41.0169 | 18.1021 | | 28.5728 | 40.2823 | 18.1021 |
| Mass Density | lb/ft^3 | 0.0908309 | 42.5014 | | 0.138199 | 0.0921535 | 42.5014 |
| Mass Flow | lb/h | 3.7199 | 6431.91 | | 0.0348243 | 3.88247 | 1907.11 |
| Std Vapor Volumetric Flow | MMSCFD | 0.000825986 | 3.23605 | | 1.11003E-05 | 0.000877807 | 0.959512 |
| Std Liquid Volumetric Flow | sgpm | 0.00910564 | 12.8653 | * | 7.98903E-05 | 0.0094786 | 3.81465 |
| Specific Gravity | | 1.41621 | | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 127.548 | 52.5995 | | 83.7351 | 124.962 | 52.5995 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

## Connections

| | To 2-LOAD | Working | 5 | | |
|---|---|---|---|---|---|
| From Block | Sour Tanks (2-T) | Sour Tanks (2-T) | Sour Tanks (2-T) | | |
| To Block | -- | MIX-101 | -- | | |

## Stream Composition

| Mole Fraction | To 2-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| H2S | 0.0242971 | 8.71595 | 20.2789 | | |
| Carbon Dioxide | 0.0294938 | 35.2277 | 75.4804 | | |
| Nitrogen | 8.13264E-11 | 4.93316E-08 | 8.50626E-06 | | |
| Methane | 1.83114E-07 | 0.000152003 | 0.00933132 | | |
| Ethane | 9.60072E-08 | 6.81179E-05 | 0.00331604 | | |
| Propane | 1.96944E-08 | 3.38871E-06 | 0.000957415 | | |
| Isobutane | 8.72503E-10 | 5.36581E-08 | 6.12827E-05 | | |
| n-Butane | 7.28896E-09 | 3.04945E-07 | 0.000376667 | | |
| Isopentane | 9.64466E-11 | 1.55331E-09 | 7.15018E-06 | | |
| n-Pentane | 6.18506E-11 | 7.41419E-10 | 1.03051E-05 | | |
| Hexane | 1.94617E-12 | 6.90901E-12 | 4.9524E-07 | | |
| n-Heptane | 4.58683E-14 | 4.9255E-14 | 1.59409E-08 | | |
| n-Octane | 4.66316E-15 | 1.42022E-15 | 2.17191E-11 | | |
| Methylcyclopentane | 7.06074E-11 | 2.27595E-10 | 2.28974E-06 | | |
| Benzene | 9.07549E-06 | 2.02971E-05 | 0.0034208 | | |
| Cyclohexane | 6.13634E-10 | 1.40506E-09 | 8.69992E-06 | | |
| Methylcyclohexane | 2.13182E-12 | 2.32043E-12 | 6.97053E-08 | | |
| Toluene | 1.16602E-06 | 7.80322E-07 | 0.000559254 | | |
| 2,2-Dimethylpropane | 5.2589E-13 | 1.58065E-11 | 5.93335E-08 | | |
| 2-Methylpentane | 5.14447E-13 | 2.55167E-12 | 2.16641E-07 | | |
| 3-Methylpentane | 7.04934E-13 | 3.12727E-12 | 1.29909E-07 | | |
| 2,3-Dimethylbutane | 1.89283E-13 | 1.04233E-12 | 3.87006E-08 | | |
| 1,1-Dimethylcyclopentane | 2.54868E-12 | 4.52953E-12 | 8.14841E-08 | | |
| 2,3-Dimethylpentane | 3.43388E-15 | 5.5534E-15 | 7.73451E-12 | | |
| 2-Methylhexane | 1.32598E-15 | 2.05339E-15 | 4.93933E-12 | | |
| cis-1,3-Dimethylcyclopentane | 5.906E-13 | 9.1678E-13 | 1.80712E-08 | | |
| trans-1,3-Dimethylcyclopentane | 8.77244E-13 | 1.32824E-12 | 2.07089E-08 | | |
| 2,2,4-Trimethylpentane | 7.46104E-16 | 8.65385E-16 | 5.45801E-12 | | |
| 2-Methylheptane | 4.8384E-17 | 2.34855E-17 | 2.7116E-13 | | |
| cis-1,2-Dimethylcyclohexane | 1.01349E-14 | 3.45506E-15 | 1.3756E-11 | | |
| m-Xylene | 9.1338E-08 | 1.78723E-08 | 6.74294E-05 | | |
| p-Xylene | 9.88756E-08 | 2.06711E-08 | 6.88956E-05 | | |
| Ethylcyclohexane | 6.31523E-13 | 1.90717E-13 | 1.55459E-08 | | |
| Water | 99.8919 | 56.0561 | 4.22055 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 0.0543397 | 9.25499E-06 | 0.00196869 | | |
| Piperazine | 0 | 0 | 0 | | |

| Mass Fraction | To 2-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| H2S | 0.0457956 | 10.3962 | 16.8983 | | |
| Carbon Dioxide | 0.0717853 | 54.2599 | 81.221 | | |
| Nitrogen | 1.25995E-10 | 4.83659E-08 | 5.82629E-06 | | |
| Methane | 1.62461E-07 | 8.53434E-05 | 0.00366017 | | |
| Ethane | 1.59654E-07 | 7.16851E-05 | 0.00243796 | | |
| Propane | 4.80282E-08 | 5.22971E-06 | 0.00103225 | | |
| Isobutane | 2.80457E-09 | 1.0915E-07 | 8.70898E-05 | | |
| n-Butane | 2.34296E-08 | 6.20313E-07 | 0.000535287 | | |
| Isopentane | 3.84834E-10 | 3.92226E-09 | 1.26134E-05 | | |
| n-Pentane | 2.46792E-10 | 1.87215E-09 | 1.81789E-05 | | |
| Hexane | 9.27519E-12 | 2.08376E-11 | 1.04348E-06 | | |
| n-Heptane | 2.54183E-13 | 1.72733E-13 | 3.90549E-08 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

| Mass Fraction | To 2-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| n-Octane | 2.94586E-14 | 5.67777E-15 | 6.06601E-11 | | |
| Methylcyclopentane | 3.28633E-10 | 6.70369E-10 | 4.7117E-06 | | |
| Benzene | 3.92053E-05 | 5.54879E-05 | 0.0065333 | | |
| Cyclohexane | 2.85608E-09 | 4.13853E-09 | 1.79022E-05 | | |
| Methylcyclohexane | 1.1576E-11 | 7.97381E-12 | 1.67341E-07 | | |
| Toluene | 5.94159E-06 | 2.5163E-06 | 0.0012599 | | |
| 2,2-Dimethylpropane | 2.09837E-12 | 3.99128E-11 | 1.04669E-07 | | |
| 2-Methylpentane | 2.45178E-12 | 7.69582E-12 | 4.56468E-07 | | |
| 3-Methylpentane | 3.35962E-12 | 9.43184E-12 | 2.73721E-07 | | |
| 2,3-Dimethylbutane | 9.02094E-13 | 3.14367E-12 | 8.15432E-08 | | |
| 1,1-Dimethylcyclopentane | 1.38396E-11 | 1.55651E-11 | 1.95619E-07 | | |
| 2,3-Dimethylpentane | 1.90291E-14 | 1.94752E-14 | 1.89494E-11 | | |
| 2-Methylhexane | 7.34801E-15 | 7.20103E-15 | 1.21013E-11 | | |
| cis-1,3-Dimethylcyclopentane | 3.20701E-12 | 3.15038E-12 | 4.33834E-08 | | |
| trans-1,3-Dimethylcyclopentane | 4.76352E-12 | 4.56432E-12 | 4.97158E-08 | | |
| 2,2,4-Trimethylpentane | 4.71337E-15 | 3.45965E-15 | 1.52439E-11 | | |
| 2-Methylheptane | 3.05657E-16 | 9.38908E-17 | 7.57335E-13 | | |
| cis-1,2-Dimethylcyclohexane | 6.28952E-14 | 1.35689E-14 | 3.77417E-11 | | |
| m-Xylene | 5.36279E-07 | 6.64064E-08 | 0.000175032 | | |
| p-Xylene | 5.80535E-07 | 7.68057E-08 | 0.000178838 | | |
| Ethylcyclohexane | 3.91912E-12 | 7.48996E-13 | 4.26524E-08 | | |
| Water | 99.5243 | 35.3437 | 1.85908 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 0.358108 | 3.85978E-05 | 0.00573591 | | |
| Piperazine | 0 | 0 | 0 | | |

| Mass Flow | To 2-LOAD lb/h | Working lb/h | 5 lb/h | | |
|---|---|---|---|---|---|
| H2S | 0.871593 | 0.0132811 | 0.0158267 | | |
| Carbon Dioxide | 1.36624 | 0.0693168 | 0.0760707 | | |
| Nitrogen | 2.39798E-09 | 6.17872E-11 | 5.45684E-09 | | |
| Methane | 3.09201E-06 | 1.09026E-07 | 3.42808E-06 | | |
| Ethane | 3.03859E-06 | 9.15773E-08 | 2.28337E-06 | | |
| Propane | 9.14084E-07 | 6.68093E-09 | 9.66791E-07 | | |
| Isobutane | 5.33774E-08 | 1.39439E-10 | 8.15674E-08 | | |
| n-Butane | 4.45919E-07 | 7.92446E-10 | 5.01344E-07 | | |
| Isopentane | 7.32427E-09 | 5.01067E-12 | 1.18136E-08 | | |
| n-Pentane | 4.69701E-09 | 2.39166E-12 | 1.70262E-08 | | |
| Hexane | 1.76528E-10 | 2.66199E-14 | 9.77317E-10 | | |
| n-Heptane | 4.83768E-12 | 2.20665E-16 | 3.65784E-11 | | |
| n-Octane | 5.60664E-13 | 7.25332E-18 | 5.68136E-14 | | |
| Methylcyclopentane | 6.25463E-09 | 8.56393E-13 | 4.41293E-09 | | |
| Benzene | 0.000746165 | 7.08855E-08 | 6.11902E-06 | | |
| Cyclohexane | 5.43576E-08 | 5.28695E-12 | 1.6767E-08 | | |
| Methylcyclohexane | 2.20317E-10 | 1.01865E-14 | 1.5673E-10 | | |
| Toluene | 0.000113082 | 3.21456E-09 | 1.18001E-06 | | |
| 2,2-Dimethylpropane | 3.99367E-11 | 5.09884E-14 | 9.80315E-11 | | |
| 2-Methylpentane | 4.6663E-11 | 9.83137E-15 | 4.27523E-10 | | |
| 3-Methylpentane | 6.39411E-11 | 1.20491E-14 | 2.56365E-10 | | |
| 2,3-Dimethylbutane | 1.71689E-11 | 4.01602E-15 | 7.63725E-11 | | |
| 1,1-Dimethylcyclopentane | 2.63398E-10 | 1.98843E-14 | 1.83214E-10 | | |
| 2,3-Dimethylpentane | 3.62167E-13 | 2.48795E-17 | 1.77478E-14 | | |
| 2-Methylhexane | 1.39849E-13 | 9.19928E-18 | 1.13339E-14 | | |
| cis-1,3-Dimethylcyclopentane | 6.10367E-11 | 4.02459E-15 | 4.06324E-11 | | |
| trans-1,3-Dimethylcyclopentane | 9.06606E-11 | 5.83089E-15 | 4.65633E-11 | | |
| 2,2,4-Trimethylpentane | 8.97061E-14 | 4.41968E-18 | 1.42773E-14 | | |
| 2-Methylheptane | 5.81734E-15 | 1.19945E-19 | 7.09312E-16 | | |
| cis-1,2-Dimethylcyclohexane | 1.19704E-12 | 1.73342E-17 | 3.53485E-14 | | |
| m-Xylene | 1.02066E-05 | 8.48339E-11 | 1.63933E-07 | | |
| p-Xylene | 1.10489E-05 | 9.81189E-11 | 1.67498E-07 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Sour Tanks (2-T) | |

| Mass Flow | To 2-LOAD lb/h | Working lb/h | 5 lb/h | | |
|---|---|---|---|---|---|
| Ethylcyclohexane | 7.45898E-11 | 9.56839E-16 | 3.99478E-11 | | |
| Water | 1894.17 | 0.0451513 | 0.00174119 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 6.8156 | 4.93085E-08 | 5.3722E-06 | | |
| Piperazine | 0 | 0 | 0 | | |

## Stream Properties

| Property | Units | To 2-LOAD | Working | 5 | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 80 | 80 | 80 | | |
| Pressure | psia | 12.76 | 12.76 | 12.76 | | |
| Molecular Weight | lb/lbmol | 18.0818 | 28.5728 | 40.899 | | |
| Mass Density | lb/ft^3 | 62.2053 | 0.138199 | 0.0907687 | | |
| Mass Flow | lb/h | 1903.23 | 0.127749 | 0.093659 | | |
| Std Vapor Volumetric Flow | MMSCFD | 0.958635 | 4.07204E-05 | 2.08565E-05 | | |
| Std Liquid Volumetric Flow | sgpm | 3.80518 | 0.00029307 | 0.00022925 | | |
| Specific Gravity | | 0.99738 | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 52.5332 | 83.7351 | 131.75 | | |

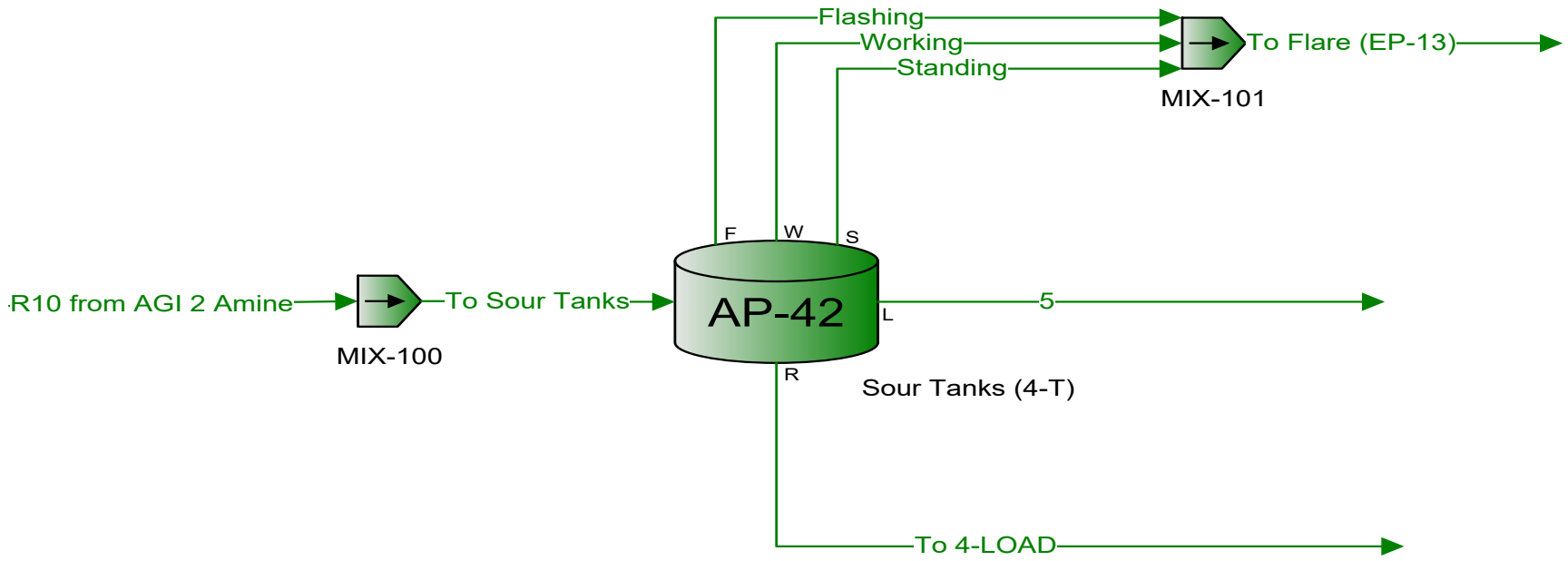
**Remarks**


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# Sour Tanks (4-T)
## Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Sour Tanks (4-T) | |

## Targa Northern Delaware, LLC – Red Hills Gas Processing Plant





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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

## Connections

| | Flashing | R10 from AGI 2 Amine | Standing | To Flare (EP-13) | To Sour Tanks |
|---|---|---|---|---|---|
| From Block | Sour Tanks (4-T) | -- | Sour Tanks (4-T) | MIX-101 | MIX-100 |
| To Block | MIX-101 | MIX-100 | MIX-101 | -- | Sour Tanks (4-T) |

## Stream Composition

| Mole Fraction | Flashing % | R10 from AGI 2 Amine % | | Standing % | To Flare (EP-13) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| H2S | 27.5272 | 0.0468522 | * | 12.1367 | 26.0455 | 0.0468522 |
| Carbon Dioxide | 68.4383 | 0.059144 | * | 31.4577 | 64.8782 | 0.059144 |
| Nitrogen | 1.35657E-05 | 6.33706E-09 | * | 8.02412E-08 | 1.22674E-05 | 6.33706E-09 |
| Methane | 0.0125123 | 5.97733E-06 | * | 0.000205914 | 0.0113276 | 5.97733E-06 |
| Ethane | 0.00406686 | 1.98223E-06 | * | 8.46806E-05 | 0.00368349 | 1.98223E-06 |
| Propane | 0.00110041 | 5.26605E-07 | * | 4.04468E-06 | 0.000994858 | 5.26605E-07 |
| Isobutane | 6.60382E-05 | 3.11576E-08 | * | 5.97993E-08 | 5.96864E-05 | 3.11576E-08 |
| n-Butane | 0.000424267 | 2.02377E-07 | * | 3.54181E-07 | 0.000383456 | 2.02377E-07 |
| Isopentane | 8.81875E-06 | 4.1535E-09 | * | 1.97835E-09 | 7.96996E-06 | 4.1535E-09 |
| n-Pentane | 1.23335E-05 | 5.71063E-09 | * | 8.75032E-10 | 1.11462E-05 | 5.71063E-09 |
| Hexane | 5.19122E-07 | 2.39354E-10 | * | 7.3093E-12 | 4.69147E-07 | 2.39354E-10 |
| n-Heptane | 1.73953E-08 | 8.00196E-12 | * | 5.40529E-14 | 1.57206E-08 | 8.00196E-12 |
| n-Octane | 3.463E-09 | 1.58742E-12 | * | 1.33895E-15 | 3.12962E-09 | 1.58742E-12 |
| Methylcyclopentane | 2.6423E-06 | 1.29113E-09 | * | 2.70027E-10 | 2.38795E-06 | 1.29113E-09 |
| Benzene | 0.00254822 | 8.03063E-06 | * | 1.5452E-05 | 0.00230439 | 8.03063E-06 |
| Cyclohexane | 8.94293E-06 | 4.73631E-09 | * | 1.49359E-09 | 8.08213E-06 | 4.73631E-09 |
| Methylcyclohexane | 7.6087E-08 | 3.71508E-11 | * | 2.59499E-12 | 6.87623E-08 | 3.71508E-11 |
| Toluene | 0.00041979 | 1.05923E-06 | * | 5.8415E-07 | 0.000379433 | 1.05923E-06 |
| 2,2-Dimethylpropane | 6.71797E-08 | 3.13262E-11 | * | 1.86085E-11 | 6.0714E-08 | 3.13262E-11 |
| 2-Methylpentane | 2.28449E-07 | 1.04966E-10 | * | 2.66737E-12 | 2.06456E-07 | 1.04966E-10 |
| 3-Methylpentane | 1.3652E-07 | 6.31597E-11 | * | 3.35641E-12 | 1.23377E-07 | 6.31597E-11 |
| 2,3-Dimethylbutane | 4.07188E-08 | 1.88157E-11 | * | 1.11807E-12 | 3.67989E-08 | 1.88157E-11 |
| 1,1-Dimethylcyclopentane | 9.39621E-08 | 4.59701E-11 | * | 5.39575E-12 | 8.49168E-08 | 4.59701E-11 |
| 2,3-Dimethylpentane | 4.7505E-10 | 2.21015E-13 | * | 6.27242E-15 | 4.29317E-10 | 2.21015E-13 |
| 2-Methylhexane | 1.01868E-09 | 4.67081E-13 | * | 2.19476E-15 | 9.20612E-10 | 4.67081E-13 |
| cis-1,3-Dimethylcyclopentane | 2.07445E-08 | 1.01792E-11 | * | 1.08756E-12 | 1.87475E-08 | 1.01792E-11 |
| trans-1,3-Dimethylcyclopentane | 2.41422E-08 | 1.20905E-11 | * | 1.60647E-12 | 2.18182E-08 | 1.20905E-11 |
| 2,2,4-Trimethylpentane | 1.46728E-10 | 6.76988E-14 | * | 7.29175E-16 | 1.32602E-10 | 6.76988E-14 |
| 2-Methylheptane | 5.88094E-11 | 2.6928E-14 | * | 2.16312E-17 | 5.31478E-11 | 2.6928E-14 |
| cis-1,2-Dimethylcyclohexane | 1.26322E-09 | 5.87911E-13 | * | 3.58644E-15 | 1.14161E-09 | 5.87911E-13 |
| m-Xylene | 6.00224E-05 | 1.02453E-07 | * | 1.47726E-08 | 5.42454E-05 | 1.02453E-07 |
| p-Xylene | 5.98538E-05 | 1.08512E-07 | * | 1.70746E-08 | 5.40933E-05 | 1.08512E-07 |
| Ethylcyclohexane | 1.53802E-08 | 7.68114E-12 | * | 1.97657E-13 | 1.38996E-08 | 7.68114E-12 |
| Water | 4.01133 | 99.8762 | * | 56.4053 | 9.05534 | 99.8762 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.00186918 | 0.0178101 | * | 3.05275E-06 | 0.00168953 | 0.0178101 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

| Mass Fraction | Flashing % | R10 from AGI 2 Amine % | | Standing % | To Flare (EP-13) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| H2S | 23.3183 | 0.088433 | * | 14.6978 | 22.7205 | 0.088433 |
| Carbon Dioxide | 74.8637 | 0.144155 | * | 49.1941 | 73.0836 | 0.144155 |
| Nitrogen | 9.44566E-06 | 9.83167E-09 | * | 7.98736E-08 | 8.79617E-06 | 9.83167E-09 |
| Methane | 0.00498924 | 5.3107E-06 | * | 0.000117381 | 0.00465139 | 5.3107E-06 |
| Ethane | 0.00303951 | 3.30101E-06 | * | 9.04781E-05 | 0.002835 | 3.30101E-06 |
| Propane | 0.00120607 | 1.28604E-06 | * | 6.33752E-06 | 0.00112287 | 1.28604E-06 |
| Isobutane | 9.54032E-05 | 1.00295E-07 | * | 1.23503E-07 | 8.87958E-05 | 1.00295E-07 |
| n-Butane | 0.000612924 | 6.51443E-07 | * | 7.31488E-07 | 0.00057047 | 6.51443E-07 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

| Mass Fraction | Flashing % | R10 from AGI 2 Amine % | | Standing % | To Flare (EP-13) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| Isopentane | 1.58147E-05 | 1.65965E-08 | * | 5.07193E-09 | 1.47184E-05 | 1.65965E-08 |
| n-Pentane | 2.21178E-05 | 2.28185E-08 | * | 2.24333E-09 | 2.05841E-05 | 2.28185E-08 |
| Hexane | 1.11193E-06 | 1.14235E-09 | * | 2.2382E-11 | 1.03482E-06 | 1.14235E-09 |
| n-Heptane | 4.33244E-08 | 4.44064E-11 | * | 1.92458E-13 | 4.032E-08 | 4.44064E-11 |
| n-Octane | 9.83224E-09 | 1.00425E-11 | * | 5.43475E-15 | 9.1504E-09 | 1.00425E-11 |
| Methylcyclopentane | 5.52726E-06 | 6.01792E-09 | * | 8.07516E-10 | 5.14401E-06 | 6.01792E-09 |
| Benzene | 0.00494742 | 3.47408E-05 | * | 4.28887E-05 | 0.0046073 | 3.47408E-05 |
| Cyclohexane | 1.87072E-05 | 2.20758E-08 | * | 4.46656E-09 | 1.74102E-05 | 2.20758E-08 |
| Methylcyclohexane | 1.85689E-07 | 2.02019E-10 | * | 9.05368E-12 | 1.72812E-07 | 2.02019E-10 |
| Toluene | 0.000961388 | 5.40511E-06 | * | 1.91252E-06 | 0.000894851 | 5.40511E-06 |
| 2,2-Dimethylpropane | 1.20474E-07 | 1.25173E-10 | * | 4.77067E-11 | 1.12123E-07 | 1.25173E-10 |
| 2-Methylpentane | 4.89325E-07 | 5.00963E-10 | * | 8.16782E-12 | 4.55393E-07 | 5.00963E-10 |
| 3-Methylpentane | 2.92418E-07 | 3.01437E-10 | * | 1.02778E-11 | 2.72141E-07 | 3.01437E-10 |
| 2,3-Dimethylbutane | 8.72175E-08 | 8.98001E-11 | * | 3.42366E-12 | 8.11694E-08 | 8.98001E-11 |
| 1,1-Dimethylcyclopentane | 2.29313E-07 | 2.49976E-10 | * | 1.88253E-11 | 2.13412E-07 | 2.49976E-10 |
| 2,3-Dimethylpentane | 1.18315E-09 | 1.22651E-12 | * | 2.23332E-14 | 1.10111E-09 | 1.22651E-12 |
| 2-Methylhexane | 2.53711E-09 | 2.59204E-12 | * | 7.81452E-15 | 2.36117E-09 | 2.59204E-12 |
| cis-1,3-Dimethylcyclopentane | 5.06266E-08 | 5.53525E-11 | * | 3.79439E-12 | 4.71161E-08 | 5.53525E-11 |
| trans-1,3-Dimethylcyclopentane | 5.89186E-08 | 6.57457E-11 | * | 5.60484E-12 | 5.48331E-08 | 6.57457E-11 |
| 2,2,4-Trimethylpentane | 4.16593E-10 | 4.28281E-13 | * | 2.95969E-15 | 3.87704E-10 | 4.28281E-13 |
| 2-Methylheptane | 1.66973E-10 | 1.70354E-13 | * | 8.78001E-17 | 1.55394E-10 | 1.70354E-13 |
| cis-1,2-Dimethylcyclohexane | 3.52326E-09 | 3.65365E-12 | * | 1.43003E-14 | 3.27894E-09 | 3.65365E-12 |
| m-Xylene | 0.000158387 | 6.02392E-07 | * | 5.57288E-08 | 0.000147407 | 6.02392E-07 |
| p-Xylene | 0.000157942 | 6.38018E-07 | * | 6.44127E-08 | 0.000146994 | 6.38018E-07 |
| Ethylcyclohexane | 4.28973E-08 | 4.77354E-11 | * | 7.88121E-13 | 3.99226E-08 | 4.77354E-11 |
| Water | 1.7962 | 99.6498 | * | 36.1078 | 4.17562 | 99.6498 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.00553624 | 0.117538 | * | 1.29262E-05 | 0.00515321 | 0.117538 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

| Mass Flow | Flashing lb/h | R10 from AGI 2 Amine lb/h | | Standing lb/h | To Flare (EP-13) lb/h | To Sour Tanks lb/h |
|---|---|---|---|---|---|---|
| H2S | 0.791832 | 35.0756 | * | 0.00501577 | 0.829022 | 2.94822 |
| Carbon Dioxide | 2.54218 | 57.177 | * | 0.016788 | 2.66666 | 4.80591 |
| Nitrogen | 3.20751E-07 | 3.89958E-06 | * | 2.72576E-11 | 3.20953E-07 | 3.27772E-07 |
| Methane | 0.000169422 | 0.00210641 | * | 4.00574E-08 | 0.000169719 | 0.00017705 |
| Ethane | 0.000103214 | 0.0013093 | * | 3.08765E-08 | 0.000103443 | 0.00011005 |
| Propane | 4.09552E-05 | 0.000510088 | * | 2.16274E-09 | 4.09712E-05 | 4.28745E-05 |
| Isobutane | 3.23965E-06 | 3.97805E-05 | * | 4.21467E-11 | 3.23996E-06 | 3.34368E-06 |
| n-Butane | 2.08133E-05 | 0.000258385 | * | 2.49627E-10 | 2.08152E-05 | 2.17181E-05 |
| Isopentane | 5.37028E-07 | 6.58275E-06 | * | 1.73084E-12 | 5.37041E-07 | 5.53301E-07 |
| n-Pentane | 7.51063E-07 | 9.0506E-06 | * | 7.65558E-13 | 7.51069E-07 | 7.60732E-07 |
| Hexane | 3.77584E-08 | 4.53094E-07 | * | 7.63808E-15 | 3.77585E-08 | 3.8084E-08 |
| n-Heptane | 1.47119E-09 | 1.76131E-08 | * | 6.56781E-17 | 1.47119E-09 | 1.48044E-09 |
| n-Octane | 3.33878E-10 | 3.98319E-09 | * | 1.85466E-18 | 3.33878E-10 | 3.34799E-10 |
| Methylcyclopentane | 1.87692E-07 | 2.38692E-06 | * | 2.75573E-13 | 1.87694E-07 | 2.00628E-07 |
| Benzene | 0.000168002 | 0.0137794 | * | 1.46362E-08 | 0.00016811 | 0.0011582 |
| Cyclohexane | 6.35248E-07 | 8.75604E-06 | * | 1.52426E-12 | 6.3526E-07 | 7.35972E-07 |
| Methylcyclohexane | 6.30552E-09 | 8.01277E-08 | * | 3.08966E-15 | 6.30554E-09 | 6.73498E-09 |
| Toluene | 3.26463E-05 | 0.00214386 | * | 6.52665E-10 | 3.26511E-05 | 0.000180198 |
| 2,2-Dimethylpropane | 4.09098E-09 | 4.96479E-08 | * | 1.62804E-14 | 4.09111E-09 | 4.17306E-09 |
| 2-Methylpentane | 1.66163E-08 | 1.98699E-07 | * | 2.78735E-15 | 1.66163E-08 | 1.67013E-08 |
| 3-Methylpentane | 9.92979E-09 | 1.1956E-07 | * | 3.50738E-15 | 9.92982E-09 | 1.00494E-08 |
| 2,3-Dimethylbutane | 2.96169E-09 | 3.56179E-08 | * | 1.16836E-15 | 2.96169E-09 | 2.99379E-09 |
| 1,1-Dimethylcyclopentane | 7.78687E-09 | 9.91493E-08 | * | 6.42432E-15 | 7.78692E-09 | 8.33381E-09 |
| 2,3-Dimethylpentane | 4.01769E-11 | 4.86477E-10 | * | 7.62143E-18 | 4.01769E-11 | 4.08899E-11 |
| 2-Methylhexane | 8.6154E-11 | 1.02809E-09 | * | 2.66678E-18 | 8.6154E-11 | 8.64145E-11 |
| cis-1,3-Dimethylcyclopentane | 1.71915E-09 | 2.19547E-08 | * | 1.29487E-15 | 1.71916E-09 | 1.84536E-09 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Sour Tanks (4-T) | |

| Mass Flow | Flashing lb/h | R10 from AGI 2 Amine lb/h | | Standing lb/h | To Flare (EP-13) lb/h | To Sour Tanks lb/h |
|---|---|---|---|---|---|---|
| trans-1,3-Dimethylcyclopentane | 2.00073E-09 | 2.60771E-08 | * | 1.9127E-15 | 2.00074E-09 | 2.19186E-09 |
| 2,2,4-Trimethylpentane | 1.41465E-11 | 1.69871E-10 | * | 1.01002E-18 | 1.41465E-11 | 1.42782E-11 |
| 2-Methylheptane | 5.66999E-12 | 6.75683E-11 | * | 2.99626E-20 | 5.66999E-12 | 5.67933E-12 |
| cis-1,2-Dimethylcyclohexane | 1.19641E-10 | 1.44916E-09 | * | 4.88012E-18 | 1.19641E-10 | 1.21807E-10 |
| m-Xylene | 5.37843E-06 | 0.00023893 | * | 1.9018E-11 | 5.37857E-06 | 2.00828E-05 |
| p-Xylene | 5.36332E-06 | 0.00025306 | * | 2.19814E-11 | 5.36349E-06 | 2.12705E-05 |
| Ethylcyclohexane | 1.45669E-09 | 1.89335E-08 | * | 2.68954E-16 | 1.45669E-09 | 1.59142E-09 |
| Water | 0.0609945 | 39524.6 | * | 0.0123221 | 0.152359 | 3322.17 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.000187997 | 46.6197 | * | 4.41118E-09 | 0.000188029 | 3.91853 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

## Stream Properties

| Property | Units | Flashing | R10 from AGI 2 Amine | | Standing | To Flare (EP-13) | To Sour Tanks |
|---|---|---|---|---|---|---|---|
| Temperature | °F | 80 | 119.999 | * | 80 | 80.0001 | 119.999 |
| Pressure | psia | 12.76 | 26.6959 | * | 12.76 | 12.76 | 26.6959 |
| Molecular Weight | lb/lbmol | 40.2323 | 18.0562 | | 28.1423 | 39.0684 | 18.0562 |
| Mass Density | lb/ft^3 | 0.0891034 | 51.3089 | | 0.137232 | 0.0913245 | 51.3089 |
| Mass Flow | lb/h | 3.39575 | 39663.5 | | 0.034126 | 3.64878 | 3333.84 |
| Std Vapor Volumetric Flow | MMSCFD | 0.000768715 | 20.0064 | | 1.10441E-05 | 0.000850604 | 1.6816 |
| Std Liquid Volumetric Flow | sgpm | 0.00832527 | 79.3296 | * | 7.8254E-05 | 0.0089055 | 6.6679 |
| Specific Gravity | | 1.38912 | | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 177.83 | 51.2423 | | 105.705 | 170.887 | 51.2423 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

## Connections

| | To 4-LOAD | Working | 5 | | |
|---|---|---|---|---|---|
| From Block | Sour Tanks (4-T) | Sour Tanks (4-T) | Sour Tanks (4-T) | | |
| To Block | -- | MIX-101 | -- | | |

## Stream Composition

| Mole Fraction | To 4-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| H2S | 0.0336947 | 12.1367 | 28.2492 | | |
| Carbon Dioxide | 0.02634 | 31.4577 | 67.5398 | | |
| Nitrogen | 1.31906E-10 | 8.02412E-08 | 1.37625E-05 | | |
| Methane | 2.47631E-07 | 0.000205914 | 0.0125603 | | |
| Ethane | 1.19073E-07 | 8.46806E-05 | 0.00410505 | | |
| Propane | 2.33885E-08 | 4.04468E-06 | 0.00113952 | | |
| Isobutane | 9.66932E-10 | 5.97993E-08 | 6.87496E-05 | | |
| n-Butane | 8.41773E-09 | 3.54181E-07 | 0.000442103 | | |
| Isopentane | 1.22124E-10 | 1.97835E-09 | 9.20029E-06 | | |
| n-Pentane | 7.25712E-11 | 8.75032E-10 | 1.28702E-05 | | |
| Hexane | 2.04683E-12 | 7.3093E-12 | 5.41874E-07 | | |
| n-Heptane | 5.004E-14 | 5.40529E-14 | 1.8158E-08 | | |
| n-Octane | 4.37043E-15 | 1.33895E-15 | 2.00718E-11 | | |
| Methylcyclopentane | 8.3279E-11 | 2.70027E-10 | 2.75808E-06 | | |
| Benzene | 6.86848E-06 | 1.5452E-05 | 0.00265963 | | |
| Cyclohexane | 6.4846E-10 | 1.49359E-09 | 9.3349E-06 | | |
| Methylcyclohexane | 2.37003E-12 | 2.59499E-12 | 7.94206E-08 | | |
| Toluene | 8.6774E-07 | 5.8415E-07 | 0.000438141 | | |
| 2,2-Dimethylpropane | 6.15559E-13 | 1.86085E-11 | 7.00406E-08 | | |
| 2-Methylpentane | 5.34619E-13 | 2.66737E-12 | 2.38458E-07 | | |
| 3-Methylpentane | 7.52144E-13 | 3.35641E-12 | 1.42498E-07 | | |
| 2,3-Dimethylbutane | 2.01845E-13 | 1.11807E-12 | 4.25003E-08 | | |
| 1,1-Dimethylcyclopentane | 3.01822E-12 | 5.39575E-12 | 9.80799E-08 | | |
| 2,3-Dimethylpentane | 3.85565E-15 | 6.27242E-15 | 8.57362E-12 | | |
| 2-Methylhexane | 1.40892E-15 | 2.19476E-15 | 5.18043E-12 | | |
| cis-1,3-Dimethylcyclopentane | 6.96493E-13 | 1.08756E-12 | 2.16537E-08 | | |
| trans-1,3-Dimethylcyclopentane | 1.05476E-12 | 1.60647E-12 | 2.51999E-08 | | |
| 2,2,4-Trimethylpentane | 6.24968E-16 | 7.29175E-16 | 4.51231E-12 | | |
| 2-Methylheptane | 4.43012E-17 | 2.16312E-17 | 2.44849E-13 | | |
| cis-1,2-Dimethylcyclohexane | 1.04583E-14 | 3.58644E-15 | 1.4007E-11 | | |
| m-Xylene | 7.5052E-08 | 1.47726E-08 | 6.26428E-05 | | |
| p-Xylene | 8.11911E-08 | 1.70746E-08 | 6.24662E-05 | | |
| Ethylcyclohexane | 6.50646E-13 | 1.97657E-13 | 1.60525E-08 | | |
| Water | 99.9221 | 56.4053 | 4.18747 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 0.0178183 | 3.05275E-06 | 0.00194939 | | |
| Piperazine | 0 | 0 | 0 | | |

| Mass Fraction | To 4-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| H2S | 0.0636358 | 14.6978 | 24 | | |
| Carbon Dioxide | 0.064238 | 49.1941 | 74.097 | | |
| Nitrogen | 2.04767E-10 | 7.98736E-08 | 9.61079E-06 | | |
| Methane | 2.20143E-07 | 0.000117381 | 0.00502301 | | |
| Ethane | 1.98409E-07 | 9.04781E-05 | 0.00307704 | | |
| Propane | 5.71514E-08 | 6.33752E-06 | 0.0012526 | | |
| Isobutane | 3.11435E-09 | 1.23503E-07 | 9.96108E-05 | | |
| n-Butane | 2.71123E-08 | 7.31488E-07 | 0.000640559 | | |
| Isopentane | 4.88268E-10 | 5.07193E-09 | 1.65472E-05 | | |
| n-Pentane | 2.9015E-10 | 2.24333E-09 | 2.31477E-05 | | |
| Hexane | 9.77452E-12 | 2.2382E-11 | 1.16406E-06 | | |
| n-Heptane | 2.77858E-13 | 1.92458E-13 | 4.53565E-08 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

| Mass Fraction | To 4-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| n-Octane | 2.76648E-14 | 5.43475E-15 | 5.71551E-11 | | |
| Methylcyclopentane | 3.8839E-10 | 8.07516E-10 | 5.78633E-06 | | |
| Benzene | 2.97308E-05 | 4.28887E-05 | 0.00517884 | | |
| Cyclohexane | 3.02423E-09 | 4.46656E-09 | 1.95843E-05 | | |
| Methylcyclohexane | 1.28953E-11 | 9.05368E-12 | 1.94392E-07 | | |
| Toluene | 4.43057E-06 | 1.91252E-06 | 0.00100635 | | |
| 2,2-Dimethylpropane | 2.46109E-12 | 4.77067E-11 | 1.25972E-07 | | |
| 2-Methylpentane | 2.55304E-12 | 8.16782E-12 | 5.12258E-07 | | |
| 3-Methylpentane | 3.59181E-12 | 1.02778E-11 | 3.06116E-07 | | |
| 2,3-Dimethylbutane | 9.63897E-13 | 3.42366E-12 | 9.12998E-08 | | |
| 1,1-Dimethylcyclopentane | 1.64222E-11 | 1.88253E-11 | 2.40062E-07 | | |
| 2,3-Dimethylpentane | 2.14094E-14 | 2.23332E-14 | 2.14158E-11 | | |
| 2-Methylhexane | 7.82336E-15 | 7.81452E-15 | 1.29401E-11 | | |
| cis-1,3-Dimethylcyclopentane | 3.78962E-12 | 3.79439E-12 | 5.30001E-08 | | |
| trans-1,3-Dimethylcyclopentane | 5.73894E-12 | 5.60484E-12 | 6.16799E-08 | | |
| 2,2,4-Trimethylpentane | 3.95605E-15 | 2.95969E-15 | 1.2849E-11 | | |
| 2-Methylheptane | 2.80427E-16 | 8.78001E-17 | 6.97215E-13 | | |
| cis-1,2-Dimethylcyclohexane | 6.50326E-14 | 1.43003E-14 | 3.91814E-11 | | |
| m-Xylene | 4.41543E-07 | 5.57288E-08 | 0.000165786 | | |
| p-Xylene | 4.7766E-07 | 6.44127E-08 | 0.000165318 | | |
| Ethylcyclohexane | 4.04591E-12 | 7.88121E-13 | 4.49034E-08 | | |
| Water | 99.7544 | 36.1078 | 1.88056 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 0.117661 | 1.29262E-05 | 0.00579072 | | |
| Piperazine | 0 | 0 | 0 | | |

| Mass Flow | To 4-LOAD lb/h | Working lb/h | 5 lb/h | | |
|---|---|---|---|---|---|
| H2S | 2.11919 | 0.0321746 | 0.0385044 | | |
| Carbon Dioxide | 2.13925 | 0.107689 | 0.118878 | | |
| Nitrogen | 6.81912E-09 | 1.74849E-10 | 1.54191E-08 | | |
| Methane | 7.3312E-06 | 2.56955E-07 | 8.05867E-06 | | |
| Ethane | 6.6074E-06 | 1.98063E-07 | 4.93665E-06 | | |
| Propane | 1.90325E-06 | 1.38733E-08 | 2.00961E-06 | | |
| Isobutane | 1.03714E-07 | 2.70357E-10 | 1.59811E-07 | | |
| n-Butane | 9.02892E-07 | 1.60128E-09 | 1.02768E-06 | | |
| Isopentane | 1.62603E-08 | 1.11028E-11 | 2.65475E-08 | | |
| n-Pentane | 9.66255E-09 | 4.91081E-12 | 3.7137E-08 | | |
| Hexane | 3.2551E-10 | 4.89958E-14 | 1.86756E-09 | | |
| n-Heptane | 9.25321E-12 | 4.21304E-16 | 7.27677E-11 | | |
| n-Octane | 9.21292E-13 | 1.18971E-17 | 9.16968E-14 | | |
| Methylcyclopentane | 1.29341E-08 | 1.76771E-12 | 9.28331E-09 | | |
| Benzene | 0.000990093 | 9.38864E-08 | 8.30868E-06 | | |
| Cyclohexane | 1.00713E-07 | 9.77763E-12 | 3.142E-08 | | |
| Methylcyclohexane | 4.29439E-10 | 1.98192E-14 | 3.11872E-10 | | |
| Toluene | 0.000147547 | 4.18664E-09 | 1.61454E-06 | | |
| 2,2-Dimethylpropane | 8.19591E-11 | 1.04433E-13 | 2.02103E-10 | | |
| 2-Methylpentane | 8.5021E-11 | 1.78799E-14 | 8.21842E-10 | | |
| 3-Methylpentane | 1.19614E-10 | 2.24987E-14 | 4.91117E-10 | | |
| 2,3-Dimethylbutane | 3.20996E-11 | 7.49464E-15 | 1.46477E-10 | | |
| 1,1-Dimethylcyclopentane | 5.46889E-10 | 4.12099E-14 | 3.85144E-10 | | |
| 2,3-Dimethylpentane | 7.12973E-13 | 4.8889E-17 | 3.43585E-14 | | |
| 2-Methylhexane | 2.60533E-13 | 1.71065E-17 | 2.07604E-14 | | |
| cis-1,3-Dimethylcyclopentane | 1.26202E-10 | 8.30619E-15 | 8.50307E-11 | | |
| trans-1,3-Dimethylcyclopentane | 1.91118E-10 | 1.22694E-14 | 9.89562E-11 | | |
| 2,2,4-Trimethylpentane | 1.31744E-13 | 6.47898E-18 | 2.06142E-14 | | |
| 2-Methylheptane | 9.33875E-15 | 1.92201E-19 | 1.11858E-15 | | |
| cis-1,2-Dimethylcyclohexane | 2.16571E-12 | 3.13044E-17 | 6.28607E-14 | | |
| m-Xylene | 1.47042E-05 | 1.21994E-10 | 2.65978E-07 | | |
| p-Xylene | 1.5907E-05 | 1.41004E-10 | 2.65228E-07 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Sour Tanks (4-T) | |

| Mass Flow | To 4-LOAD lb/h | Working lb/h | 5 lb/h | | |
|---|---|---|---|---|---|
| Ethylcyclohexane | 1.34736E-10 | 1.72525E-15 | 7.20409E-11 | | |
| Water | 3322.01 | 0.0790425 | 0.00301708 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 3.91834 | 2.82963E-08 | 9.29034E-06 | | |
| Piperazine | 0 | 0 | 0 | | |

## Stream Properties

| Property | Units | To 4-LOAD | Working | 5 | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 80 | 80 | 80 | | |
| Pressure | psia | 12.76 | 12.76 | 12.76 | | |
| Molecular Weight | lb/lbmol | 18.0456 | 28.1423 | 40.1149 | | |
| Mass Density | lb/ft^3 | 62.1939 | 0.137232 | 0.0890078 | | |
| Mass Flow | lb/h | 3330.19 | 0.218907 | 0.160435 | | |
| Std Vapor Volumetric Flow | MMSCFD | 1.68075 | 7.08443E-05 | 3.64249E-05 | | |
| Std Liquid Volumetric Flow | sgpm | 6.659 | 0.000501974 | 0.000393336 | | |
| Specific Gravity | | 0.997196 | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 51.1817 | 105.705 | 182.53 | | |

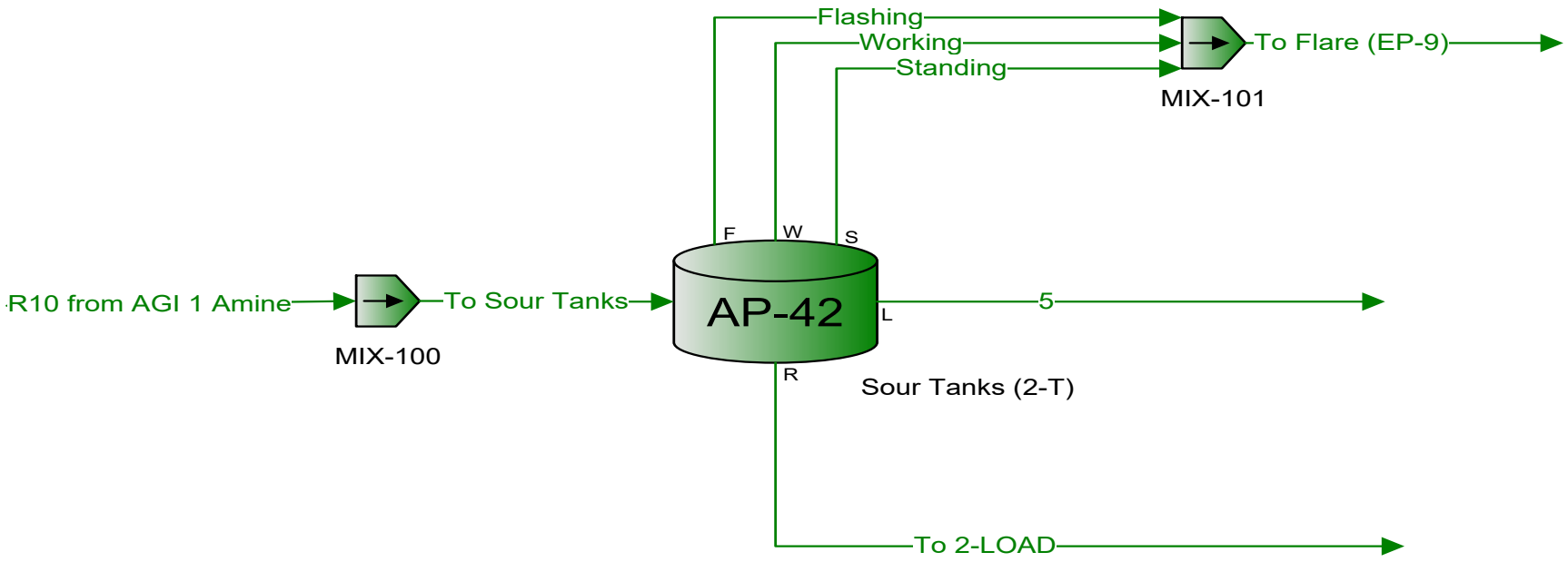
**Remarks**


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# Sour Tanks (2-T)
## Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Sour Tanks (2-T) | |

## Targa Northern Delaware, LLC – Red Hills Gas Processing Plant





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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

## Connections

| | Flashing | R10 from AGI 1 Amine | Standing | To Flare (EP-9) | To Sour Tanks |
|---|---|---|---|---|---|
| From Block | Sour Tanks (2-T) | -- | Sour Tanks (2-T) | MIX-101 | MIX-100 |
| To Block | MIX-101 | MIX-100 | MIX-101 | -- | Sour Tanks (2-T) |

## Stream Composition

| Mole Fraction | Flashing % | R10 from AGI 1 Amine % | | Standing % | To Flare (EP-9) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| H2S | 19.6383 | 0.0416511 | * | 8.71595 | 18.9936 | 0.0416511 |
| Carbon Dioxide | 76.331 | 0.0970782 | * | 35.2277 | 73.9045 | 0.0970782 |
| Nitrogen | 8.34266E-06 | 7.26561E-09 | * | 4.93316E-08 | 7.85307E-06 | 7.26561E-09 |
| Methane | 0.00925979 | 8.16235E-06 | * | 0.000152003 | 0.00872212 | 8.16235E-06 |
| Ethane | 0.00327059 | 2.91505E-06 | * | 6.81179E-05 | 0.00308153 | 2.91505E-06 |
| Propane | 0.00091797 | 8.10085E-07 | * | 3.38871E-06 | 0.000863979 | 8.10085E-07 |
| Isobutane | 5.84148E-05 | 5.11604E-08 | * | 5.36581E-08 | 5.49695E-05 | 5.11604E-08 |
| n-Butane | 0.000358666 | 3.16053E-07 | * | 3.04945E-07 | 0.000337511 | 3.16053E-07 |
| Isopentane | 6.79971E-06 | 5.9499E-09 | * | 1.55331E-09 | 6.39838E-06 | 5.9499E-09 |
| n-Pentane | 9.79695E-06 | 8.49544E-09 | * | 7.41419E-10 | 9.21864E-06 | 8.49544E-09 |
| Hexane | 4.70674E-07 | 4.0712E-10 | * | 6.90901E-12 | 4.42889E-07 | 4.0712E-10 |
| n-Heptane | 1.51498E-08 | 1.30874E-11 | * | 4.9255E-14 | 1.42555E-08 | 1.30874E-11 |
| n-Octane | 3.4381E-09 | 2.96431E-12 | * | 1.42022E-15 | 3.23513E-09 | 2.96431E-12 |
| Methylcyclopentane | 2.17624E-06 | 1.94395E-09 | * | 2.27595E-10 | 2.04778E-06 | 1.94395E-09 |
| Benzene | 0.00325161 | 1.18674E-05 | * | 2.02971E-05 | 0.00306085 | 1.18674E-05 |
| Cyclohexane | 8.26862E-06 | 7.73111E-09 | * | 1.40506E-09 | 7.78057E-06 | 7.73111E-09 |
| Methylcyclohexane | 6.62507E-08 | 5.91612E-11 | * | 2.32043E-12 | 6.23397E-08 | 5.91612E-11 |
| Toluene | 0.000531595 | 1.62261E-06 | * | 7.80322E-07 | 0.000500259 | 1.62261E-06 |
| 2,2-Dimethylpropane | 5.64659E-08 | 4.91344E-11 | * | 1.58065E-11 | 5.31335E-08 | 4.91344E-11 |
| 2-Methylpentane | 2.05893E-07 | 1.77755E-10 | * | 2.55167E-12 | 1.93738E-07 | 1.77755E-10 |
| 3-Methylpentane | 1.23472E-07 | 1.06994E-10 | * | 3.12727E-12 | 1.16183E-07 | 1.06994E-10 |
| 2,3-Dimethylbutane | 3.67842E-08 | 3.18545E-11 | * | 1.04233E-12 | 3.46128E-08 | 3.18545E-11 |
| 1,1-Dimethylcyclopentane | 7.74453E-08 | 6.92146E-11 | * | 4.52953E-12 | 7.28736E-08 | 6.92146E-11 |
| 2,3-Dimethylpentane | 4.13791E-10 | 3.59639E-13 | * | 5.5534E-15 | 3.89364E-10 | 3.59639E-13 |
| 2-Methylhexane | 8.82858E-10 | 7.61324E-13 | * | 2.05339E-15 | 8.30739E-10 | 7.61324E-13 |
| cis-1,3-Dimethylcyclopentane | 1.71754E-08 | 1.53754E-11 | * | 9.1678E-13 | 1.61615E-08 | 1.53754E-11 |
| trans-1,3-Dimethylcyclopentane | 1.96829E-08 | 1.78203E-11 | * | 1.32824E-12 | 1.8521E-08 | 1.78203E-11 |
| 2,2,4-Trimethylpentane | 1.7309E-10 | 1.49748E-13 | * | 8.65385E-16 | 1.62872E-10 | 1.49748E-13 |
| 2-Methylheptane | 5.8116E-11 | 5.00769E-14 | * | 2.34855E-17 | 5.46852E-11 | 5.00769E-14 |
| cis-1,2-Dimethylcyclohexane | 1.17945E-09 | 1.02544E-12 | * | 3.45506E-15 | 1.10982E-09 | 1.02544E-12 |
| m-Xylene | 6.40961E-05 | 1.46432E-07 | * | 1.78723E-08 | 6.03133E-05 | 1.46432E-07 |
| p-Xylene | 6.54915E-05 | 1.55164E-07 | * | 2.06711E-08 | 6.16265E-05 | 1.55164E-07 |
| Ethylcyclohexane | 1.47776E-08 | 1.33521E-11 | * | 1.90717E-13 | 1.39052E-08 | 1.33521E-11 |
| Water | 4.01093 | 99.807 | * | 56.0561 | 7.08338 | 99.807 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.00187312 | 0.0542916 | * | 9.25499E-06 | 0.00176309 | 0.0542916 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

| Mass Fraction | Flashing % | R10 from AGI 1 Amine % | | Standing % | To Flare (EP-9) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| H2S | 16.3175 | 0.0784165 | * | 10.3962 | 16.0695 | 0.0784165 |
| Carbon Dioxide | 81.9001 | 0.236014 | * | 54.2599 | 80.7427 | 0.236014 |
| Nitrogen | 5.6978E-06 | 1.12437E-08 | * | 4.83659E-08 | 5.46123E-06 | 1.12437E-08 |
| Methane | 0.00362167 | 7.23363E-06 | * | 8.53434E-05 | 0.00347359 | 7.23363E-06 |
| Ethane | 0.00239763 | 4.84212E-06 | * | 7.16851E-05 | 0.00230023 | 4.84212E-06 |
| Propane | 0.000986872 | 1.97331E-06 | * | 5.22971E-06 | 0.000945767 | 1.97331E-06 |
| Isobutane | 8.27755E-05 | 1.64265E-07 | * | 1.0915E-07 | 7.93139E-05 | 1.64265E-07 |
| n-Butane | 0.00050824 | 1.01478E-06 | * | 6.20313E-07 | 0.000486985 | 1.01478E-06 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

| Mass Fraction | Flashing % | R10 from AGI 1 Amine % | | Standing % | To Flare (EP-9) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| Isopentane | 1.19607E-05 | 2.37142E-08 | * | 3.92226E-09 | 1.146E-05 | 2.37142E-08 |
| n-Pentane | 1.72328E-05 | 3.38598E-08 | * | 1.87215E-09 | 1.65113E-05 | 3.38598E-08 |
| Hexane | 9.88872E-07 | 1.9381E-09 | * | 2.08376E-11 | 9.47466E-07 | 1.9381E-09 |
| n-Heptane | 3.70101E-08 | 7.24435E-11 | * | 1.72733E-13 | 3.54604E-08 | 7.24435E-11 |
| n-Octane | 9.57479E-09 | 1.87055E-11 | * | 5.67777E-15 | 9.17386E-09 | 1.87055E-11 |
| Methylcyclopentane | 4.46526E-06 | 9.03771E-09 | * | 6.70369E-10 | 4.27831E-06 | 9.03771E-09 |
| Benzene | 0.0061923 | 5.12086E-05 | * | 5.54879E-05 | 0.00593533 | 5.12086E-05 |
| Cyclohexane | 1.69657E-05 | 3.59431E-08 | * | 4.13853E-09 | 1.62555E-05 | 3.59431E-08 |
| Methylcyclohexane | 1.5859E-07 | 3.20891E-10 | * | 7.97381E-12 | 1.5195E-07 | 3.20891E-10 |
| Toluene | 0.00119415 | 8.25895E-06 | * | 2.5163E-06 | 0.00114425 | 8.25895E-06 |
| 2,2-Dimethylpropane | 9.93236E-08 | 1.95833E-10 | * | 3.99128E-11 | 9.51662E-08 | 1.95833E-10 |
| 2-Methylpentane | 4.32575E-07 | 8.46204E-10 | * | 7.69582E-12 | 4.14462E-07 | 8.46204E-10 |
| 3-Methylpentane | 2.59411E-07 | 5.09346E-10 | * | 9.43184E-12 | 2.48549E-07 | 5.09346E-10 |
| 2,3-Dimethylbutane | 7.72826E-08 | 1.51644E-10 | * | 3.14367E-12 | 7.40466E-08 | 1.51644E-10 |
| 1,1-Dimethylcyclopentane | 1.85388E-07 | 3.7542E-10 | * | 1.55651E-11 | 1.77626E-07 | 3.7542E-10 |
| 2,3-Dimethylpentane | 1.01087E-09 | 1.99073E-12 | * | 1.94752E-14 | 9.68539E-10 | 1.99073E-12 |
| 2-Methylhexane | 2.15677E-09 | 4.21421E-12 | * | 7.20103E-15 | 2.06646E-09 | 4.21421E-12 |
| cis-1,3-Dimethylcyclopentane | 4.11144E-08 | 8.33962E-11 | * | 3.15038E-12 | 3.93929E-08 | 8.33962E-11 |
| trans-1,3-Dimethylcyclopentane | 4.71167E-08 | 9.66574E-11 | * | 4.56432E-12 | 4.51439E-08 | 9.66574E-11 |
| 2,2,4-Trimethylpentane | 4.82039E-10 | 9.44943E-13 | * | 3.45965E-15 | 4.61855E-10 | 9.44943E-13 |
| 2-Methylheptane | 1.61848E-10 | 3.15996E-13 | * | 9.38908E-17 | 1.55071E-10 | 3.15996E-13 |
| cis-1,2-Dimethylcyclohexane | 3.22668E-09 | 6.35656E-12 | * | 1.35689E-14 | 3.09157E-09 | 6.35656E-12 |
| m-Xylene | 0.000165901 | 8.58791E-07 | * | 6.64064E-08 | 0.000158957 | 8.58791E-07 |
| p-Xylene | 0.000169513 | 9.10002E-07 | * | 7.68057E-08 | 0.000162418 | 9.10002E-07 |
| Ethylcyclohexane | 4.0428E-08 | 8.27678E-11 | * | 7.48996E-13 | 3.87352E-08 | 8.27678E-11 |
| Water | 1.76166 | 99.3281 | * | 35.3437 | 3.16787 | 99.3281 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.00544177 | 0.357389 | * | 3.85978E-05 | 0.00521552 | 0.357389 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

| Mass Flow | Flashing lb/h | R10 from AGI 1 Amine lb/h | | Standing lb/h | To Flare (EP-9) lb/h | To Sour Tanks lb/h |
|---|---|---|---|---|---|---|
| H2S | 0.606993 | 5.04369 | * | 0.00362039 | 0.623895 | 1.49549 |
| Carbon Dioxide | 3.0466 | 15.1803 | * | 0.0188956 | 3.13481 | 4.50105 |
| Nitrogen | 2.11952E-07 | 7.23184E-07 | * | 1.68431E-11 | 2.12031E-07 | 2.14429E-07 |
| Methane | 0.000134722 | 0.000465261 | * | 2.97202E-08 | 0.000134861 | 0.000137953 |
| Ethane | 8.91894E-05 | 0.000311441 | * | 2.49638E-08 | 8.93059E-05 | 9.23445E-05 |
| Propane | 3.67107E-05 | 0.000126922 | * | 1.82121E-09 | 3.67192E-05 | 3.76332E-05 |
| Isobutane | 3.07916E-06 | 1.05654E-05 | * | 3.80109E-11 | 3.07934E-06 | 3.13272E-06 |
| n-Butane | 1.8906E-05 | 6.52699E-05 | * | 2.1602E-10 | 1.8907E-05 | 1.9353E-05 |
| Isopentane | 4.44925E-07 | 1.52528E-06 | * | 1.3659E-12 | 4.44932E-07 | 4.52256E-07 |
| n-Pentane | 6.41044E-07 | 2.17784E-06 | * | 6.51963E-13 | 6.41047E-07 | 6.45744E-07 |
| Hexane | 3.67851E-08 | 1.24657E-07 | * | 7.25653E-15 | 3.67851E-08 | 3.69616E-08 |
| n-Heptane | 1.37674E-09 | 4.65951E-09 | * | 6.01529E-17 | 1.37674E-09 | 1.38158E-09 |
| n-Octane | 3.56173E-10 | 1.20312E-09 | * | 1.97724E-18 | 3.56173E-10 | 3.56733E-10 |
| Methylcyclopentane | 1.66103E-07 | 5.81298E-07 | * | 2.33451E-13 | 1.66104E-07 | 1.72359E-07 |
| Benzene | 0.000230347 | 0.00329369 | * | 1.93233E-08 | 0.000230437 | 0.000976603 |
| Cyclohexane | 6.31109E-07 | 2.31183E-06 | * | 1.44121E-12 | 6.31116E-07 | 6.85473E-07 |
| Methylcyclohexane | 5.8994E-09 | 2.06394E-08 | * | 2.77683E-15 | 5.89941E-09 | 6.11973E-09 |
| Toluene | 4.44211E-05 | 0.000531209 | * | 8.76284E-10 | 4.44252E-05 | 0.000157507 |
| 2,2-Dimethylpropane | 3.69474E-09 | 1.25958E-08 | * | 1.38994E-14 | 3.6948E-09 | 3.73474E-09 |
| 2-Methylpentane | 1.60914E-08 | 5.44272E-08 | * | 2.68001E-15 | 1.60914E-08 | 1.6138E-08 |
| 3-Methylpentane | 9.64982E-09 | 3.27607E-08 | * | 3.28457E-15 | 9.64984E-09 | 9.71378E-09 |
| 2,3-Dimethylbutane | 2.87483E-09 | 9.7536E-09 | * | 1.09476E-15 | 2.87484E-09 | 2.89201E-09 |
| 1,1-Dimethylcyclopentane | 6.89625E-09 | 2.41467E-08 | * | 5.42042E-15 | 6.89627E-09 | 7.15967E-09 |
| 2,3-Dimethylpentane | 3.76032E-11 | 1.28042E-10 | * | 6.78212E-18 | 3.76033E-11 | 3.79654E-11 |
| 2-Methylhexane | 8.02296E-11 | 2.71054E-10 | * | 2.50771E-18 | 8.02296E-11 | 8.03695E-11 |
| cis-1,3-Dimethylcyclopentane | 1.52941E-09 | 5.36398E-09 | * | 1.0971E-15 | 1.52942E-09 | 1.59046E-09 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

| Mass Flow | Flashing lb/h | R10 from AGI 1 Amine lb/h | | Standing lb/h | To Flare (EP-9) lb/h | To Sour Tanks lb/h |
|---|---|---|---|---|---|---|
| trans-1,3-Dimethylcyclopentane | 1.75269E-09 | 6.21693E-09 | * | 1.58949E-15 | 1.7527E-09 | 1.84336E-09 |
| 2,2,4-Trimethylpentane | 1.79314E-11 | 6.0778E-11 | * | 1.2048E-18 | 1.79314E-11 | 1.80211E-11 |
| 2-Methylheptane | 6.02058E-12 | 2.03246E-11 | * | 3.26968E-20 | 6.02058E-12 | 6.02639E-12 |
| cis-1,2-Dimethylcyclohexane | 1.20029E-10 | 4.08849E-10 | * | 4.72528E-18 | 1.20029E-10 | 1.21227E-10 |
| m-Xylene | 6.17136E-06 | 5.52368E-05 | * | 2.31256E-11 | 6.17147E-06 | 1.63781E-05 |
| p-Xylene | 6.30572E-06 | 5.85306E-05 | * | 2.67471E-11 | 6.30584E-06 | 1.73547E-05 |
| Ethylcyclohexane | 1.50388E-09 | 5.32356E-09 | * | 2.60833E-16 | 1.50388E-09 | 1.57847E-09 |
| Water | 0.0655322 | 6388.71 | * | 0.0123082 | 0.122992 | 1894.29 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.000202428 | 22.987 | * | 1.34414E-08 | 0.000202491 | 6.8158 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

## Stream Properties

| Property | Units | Flashing | R10 from AGI 1 Amine | | Standing | To Flare (EP-9) | To Sour Tanks |
|---|---|---|---|---|---|---|---|
| Temperature | °F | 80 | 120.001 | * | 80 | 80 | 120.001 |
| Pressure | psia | 12.76 | 28.6959 | * | 12.76 | 12.76 | 28.6959 |
| Molecular Weight | lb/lbmol | 41.0169 | 18.1021 | | 28.5728 | 40.2823 | 18.1021 |
| Mass Density | lb/ft^3 | 0.0908309 | 42.5014 | | 0.138199 | 0.0921535 | 42.5014 |
| Mass Flow | lb/h | 3.7199 | 6431.92 | | 0.0348243 | 3.88247 | 1907.11 |
| Std Vapor Volumetric Flow | MMSCFD | 0.000825986 | 3.23605 | | 1.11003E-05 | 0.000877807 | 0.959512 |
| Std Liquid Volumetric Flow | sgpm | 0.00910564 | 12.8653 | * | 7.98903E-05 | 0.0094786 | 3.81465 |
| Specific Gravity | | 1.41621 | | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 127.548 | 52.5995 | | 83.7351 | 124.962 | 52.5995 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

## Connections

| | To 2-LOAD | Working | 5 | | |
|---|---|---|---|---|---|
| From Block | Sour Tanks (2-T) | Sour Tanks (2-T) | Sour Tanks (2-T) | | |
| To Block | -- | MIX-101 | -- | | |

## Stream Composition

| Mole Fraction | To 2-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| H2S | 0.0242971 | 8.71595 | 20.2789 | | |
| Carbon Dioxide | 0.0294938 | 35.2277 | 75.4804 | | |
| Nitrogen | 8.13264E-11 | 4.93316E-08 | 8.50626E-06 | | |
| Methane | 1.83114E-07 | 0.000152003 | 0.00933132 | | |
| Ethane | 9.60072E-08 | 6.81179E-05 | 0.00331604 | | |
| Propane | 1.96944E-08 | 3.38871E-06 | 0.000957415 | | |
| Isobutane | 8.72503E-10 | 5.36581E-08 | 6.12827E-05 | | |
| n-Butane | 7.28896E-09 | 3.04945E-07 | 0.000376667 | | |
| Isopentane | 9.64466E-11 | 1.55331E-09 | 7.15018E-06 | | |
| n-Pentane | 6.18506E-11 | 7.41419E-10 | 1.03051E-05 | | |
| Hexane | 1.94617E-12 | 6.90901E-12 | 4.9524E-07 | | |
| n-Heptane | 4.58683E-14 | 4.9255E-14 | 1.59409E-08 | | |
| n-Octane | 4.66316E-15 | 1.42022E-15 | 2.17191E-11 | | |
| Methylcyclopentane | 7.06074E-11 | 2.27595E-10 | 2.28974E-06 | | |
| Benzene | 9.07549E-06 | 2.02971E-05 | 0.0034208 | | |
| Cyclohexane | 6.13634E-10 | 1.40506E-09 | 8.69992E-06 | | |
| Methylcyclohexane | 2.13182E-12 | 2.32043E-12 | 6.97053E-08 | | |
| Toluene | 1.16602E-06 | 7.80322E-07 | 0.000559254 | | |
| 2,2-Dimethylpropane | 5.2589E-13 | 1.58065E-11 | 5.93335E-08 | | |
| 2-Methylpentane | 5.14447E-13 | 2.55167E-12 | 2.16641E-07 | | |
| 3-Methylpentane | 7.04934E-13 | 3.12727E-12 | 1.29909E-07 | | |
| 2,3-Dimethylbutane | 1.89283E-13 | 1.04233E-12 | 3.87006E-08 | | |
| 1,1-Dimethylcyclopentane | 2.54868E-12 | 4.52953E-12 | 8.14841E-08 | | |
| 2,3-Dimethylpentane | 3.43388E-15 | 5.5534E-15 | 7.73451E-12 | | |
| 2-Methylhexane | 1.32598E-15 | 2.05339E-15 | 4.93933E-12 | | |
| cis-1,3-Dimethylcyclopentane | 5.906E-13 | 9.1678E-13 | 1.80712E-08 | | |
| trans-1,3-Dimethylcyclopentane | 8.77244E-13 | 1.32824E-12 | 2.07089E-08 | | |
| 2,2,4-Trimethylpentane | 7.46104E-16 | 8.65385E-16 | 5.45801E-12 | | |
| 2-Methylheptane | 4.8384E-17 | 2.34855E-17 | 2.7116E-13 | | |
| cis-1,2-Dimethylcyclohexane | 1.01349E-14 | 3.45506E-15 | 1.3756E-11 | | |
| m-Xylene | 9.1338E-08 | 1.78723E-08 | 6.74294E-05 | | |
| p-Xylene | 9.88756E-08 | 2.06711E-08 | 6.88956E-05 | | |
| Ethylcyclohexane | 6.31523E-13 | 1.90717E-13 | 1.55459E-08 | | |
| Water | 99.8919 | 56.0561 | 4.22055 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 0.0543397 | 9.25499E-06 | 0.00196869 | | |
| Piperazine | 0 | 0 | 0 | | |

| Mass Fraction | To 2-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| H2S | 0.0457956 | 10.3962 | 16.8983 | | |
| Carbon Dioxide | 0.0717853 | 54.2599 | 81.221 | | |
| Nitrogen | 1.25995E-10 | 4.83659E-08 | 5.82629E-06 | | |
| Methane | 1.62461E-07 | 8.53434E-05 | 0.00366017 | | |
| Ethane | 1.59654E-07 | 7.16851E-05 | 0.00243796 | | |
| Propane | 4.80282E-08 | 5.22971E-06 | 0.00103225 | | |
| Isobutane | 2.80457E-09 | 1.0915E-07 | 8.70898E-05 | | |
| n-Butane | 2.34296E-08 | 6.20313E-07 | 0.000535287 | | |
| Isopentane | 3.84834E-10 | 3.92226E-09 | 1.26134E-05 | | |
| n-Pentane | 2.46792E-10 | 1.87215E-09 | 1.81789E-05 | | |
| Hexane | 9.27519E-12 | 2.08376E-11 | 1.04348E-06 | | |
| n-Heptane | 2.54183E-13 | 1.72733E-13 | 3.90549E-08 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

| Mass Fraction | To 2-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| n-Octane | 2.94586E-14 | 5.67777E-15 | 6.06601E-11 | | |
| Methylcyclopentane | 3.28633E-10 | 6.70369E-10 | 4.7117E-06 | | |
| Benzene | 3.92053E-05 | 5.54879E-05 | 0.0065333 | | |
| Cyclohexane | 2.85608E-09 | 4.13853E-09 | 1.79022E-05 | | |
| Methylcyclohexane | 1.1576E-11 | 7.97381E-12 | 1.67341E-07 | | |
| Toluene | 5.94159E-06 | 2.5163E-06 | 0.0012599 | | |
| 2,2-Dimethylpropane | 2.09837E-12 | 3.99128E-11 | 1.04669E-07 | | |
| 2-Methylpentane | 2.45178E-12 | 7.69582E-12 | 4.56468E-07 | | |
| 3-Methylpentane | 3.35962E-12 | 9.43184E-12 | 2.73721E-07 | | |
| 2,3-Dimethylbutane | 9.02094E-13 | 3.14367E-12 | 8.15432E-08 | | |
| 1,1-Dimethylcyclopentane | 1.38396E-11 | 1.55651E-11 | 1.95619E-07 | | |
| 2,3-Dimethylpentane | 1.90291E-14 | 1.94752E-14 | 1.89494E-11 | | |
| 2-Methylhexane | 7.34801E-15 | 7.20103E-15 | 1.21013E-11 | | |
| cis-1,3-Dimethylcyclopentane | 3.20701E-12 | 3.15038E-12 | 4.33834E-08 | | |
| trans-1,3-Dimethylcyclopentane | 4.76352E-12 | 4.56432E-12 | 4.97158E-08 | | |
| 2,2,4-Trimethylpentane | 4.71337E-15 | 3.45965E-15 | 1.52439E-11 | | |
| 2-Methylheptane | 3.05657E-16 | 9.38908E-17 | 7.57335E-13 | | |
| cis-1,2-Dimethylcyclohexane | 6.28952E-14 | 1.35689E-14 | 3.77417E-11 | | |
| m-Xylene | 5.36279E-07 | 6.64064E-08 | 0.000175032 | | |
| p-Xylene | 5.80535E-07 | 7.68057E-08 | 0.000178838 | | |
| Ethylcyclohexane | 3.91912E-12 | 7.48996E-13 | 4.26524E-08 | | |
| Water | 99.5243 | 35.3437 | 1.85908 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 0.358108 | 3.85978E-05 | 0.00573591 | | |
| Piperazine | 0 | 0 | 0 | | |

| Mass Flow | To 2-LOAD lb/h | Working lb/h | 5 lb/h | | |
|---|---|---|---|---|---|
| H2S | 0.871593 | 0.0132811 | 0.0158267 | | |
| Carbon Dioxide | 1.36624 | 0.0693168 | 0.0760707 | | |
| Nitrogen | 2.39798E-09 | 6.17872E-11 | 5.45684E-09 | | |
| Methane | 3.09201E-06 | 1.09026E-07 | 3.42808E-06 | | |
| Ethane | 3.03859E-06 | 9.15773E-08 | 2.28337E-06 | | |
| Propane | 9.14084E-07 | 6.68093E-09 | 9.66791E-07 | | |
| Isobutane | 5.33774E-08 | 1.39439E-10 | 8.15674E-08 | | |
| n-Butane | 4.45919E-07 | 7.92446E-10 | 5.01344E-07 | | |
| Isopentane | 7.32427E-09 | 5.01067E-12 | 1.18136E-08 | | |
| n-Pentane | 4.69701E-09 | 2.39166E-12 | 1.70262E-08 | | |
| Hexane | 1.76528E-10 | 2.66199E-14 | 9.77317E-10 | | |
| n-Heptane | 4.83768E-12 | 2.20665E-16 | 3.65784E-11 | | |
| n-Octane | 5.60664E-13 | 7.25332E-18 | 5.68136E-14 | | |
| Methylcyclopentane | 6.25463E-09 | 8.56393E-13 | 4.41293E-09 | | |
| Benzene | 0.000746165 | 7.08855E-08 | 6.11902E-06 | | |
| Cyclohexane | 5.43576E-08 | 5.28695E-12 | 1.6767E-08 | | |
| Methylcyclohexane | 2.20317E-10 | 1.01865E-14 | 1.5673E-10 | | |
| Toluene | 0.000113082 | 3.21456E-09 | 1.18001E-06 | | |
| 2,2-Dimethylpropane | 3.99367E-11 | 5.09884E-14 | 9.80315E-11 | | |
| 2-Methylpentane | 4.6663E-11 | 9.83137E-15 | 4.27523E-10 | | |
| 3-Methylpentane | 6.39411E-11 | 1.20491E-14 | 2.56365E-10 | | |
| 2,3-Dimethylbutane | 1.71689E-11 | 4.01602E-15 | 7.63725E-11 | | |
| 1,1-Dimethylcyclopentane | 2.63398E-10 | 1.98843E-14 | 1.83214E-10 | | |
| 2,3-Dimethylpentane | 3.62167E-13 | 2.48795E-17 | 1.77478E-14 | | |
| 2-Methylhexane | 1.39849E-13 | 9.19928E-18 | 1.13339E-14 | | |
| cis-1,3-Dimethylcyclopentane | 6.10367E-11 | 4.02459E-15 | 4.06324E-11 | | |
| trans-1,3-Dimethylcyclopentane | 9.06606E-11 | 5.83089E-15 | 4.65633E-11 | | |
| 2,2,4-Trimethylpentane | 8.97061E-14 | 4.41968E-18 | 1.42773E-14 | | |
| 2-Methylheptane | 5.81734E-15 | 1.19945E-19 | 7.09312E-16 | | |
| cis-1,2-Dimethylcyclohexane | 1.19704E-12 | 1.73342E-17 | 3.53485E-14 | | |
| m-Xylene | 1.02066E-05 | 8.48339E-11 | 1.63933E-07 | | |
| p-Xylene | 1.10489E-05 | 9.81189E-11 | 1.67498E-07 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

| Mass Flow | To 2-LOAD lb/h | Working lb/h | 5 lb/h | | |
|---|---|---|---|---|---|
| Ethylcyclohexane | 7.45898E-11 | 9.56839E-16 | 3.99478E-11 | | |
| Water | 1894.17 | 0.0451513 | 0.00174119 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 6.8156 | 4.93085E-08 | 5.3722E-06 | | |
| Piperazine | 0 | 0 | 0 | | |

## Stream Properties

| Property | Units | To 2-LOAD | Working | 5 | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 80 | 80 | 80 | | |
| Pressure | psia | 12.76 | 12.76 | 12.76 | | |
| Molecular Weight | lb/lbmol | 18.0818 | 28.5728 | 40.899 | | |
| Mass Density | lb/ft^3 | 62.2053 | 0.138199 | 0.0907687 | | |
| Mass Flow | lb/h | 1903.23 | 0.127749 | 0.093659 | | |
| Std Vapor Volumetric Flow | MMSCFD | 0.958635 | 4.07204E-05 | 2.08565E-05 | | |
| Std Liquid Volumetric Flow | sgpm | 3.80518 | 0.00029307 | 0.00022925 | | |
| Specific Gravity | | 0.99738 | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 52.5332 | 83.7351 | 131.75 | | |

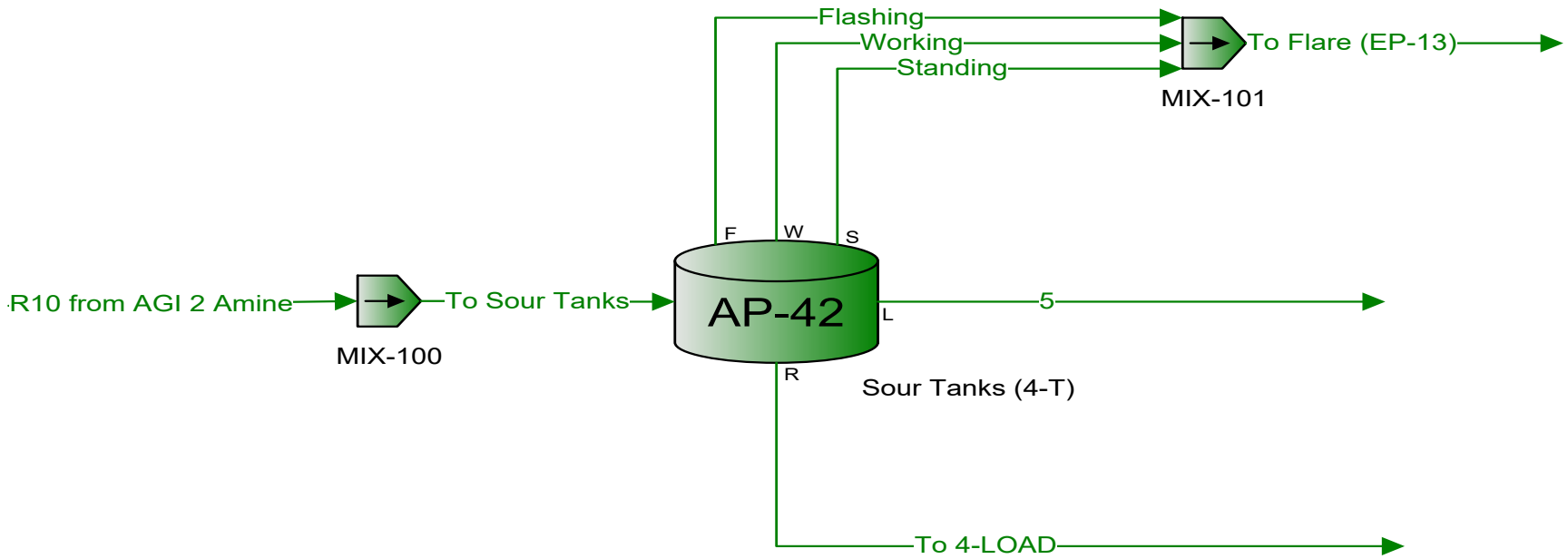
**Remarks**


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# Sour Tanks (4-T)
## Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Sour Tanks (4-T) | |

## Targa Northern Delaware, LLC – Red Hills Gas Processing Plant





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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

## Connections

| | Flashing | R10 from AGI 2 Amine | Standing | To Flare (EP-13) | To Sour Tanks |
|---|---|---|---|---|---|
| From Block | Sour Tanks (4-T) | -- | Sour Tanks (4-T) | MIX-101 | MIX-100 |
| To Block | MIX-101 | MIX-100 | MIX-101 | -- | Sour Tanks (4-T) |

## Stream Composition

| Mole Fraction | Flashing % | R10 from AGI 2 Amine % | | Standing % | To Flare (EP-13) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| H2S | 19.5885 | 0.0336122 | * | 8.62766 | 18.5585 | 0.0336122 |
| Carbon Dioxide | 76.3687 | 0.0670111 | * | 35.0567 | 72.4866 | 0.0670111 |
| Nitrogen | 1.50161E-05 | 7.21208E-09 | * | 8.86677E-08 | 1.36133E-05 | 7.21208E-09 |
| Methane | 0.0167715 | 8.23247E-06 | * | 0.000275465 | 0.0152214 | 8.23247E-06 |
| Ethane | 0.0060033 | 3.00497E-06 | * | 0.000124762 | 0.00545088 | 3.00497E-06 |
| Propane | 0.00170268 | 8.37215E-07 | * | 6.24723E-06 | 0.00154327 | 8.37215E-07 |
| Isobutane | 0.000108757 | 5.27438E-08 | * | 9.83724E-08 | 9.85459E-05 | 5.27438E-08 |
| n-Butane | 0.000671347 | 3.29076E-07 | * | 5.60024E-07 | 0.000608312 | 3.29076E-07 |
| Isopentane | 1.33123E-05 | 6.44509E-09 | * | 2.98348E-09 | 1.20616E-05 | 6.44509E-09 |
| n-Pentane | 1.90861E-05 | 9.08875E-09 | * | 1.35836E-09 | 1.72927E-05 | 9.08875E-09 |
| Hexane | 9.32796E-07 | 4.42365E-10 | * | 1.31437E-11 | 8.45141E-07 | 4.42365E-10 |
| n-Heptane | 3.04924E-08 | 1.4428E-11 | * | 9.4827E-14 | 2.7627E-08 | 1.4428E-11 |
| n-Octane | 6.81407E-09 | 3.21318E-12 | * | 2.64113E-15 | 6.17374E-09 | 3.21318E-12 |
| Methylcyclopentane | 4.10229E-06 | 2.05862E-09 | * | 4.18963E-10 | 3.71683E-06 | 2.05862E-09 |
| Benzene | 0.00378936 | 1.20116E-05 | * | 2.29853E-05 | 0.00343542 | 1.20116E-05 |
| Cyclohexane | 1.46455E-05 | 7.94969E-09 | * | 2.44337E-09 | 1.32695E-05 | 7.94969E-09 |
| Methylcyclohexane | 1.24947E-07 | 6.26551E-11 | * | 4.25907E-12 | 1.13206E-07 | 6.26551E-11 |
| Toluene | 0.000656708 | 1.67101E-06 | * | 9.15944E-07 | 0.000595082 | 1.67101E-06 |
| 2,2-Dimethylpropane | 1.08332E-07 | 5.19404E-11 | * | 2.99582E-11 | 9.81546E-08 | 5.19404E-11 |
| 2-Methylpentane | 4.09129E-07 | 1.93368E-10 | * | 4.78843E-12 | 3.70683E-07 | 1.93368E-10 |
| 3-Methylpentane | 2.44613E-07 | 1.16387E-10 | * | 6.01241E-12 | 2.21627E-07 | 1.16387E-10 |
| 2,3-Dimethylbutane | 7.28266E-08 | 3.46107E-11 | * | 1.99953E-12 | 6.59831E-08 | 3.46107E-11 |
| 1,1-Dimethylcyclopentane | 1.49243E-07 | 7.49805E-11 | * | 8.56013E-12 | 1.35219E-07 | 7.49805E-11 |
| 2,3-Dimethylpentane | 8.29674E-10 | 3.96914E-13 | * | 1.09372E-14 | 7.51709E-10 | 3.96914E-13 |
| 2-Methylhexane | 1.78075E-09 | 8.39933E-13 | * | 3.85077E-15 | 1.61341E-09 | 8.39933E-13 |
| cis-1,3-Dimethylcyclopentane | 3.29805E-08 | 1.66175E-11 | * | 1.72694E-12 | 2.98814E-08 | 1.66175E-11 |
| trans-1,3-Dimethylcyclopentane | 3.76319E-08 | 1.93412E-11 | * | 2.50021E-12 | 3.40958E-08 | 1.93412E-11 |
| 2,2,4-Trimethylpentane | 3.24632E-10 | 1.5405E-13 | * | 1.60904E-15 | 2.94126E-10 | 1.5405E-13 |
| 2-Methylheptane | 1.15338E-10 | 5.4329E-14 | * | 4.26397E-17 | 1.04499E-10 | 5.4329E-14 |
| cis-1,2-Dimethylcyclohexane | 2.26588E-09 | 1.08438E-12 | * | 6.43009E-15 | 2.05295E-09 | 1.08438E-12 |
| m-Xylene | 8.90802E-05 | 1.54395E-07 | * | 2.21192E-08 | 8.07112E-05 | 1.54395E-07 |
| p-Xylene | 8.90351E-05 | 1.63577E-07 | * | 2.5566E-08 | 8.06707E-05 | 1.63577E-07 |
| Ethylcyclohexane | 2.74127E-08 | 1.40496E-11 | * | 3.51336E-13 | 2.48367E-08 | 1.40496E-11 |
| Water | 4.01093 | 99.8783 | * | 56.3152 | 8.92607 | 99.8783 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.00187314 | 0.0210527 | * | 3.60274E-06 | 0.00169745 | 0.0210527 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

| Mass Fraction | Flashing % | R10 from AGI 2 Amine % | | Standing % | To Flare (EP-13) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| H2S | 16.2749 | 0.0634314 | * | 10.312 | 15.8739 | 0.0634314 |
| Carbon Dioxide | 81.9349 | 0.163301 | * | 54.1075 | 80.0635 | 0.163301 |
| Nitrogen | 1.02549E-05 | 1.11872E-08 | * | 8.71107E-08 | 9.57109E-06 | 1.11872E-08 |
| Methane | 0.0065592 | 7.31304E-06 | * | 0.000154981 | 0.00612852 | 7.31304E-06 |
| Ethane | 0.00440065 | 5.0033E-06 | * | 0.000131565 | 0.00411355 | 5.0033E-06 |
| Propane | 0.00183036 | 2.04423E-06 | * | 9.66103E-06 | 0.00170792 | 2.04423E-06 |
| Isobutane | 0.000154101 | 1.6975E-07 | * | 2.00519E-07 | 0.000143751 | 1.6975E-07 |
| n-Butane | 0.000951253 | 1.05909E-06 | * | 1.14153E-06 | 0.000887358 | 1.05909E-06 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

| Mass Fraction | Flashing % | R10 from AGI 2 Amine % | | Standing % | To Flare (EP-13) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| Isopentane | 2.34147E-05 | 2.57487E-08 | * | 7.54906E-09 | 2.18406E-05 | 2.57487E-08 |
| n-Pentane | 3.35702E-05 | 3.63103E-08 | * | 3.43705E-09 | 3.13128E-05 | 3.63103E-08 |
| Hexane | 1.95964E-06 | 2.11087E-09 | * | 3.97228E-11 | 1.82786E-06 | 2.11087E-09 |
| n-Heptane | 7.44861E-08 | 8.00532E-11 | * | 3.33233E-13 | 6.94769E-08 | 8.00532E-11 |
| n-Octane | 1.89753E-08 | 2.03239E-11 | * | 1.05805E-14 | 1.76992E-08 | 2.03239E-11 |
| Methylcyclopentane | 8.4166E-06 | 9.59347E-09 | * | 1.23657E-09 | 7.85067E-06 | 9.59347E-09 |
| Benzene | 0.00721588 | 5.19534E-05 | * | 6.29662E-05 | 0.00673485 | 5.19534E-05 |
| Cyclohexane | 3.0048E-05 | 3.70467E-08 | * | 7.21161E-09 | 2.80278E-05 | 3.70467E-08 |
| Methylcyclohexane | 2.99077E-07 | 3.40646E-10 | * | 1.46658E-11 | 2.78965E-07 | 3.40646E-10 |
| Toluene | 0.00147509 | 8.52543E-06 | * | 2.95972E-06 | 0.00137609 | 8.52543E-06 |
| 2,2-Dimethylpropane | 1.90543E-07 | 2.07506E-10 | * | 7.58028E-11 | 1.77734E-07 | 2.07506E-10 |
| 2-Methylpentane | 8.59509E-07 | 9.22708E-10 | * | 1.44716E-11 | 8.01708E-07 | 9.22708E-10 |
| 3-Methylpentane | 5.1389E-07 | 5.55372E-10 | * | 1.81707E-11 | 4.79333E-07 | 5.55372E-10 |
| 2,3-Dimethylbutane | 1.52996E-07 | 1.65154E-10 | * | 6.043E-12 | 1.42708E-07 | 1.65154E-10 |
| 1,1-Dimethylcyclopentane | 3.57231E-07 | 4.07657E-10 | * | 2.94761E-11 | 3.3321E-07 | 4.07657E-10 |
| 2,3-Dimethylpentane | 2.02671E-09 | 2.20226E-12 | * | 3.84345E-14 | 1.89041E-09 | 2.20226E-12 |
| 2-Methylhexane | 4.34996E-09 | 4.66034E-12 | * | 1.35321E-14 | 4.05743E-09 | 4.66034E-12 |
| cis-1,3-Dimethylcyclopentane | 7.89431E-08 | 9.03467E-11 | * | 5.94658E-12 | 7.36346E-08 | 9.03467E-11 |
| trans-1,3-Dimethylcyclopentane | 9.00768E-08 | 1.05155E-10 | * | 8.60928E-12 | 8.40198E-08 | 1.05155E-10 |
| 2,2,4-Trimethylpentane | 9.04009E-10 | 9.7439E-13 | * | 6.44586E-15 | 8.43215E-10 | 9.7439E-13 |
| 2-Methylheptane | 3.21183E-10 | 3.43639E-13 | * | 1.70816E-16 | 2.99584E-10 | 3.43639E-13 |
| cis-1,2-Dimethylcyclohexane | 6.19849E-09 | 6.73783E-12 | * | 2.53046E-14 | 5.78164E-09 | 6.73783E-12 |
| m-Xylene | 0.000230552 | 9.07635E-07 | * | 8.2355E-08 | 0.000215053 | 9.07635E-07 |
| p-Xylene | 0.000230436 | 9.61613E-07 | * | 9.51886E-08 | 0.000214945 | 9.61613E-07 |
| Ethylcyclohexane | 7.49895E-08 | 8.72976E-11 | * | 1.38262E-12 | 6.99466E-08 | 8.72976E-11 |
| Water | 1.76154 | 99.6343 | * | 35.5801 | 4.03582 | 99.6343 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.00544146 | 0.138913 | * | 1.50561E-05 | 0.00507654 | 0.138913 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

| Mass Flow | Flashing lb/h | R10 from AGI 2 Amine lb/h | | Standing lb/h | To Flare (EP-13) lb/h | To Sour Tanks lb/h |
|---|---|---|---|---|---|---|
| H2S | 0.579633 | 13.0498 | * | 0.00356967 | 0.606112 | 2.11489 |
| Carbon Dioxide | 2.91812 | 33.5962 | * | 0.0187302 | 3.05705 | 5.44469 |
| Nitrogen | 3.65228E-07 | 2.30157E-06 | * | 3.01547E-11 | 3.65451E-07 | 3.72998E-07 |
| Methane | 0.000233606 | 0.00150452 | * | 5.3649E-08 | 0.000234004 | 0.000243827 |
| Ethane | 0.000156729 | 0.00102933 | * | 4.55435E-08 | 0.000157067 | 0.000166817 |
| Propane | 6.51883E-05 | 0.000420561 | * | 3.34432E-09 | 6.52131E-05 | 6.81573E-05 |
| Isobutane | 5.48831E-06 | 3.49229E-05 | * | 6.94129E-11 | 5.48883E-06 | 5.6597E-06 |
| n-Butane | 3.38789E-05 | 0.000217889 | * | 3.95161E-10 | 3.38819E-05 | 3.53117E-05 |
| Isopentane | 8.33917E-07 | 5.29731E-06 | * | 2.61323E-12 | 8.33937E-07 | 8.58496E-07 |
| n-Pentane | 1.1956E-06 | 7.47016E-06 | * | 1.18979E-12 | 1.19561E-06 | 1.21064E-06 |
| Hexane | 6.97928E-08 | 4.34271E-07 | * | 1.37507E-14 | 6.97929E-08 | 7.03791E-08 |
| n-Heptane | 2.65283E-09 | 1.64695E-08 | * | 1.15354E-16 | 2.65283E-09 | 2.66908E-09 |
| n-Octane | 6.75805E-10 | 4.18125E-09 | * | 3.66259E-18 | 6.75805E-10 | 6.77625E-10 |
| Methylcyclopentane | 2.99758E-07 | 1.97368E-06 | * | 4.28059E-13 | 2.99761E-07 | 3.1986E-07 |
| Benzene | 0.000256994 | 0.0106885 | * | 2.17968E-08 | 0.000257156 | 0.0017322 |
| Cyclohexane | 1.07016E-06 | 7.62167E-06 | * | 2.49641E-12 | 1.07018E-06 | 1.23519E-06 |
| Methylcyclohexane | 1.06517E-08 | 7.00815E-08 | * | 5.07679E-15 | 1.06517E-08 | 1.13576E-08 |
| Toluene | 5.25356E-05 | 0.00175395 | * | 1.02455E-09 | 5.25432E-05 | 0.00028425 |
| 2,2-Dimethylpropane | 6.78619E-09 | 4.26905E-08 | * | 2.62403E-14 | 6.78639E-09 | 6.91854E-09 |
| 2-Methylpentane | 3.06115E-08 | 1.8983E-07 | * | 5.00957E-15 | 3.06115E-08 | 3.07644E-08 |
| 3-Methylpentane | 1.83022E-08 | 1.14257E-07 | * | 6.29008E-15 | 1.83023E-08 | 1.85169E-08 |
| 2,3-Dimethylbutane | 5.44896E-09 | 3.39774E-08 | * | 2.09188E-15 | 5.44898E-09 | 5.50647E-09 |
| 1,1-Dimethylcyclopentane | 1.27228E-08 | 8.38678E-08 | * | 1.02036E-14 | 1.27229E-08 | 1.35918E-08 |
| 2,3-Dimethylpentane | 7.21813E-11 | 4.53074E-10 | * | 1.33047E-17 | 7.21814E-11 | 7.34265E-11 |
| 2-Methylhexane | 1.54924E-10 | 9.58777E-10 | * | 4.68434E-18 | 1.54924E-10 | 1.55382E-10 |
| cis-1,3-Dimethylcyclopentane | 2.81156E-09 | 1.85871E-08 | * | 2.0585E-15 | 2.81158E-09 | 3.01228E-09 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

| Mass Flow | Flashing lb/h | R10 from AGI 2 Amine lb/h | | Standing lb/h | To Flare (EP-13) lb/h | To Sour Tanks lb/h |
|---|---|---|---|---|---|---|
| trans-1,3-Dimethylcyclopentane | 3.20809E-09 | 2.16337E-08 | * | 2.98024E-15 | 3.20811E-09 | 3.50601E-09 |
| 2,2,4-Trimethylpentane | 3.21963E-11 | 2.00463E-10 | * | 2.23134E-18 | 3.21963E-11 | 3.24875E-11 |
| 2-Methylheptane | 1.1439E-11 | 7.06974E-11 | * | 5.91308E-20 | 1.1439E-11 | 1.14574E-11 |
| cis-1,2-Dimethylcyclohexane | 2.2076E-10 | 1.38618E-09 | * | 8.75959E-18 | 2.2076E-10 | 2.24648E-10 |
| m-Xylene | 8.21114E-06 | 0.000186729 | * | 2.85085E-11 | 8.21135E-06 | 3.02618E-05 |
| p-Xylene | 8.20698E-06 | 0.000197834 | * | 3.29511E-11 | 8.20722E-06 | 3.20615E-05 |
| Ethylcyclohexane | 2.67076E-09 | 1.79599E-08 | * | 4.78618E-16 | 2.67076E-09 | 2.91062E-09 |
| Water | 0.0627375 | 20497.9 | * | 0.0123166 | 0.154099 | 3321.94 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.000193798 | 28.5788 | * | 5.2119E-09 | 0.000193837 | 4.63155 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

## Stream Properties

| Property | Units | Flashing | R10 from AGI 2 Amine | | Standing | To Flare (EP-13) | To Sour Tanks |
|---|---|---|---|---|---|---|---|
| Temperature | °F | 80 | 120.01 | * | 80 | 80.0001 | 120.01 |
| Pressure | psia | 12.76 | 26.6959 | * | 12.76 | 12.76 | 26.6959 |
| Molecular Weight | lb/lbmol | 41.0197 | 18.0594 | | 28.5141 | 39.8446 | 18.0594 |
| Mass Density | lb/ft^3 | 0.090837 | 50.3561 | | 0.138733 | 0.0929961 | 50.3561 |
| Mass Flow | lb/h | 3.56151 | 20573.1 | | 0.0346166 | 3.81828 | 3334.14 |
| Std Vapor Volumetric Flow | MMSCFD | 0.000790762 | 10.3753 | | 1.10568E-05 | 0.000872778 | 1.68145 |
| Std Liquid Volumetric Flow | sgpm | 0.00871856 | 41.1464 | * | 7.93757E-05 | 0.00930735 | 6.6683 |
| Specific Gravity | | 1.41631 | | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 127.416 | 51.2859 | | 83.3052 | 123.271 | 51.2859 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

## Connections

| | To 4-LOAD | Working | 5 | | |
|---|---|---|---|---|---|
| From Block | Sour Tanks (4-T) | Sour Tanks (4-T) | Sour Tanks (4-T) | | |
| To Block | -- | MIX-101 | -- | | |

## Stream Composition

| Mole Fraction | To 4-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| H2S | 0.0239916 | 8.62766 | 20.1653 | | |
| Carbon Dioxide | 0.0294014 | 35.0567 | 75.6021 | | |
| Nitrogen | 1.45996E-10 | 8.86677E-08 | 1.5282E-05 | | |
| Methane | 3.31813E-07 | 0.000275465 | 0.0168888 | | |
| Ethane | 1.75719E-07 | 0.000124762 | 0.00607866 | | |
| Propane | 3.61838E-08 | 6.24723E-06 | 0.00176871 | | |
| Isobutane | 1.59324E-09 | 9.83724E-08 | 0.000113574 | | |
| n-Butane | 1.33317E-08 | 5.60024E-07 | 0.000701746 | | |
| Isopentane | 1.84471E-10 | 2.98348E-09 | 1.39313E-05 | | |
| n-Pentane | 1.1284E-10 | 1.35836E-09 | 1.99784E-05 | | |
| Hexane | 3.68665E-12 | 1.31437E-11 | 9.76686E-07 | | |
| n-Heptane | 8.79304E-14 | 9.4827E-14 | 3.19274E-08 | | |
| n-Octane | 8.63488E-15 | 2.64113E-15 | 4.00202E-11 | | |
| Methylcyclopentane | 1.29423E-10 | 4.18963E-10 | 4.29528E-06 | | |
| Benzene | 1.02337E-05 | 2.29853E-05 | 0.00396726 | | |
| Cyclohexane | 1.06255E-09 | 2.44337E-09 | 1.53347E-05 | | |
| Methylcyclohexane | 3.8962E-12 | 4.25907E-12 | 1.30823E-07 | | |
| Toluene | 1.36283E-06 | 9.15944E-07 | 0.000687526 | | |
| 2,2-Dimethylpropane | 9.9262E-13 | 2.99582E-11 | 1.13296E-07 | | |
| 2-Methylpentane | 9.61308E-13 | 4.78843E-12 | 4.28374E-07 | | |
| 3-Methylpentane | 1.34953E-12 | 6.01241E-12 | 2.56113E-07 | | |
| 2,3-Dimethylbutane | 3.61566E-13 | 1.99953E-12 | 7.62479E-08 | | |
| 1,1-Dimethylcyclopentane | 4.79609E-12 | 8.56013E-12 | 1.56264E-07 | | |
| 2,3-Dimethylpentane | 6.73404E-15 | 1.09372E-14 | 1.50934E-11 | | |
| 2-Methylhexane | 2.47604E-15 | 3.85077E-15 | 9.17806E-12 | | |
| cis-1,3-Dimethylcyclopentane | 1.10777E-12 | 1.72694E-12 | 3.45321E-08 | | |
| trans-1,3-Dimethylcyclopentane | 1.64424E-12 | 2.50021E-12 | 3.94017E-08 | | |
| 2,2,4-Trimethylpentane | 1.38134E-15 | 1.60904E-15 | 1.00553E-11 | | |
| 2-Methylheptane | 8.74697E-17 | 4.26397E-17 | 4.87802E-13 | | |
| cis-1,2-Dimethylcyclohexane | 1.87811E-14 | 6.43009E-15 | 2.53666E-11 | | |
| m-Xylene | 1.12559E-07 | 2.21192E-08 | 9.32547E-05 | | |
| p-Xylene | 1.21767E-07 | 2.5566E-08 | 9.32062E-05 | | |
| Ethylcyclohexane | 1.15841E-12 | 3.51336E-13 | 2.86986E-08 | | |
| Water | 99.9255 | 56.3152 | 4.20014 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 0.0210628 | 3.60274E-06 | 0.0019594 | | |
| Piperazine | 0 | 0 | 0 | | |

| Mass Fraction | To 4-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| H2S | 0.0453043 | 10.312 | 16.7977 | | |
| Carbon Dioxide | 0.071694 | 54.1075 | 81.3233 | | |
| Nitrogen | 2.26608E-10 | 8.71107E-08 | 1.04636E-05 | | |
| Methane | 2.94939E-07 | 0.000154981 | 0.00662221 | | |
| Ethane | 2.92756E-07 | 0.000131565 | 0.00446747 | | |
| Propane | 8.84054E-08 | 9.66103E-06 | 0.00190628 | | |
| Isobutane | 5.13088E-09 | 2.00519E-07 | 0.000161345 | | |
| n-Butane | 4.29335E-08 | 1.14153E-06 | 0.000996911 | | |
| Isopentane | 7.37439E-10 | 7.54906E-09 | 2.45672E-05 | | |
| n-Pentane | 4.51089E-10 | 3.43705E-09 | 3.52309E-05 | | |
| Hexane | 1.76029E-11 | 3.97228E-11 | 2.05718E-06 | | |
| n-Heptane | 4.88184E-13 | 3.33233E-13 | 7.81941E-08 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

| Mass Fraction | To 4-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| n-Octane | 5.46512E-14 | 1.05805E-14 | 1.11735E-10 | | |
| Methylcyclopentane | 6.03509E-10 | 1.23657E-09 | 8.83546E-06 | | |
| Benzene | 4.42914E-05 | 6.29662E-05 | 0.00757429 | | |
| Cyclohexane | 4.95475E-09 | 7.21161E-09 | 3.15437E-05 | | |
| Methylcyclohexane | 2.11963E-11 | 1.46658E-11 | 3.13956E-07 | | |
| Toluene | 6.95748E-06 | 2.95972E-06 | 0.00154833 | | |
| 2,2-Dimethylpropane | 3.96808E-12 | 7.58028E-11 | 1.99792E-07 | | |
| 2-Methylpentane | 4.59002E-12 | 1.44716E-11 | 9.02279E-07 | | |
| 3-Methylpentane | 6.44369E-12 | 1.81707E-11 | 5.39447E-07 | | |
| 2,3-Dimethylbutane | 1.72639E-12 | 6.043E-12 | 1.606E-07 | | |
| 1,1-Dimethylcyclopentane | 2.60919E-11 | 2.94761E-11 | 3.75009E-07 | | |
| 2,3-Dimethylpentane | 3.7387E-14 | 3.84345E-14 | 3.69656E-11 | | |
| 2-Methylhexane | 1.37468E-14 | 1.35321E-14 | 2.24782E-11 | | |
| cis-1,3-Dimethylcyclopentane | 6.02655E-12 | 5.94658E-12 | 8.28719E-08 | | |
| trans-1,3-Dimethylcyclopentane | 8.94505E-12 | 8.60928E-12 | 9.45582E-08 | | |
| 2,2,4-Trimethylpentane | 8.74266E-15 | 6.44586E-15 | 2.8074E-11 | | |
| 2-Methylheptane | 5.53606E-16 | 1.70816E-16 | 1.36192E-12 | | |
| cis-1,2-Dimethylcyclohexane | 1.1677E-13 | 2.53046E-14 | 6.95727E-11 | | |
| m-Xylene | 6.62112E-07 | 8.2355E-08 | 0.000241984 | | |
| p-Xylene | 7.16276E-07 | 9.51886E-08 | 0.000241858 | | |
| Ethylcyclohexane | 7.20236E-12 | 1.38262E-12 | 7.87113E-08 | | |
| Water | 99.7439 | 35.5801 | 1.84944 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 0.139066 | 1.50561E-05 | 0.00570686 | | |
| Piperazine | 0 | 0 | 0 | | |

| Mass Flow | To 4-LOAD lb/h | Working lb/h | 5 lb/h | | |
|---|---|---|---|---|---|
| H2S | 1.50878 | 0.0229093 | 0.0274903 | | |
| Carbon Dioxide | 2.38764 | 0.120206 | 0.13309 | | |
| Nitrogen | 7.54675E-09 | 1.93526E-10 | 1.71242E-08 | | |
| Methane | 9.82243E-06 | 3.44307E-07 | 1.08376E-05 | | |
| Ethane | 9.74972E-06 | 2.92287E-07 | 7.31125E-06 | | |
| Propane | 2.94418E-06 | 2.1463E-08 | 3.11973E-06 | | |
| Isobutane | 1.70875E-07 | 4.45475E-10 | 2.6405E-07 | | |
| n-Butane | 1.42982E-06 | 2.53604E-09 | 1.6315E-06 | | |
| Isopentane | 2.45591E-08 | 1.67711E-11 | 4.02055E-08 | | |
| n-Pentane | 1.50227E-08 | 7.63578E-12 | 5.76572E-08 | | |
| Hexane | 5.86232E-10 | 8.82486E-14 | 3.36668E-09 | | |
| n-Heptane | 1.62581E-11 | 7.40314E-16 | 1.27969E-10 | | |
| n-Octane | 1.82006E-12 | 2.35056E-17 | 1.8286E-13 | | |
| Methylcyclopentane | 2.00988E-08 | 2.74718E-12 | 1.44597E-08 | | |
| Benzene | 0.00147504 | 1.39886E-07 | 1.23957E-05 | | |
| Cyclohexane | 1.65009E-07 | 1.60214E-11 | 5.1623E-08 | | |
| Methylcyclohexane | 7.05904E-10 | 3.25816E-14 | 5.13805E-10 | | |
| Toluene | 0.000231706 | 6.57533E-09 | 2.53393E-06 | | |
| 2,2-Dimethylpropane | 1.3215E-10 | 1.68404E-13 | 3.26969E-10 | | |
| 2-Methylpentane | 1.52862E-10 | 3.21502E-14 | 1.47663E-09 | | |
| 3-Methylpentane | 2.14595E-10 | 4.03682E-14 | 8.82833E-10 | | |
| 2,3-Dimethylbutane | 5.74944E-11 | 1.34252E-14 | 2.6283E-10 | | |
| 1,1-Dimethylcyclopentane | 8.68944E-10 | 6.54845E-14 | 6.13722E-10 | | |
| 2,3-Dimethylpentane | 1.24511E-12 | 8.53864E-17 | 6.04961E-14 | | |
| 2-Methylhexane | 4.57813E-13 | 3.0063E-17 | 3.67867E-14 | | |
| cis-1,3-Dimethylcyclopentane | 2.00703E-10 | 1.3211E-14 | 1.35624E-10 | | |
| trans-1,3-Dimethylcyclopentane | 2.97899E-10 | 1.91265E-14 | 1.54749E-10 | | |
| 2,2,4-Trimethylpentane | 2.91159E-13 | 1.43202E-17 | 4.59445E-14 | | |
| 2-Methylheptane | 1.84369E-14 | 3.79487E-19 | 2.22886E-15 | | |
| cis-1,2-Dimethylcyclohexane | 3.88882E-12 | 5.62169E-17 | 1.13859E-13 | | |
| m-Xylene | 2.20504E-05 | 1.82961E-10 | 3.96019E-07 | | |
| p-Xylene | 2.38543E-05 | 2.11472E-10 | 3.95813E-07 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

| Mass Flow | To 4-LOAD lb/h | Working lb/h | 5 lb/h | | |
|---|---|---|---|---|---|
| Ethylcyclohexane | 2.39861E-10 | 3.07165E-15 | 1.28815E-10 | | |
| Water | 3321.79 | 0.0790451 | 0.0030267 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 4.63136 | 3.34487E-08 | 9.33957E-06 | | |
| Piperazine | 0 | 0 | 0 | | |

## Stream Properties

| Property | Units | To 4-LOAD | Working | 5 | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 80 | 80 | 80 | | |
| Pressure | psia | 12.76 | 12.76 | 12.76 | | |
| Molecular Weight | lb/lbmol | 18.0481 | 28.5141 | 40.9134 | | |
| Mass Density | lb/ft^3 | 62.1963 | 0.138733 | 0.0907812 | | |
| Mass Flow | lb/h | 3330.32 | 0.222161 | 0.163655 | | |
| Std Vapor Volumetric Flow | MMSCFD | 1.68058 | 7.09599E-05 | 3.64308E-05 | | |
| Std Liquid Volumetric Flow | sgpm | 6.659 | 0.000509414 | 0.000400612 | | |
| Specific Gravity | | 0.997235 | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 51.2485 | 83.3052 | 131.203 | | |

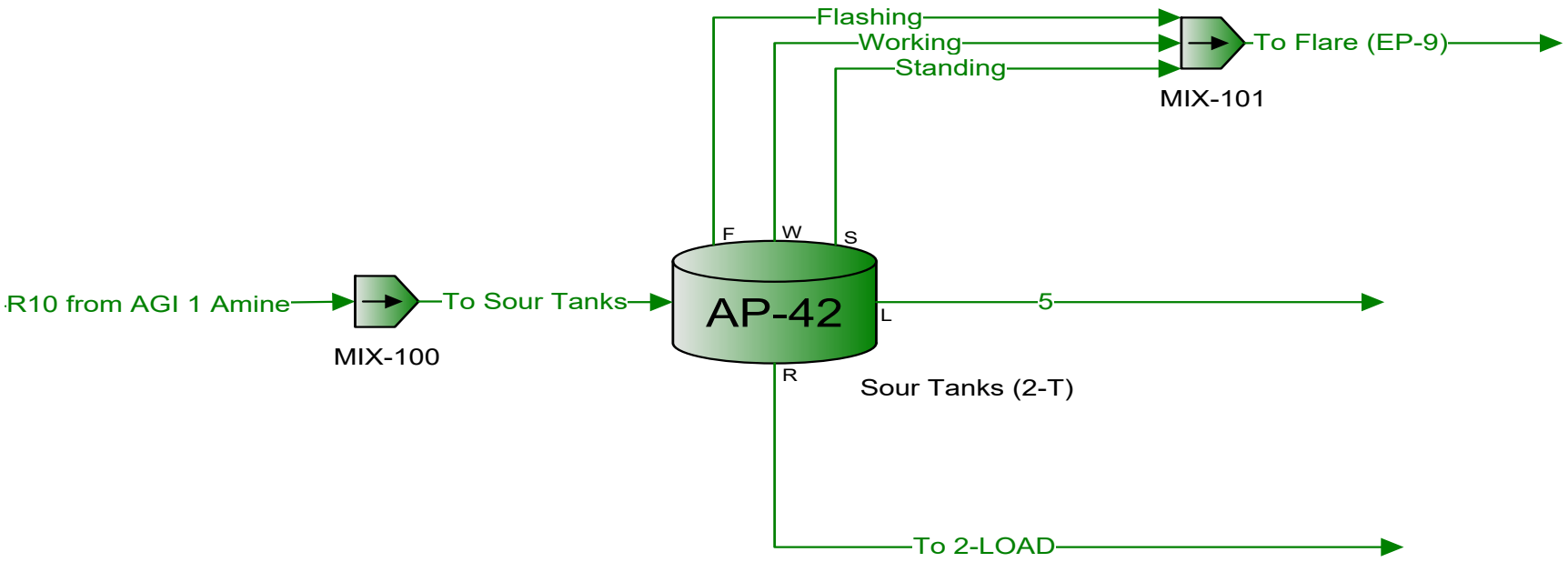
**Remarks**


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# Sour Tanks (2-T)
## Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Sour Tanks (2-T) | |

## Targa Northern Delaware, LLC – Red Hills Gas Processing Plant





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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

## Connections

| | Flashing | R10 from AGI 1 Amine | Standing | To Flare (EP-9) | To Sour Tanks |
|---|---|---|---|---|---|
| From Block | Sour Tanks (2-T) | -- | Sour Tanks (2-T) | MIX-101 | MIX-100 |
| To Block | MIX-101 | MIX-100 | MIX-101 | -- | Sour Tanks (2-T) |

## Stream Composition

| Mole Fraction | Flashing % | R10 from AGI 1 Amine % | | Standing % | To Flare (EP-9) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| H2S | 22.6572 | 0.0484809 | * | 10.0656 | 21.9284 | 0.0484809 |
| Carbon Dioxide | 73.3043 | 0.0945694 | * | 33.8619 | 71.0214 | 0.0945694 |
| Nitrogen | 1.21875E-05 | 1.08341E-08 | * | 7.21228E-08 | 1.14862E-05 | 1.08341E-08 |
| Methane | 0.0131981 | 1.18723E-05 | * | 0.00021681 | 0.0124468 | 1.18723E-05 |
| Ethane | 0.00498477 | 4.53296E-06 | * | 0.000103915 | 0.00470227 | 4.53296E-06 |
| Propane | 0.00137111 | 1.23474E-06 | * | 5.06735E-06 | 0.00129204 | 1.23474E-06 |
| Isobutane | 8.34086E-05 | 7.45575E-08 | * | 7.67395E-08 | 7.85853E-05 | 7.45575E-08 |
| n-Butane | 0.000549509 | 4.94157E-07 | * | 4.68014E-07 | 0.000517731 | 4.94157E-07 |
| Isopentane | 1.3048E-05 | 1.16531E-08 | * | 2.98612E-09 | 1.22929E-05 | 1.16531E-08 |
| n-Pentane | 1.75172E-05 | 1.55066E-08 | * | 1.33025E-09 | 1.65034E-05 | 1.55066E-08 |
| Hexane | 8.39545E-07 | 7.41347E-10 | * | 1.23586E-11 | 7.90953E-07 | 7.41347E-10 |
| n-Heptane | 2.91179E-08 | 2.56798E-11 | * | 9.49604E-14 | 2.74326E-08 | 2.56798E-11 |
| n-Octane | 5.65813E-09 | 4.98058E-12 | * | 2.34649E-15 | 5.33064E-09 | 4.98058E-12 |
| Methylcyclopentane | 3.72455E-06 | 3.39444E-09 | * | 3.90323E-10 | 3.509E-06 | 3.39444E-09 |
| Benzene | 0.0043654 | 1.6032E-05 | * | 2.73055E-05 | 0.00411431 | 1.6032E-05 |
| Cyclohexane | 1.25476E-05 | 1.19598E-08 | * | 2.13605E-09 | 1.18215E-05 | 1.19598E-08 |
| Methylcyclohexane | 1.12113E-07 | 1.02147E-10 | * | 3.93575E-12 | 1.05624E-07 | 1.02147E-10 |
| Toluene | 0.000736626 | 2.26599E-06 | * | 1.08451E-06 | 0.000694053 | 2.26599E-06 |
| 2,2-Dimethylpropane | 9.36077E-08 | 8.31445E-11 | * | 2.62445E-11 | 8.81912E-08 | 8.31445E-11 |
| 2-Methylpentane | 3.70589E-07 | 3.26636E-10 | * | 4.60858E-12 | 3.4914E-07 | 3.26636E-10 |
| 3-Methylpentane | 2.22123E-07 | 1.96492E-10 | * | 5.63933E-12 | 2.09267E-07 | 1.96492E-10 |
| 2,3-Dimethylbutane | 6.63218E-08 | 5.86315E-11 | * | 1.88391E-12 | 6.24832E-08 | 5.86315E-11 |
| 1,1-Dimethylcyclopentane | 1.4677E-07 | 1.33829E-10 | * | 8.60086E-12 | 1.38276E-07 | 1.33829E-10 |
| 2,3-Dimethylpentane | 8.03958E-10 | 7.13269E-13 | * | 1.08113E-14 | 7.57425E-10 | 7.13269E-13 |
| 2-Methylhexane | 1.70944E-09 | 1.50499E-12 | * | 3.9924E-15 | 1.6105E-09 | 1.50499E-12 |
| cis-1,3-Dimethylcyclopentane | 3.22935E-08 | 2.94938E-11 | * | 1.72709E-12 | 3.04245E-08 | 2.94938E-11 |
| trans-1,3-Dimethylcyclopentane | 3.86268E-08 | 3.56714E-11 | * | 2.61131E-12 | 3.63912E-08 | 3.56714E-11 |
| 2,2,4-Trimethylpentane | 2.14887E-10 | 1.89789E-13 | * | 1.07617E-15 | 2.02449E-10 | 1.89789E-13 |
| 2-Methylheptane | 9.65401E-11 | 8.4929E-14 | * | 3.92035E-17 | 9.09524E-11 | 8.4929E-14 |
| cis-1,2-Dimethylcyclohexane | 1.84999E-09 | 1.64186E-12 | * | 5.43355E-15 | 1.74291E-09 | 1.64186E-12 |
| m-Xylene | 9.9627E-05 | 2.30118E-07 | * | 2.79292E-08 | 9.38622E-05 | 2.30118E-07 |
| p-Xylene | 0.000101862 | 2.43834E-07 | * | 3.23002E-08 | 9.59685E-05 | 2.43834E-07 |
| Ethylcyclohexane | 2.29722E-08 | 2.11721E-11 | * | 2.96945E-13 | 2.16425E-08 | 2.11721E-11 |
| Water | 4.01109 | 99.8014 | * | 56.0721 | 7.02438 | 99.8014 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.00187161 | 0.0554963 | * | 9.4636E-06 | 0.00176383 | 0.0554963 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

| Mass Fraction | Flashing % | R10 from AGI 1 Amine % | | Standing % | To Flare (EP-9) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| H2S | 18.9647 | 0.0912666 | * | 12.0644 | 18.6809 | 0.0912666 |
| Carbon Dioxide | 79.2331 | 0.229894 | * | 52.4097 | 78.1296 | 0.229894 |
| Nitrogen | 8.38513E-06 | 1.67644E-08 | * | 7.10545E-08 | 8.04309E-06 | 1.67644E-08 |
| Methane | 0.00520013 | 1.05205E-05 | * | 0.000122322 | 0.00499124 | 1.05205E-05 |
| Ethane | 0.00368125 | 7.52891E-06 | * | 0.000109888 | 0.00353433 | 7.52891E-06 |
| Propane | 0.0014849 | 3.00747E-06 | * | 7.85832E-06 | 0.00142413 | 3.00747E-06 |
| Isobutane | 0.000119065 | 2.39367E-07 | * | 1.56861E-07 | 0.000114173 | 2.39367E-07 |
| n-Butane | 0.000784418 | 1.58649E-06 | * | 9.56653E-07 | 0.000752187 | 1.58649E-06 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

| Mass Fraction | Flashing % | R10 from AGI 1 Amine % | | Standing % | To Flare (EP-9) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| Isopentane | 2.31208E-05 | 4.64409E-08 | * | 7.57687E-09 | 2.21699E-05 | 4.64409E-08 |
| n-Pentane | 3.10401E-05 | 6.17982E-08 | * | 3.37533E-09 | 2.97633E-05 | 6.17982E-08 |
| Hexane | 1.77688E-06 | 3.52887E-09 | * | 3.74547E-11 | 1.70378E-06 | 3.52887E-09 |
| n-Heptane | 7.16583E-08 | 1.42134E-10 | * | 3.34636E-13 | 6.87104E-08 | 1.42134E-10 |
| n-Octane | 1.58737E-08 | 3.14257E-11 | * | 9.42642E-15 | 1.52207E-08 | 3.14257E-11 |
| Methylcyclopentane | 7.69853E-06 | 1.57798E-08 | * | 1.15526E-09 | 7.38187E-06 | 1.57798E-08 |
| Benzene | 0.00837475 | 6.91727E-05 | * | 7.50101E-05 | 0.0080333 | 6.91727E-05 |
| Cyclohexane | 2.59355E-05 | 5.55978E-08 | * | 6.32218E-09 | 2.48688E-05 | 5.55978E-08 |
| Methylcyclohexane | 2.70357E-07 | 5.53995E-10 | * | 1.35904E-11 | 2.59235E-07 | 5.53995E-10 |
| Toluene | 0.00166694 | 1.15327E-05 | * | 3.51421E-06 | 0.0015985 | 1.15327E-05 |
| 2,2-Dimethylpropane | 1.65871E-07 | 3.31355E-10 | * | 6.65919E-11 | 1.5905E-07 | 3.31355E-10 |
| 2-Methylpentane | 7.84344E-07 | 1.55481E-09 | * | 1.3967E-11 | 7.52077E-07 | 1.55481E-09 |
| 3-Methylpentane | 4.70118E-07 | 9.35316E-10 | * | 1.70909E-11 | 4.50779E-07 | 9.35316E-10 |
| 2,3-Dimethylbutane | 1.40369E-07 | 2.7909E-10 | * | 5.70947E-12 | 1.34594E-07 | 2.7909E-10 |
| 1,1-Dimethylcyclopentane | 3.53931E-07 | 7.25823E-10 | * | 2.96992E-11 | 3.39372E-07 | 7.25823E-10 |
| 2,3-Dimethylpentane | 1.97852E-09 | 3.94784E-12 | * | 3.80984E-14 | 1.89712E-09 | 3.94784E-12 |
| 2-Methylhexane | 4.20689E-09 | 8.32991E-12 | * | 1.4069E-14 | 4.03382E-09 | 8.32991E-12 |
| cis-1,3-Dimethylcyclopentane | 7.78746E-08 | 1.5996E-10 | * | 5.96373E-12 | 7.46711E-08 | 1.5996E-10 |
| trans-1,3-Dimethylcyclopentane | 9.31471E-08 | 1.93464E-10 | * | 9.01699E-12 | 8.93155E-08 | 1.93464E-10 |
| 2,2,4-Trimethylpentane | 6.02858E-10 | 1.1975E-12 | * | 4.32323E-15 | 5.78057E-10 | 1.1975E-12 |
| 2-Methylheptane | 2.7084E-10 | 5.35872E-13 | * | 1.5749E-16 | 2.59698E-10 | 5.35872E-13 |
| cis-1,2-Dimethylcyclohexane | 5.09849E-09 | 1.01767E-11 | * | 2.14427E-14 | 4.88875E-09 | 1.01767E-11 |
| m-Xylene | 0.00025977 | 1.34947E-06 | * | 1.04278E-07 | 0.000249088 | 1.34947E-06 |
| p-Xylene | 0.000265599 | 1.4299E-06 | * | 1.20598E-07 | 0.000254677 | 1.4299E-06 |
| Ethylcyclohexane | 6.33103E-08 | 1.31231E-10 | * | 1.17185E-12 | 6.07058E-08 | 1.31231E-10 |
| Water | 1.77474 | 99.3134 | * | 35.5256 | 3.16322 | 99.3134 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.00547752 | 0.365286 | * | 3.96596E-05 | 0.00525381 | 0.365286 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

| Mass Flow | Flashing lb/h | R10 from AGI 1 Amine lb/h | | Standing lb/h | To Flare (EP-9) lb/h | To Sour Tanks lb/h |
|---|---|---|---|---|---|---|
| H2S | 0.714932 | 5.88497 | * | 0.00418033 | 0.734445 | 1.74058 |
| Carbon Dioxide | 2.98693 | 14.8238 | * | 0.01816 | 3.0717 | 4.3844 |
| Nitrogen | 3.16102E-07 | 1.08099E-06 | * | 2.46205E-11 | 3.16217E-07 | 3.19722E-07 |
| Methane | 0.000196035 | 0.000678373 | * | 4.23847E-08 | 0.000196232 | 0.000200641 |
| Ethane | 0.000138776 | 0.000485472 | * | 3.80764E-08 | 0.000138953 | 0.000143587 |
| Propane | 5.59777E-05 | 0.000193925 | * | 2.72292E-09 | 5.59904E-05 | 5.73567E-05 |
| Isobutane | 4.4885E-06 | 1.54346E-05 | * | 5.43526E-11 | 4.48876E-06 | 4.56506E-06 |
| n-Butane | 2.9571E-05 | 0.000102299 | * | 3.31482E-10 | 2.95725E-05 | 3.02566E-05 |
| Isopentane | 8.71608E-07 | 2.99456E-06 | * | 2.6254E-12 | 8.7162E-07 | 8.85694E-07 |
| n-Pentane | 1.17015E-06 | 3.98482E-06 | * | 1.16956E-12 | 1.17016E-06 | 1.17858E-06 |
| Hexane | 6.69848E-08 | 2.27545E-07 | * | 1.29781E-14 | 6.69848E-08 | 6.73005E-08 |
| n-Heptane | 2.70138E-09 | 9.16496E-09 | * | 1.15952E-16 | 2.70138E-09 | 2.7107E-09 |
| n-Octane | 5.98407E-10 | 2.02636E-09 | * | 3.26627E-18 | 5.98407E-10 | 5.99333E-10 |
| Methylcyclopentane | 2.90219E-07 | 1.0175E-06 | * | 4.00301E-13 | 2.90221E-07 | 3.00943E-07 |
| Benzene | 0.000315711 | 0.00446033 | * | 2.59911E-08 | 0.000315833 | 0.00131922 |
| Cyclohexane | 9.77715E-07 | 3.585E-06 | * | 2.19065E-12 | 9.77726E-07 | 1.06033E-06 |
| Methylcyclohexane | 1.01919E-08 | 3.57222E-08 | * | 4.70908E-15 | 1.01919E-08 | 1.05655E-08 |
| Toluene | 6.28401E-05 | 0.000743638 | * | 1.21768E-09 | 6.28458E-05 | 0.000219944 |
| 2,2-Dimethylpropane | 6.25301E-09 | 2.13661E-08 | * | 2.30742E-14 | 6.25312E-09 | 6.3194E-09 |
| 2-Methylpentane | 2.95682E-08 | 1.00256E-07 | * | 4.83959E-15 | 2.95682E-08 | 2.96525E-08 |
| 3-Methylpentane | 1.77225E-08 | 6.03102E-08 | * | 5.92202E-15 | 1.77226E-08 | 1.78378E-08 |
| 2,3-Dimethylbutane | 5.29162E-09 | 1.7996E-08 | * | 1.97834E-15 | 5.29163E-09 | 5.32265E-09 |
| 1,1-Dimethylcyclopentane | 1.33425E-08 | 4.68018E-08 | * | 1.02908E-14 | 1.33425E-08 | 1.38425E-08 |
| 2,3-Dimethylpentane | 7.45861E-11 | 2.54561E-10 | * | 1.32012E-17 | 7.45862E-11 | 7.5291E-11 |
| 2-Methylhexane | 1.58591E-10 | 5.37121E-10 | * | 4.87494E-18 | 1.58591E-10 | 1.58863E-10 |
| cis-1,3-Dimethylcyclopentane | 2.93571E-09 | 1.03144E-08 | * | 2.06644E-15 | 2.93572E-09 | 3.05066E-09 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

| Mass Flow | Flashing lb/h | R10 from AGI 1 Amine lb/h | | Standing lb/h | To Flare (EP-9) lb/h | To Sour Tanks lb/h |
|---|---|---|---|---|---|---|
| trans-1,3-Dimethylcyclopentane | 3.51146E-09 | 1.24748E-08 | * | 3.1244E-15 | 3.51147E-09 | 3.68964E-09 |
| 2,2,4-Trimethylpentane | 2.27265E-11 | 7.72162E-11 | * | 1.49801E-18 | 2.27265E-11 | 2.28381E-11 |
| 2-Methylheptane | 1.02101E-11 | 3.45536E-11 | * | 5.45705E-20 | 1.02101E-11 | 1.02198E-11 |
| cis-1,2-Dimethylcyclohexane | 1.92203E-10 | 6.56207E-10 | * | 7.42992E-18 | 1.92203E-10 | 1.94085E-10 |
| m-Xylene | 9.79281E-06 | 8.70151E-05 | * | 3.61326E-11 | 9.79298E-06 | 2.57363E-05 |
| p-Xylene | 1.00125E-05 | 9.22016E-05 | * | 4.17874E-11 | 1.00127E-05 | 2.72702E-05 |
| Ethylcyclohexane | 2.38667E-09 | 8.46191E-09 | * | 4.06048E-16 | 2.38667E-09 | 2.50276E-09 |
| Water | 0.0669041 | 6403.84 | * | 0.0123097 | 0.124363 | 1894.05 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.000206492 | 23.554 | * | 1.37421E-08 | 0.000206556 | 6.96652 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

## Stream Properties

| Property | Units | Flashing | R10 from AGI 1 Amine | | Standing | To Flare (EP-9) | To Sour Tanks |
|---|---|---|---|---|---|---|---|
| Temperature | °F | 80 | 119.998 | * | 80 | 80 | 119.998 |
| Pressure | psia | 12.76 | 28.6959 | * | 12.76 | 12.76 | 28.6959 |
| Molecular Weight | lb/lbmol | 40.7164 | 18.1038 | | 28.4346 | 40.0055 | 18.1038 |
| Mass Density | lb/ft^3 | 0.0901691 | 42.3026 | | 0.13759 | 0.091466 | 42.3026 |
| Mass Flow | lb/h | 3.7698 | 6448.11 | | 0.0346502 | 3.93154 | 1907.14 |
| Std Vapor Volumetric Flow | MMSCFD | 0.000843245 | 3.2439 | | 1.10985E-05 | 0.00089505 | 0.959441 |
| Std Liquid Volumetric Flow | sgpm | 0.00923359 | 12.8979 | * | 7.94951E-05 | 0.00960466 | 3.81478 |
| Specific Gravity | | 1.40583 | | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 146.925 | 52.6875 | | 92.3436 | 143.766 | 52.6875 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

## Connections

| | To 2-LOAD | Working | 5 | | |
|---|---|---|---|---|---|
| From Block | Sour Tanks (2-T) | Sour Tanks (2-T) | Sour Tanks (2-T) | | |
| To Block | -- | MIX-101 | -- | | |

## Stream Composition

| Mole Fraction | To 2-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| H2S | 0.0280504 | 10.0656 | 23.3653 | | |
| Carbon Dioxide | 0.0283409 | 33.8619 | 72.3915 | | |
| Nitrogen | 1.1886E-10 | 7.21228E-08 | 1.241E-05 | | |
| Methane | 2.61099E-07 | 0.00021681 | 0.0132825 | | |
| Ethane | 1.46412E-07 | 0.000103915 | 0.00504737 | | |
| Propane | 2.94407E-08 | 5.06735E-06 | 0.00142815 | | |
| Isobutane | 1.24741E-09 | 7.67395E-08 | 8.73893E-05 | | |
| n-Butane | 1.11831E-08 | 4.68014E-07 | 0.000576335 | | |
| Isopentane | 1.85351E-10 | 2.98612E-09 | 1.37027E-05 | | |
| n-Pentane | 1.10936E-10 | 1.33025E-09 | 1.84018E-05 | | |
| Hexane | 3.48012E-12 | 1.23586E-11 | 8.82222E-07 | | |
| n-Heptane | 8.84025E-14 | 9.49604E-14 | 3.05989E-08 | | |
| n-Octane | 7.70198E-15 | 2.34649E-15 | 3.57412E-11 | | |
| Methylcyclopentane | 1.21052E-10 | 3.90323E-10 | 3.91373E-06 | | |
| Benzene | 1.22052E-05 | 2.73055E-05 | 0.0045866 | | |
| Cyclohexane | 9.32575E-10 | 2.13605E-09 | 1.3185E-05 | | |
| Methylcyclohexane | 3.61467E-12 | 3.93575E-12 | 1.17807E-07 | | |
| Toluene | 1.62003E-06 | 1.08451E-06 | 0.000773954 | | |
| 2,2-Dimethylpropane | 8.72886E-13 | 2.62445E-11 | 9.82334E-08 | | |
| 2-Methylpentane | 9.28845E-13 | 4.60858E-12 | 3.8943E-07 | | |
| 3-Methylpentane | 1.27078E-12 | 5.63933E-12 | 2.334E-07 | | |
| 2,3-Dimethylbutane | 3.41998E-13 | 1.88391E-12 | 6.96866E-08 | | |
| 1,1-Dimethylcyclopentane | 4.83796E-12 | 8.60086E-12 | 1.54225E-07 | | |
| 2,3-Dimethylpentane | 6.68286E-15 | 1.08113E-14 | 1.50044E-11 | | |
| 2-Methylhexane | 2.57726E-15 | 3.9924E-15 | 9.56909E-12 | | |
| cis-1,3-Dimethylcyclopentane | 1.11225E-12 | 1.72709E-12 | 3.39338E-08 | | |
| trans-1,3-Dimethylcyclopentane | 1.72409E-12 | 2.61131E-12 | 4.05879E-08 | | |
| 2,2,4-Trimethylpentane | 9.27532E-16 | 1.07617E-15 | 6.76281E-12 | | |
| 2-Methylheptane | 8.07392E-17 | 3.92035E-17 | 4.50856E-13 | | |
| cis-1,2-Dimethylcyclohexane | 1.59333E-14 | 5.43355E-15 | 2.15528E-11 | | |
| m-Xylene | 1.42688E-07 | 2.79292E-08 | 0.000104674 | | |
| p-Xylene | 1.5445E-07 | 3.23002E-08 | 0.000107019 | | |
| Ethylcyclohexane | 9.82959E-13 | 2.96945E-13 | 2.41354E-08 | | |
| Water | 99.888 | 56.0721 | 4.21518 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 0.0555465 | 9.4636E-06 | 0.00196461 | | |
| Piperazine | 0 | 0 | 0 | | |

| Mass Fraction | To 2-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| H2S | 0.0528653 | 12.0644 | 19.6169 | | |
| Carbon Dioxide | 0.0689733 | 52.4097 | 78.4839 | | |
| Nitrogen | 1.84129E-10 | 7.10545E-08 | 8.56412E-06 | | |
| Methane | 2.31632E-07 | 0.000122322 | 0.00524924 | | |
| Ethane | 2.43455E-07 | 0.000109888 | 0.00373879 | | |
| Propane | 7.179E-08 | 7.85832E-06 | 0.00155137 | | |
| Isobutane | 4.00934E-09 | 1.56861E-07 | 0.000125126 | | |
| n-Butane | 3.5944E-08 | 9.56653E-07 | 0.000825208 | | |
| Isopentane | 7.3951E-10 | 7.57687E-09 | 2.43546E-05 | | |
| n-Pentane | 4.42612E-10 | 3.37533E-09 | 3.27067E-05 | | |
| Hexane | 1.65844E-11 | 3.74547E-11 | 1.87287E-06 | | |
| n-Heptane | 4.89849E-13 | 3.34636E-13 | 7.55316E-08 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

| Mass Fraction | To 2-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| n-Octane | 4.86517E-14 | 9.42642E-15 | 1.00575E-10 | | |
| Methylcyclopentane | 5.63372E-10 | 1.15526E-09 | 8.11412E-06 | | |
| Benzene | 5.27209E-05 | 7.50101E-05 | 0.00882582 | | |
| Cyclohexane | 4.34018E-09 | 6.32218E-09 | 2.73356E-05 | | |
| Methylcyclohexane | 1.96264E-11 | 1.35904E-11 | 2.8495E-07 | | |
| Toluene | 8.25438E-06 | 3.51421E-06 | 0.00175672 | | |
| 2,2-Dimethylpropane | 3.48263E-12 | 6.65919E-11 | 1.74596E-07 | | |
| 2-Methylpentane | 4.42637E-12 | 1.3967E-11 | 8.26722E-07 | | |
| 3-Methylpentane | 6.05584E-12 | 1.70909E-11 | 4.95486E-07 | | |
| 2,3-Dimethylbutane | 1.62977E-12 | 5.70947E-12 | 1.47938E-07 | | |
| 1,1-Dimethylcyclopentane | 2.62684E-11 | 2.96992E-11 | 3.73036E-07 | | |
| 2,3-Dimethylpentane | 3.70305E-14 | 3.80984E-14 | 3.70375E-11 | | |
| 2-Methylhexane | 1.42809E-14 | 1.4069E-14 | 2.36208E-11 | | |
| cis-1,3-Dimethylcyclopentane | 6.03911E-12 | 5.96373E-12 | 8.20784E-08 | | |
| trans-1,3-Dimethylcyclopentane | 9.36118E-12 | 9.01699E-12 | 9.81732E-08 | | |
| 2,2,4-Trimethylpentane | 5.85902E-15 | 4.32323E-15 | 1.90304E-11 | | |
| 2-Methylheptane | 5.10012E-16 | 1.5749E-16 | 1.2687E-12 | | |
| cis-1,2-Dimethylcyclohexane | 9.88707E-14 | 2.14427E-14 | 5.9579E-11 | | |
| m-Xylene | 8.37705E-07 | 1.04278E-07 | 0.000273757 | | |
| p-Xylene | 9.06758E-07 | 1.20598E-07 | 0.000279892 | | |
| Ethylcyclohexane | 6.09956E-12 | 1.17185E-12 | 6.67179E-08 | | |
| Water | 99.5121 | 35.5256 | 1.8707 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 0.36603 | 3.96596E-05 | 0.00576716 | | |
| Piperazine | 0 | 0 | 0 | | |

| Mass Flow | To 2-LOAD lb/h | Working lb/h | 5 lb/h | | |
|---|---|---|---|---|---|
| H2S | 1.00614 | 0.0153326 | 0.0182404 | | |
| Carbon Dioxide | 1.31271 | 0.0666073 | 0.0729771 | | |
| Nitrogen | 3.50437E-09 | 9.03029E-11 | 7.96322E-09 | | |
| Methane | 4.40844E-06 | 1.55458E-07 | 4.88093E-06 | | |
| Ethane | 4.63345E-06 | 1.39656E-07 | 3.47646E-06 | | |
| Propane | 1.36632E-06 | 9.98711E-09 | 1.44252E-06 | | |
| Isobutane | 7.63062E-08 | 1.99354E-10 | 1.16346E-07 | | |
| n-Butane | 6.8409E-07 | 1.21581E-09 | 7.67308E-07 | | |
| Isopentane | 1.40744E-08 | 9.62942E-12 | 2.26458E-08 | | |
| n-Pentane | 8.42384E-09 | 4.2897E-12 | 3.04118E-08 | | |
| Hexane | 3.15635E-10 | 4.7601E-14 | 1.74146E-09 | | |
| n-Heptane | 9.32285E-12 | 4.25287E-16 | 7.0232E-11 | | |
| n-Octane | 9.25945E-13 | 1.198E-17 | 9.35184E-14 | | |
| Methylcyclopentane | 1.07222E-08 | 1.46822E-12 | 7.54479E-09 | | |
| Benzene | 0.00100339 | 9.53301E-08 | 8.20656E-06 | | |
| Cyclohexane | 8.26028E-08 | 8.03484E-12 | 2.54176E-08 | | |
| Methylcyclohexane | 3.73531E-10 | 1.72719E-14 | 2.64957E-10 | | |
| Toluene | 0.000157098 | 4.46619E-09 | 1.63346E-06 | | |
| 2,2-Dimethylpropane | 6.62818E-11 | 8.46314E-14 | 1.62346E-10 | | |
| 2-Methylpentane | 8.42431E-11 | 1.77506E-14 | 7.68715E-10 | | |
| 3-Methylpentane | 1.15255E-10 | 2.17207E-14 | 4.6072E-10 | | |
| 2,3-Dimethylbutane | 3.1018E-11 | 7.25614E-15 | 1.37558E-10 | | |
| 1,1-Dimethylcyclopentane | 4.99943E-10 | 3.77446E-14 | 3.46862E-10 | | |
| 2,3-Dimethylpentane | 7.04768E-13 | 4.84191E-17 | 3.44388E-14 | | |
| 2-Methylhexane | 2.71795E-13 | 1.78803E-17 | 2.19634E-14 | | |
| cis-1,3-Dimethylcyclopentane | 1.14937E-10 | 7.57929E-15 | 7.63194E-11 | | |
| trans-1,3-Dimethylcyclopentane | 1.78163E-10 | 1.14597E-14 | 9.12849E-11 | | |
| 2,2,4-Trimethylpentane | 1.11509E-13 | 5.49437E-18 | 1.76952E-14 | | |
| 2-Methylheptane | 9.70659E-15 | 2.00153E-19 | 1.17968E-15 | | |
| cis-1,2-Dimethylcyclohexane | 1.88172E-12 | 2.72514E-17 | 5.53986E-14 | | |
| m-Xylene | 1.59433E-05 | 1.32527E-10 | 2.54549E-07 | | |
| p-Xylene | 1.72575E-05 | 1.53268E-10 | 2.60254E-07 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (2-T) | | |

| Mass Flow | To 2-LOAD lb/h | Working lb/h | 5 lb/h | | |
|---|---|---|---|---|---|
| Ethylcyclohexane | 1.16087E-10 | 1.4893E-15 | 6.20367E-11 | | |
| Water | 1893.92 | 0.0451494 | 0.00173944 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 6.96632 | 5.04033E-08 | 5.36251E-06 | | |
| Piperazine | 0 | 0 | 0 | | |

## Stream Properties

| Property | Units | To 2-LOAD | Working | 5 | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 80 | 80 | 80 | | |
| Pressure | psia | 12.76 | 12.76 | 12.76 | | |
| Molecular Weight | lb/lbmol | 18.0833 | 28.4346 | 40.5932 | | |
| Mass Density | lb/ft^3 | 62.2052 | 0.13759 | 0.0900887 | | |
| Mass Flow | lb/h | 1903.21 | 0.12709 | 0.0929835 | | |
| Std Vapor Volumetric Flow | MMSCFD | 0.958546 | 4.07069E-05 | 2.08621E-05 | | |
| Std Liquid Volumetric Flow | sgpm | 3.80518 | 0.000291572 | 0.000227744 | | |
| Specific Gravity | | 0.997377 | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 52.6025 | 92.3436 | 151.558 | | |

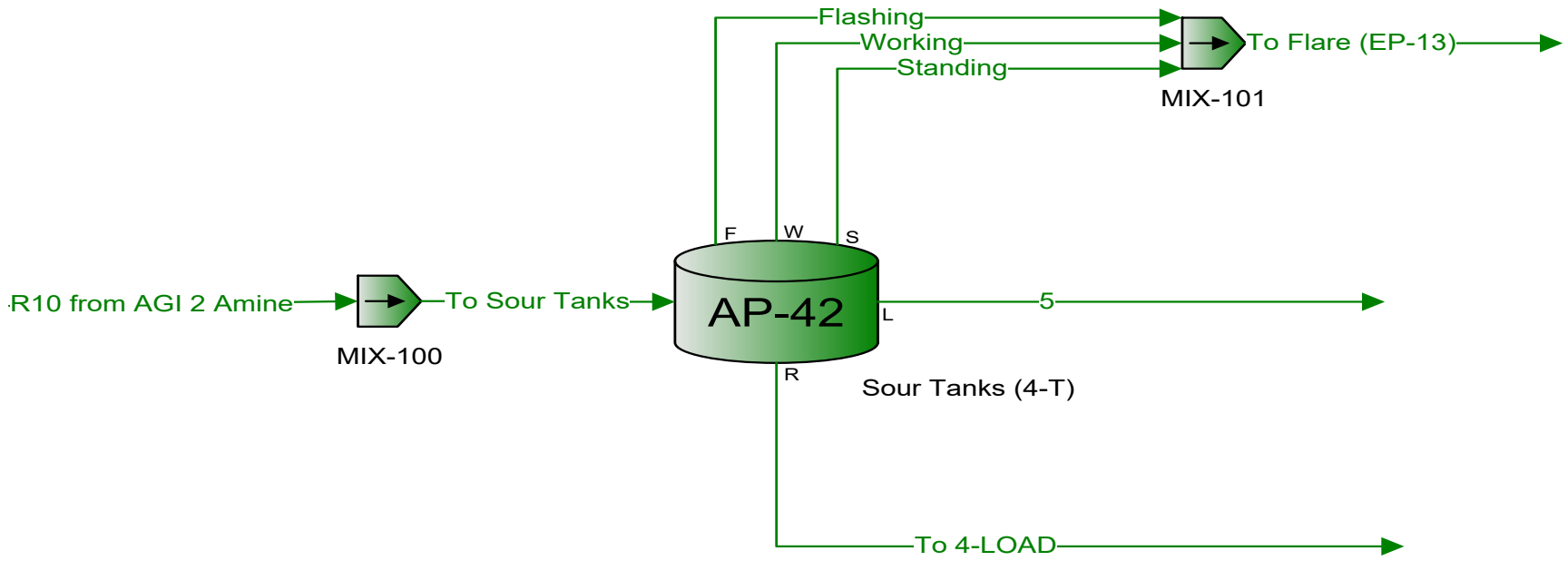
**Remarks**


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# Sour Tanks (4-T)
## Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Sour Tanks (4-T) | |

## Targa Northern Delaware, LLC – Red Hills Gas Processing Plant





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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

## Connections

| | Flashing | R10 from AGI 2 Amine | Standing | To Flare (EP-13) | To Sour Tanks |
|---|---|---|---|---|---|
| From Block | Sour Tanks (4-T) | -- | Sour Tanks (4-T) | MIX-101 | MIX-100 |
| To Block | MIX-101 | MIX-100 | MIX-101 | -- | Sour Tanks (4-T) |

## Stream Composition

| Mole Fraction | Flashing % | R10 from AGI 2 Amine % | | Standing % | To Flare (EP-13) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| H2S | 22.6678 | 0.0390304 | * | 9.99101 | 21.4899 | 0.0390304 |
| Carbon Dioxide | 73.2852 | 0.0647288 | * | 33.666 | 69.604 | 0.0647288 |
| Nitrogen | 1.91912E-05 | 9.3265E-09 | * | 1.13406E-07 | 1.74186E-05 | 9.3265E-09 |
| Methane | 0.0191995 | 9.53355E-06 | * | 0.000315587 | 0.0174449 | 9.53355E-06 |
| Ethane | 0.0069758 | 3.5315E-06 | * | 0.000145097 | 0.00634113 | 3.5315E-06 |
| Propane | 0.0019044 | 9.47247E-07 | * | 6.99397E-06 | 0.0017281 | 9.47247E-07 |
| Isobutane | 0.000113958 | 5.59151E-08 | * | 1.03183E-07 | 0.000103379 | 5.59151E-08 |
| n-Butane | 0.000756556 | 3.75153E-07 | * | 6.31751E-07 | 0.00068632 | 3.75153E-07 |
| Isopentane | 1.8552E-05 | 9.0875E-09 | * | 4.16242E-09 | 1.68286E-05 | 9.0875E-09 |
| n-Pentane | 2.48153E-05 | 1.19582E-08 | * | 1.76813E-09 | 2.25098E-05 | 1.19582E-08 |
| Hexane | 1.13338E-06 | 5.43938E-10 | * | 1.59904E-11 | 1.02808E-06 | 5.43938E-10 |
| n-Heptane | 3.9851E-08 | 1.90829E-11 | * | 1.24103E-13 | 3.61483E-08 | 1.90829E-11 |
| n-Octane | 7.38134E-09 | 3.52266E-12 | * | 2.86527E-15 | 6.69551E-09 | 3.52266E-12 |
| Methylcyclopentane | 5.14824E-06 | 2.61288E-09 | * | 5.26394E-10 | 4.66994E-06 | 2.61288E-09 |
| Benzene | 0.00406598 | 1.29166E-05 | * | 2.46873E-05 | 0.00369049 | 1.29166E-05 |
| Cyclohexane | 1.63388E-05 | 8.96245E-09 | * | 2.72894E-09 | 1.4821E-05 | 8.96245E-09 |
| Methylcyclohexane | 1.52061E-07 | 7.71197E-11 | * | 5.18979E-12 | 1.37933E-07 | 7.71197E-11 |
| Toluene | 0.00070937 | 1.80984E-06 | * | 9.9044E-07 | 0.000643552 | 1.80984E-06 |
| 2,2-Dimethylpropane | 1.3049E-07 | 6.3307E-11 | * | 3.61261E-11 | 1.18369E-07 | 6.3307E-11 |
| 2-Methylpentane | 5.01666E-07 | 2.39958E-10 | * | 5.87891E-12 | 4.55055E-07 | 2.39958E-10 |
| 3-Methylpentane | 2.99769E-07 | 1.44336E-10 | * | 7.37728E-12 | 2.71917E-07 | 1.44336E-10 |
| 2,3-Dimethylbutane | 8.96176E-08 | 4.31005E-11 | * | 2.46359E-12 | 8.12911E-08 | 4.31005E-11 |
| 1,1-Dimethylcyclopentane | 2.01757E-07 | 1.02516E-10 | * | 1.15862E-11 | 1.83012E-07 | 1.02516E-10 |
| 2,3-Dimethylpentane | 1.09653E-09 | 5.3082E-13 | * | 1.4474E-14 | 9.94649E-10 | 5.3082E-13 |
| 2-Methylhexane | 2.34508E-09 | 1.11945E-12 | * | 5.07811E-15 | 2.12719E-09 | 1.11945E-12 |
| cis-1,3-Dimethylcyclopentane | 4.42948E-08 | 2.25712E-11 | * | 2.3222E-12 | 4.01794E-08 | 2.25712E-11 |
| trans-1,3-Dimethylcyclopentane | 5.29845E-08 | 2.75347E-11 | * | 3.52448E-12 | 4.80618E-08 | 2.75347E-11 |
| 2,2,4-Trimethylpentane | 2.69074E-10 | 1.29217E-13 | * | 1.3355E-15 | 2.44074E-10 | 1.29217E-13 |
| 2-Methylheptane | 1.26152E-10 | 6.01402E-14 | * | 4.67068E-17 | 1.1443E-10 | 6.01402E-14 |
| cis-1,2-Dimethylcyclohexane | 2.46771E-09 | 1.19502E-12 | * | 7.01264E-15 | 2.23843E-09 | 1.19502E-12 |
| m-Xylene | 0.000108684 | 1.89074E-07 | * | 2.70172E-08 | 9.85884E-05 | 1.89074E-07 |
| p-Xylene | 0.000108639 | 2.00303E-07 | * | 3.12305E-08 | 9.85476E-05 | 2.00303E-07 |
| Ethylcyclohexane | 2.97743E-08 | 1.54303E-11 | * | 3.82113E-13 | 2.70079E-08 | 1.54303E-11 |
| Water | 4.01109 | 99.8752 | * | 56.3425 | 8.87342 | 99.8752 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.0018716 | 0.0210003 | * | 3.59562E-06 | 0.00169804 | 0.0210003 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

| Mass Fraction | Flashing % | R10 from AGI 2 Amine % | | Standing % | To Flare (EP-13) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| H2S | 18.9751 | 0.0736555 | * | 12.0015 | 18.5105 | 0.0736555 |
| Carbon Dioxide | 79.2184 | 0.157738 | * | 52.222 | 77.4198 | 0.157738 |
| Nitrogen | 1.32048E-05 | 1.44669E-08 | * | 1.11974E-07 | 1.23325E-05 | 1.44669E-08 |
| Methane | 0.00756528 | 8.4687E-06 | * | 0.000178446 | 0.00707313 | 8.4687E-06 |
| Ethane | 0.00515201 | 5.8799E-06 | * | 0.000153777 | 0.00481901 | 5.8799E-06 |
| Propane | 0.00206261 | 2.31286E-06 | * | 1.08701E-05 | 0.00192591 | 2.31286E-06 |
| Isobutane | 0.000162686 | 1.79954E-07 | * | 2.11381E-07 | 0.000151861 | 1.79954E-07 |
| n-Butane | 0.00108006 | 1.20737E-06 | * | 1.29421E-06 | 0.00100818 | 1.20737E-06 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

| Mass Fraction | Flashing % | R10 from AGI 2 Amine % | | Standing % | To Flare (EP-13) % | To Sour Tanks % |
|---|---|---|---|---|---|---|
| Isopentane | 3.28763E-05 | 3.63049E-08 | * | 1.0585E-08 | 3.06866E-05 | 3.63049E-08 |
| n-Pentane | 4.39757E-05 | 4.77734E-08 | * | 4.49633E-09 | 4.10461E-05 | 4.77734E-08 |
| Hexane | 2.39896E-06 | 2.59552E-09 | * | 4.85688E-11 | 2.23913E-06 | 2.59552E-09 |
| n-Heptane | 9.80797E-08 | 1.05879E-10 | * | 4.38301E-13 | 9.15452E-08 | 1.05879E-10 |
| n-Octane | 2.07097E-08 | 2.22811E-11 | * | 1.1536E-14 | 1.93299E-08 | 2.22811E-11 |
| Methylcyclopentane | 1.0642E-05 | 1.21763E-08 | * | 1.56145E-09 | 9.93313E-06 | 1.21763E-08 |
| Benzene | 0.00780091 | 5.58671E-05 | * | 6.79681E-05 | 0.00728571 | 5.58671E-05 |
| Cyclohexane | 3.37744E-05 | 4.17658E-08 | * | 8.09491E-09 | 3.15247E-05 | 4.17658E-08 |
| Methylcyclohexane | 3.66718E-07 | 4.19282E-10 | * | 1.79604E-11 | 3.42286E-07 | 4.19282E-10 |
| Toluene | 0.00160538 | 9.23362E-06 | * | 3.21651E-06 | 0.00149863 | 9.23362E-06 |
| 2,2-Dimethylpropane | 2.31244E-07 | 2.52913E-10 | * | 9.18683E-11 | 2.15843E-07 | 2.52913E-10 |
| 2-Methylpentane | 1.06185E-06 | 1.14501E-09 | * | 1.78565E-11 | 9.91102E-07 | 1.14501E-09 |
| 3-Methylpentane | 6.34503E-07 | 6.8873E-10 | * | 2.24076E-11 | 5.92231E-07 | 6.8873E-10 |
| 2,3-Dimethylbutane | 1.89688E-07 | 2.05663E-10 | * | 7.48286E-12 | 1.7705E-07 | 2.05663E-10 |
| 1,1-Dimethylcyclopentane | 4.86567E-07 | 5.57356E-10 | * | 4.00966E-11 | 4.54152E-07 | 5.57356E-10 |
| 2,3-Dimethylpentane | 2.69874E-09 | 2.9452E-12 | * | 5.11189E-14 | 2.51894E-09 | 2.9452E-12 |
| 2-Methylhexane | 5.7716E-09 | 6.21115E-12 | * | 1.79347E-14 | 5.38707E-09 | 6.21115E-12 |
| cis-1,3-Dimethylcyclopentane | 1.06823E-07 | 1.22714E-10 | * | 8.03645E-12 | 9.97066E-08 | 1.22714E-10 |
| trans-1,3-Dimethylcyclopentane | 1.2778E-07 | 1.497E-10 | * | 1.21972E-11 | 1.19267E-07 | 1.497E-10 |
| 2,2,4-Trimethylpentane | 7.54936E-10 | 8.17307E-13 | * | 5.37692E-15 | 7.04639E-10 | 8.17307E-13 |
| 2-Methylheptane | 3.53941E-10 | 3.80391E-13 | * | 1.88049E-16 | 3.30359E-10 | 3.80391E-13 |
| cis-1,2-Dimethylcyclohexane | 6.80141E-09 | 7.4252E-12 | * | 2.77357E-14 | 6.34827E-09 | 7.4252E-12 |
| m-Xylene | 0.000283407 | 1.11149E-06 | * | 1.01097E-07 | 0.000264532 | 1.11149E-06 |
| p-Xylene | 0.000283289 | 1.1775E-06 | * | 1.16863E-07 | 0.000264423 | 1.1775E-06 |
| Ethylcyclohexane | 8.20628E-08 | 9.58754E-11 | * | 1.5113E-12 | 7.65955E-08 | 9.58754E-11 |
| Water | 1.77487 | 99.63 | * | 35.7761 | 4.0402 | 99.63 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.00547792 | 0.138566 | * | 1.51018E-05 | 0.00511396 | 0.138566 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

| Mass Flow | Flashing lb/h | R10 from AGI 2 Amine lb/h | | Standing lb/h | To Flare (EP-13) lb/h | To Sour Tanks lb/h |
|---|---|---|---|---|---|---|
| H2S | 0.678853 | 15.1239 | * | 0.00413238 | 0.709502 | 2.45578 |
| Carbon Dioxide | 2.83412 | 32.3886 | * | 0.0179812 | 2.96749 | 5.2592 |
| Nitrogen | 4.72414E-07 | 2.97053E-06 | * | 3.8555E-11 | 4.727E-07 | 4.82348E-07 |
| Methane | 0.000270656 | 0.0017389 | * | 6.14427E-08 | 0.000271112 | 0.000282359 |
| Ethane | 0.000184319 | 0.00120733 | * | 5.29488E-08 | 0.000184712 | 0.000196044 |
| Propane | 7.37921E-05 | 0.000474906 | * | 3.74282E-09 | 7.38198E-05 | 7.71142E-05 |
| Isobutane | 5.82026E-06 | 3.69505E-05 | * | 7.27832E-11 | 5.8208E-06 | 5.99994E-06 |
| n-Butane | 3.86402E-05 | 0.000247913 | * | 4.45624E-10 | 3.86435E-05 | 4.02556E-05 |
| Isopentane | 1.17618E-06 | 7.45456E-06 | * | 3.64464E-12 | 1.17621E-06 | 1.21046E-06 |
| n-Pentane | 1.57328E-06 | 9.80942E-06 | * | 1.54818E-12 | 1.57329E-06 | 1.59283E-06 |
| Hexane | 8.58253E-08 | 5.32944E-07 | * | 1.67233E-14 | 8.58254E-08 | 8.65382E-08 |
| n-Heptane | 3.50891E-09 | 2.17405E-08 | * | 1.50917E-16 | 3.50891E-09 | 3.53017E-09 |
| n-Octane | 7.4091E-10 | 4.57503E-09 | * | 3.9721E-18 | 7.4091E-10 | 7.42884E-10 |
| Methylcyclopentane | 3.80731E-07 | 2.50018E-06 | * | 5.37643E-13 | 3.80735E-07 | 4.05974E-07 |
| Benzene | 0.000279086 | 0.0114713 | * | 2.34029E-08 | 0.00027926 | 0.00186269 |
| Cyclohexane | 1.20831E-06 | 8.57588E-06 | * | 2.78725E-12 | 1.20834E-06 | 1.39253E-06 |
| Methylcyclohexane | 1.31197E-08 | 8.60922E-08 | * | 6.18415E-15 | 1.31198E-08 | 1.39795E-08 |
| Toluene | 5.74341E-05 | 0.00189596 | * | 1.10751E-09 | 5.74423E-05 | 0.000307862 |
| 2,2-Dimethylpropane | 8.27299E-09 | 5.19313E-08 | * | 3.16323E-14 | 8.27323E-09 | 8.4325E-09 |
| 2-Methylpentane | 3.79887E-08 | 2.35108E-07 | * | 6.14837E-15 | 3.79887E-08 | 3.81763E-08 |
| 3-Methylpentane | 2.27E-08 | 1.41419E-07 | * | 7.71542E-15 | 2.27001E-08 | 2.29633E-08 |
| 2,3-Dimethylbutane | 6.78629E-09 | 4.22293E-08 | * | 2.57651E-15 | 6.78631E-09 | 6.85711E-09 |
| 1,1-Dimethylcyclopentane | 1.74074E-08 | 1.14443E-07 | * | 1.38061E-14 | 1.74075E-08 | 1.85831E-08 |
| 2,3-Dimethylpentane | 9.65502E-11 | 6.04745E-10 | * | 1.76014E-17 | 9.65503E-11 | 9.81972E-11 |
| 2-Methylhexane | 2.06485E-10 | 1.27535E-09 | * | 6.1753E-18 | 2.06485E-10 | 2.07089E-10 |
| cis-1,3-Dimethylcyclopentane | 3.82171E-09 | 2.51973E-08 | * | 2.76713E-15 | 3.82173E-09 | 4.09148E-09 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

| Mass Flow | Flashing lb/h | R10 from AGI 2 Amine lb/h | | Standing lb/h | To Flare (EP-13) lb/h | To Sour Tanks lb/h |
|---|---|---|---|---|---|---|
| trans-1,3-Dimethylcyclopentane | 4.57146E-09 | 3.07382E-08 | * | 4.19976E-15 | 4.57149E-09 | 4.99121E-09 |
| 2,2,4-Trimethylpentane | 2.70087E-11 | 1.6782E-10 | * | 1.85139E-18 | 2.70087E-11 | 2.72502E-11 |
| 2-Methylheptane | 1.26626E-11 | 7.81067E-11 | * | 6.47493E-20 | 1.26626E-11 | 1.26828E-11 |
| cis-1,2-Dimethylcyclohexane | 2.43328E-10 | 1.52463E-09 | * | 9.55E-18 | 2.43328E-10 | 2.47567E-10 |
| m-Xylene | 1.01392E-05 | 0.000228224 | * | 3.48098E-11 | 1.01395E-05 | 3.70586E-05 |
| p-Xylene | 1.0135E-05 | 0.000241778 | * | 4.02384E-11 | 1.01353E-05 | 3.92595E-05 |
| Ethylcyclohexane | 2.93588E-09 | 1.96863E-08 | * | 5.20372E-16 | 2.93589E-09 | 3.19663E-09 |
| Water | 0.063498 | 20457.3 | * | 0.0123185 | 0.15486 | 3321.81 |
| CHEMTHERM 550 | 0 | 0 | * | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | * | 0 | 0 | 0 |
| MDEA | 0.000195979 | 28.452 | * | 5.19987E-09 | 0.000196017 | 4.61998 |
| Piperazine | 0 | 0 | * | 0 | 0 | 0 |

## Stream Properties

| Property | Units | Flashing | R10 from AGI 2 Amine | | Standing | To Flare (EP-13) | To Sour Tanks |
|---|---|---|---|---|---|---|---|
| Temperature | °F | 80 | 119.999 | * | 80 | 80.0001 | 119.999 |
| Pressure | psia | 12.76 | 26.6959 | * | 12.76 | 12.76 | 26.6959 |
| Molecular Weight | lb/lbmol | 40.7133 | 18.0596 | | 28.3716 | 39.5666 | 18.0596 |
| Mass Density | lb/ft^3 | 0.0901622 | 50.368 | | 0.138136 | 0.0922979 | 50.368 |
| Mass Flow | lb/h | 3.57761 | 20533.2 | | 0.0344322 | 3.83298 | 3334.14 |
| Std Vapor Volumetric Flow | MMSCFD | 0.000800315 | 10.3551 | | 1.10531E-05 | 0.000882292 | 1.68144 |
| Std Liquid Volumetric Flow | sgpm | 0.00876343 | 41.0672 | * | 7.89554E-05 | 0.00934902 | 6.66841 |
| Specific Gravity | | 1.40573 | | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 147.099 | 51.3169 | | 92.0057 | 141.98 | 51.3169 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

## Connections

| | To 4-LOAD | Working | 5 | | |
|---|---|---|---|---|---|
| From Block | Sour Tanks (4-T) | Sour Tanks (4-T) | Sour Tanks (4-T) | | |
| To Block | -- | MIX-101 | -- | | |

## Stream Composition

| Mole Fraction | To 4-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| H2S | 0.0277687 | 9.99101 | 23.3069 | | |
| Carbon Dioxide | 0.0282206 | 33.666 | 72.4614 | | |
| Nitrogen | 1.86633E-10 | 1.13406E-07 | 1.95072E-05 | | |
| Methane | 3.79948E-07 | 0.000315587 | 0.0193101 | | |
| Ethane | 2.04254E-07 | 0.000145097 | 0.00705479 | | |
| Propane | 4.04883E-08 | 6.99397E-06 | 0.00197586 | | |
| Isobutane | 1.67031E-09 | 1.03183E-07 | 0.000118863 | | |
| n-Butane | 1.50315E-08 | 6.31751E-07 | 0.000789861 | | |
| Isopentane | 2.57234E-10 | 4.16242E-09 | 1.93913E-05 | | |
| n-Pentane | 1.46805E-10 | 1.76813E-09 | 2.59443E-05 | | |
| Hexane | 4.48284E-12 | 1.59904E-11 | 1.18529E-06 | | |
| n-Heptane | 1.15018E-13 | 1.24103E-13 | 4.16768E-08 | | |
| n-Octane | 9.36294E-15 | 2.86527E-15 | 4.32397E-11 | | |
| Methylcyclopentane | 1.62527E-10 | 5.26394E-10 | 5.38399E-06 | | |
| Benzene | 1.09859E-05 | 2.46873E-05 | 0.00425178 | | |
| Cyclohexane | 1.18613E-09 | 2.72894E-09 | 1.70872E-05 | | |
| Methylcyclohexane | 4.74521E-12 | 5.18979E-12 | 1.59023E-07 | | |
| Toluene | 1.47292E-06 | 9.9044E-07 | 0.000741775 | | |
| 2,2-Dimethylpropane | 1.19637E-12 | 3.61261E-11 | 1.36305E-07 | | |
| 2-Methylpentane | 1.17963E-12 | 5.87891E-12 | 5.24637E-07 | | |
| 3-Methylpentane | 1.65504E-12 | 7.37728E-12 | 3.13487E-07 | | |
| 2,3-Dimethylbutane | 4.45253E-13 | 2.46359E-12 | 9.37155E-08 | | |
| 1,1-Dimethylcyclopentane | 6.48826E-12 | 1.15862E-11 | 2.10997E-07 | | |
| 2,3-Dimethylpentane | 8.90718E-15 | 1.4474E-14 | 1.99023E-11 | | |
| 2-Methylhexane | 3.26355E-15 | 5.07811E-15 | 1.20589E-11 | | |
| cis-1,3-Dimethylcyclopentane | 1.48885E-12 | 2.3222E-12 | 4.63233E-08 | | |
| trans-1,3-Dimethylcyclopentane | 2.31665E-12 | 3.52448E-12 | 5.54102E-08 | | |
| 2,2,4-Trimethylpentane | 1.14592E-15 | 1.3355E-15 | 8.31492E-12 | | |
| 2-Methylheptane | 9.57641E-17 | 4.67068E-17 | 5.32181E-13 | | |
| cis-1,2-Dimethylcyclohexane | 2.04722E-14 | 7.01264E-15 | 2.75596E-11 | | |
| m-Xylene | 1.37414E-07 | 2.70172E-08 | 0.000113642 | | |
| p-Xylene | 1.48671E-07 | 3.12305E-08 | 0.000113593 | | |
| Ethylcyclohexane | 1.25925E-12 | 3.82113E-13 | 3.1134E-08 | | |
| Water | 99.923 | 56.3425 | 4.19523 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 0.0210104 | 3.59562E-06 | 0.00195552 | | |
| Piperazine | 0 | 0 | 0 | | |

| Mass Fraction | To 4-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| H2S | 0.0524359 | 12.0015 | 19.5635 | | |
| Carbon Dioxide | 0.0688138 | 52.222 | 78.5424 | | |
| Nitrogen | 2.89679E-10 | 1.11974E-07 | 1.3459E-05 | | |
| Methane | 3.37721E-07 | 0.000178446 | 0.00762969 | | |
| Ethane | 3.40293E-07 | 0.000153777 | 0.00522462 | | |
| Propane | 9.89208E-08 | 1.08701E-05 | 0.00214587 | | |
| Isobutane | 5.37899E-09 | 2.11381E-07 | 0.000170153 | | |
| n-Butane | 4.8407E-08 | 1.29421E-06 | 0.00113069 | | |
| Isopentane | 1.0283E-09 | 1.0585E-08 | 3.44578E-05 | | |
| n-Pentane | 5.86857E-10 | 4.49633E-09 | 4.61023E-05 | | |
| Hexane | 2.14042E-11 | 4.85688E-11 | 2.51571E-06 | | |
| n-Heptane | 6.38566E-13 | 4.38301E-13 | 1.02854E-07 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

| Mass Fraction | To 4-LOAD % | Working % | 5 % | | |
|---|---|---|---|---|---|
| n-Octane | 5.92584E-14 | 1.1536E-14 | 1.21649E-10 | | |
| Methylcyclopentane | 7.57865E-10 | 1.56145E-09 | 1.11599E-05 | | |
| Benzene | 4.7546E-05 | 6.79681E-05 | 0.00817973 | | |
| Cyclohexane | 5.53094E-09 | 8.09491E-09 | 3.54181E-05 | | |
| Methylcyclohexane | 2.58147E-11 | 1.79604E-11 | 3.84557E-07 | | |
| Toluene | 7.51942E-06 | 3.21651E-06 | 0.00168331 | | |
| 2,2-Dimethylpropane | 4.78254E-12 | 9.18683E-11 | 2.42211E-07 | | |
| 2-Methylpentane | 5.63238E-12 | 1.78565E-11 | 1.11351E-06 | | |
| 3-Methylpentane | 7.90234E-12 | 2.24076E-11 | 6.65355E-07 | | |
| 2,3-Dimethylbutane | 2.12595E-12 | 7.48286E-12 | 1.98905E-07 | | |
| 1,1-Dimethylcyclopentane | 3.52972E-11 | 4.00966E-11 | 5.10242E-07 | | |
| 2,3-Dimethylpentane | 4.94515E-14 | 5.11189E-14 | 4.91168E-11 | | |
| 2-Methylhexane | 1.81188E-14 | 1.79347E-14 | 2.97602E-11 | | |
| cis-1,3-Dimethylcyclopentane | 8.0996E-12 | 8.03645E-12 | 1.12021E-07 | | |
| trans-1,3-Dimethylcyclopentane | 1.2603E-11 | 1.21972E-11 | 1.33996E-07 | | |
| 2,2,4-Trimethylpentane | 7.2526E-15 | 5.37692E-15 | 2.33929E-11 | | |
| 2-Methylheptane | 6.06094E-16 | 1.88049E-16 | 1.49722E-12 | | |
| cis-1,2-Dimethylcyclohexane | 1.27283E-13 | 2.77357E-14 | 7.6167E-11 | | |
| m-Xylene | 8.08307E-07 | 1.01097E-07 | 0.000297148 | | |
| p-Xylene | 8.74519E-07 | 1.16863E-07 | 0.00029702 | | |
| Ethylcyclohexane | 7.82921E-12 | 1.5113E-12 | 8.60454E-08 | | |
| Water | 99.74 | 35.7761 | 1.86144 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 0.138719 | 1.51018E-05 | 0.0057392 | | |
| Piperazine | 0 | 0 | 0 | | |

| Mass Flow | To 4-LOAD lb/h | Working lb/h | 5 lb/h | | |
|---|---|---|---|---|---|
| H2S | 1.74628 | 0.0265161 | 0.031775 | | |
| Carbon Dioxide | 2.29171 | 0.115379 | 0.127568 | | |
| Nitrogen | 9.6472E-09 | 2.47395E-10 | 2.186E-08 | | |
| Methane | 1.12472E-05 | 3.94258E-07 | 1.23921E-05 | | |
| Ethane | 1.13328E-05 | 3.39756E-07 | 8.48582E-06 | | |
| Propane | 3.29437E-06 | 2.40165E-08 | 3.48531E-06 | | |
| Isobutane | 1.79137E-07 | 4.67026E-10 | 2.76361E-07 | | |
| n-Butane | 1.6121E-06 | 2.85942E-09 | 1.83647E-06 | | |
| Isopentane | 3.42457E-08 | 2.33865E-11 | 5.59663E-08 | | |
| n-Pentane | 1.95442E-08 | 9.93419E-12 | 7.48792E-08 | | |
| Hexane | 7.12826E-10 | 1.07308E-13 | 4.086E-09 | | |
| n-Heptane | 2.12662E-11 | 9.68383E-16 | 1.67056E-10 | | |
| n-Octane | 1.97349E-12 | 2.54877E-17 | 1.97582E-13 | | |
| Methylcyclopentane | 2.52393E-08 | 3.44988E-12 | 1.81258E-08 | | |
| Benzene | 0.00158343 | 1.50169E-07 | 1.32855E-05 | | |
| Cyclohexane | 1.84197E-07 | 1.78849E-11 | 5.7526E-08 | | |
| Methylcyclohexane | 8.59711E-10 | 3.96817E-14 | 6.24596E-10 | | |
| Toluene | 0.00025042 | 7.10655E-09 | 2.73403E-06 | | |
| 2,2-Dimethylpropane | 1.59274E-10 | 2.02974E-13 | 3.93398E-10 | | |
| 2-Methylpentane | 1.87576E-10 | 3.94521E-14 | 1.80856E-09 | | |
| 3-Methylpentane | 2.63172E-10 | 4.95073E-14 | 1.08067E-09 | | |
| 2,3-Dimethylbutane | 7.08006E-11 | 1.65326E-14 | 3.23061E-10 | | |
| 1,1-Dimethylcyclopentane | 1.17551E-09 | 8.85894E-14 | 8.28734E-10 | | |
| 2,3-Dimethylpentane | 1.64689E-12 | 1.12942E-16 | 7.97754E-14 | | |
| 2-Methylhexane | 6.03413E-13 | 3.96249E-17 | 4.83363E-14 | | |
| cis-1,3-Dimethylcyclopentane | 2.69742E-10 | 1.77557E-14 | 1.81945E-10 | | |
| trans-1,3-Dimethylcyclopentane | 4.19719E-10 | 2.69485E-14 | 2.17635E-10 | | |
| 2,2,4-Trimethylpentane | 2.41534E-13 | 1.18798E-17 | 3.79947E-14 | | |
| 2-Methylheptane | 2.01848E-14 | 4.15475E-19 | 2.43178E-15 | | |
| cis-1,2-Dimethylcyclohexane | 4.23891E-12 | 6.12793E-17 | 1.2371E-13 | | |
| m-Xylene | 2.69191E-05 | 2.23363E-10 | 4.82627E-07 | | |
| p-Xylene | 2.91242E-05 | 2.58197E-10 | 4.82419E-07 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Sour Tanks (4-T) | | |

| Mass Flow | To 4-LOAD lb/h | Working lb/h | 5 lb/h | | |
|---|---|---|---|---|---|
| Ethylcyclohexane | 2.60737E-10 | 3.33906E-15 | 1.39755E-10 | | |
| Water | 3321.65 | 0.0790437 | 0.00302334 | | |
| CHEMTHERM 550 | 0 | 0 | 0 | | |
| UCARSOL™ AP-814 | 0 | 0 | 0 | | |
| MDEA | 4.61978 | 3.33658E-08 | 9.32159E-06 | | |
| Piperazine | 0 | 0 | 0 | | |

## Stream Properties

| Property | Units | To 4-LOAD | Working | 5 | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 80 | 80 | 80 | | |
| Pressure | psia | 12.76 | 12.76 | 12.76 | | |
| Molecular Weight | lb/lbmol | 18.0483 | 28.3716 | 40.6021 | | |
| Mass Density | lb/ft^3 | 62.1957 | 0.138136 | 0.0900896 | | |
| Mass Flow | lb/h | 3330.31 | 0.22094 | 0.16242 | | |
| Std Vapor Volumetric Flow | MMSCFD | 1.68055 | 7.09243E-05 | 3.6433E-05 | | |
| Std Liquid Volumetric Flow | sgpm | 6.65906 | 0.000506631 | 0.000397842 | | |
| Specific Gravity | | 0.997225 | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 51.2693 | 92.0057 | 151.281 | | |

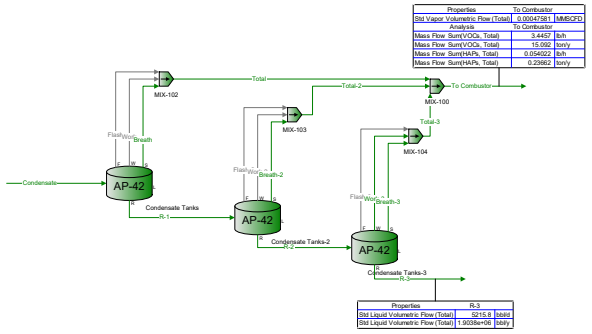
**Remarks**

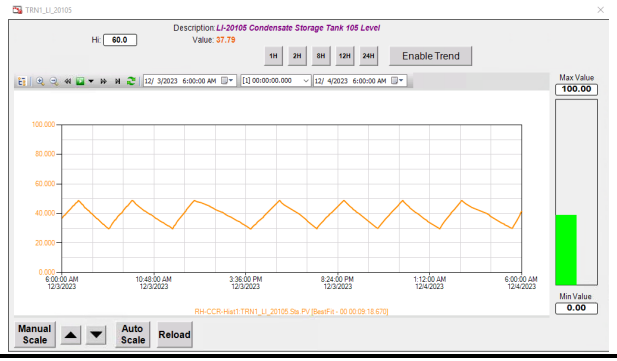

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# Tanks
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Tanks | |

**Targa Northern Delaware, LLC – Red Hills Gas Processing Plant**




* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Tanks | | |

## Connections

| | Breath | Breath-2 | Breath-3 | Condensate | Flash |
|---|---|---|---|---|---|
| From Block | Condensate Tanks | Condensate Tanks-2 | Condensate Tanks-3 | -- | Condensate Tanks |
| To Block | MIX-102 | MIX-103 | MIX-104 | Condensate Tanks | MIX-102 |

## Stream Composition

| Mole Fraction | Breath % | Breath-2 % | Breath-3 % | Condensate % | Flash % |
|---|---|---|---|---|---|
| Nitrogen | 9.59407 | 9.5934 | 9.58492 | 0.074 * | 63.8329 |
| Methane | 0 | 0 | 0 | 0 * | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 * | 0 |
| Ethane | 1.47162 | 1.47152 | 1.47017 | 0.011 * | 0.416758 |
| Propane | 7.32935 | 7.32929 | 7.32851 | 0.228 * | 2.54798 |
| Isobutane | 2.28828 | 2.28829 | 2.28843 | 0.203 * | 0.822334 |
| n-Butane | 10.473 | 10.4731 | 10.474 | 1.376 * | 3.80997 |
| Isopentane | 16.7778 | 16.7779 | 16.7801 | 5.891 * | 6.64561 |
| n-Pentane | 21.9705 | 21.9707 | 21.9737 | 10.484 * | 8.8666 |
| i-Hexane | 11.9725 | 11.9727 | 11.9744 | 14.171 * | 4.99086 |
| n-Hexane | 6.63653 | 6.6366 | 6.63758 | 11.118 * | 2.69095 |
| Benzene | 0.807828 | 0.807837 | 0.807957 | 2.186 * | 0.531997 |
| Cyclohexane | 2.53198 | 2.53201 | 2.53238 | 6.648 * | 1.28087 |
| i-Heptane | 3.96008 | 3.96013 | 3.96072 | 15.613 * | 1.68691 |
| n-Heptane | 0.955986 | 0.955997 | 0.95614 | 5.516 * | 0.402441 |
| Toluene | 0.368349 | 0.368353 | 0.368409 | 3.449 * | 0.243427 |
| i-Octane | 2.64894 | 2.64897 | 2.64937 | 13.978 * | 1.11616 |
| n-Octane | 0.0713711 | 0.0713719 | 0.0713827 | 1.523 * | 0.0345863 |
| Ethylbenzene | 0.0140326 | 0.0140327 | 0.0140349 | 0.409 * | 0.00888352 |
| m-Xylene | 0.045777 | 0.0457775 | 0.0457844 | 1.529 * | 0.0300423 |
| Isononane | 0.0679515 | 0.0679523 | 0.0679626 | 3.179 * | 0.0323413 |
| n-Nonane | 0.00882752 | 0.00882762 | 0.00882895 | 0.71 * | 0.00506031 |
| Decane | 0.00219865 | 0.00219867 | 0.00219901 | 0.634 * | 0.00144703 |
| C10+ | 0.00301571 | 0.00301575 | 0.0030162 | 1.07 * | 0.0018204 |

| Mass Fraction | Breath % | Breath-2 % | Breath-3 % | Condensate % | Flash % |
|---|---|---|---|---|---|
| Nitrogen | 3.89081 | 3.89052 | 3.88678 | 0.0221602 * | 39.866 |
| Methane | 0 | 0 | 0 | 0 * | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 * | 0 |
| Ethane | 0.640601 | 0.640552 | 0.639916 | 0.0035358 * | 0.279381 |
| Propane | 4.67877 | 4.6787 | 4.67786 | 0.107475 * | 2.50486 |
| Isobutane | 1.9254 | 1.9254 | 1.92537 | 0.126129 * | 1.06557 |
| n-Butane | 8.81222 | 8.81223 | 8.81236 | 0.854941 * | 4.93692 |
| Isopentane | 17.524 | 17.5241 | 17.525 | 4.54353 * | 10.6895 |
| n-Pentane | 22.9478 | 22.9479 | 22.9492 | 8.08596 * | 14.2619 |
| i-Hexane | 14.9362 | 14.9363 | 14.9373 | 13.0545 * | 9.58851 |
| n-Hexane | 8.27933 | 8.27938 | 8.27996 | 10.242 * | 5.16989 |
| Benzene | 0.913496 | 0.913501 | 0.913568 | 1.82534 * | 0.926442 |
| Cyclohexane | 3.08485 | 3.08487 | 3.0851 | 5.98094 * | 2.40327 |
| i-Heptane | 5.74449 | 5.74452 | 5.74494 | 16.7239 * | 3.76844 |
| n-Heptane | 1.38675 | 1.38676 | 1.38686 | 5.90848 * | 0.899022 |
| Toluene | 0.491328 | 0.491331 | 0.491368 | 3.39711 * | 0.500037 |
| i-Octane | 4.38045 | 4.38047 | 4.3808 | 17.0685 * | 2.84244 |
| n-Octane | 0.118023 | 0.118024 | 0.118033 | 1.85973 * | 0.0880787 |
| Ethylbenzene | 0.021567 | 0.0215671 | 0.0215688 | 0.464174 * | 0.0210261 |
| m-Xylene | 0.0703557 | 0.0703561 | 0.0703615 | 1.73526 * | 0.0711061 |
| Isononane | 0.126167 | 0.126168 | 0.126177 | 4.35854 * | 0.0924751 |
| n-Nonane | 0.0163902 | 0.0163903 | 0.0163915 | 0.973439 * | 0.0144692 |
| Decane | 0.00452873 | 0.00452875 | 0.0045291 | 0.964304 * | 0.00459005 |
| C10+ | 0.00648871 | 0.00648875 | 0.00648924 | 1.70003 * | 0.00603195 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Tanks | | |

| Mass Flow | Breath lb/h | Breath-2 lb/h | Breath-3 lb/h | Condensate lb/h | Flash lb/h |
|---|---|---|---|---|---|
| Nitrogen | 0.000942421 | 0.0120751 | 0.0198564 | 11.6673 * | 0 |
| Methane | 0 | 0 | 0 | 0 * | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 * | 0 |
| Ethane | 0.000155165 | 0.0019881 | 0.00326914 | 1.86159 * | 0 |
| Propane | 0.00113328 | 0.0145215 | 0.0238978 | 56.5852 * | 0 |
| Isobutane | 0.000466366 | 0.00597593 | 0.00983617 | 66.4065 * | 0 |
| n-Butane | 0.00213447 | 0.0273508 | 0.0450197 | 450.125 * | 0 |
| Isopentane | 0.00424463 | 0.0543902 | 0.0895302 | 2392.16 * | 0 |
| n-Pentane | 0.00555835 | 0.0712241 | 0.117241 | 4257.24 * | 0 |
| i-Hexane | 0.0036178 | 0.0463582 | 0.0763102 | 6873.15 * | 0 |
| n-Hexane | 0.0020054 | 0.025697 | 0.0422999 | 5392.4 * | 0 |
| Benzene | 0.000221265 | 0.00283526 | 0.00466715 | 961.036 * | 0 |
| Cyclohexane | 0.000747205 | 0.00957462 | 0.0157608 | 3148.96 * | 0 |
| i-Heptane | 0.00139141 | 0.0178295 | 0.0293492 | 8805.11 * | 0 |
| n-Heptane | 0.000335895 | 0.00430413 | 0.00708507 | 3110.81 * | 0 |
| Toluene | 0.000119008 | 0.00152496 | 0.00251025 | 1788.57 * | 0 |
| i-Octane | 0.00106102 | 0.0135958 | 0.0223802 | 8986.53 * | 0 |
| n-Octane | 2.85873E-05 | 0.000366315 | 0.000602996 | 979.145 * | 0 |
| Ethylbenzene | 5.22391E-06 | 6.69386E-05 | 0.000110188 | 244.386 * | 0 |
| m-Xylene | 1.70414E-05 | 0.000218367 | 0.000359456 | 913.611 * | 0 |
| Isononane | 3.05598E-05 | 0.00039159 | 0.000644601 | 2294.76 * | 0 |
| n-Nonane | 3.96999E-06 | 5.08711E-05 | 8.37395E-05 | 512.514 * | 0 |
| Decane | 1.09694E-06 | 1.4056E-05 | 2.31378E-05 | 507.704 * | 0 |
| C10+ | 1.57168E-06 | 2.01394E-05 | 3.31516E-05 | 895.064 * | 0 |

## Stream Properties

| Property | Units | Breath | Breath-2 | Breath-3 | Condensate | Flash |
|---|---|---|---|---|---|---|
| Temperature | °F | 75.8692 | 75.8692 | 75.8692 | 109.4 * | 75.8692 |
| Pressure | psia | 12.88 | 12.88 | 12.88 | 13.13 * | 12.88 |
| Molecular Weight | lb/lbmol | 69.0763 | 69.0767 | 69.0819 | 93.5458 | 44.8547 |
| Mass Density | lb/ft^3 | 0.304395 | 0.304407 | 0.304551 | 36.9968 | |
| Mass Flow | lb/h | 0.0242217 | 0.310373 | 0.51087 | 52649.8 | 0 |
| Std Vapor Volumetric Flow | MMSCFD | 3.19361E-06 | 4.09221E-05 | 6.73521E-05 | 5.12598 | 0 |
| Std Liquid Volumetric Flow | sgpm | 7.58609E-05 | 0.000972068 | 0.00160001 | 152.138 * | 0 |
| Specific Gravity | | | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 3668.42 | 3668.45 | 3668.87 | 5069.32 | 1487.16 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Tanks | | |

## Connections

| | Flash-2 | Flash-3 | R-1 | R-2 | R-3 |
|---|---|---|---|---|---|
| From Block | Condensate Tanks-2 | Condensate Tanks-3 | Condensate Tanks | Condensate Tanks-2 | Condensate Tanks-3 |
| To Block | MIX-103 | MIX-104 | Condensate Tanks-2 | Condensate Tanks-3 | -- |

## Stream Composition

| Mole Fraction | Flash-2 % | Flash-3 % | R-1 % | R-2 % | R-3 % |
|---|---|---|---|---|---|
| Nitrogen | 63.8312 | 63.8086 | 0.0739941 | 0.0739181 | 0.073117 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0.416746 | 0.416583 | 0.0109991 | 0.0109874 | 0.0108645 |
| Propane | 2.54806 | 2.54913 | 0.227996 | 0.227939 | 0.227341 |
| Isobutane | 0.822372 | 0.822853 | 0.202999 | 0.202982 | 0.202806 |
| n-Butane | 3.81015 | 3.81249 | 1.37599 | 1.37592 | 1.37516 |
| Isopentane | 6.64595 | 6.65027 | 5.89099 | 5.89091 | 5.88999 |
| n-Pentane | 8.86706 | 8.87288 | 10.484 | 10.4839 | 10.4829 |
| i-Hexane | 4.99112 | 4.99445 | 14.171 | 14.171 | 14.1712 |
| n-Hexane | 2.69109 | 2.69289 | 11.118 | 11.118 | 11.1184 |
| Benzene | 0.532025 | 0.532381 | 2.186 | 2.18601 | 2.18613 |
| Cyclohexane | 1.28094 | 1.2818 | 6.648 | 6.64804 | 6.64838 |
| i-Heptane | 1.687 | 1.68813 | 15.613 | 15.6131 | 15.6141 |
| n-Heptane | 0.402462 | 0.402731 | 5.516 | 5.51604 | 5.51642 |
| Toluene | 0.24344 | 0.243603 | 3.449 | 3.44903 | 3.44929 |
| i-Octane | 1.11621 | 1.11696 | 13.978 | 13.9781 | 13.9791 |
| n-Octane | 0.0345881 | 0.0346113 | 1.523 | 1.52301 | 1.52313 |
| Ethylbenzene | 0.00888398 | 0.00888993 | 0.409 | 0.409003 | 0.409037 |
| m-Xylene | 0.0300438 | 0.030064 | 1.529 | 1.52901 | 1.52914 |
| Isononane | 0.032343 | 0.0323646 | 3.179 | 3.17903 | 3.17929 |
| n-Nonane | 0.00506057 | 0.00506395 | 0.71 | 0.710006 | 0.710065 |
| Decane | 0.0014471 | 0.00144806 | 0.634 | 0.634005 | 0.634059 |
| C10+ | 0.0018205 | 0.00182171 | 1.07 | 1.07001 | 1.0701 |

| Mass Fraction | Flash-2 % | Flash-3 % | R-1 % | R-2 % | R-3 % |
|---|---|---|---|---|---|
| Nitrogen | 39.8642 | 39.8403 | 0.0221584 | 0.0221356 | 0.0218952 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0.279367 | 0.279189 | 0.00353551 | 0.00353175 | 0.00349217 |
| Propane | 2.5049 | 2.50534 | 0.107473 | 0.107446 | 0.107161 |
| Isobutane | 1.0656 | 1.06596 | 0.126128 | 0.126117 | 0.126005 |
| n-Butane | 4.93706 | 4.93889 | 0.854937 | 0.854891 | 0.854396 |
| Isopentane | 10.6898 | 10.6942 | 4.54353 | 4.54345 | 4.54264 |
| n-Pentane | 14.2624 | 14.2683 | 8.08596 | 8.08587 | 8.08494 |
| i-Hexane | 9.58883 | 9.59287 | 13.0545 | 13.0545 | 13.0543 |
| n-Hexane | 5.17006 | 5.17225 | 10.242 | 10.242 | 10.2422 |
| Benzene | 0.926473 | 0.926867 | 1.82534 | 1.82534 | 1.8254 |
| Cyclohexane | 2.40335 | 2.40437 | 5.98095 | 5.98096 | 5.98114 |
| i-Heptane | 3.76856 | 3.77016 | 16.7239 | 16.724 | 16.7247 |
| n-Heptane | 0.899052 | 0.899434 | 5.90849 | 5.90851 | 5.90879 |
| Toluene | 0.500054 | 0.500267 | 3.39711 | 3.39713 | 3.39731 |
| i-Octane | 2.84254 | 2.84374 | 17.0685 | 17.0686 | 17.0694 |
| n-Octane | 0.0880817 | 0.0881191 | 1.85973 | 1.85974 | 1.85985 |
| Ethylbenzene | 0.0210268 | 0.0210357 | 0.464174 | 0.464176 | 0.464204 |
| m-Xylene | 0.0711084 | 0.0711387 | 1.73526 | 1.73527 | 1.73537 |
| Isononane | 0.0924782 | 0.0925174 | 4.35854 | 4.35857 | 4.35883 |
| n-Nonane | 0.0144697 | 0.0144758 | 0.973439 | 0.973445 | 0.973505 |
| Decane | 0.0045902 | 0.00459213 | 0.964304 | 0.96431 | 0.96437 |
| C10+ | 0.00603215 | 0.0060347 | 1.70003 | 1.70004 | 1.70015 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Tanks | | |

| Mass Flow | Flash-2 lb/h | Flash-3 lb/h | R-1 lb/h | R-2 lb/h | R-3 lb/h |
|---|---|---|---|---|---|
| Nitrogen | 0 | 0 | 11.6663 | 11.6543 | 11.527 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0 | 0 | 1.86144 | 1.85945 | 1.8385 |
| Propane | 0 | 0 | 56.5841 | 56.5695 | 56.4164 |
| Isobutane | 0 | 0 | 66.406 | 66.4001 | 66.337 |
| n-Butane | 0 | 0 | 450.123 | 450.095 | 449.807 |
| Isopentane | 0 | 0 | 2392.16 | 2392.1 | 2391.53 |
| n-Pentane | 0 | 0 | 4257.24 | 4257.17 | 4256.42 |
| i-Hexane | 0 | 0 | 6873.15 | 6873.1 | 6872.61 |
| n-Hexane | 0 | 0 | 5392.4 | 5392.37 | 5392.1 |
| Benzene | 0 | 0 | 961.035 | 961.033 | 961.003 |
| Cyclohexane | 0 | 0 | 3148.95 | 3148.95 | 3148.84 |
| i-Heptane | 0 | 0 | 8805.11 | 8805.09 | 8804.91 |
| n-Heptane | 0 | 0 | 3110.81 | 3110.8 | 3110.76 |
| Toluene | 0 | 0 | 1788.57 | 1788.57 | 1788.55 |
| i-Octane | 0 | 0 | 8986.53 | 8986.52 | 8986.37 |
| n-Octane | 0 | 0 | 979.145 | 979.144 | 979.141 |
| Ethylbenzene | 0 | 0 | 244.386 | 244.386 | 244.386 |
| m-Xylene | 0 | 0 | 913.611 | 913.611 | 913.608 |
| Isononane | 0 | 0 | 2294.76 | 2294.76 | 2294.76 |
| n-Nonane | 0 | 0 | 512.514 | 512.514 | 512.513 |
| Decane | 0 | 0 | 507.704 | 507.704 | 507.704 |
| C10+ | 0 | 0 | 895.064 | 895.064 | 895.063 |

## Stream Properties

| Property | Units | Flash-2 | Flash-3 | R-1 | R-2 | R-3 |
|---|---|---|---|---|---|---|
| Temperature | °F | 75.8692 | 75.8692 | 75.8692 | 75.8692 | 75.8692 |
| Pressure | psia | 12.88 | 12.88 | 12.88 | 12.88 | 12.88 |
| Molecular Weight | lb/lbmol | 44.8555 | 44.8665 | 93.5458 | 93.546 | 93.5481 |
| Mass Density | lb/ft^3 | | | 42.8837 | 42.8837 | 42.8839 |
| Mass Flow | lb/h | 0 | 0 | 52649.8 | 52649.5 | 52646.2 |
| Std Vapor Volumetric Flow | MMSCFD | 0 | 0 | 5.12598 | 5.12594 | 5.12551 |
| Std Liquid Volumetric Flow | sgpm | 0 | 0 | 152.138 | 152.137 | 152.127 |
| Specific Gravity | | | | 0.687583 | 0.687583 | 0.687587 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1487.24 | 1488.19 | 5069.32 | 5069.34 | 5069.45 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Tanks | | |

## Connections

| | To Combustor | Total | Total-2 | Total-3 | Work |
|---|---|---|---|---|---|
| From Block | MIX-100 | MIX-102 | MIX-103 | MIX-104 | Condensate Tanks |
| To Block | -- | MIX-100 | MIX-100 | MIX-100 | MIX-102 |

## Stream Composition

| Mole Fraction | To Combustor % | Total % | Total-2 % | Total-3 % | Work % |
|---|---|---|---|---|---|
| Nitrogen | 9.58571 | 9.59407 | 9.5934 | 9.58492 | 9.59407 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Ethane | 1.4703 | 1.47162 | 1.47152 | 1.47017 | 1.47162 |
| Propane | 7.32858 | 7.32935 | 7.32929 | 7.32851 | 7.32935 |
| Isobutane | 2.28842 | 2.28828 | 2.28829 | 2.28843 | 2.28828 |
| n-Butane | 10.474 | 10.473 | 10.4731 | 10.474 | 10.473 |
| Isopentane | 16.7799 | 16.7778 | 16.7779 | 16.7801 | 16.7778 |
| n-Pentane | 21.9734 | 21.9705 | 21.9707 | 21.9737 | 21.9705 |
| i-Hexane | 11.9742 | 11.9725 | 11.9727 | 11.9744 | 11.9725 |
| n-Hexane | 6.63748 | 6.63653 | 6.6366 | 6.63758 | 6.63653 |
| Benzene | 0.807946 | 0.807828 | 0.807837 | 0.807957 | 0.807828 |
| Cyclohexane | 2.53235 | 2.53198 | 2.53201 | 2.53238 | 2.53198 |
| i-Heptane | 3.96066 | 3.96008 | 3.96013 | 3.96072 | 3.96008 |
| n-Heptane | 0.956127 | 0.955986 | 0.955997 | 0.95614 | 0.955986 |
| Toluene | 0.368404 | 0.368349 | 0.368353 | 0.368409 | 0.368349 |
| i-Octane | 2.64933 | 2.64894 | 2.64897 | 2.64937 | 2.64894 |
| n-Octane | 0.0713817 | 0.0713711 | 0.0713719 | 0.0713827 | 0.0713711 |
| Ethylbenzene | 0.0140347 | 0.0140326 | 0.0140327 | 0.0140349 | 0.0140326 |
| m-Xylene | 0.0457838 | 0.045777 | 0.0457775 | 0.0457844 | 0.045777 |
| Isononane | 0.0679616 | 0.0679515 | 0.0679523 | 0.0679626 | 0.0679515 |
| n-Nonane | 0.00882883 | 0.00882752 | 0.00882762 | 0.00882895 | 0.00882752 |
| Decane | 0.00219898 | 0.00219865 | 0.00219867 | 0.00219901 | 0.00219865 |
| C10+ | 0.00301616 | 0.00301571 | 0.00301575 | 0.0030162 | 0.00301571 |

| Mass Fraction | To Combustor % | Total % | Total-2 % | Total-3 % | Work % |
|---|---|---|---|---|---|
| Nitrogen | 3.88713 | 3.89081 | 3.89052 | 3.88678 | 3.89081 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0.639975 | 0.640601 | 0.640552 | 0.639916 | 0.640601 |
| Propane | 4.67794 | 4.67877 | 4.6787 | 4.67786 | 4.67877 |
| Isobutane | 1.92538 | 1.9254 | 1.9254 | 1.92537 | 1.9254 |
| n-Butane | 8.81235 | 8.81222 | 8.81223 | 8.81236 | 8.81222 |
| Isopentane | 17.525 | 17.524 | 17.5241 | 17.525 | 17.524 |
| n-Pentane | 22.9491 | 22.9478 | 22.9479 | 22.9492 | 22.9478 |
| i-Hexane | 14.9372 | 14.9362 | 14.9363 | 14.9373 | 14.9362 |
| n-Hexane | 8.27991 | 8.27933 | 8.27938 | 8.27996 | 8.27933 |
| Benzene | 0.913562 | 0.913496 | 0.913501 | 0.913568 | 0.913496 |
| Cyclohexane | 3.08507 | 3.08485 | 3.08487 | 3.0851 | 3.08485 |
| i-Heptane | 5.7449 | 5.74449 | 5.74452 | 5.74494 | 5.74449 |
| n-Heptane | 1.38685 | 1.38675 | 1.38676 | 1.38686 | 1.38675 |
| Toluene | 0.491364 | 0.491328 | 0.491331 | 0.491368 | 0.491328 |
| i-Octane | 4.38077 | 4.38045 | 4.38047 | 4.3808 | 4.38045 |
| n-Octane | 0.118032 | 0.118023 | 0.118024 | 0.118033 | 0.118023 |
| Ethylbenzene | 0.0215686 | 0.021567 | 0.0215671 | 0.0215688 | 0.021567 |
| m-Xylene | 0.070361 | 0.0703557 | 0.0703561 | 0.0703615 | 0.0703557 |
| Isononane | 0.126176 | 0.126167 | 0.126168 | 0.126177 | 0.126167 |
| n-Nonane | 0.0163914 | 0.0163902 | 0.0163903 | 0.0163915 | 0.0163902 |
| Decane | 0.00452906 | 0.00452873 | 0.00452875 | 0.0045291 | 0.00452873 |
| C10+ | 0.0064892 | 0.00648871 | 0.00648875 | 0.00648924 | 0.00648871 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Tanks | | |

| Mass Flow | To Combustor lb/h | Total lb/h | Total-2 lb/h | Total-3 lb/h | Work lb/h |
|---|---|---|---|---|---|
| Nitrogen | 0.140289 | 0.000942421 | 0.0120751 | 0.127271 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0.0230971 | 0.000155165 | 0.0019881 | 0.0209538 | 0 |
| Propane | 0.16883 | 0.00113328 | 0.0145215 | 0.153175 | 0 |
| Isobutane | 0.0694881 | 0.000466366 | 0.00597593 | 0.0630458 | 0 |
| n-Butane | 0.318043 | 0.00213447 | 0.0273508 | 0.288558 | 0 |
| Isopentane | 0.632487 | 0.00424463 | 0.0543902 | 0.573852 | 0 |
| n-Pentane | 0.828247 | 0.00555835 | 0.0712241 | 0.751465 | 0 |
| i-Hexane | 0.539093 | 0.0036178 | 0.0463582 | 0.489117 | 0 |
| n-Hexane | 0.298827 | 0.0020054 | 0.025697 | 0.271125 | 0 |
| Benzene | 0.032971 | 0.000221265 | 0.00283526 | 0.0299145 | 0 |
| Cyclohexane | 0.111342 | 0.000747205 | 0.00957462 | 0.10102 | 0 |
| i-Heptane | 0.207337 | 0.00139141 | 0.0178295 | 0.188116 | 0 |
| n-Heptane | 0.0500524 | 0.000335895 | 0.00430413 | 0.0454124 | 0 |
| Toluene | 0.0177336 | 0.000119008 | 0.00152496 | 0.0160897 | 0 |
| i-Octane | 0.158105 | 0.00106102 | 0.0135958 | 0.143448 | 0 |
| n-Octane | 0.00425985 | 2.85873E-05 | 0.000366315 | 0.00386495 | 0 |
| Ethylbenzene | 0.000778425 | 5.22391E-06 | 6.69386E-05 | 0.000706262 | 0 |
| m-Xylene | 0.00253937 | 1.70414E-05 | 0.000218367 | 0.00230396 | 0 |
| Isononane | 0.00455378 | 3.05598E-05 | 0.00039159 | 0.00413163 | 0 |
| n-Nonane | 0.000591577 | 3.96999E-06 | 5.08711E-05 | 0.000536736 | 0 |
| Decane | 0.000163457 | 1.09694E-06 | 1.4056E-05 | 0.000148304 | 0 |
| C10+ | 0.000234199 | 1.57168E-06 | 2.01394E-05 | 0.000212488 | 0 |

## Stream Properties

| Property | Units | To Combustor | Total | Total-2 | Total-3 | Work |
|---|---|---|---|---|---|---|
| Temperature | °F | 75.8692 | 75.8692 | 75.8692 | 75.8692 | 75.8692 |
| Pressure | psia | 12.88 | 12.88 | 12.88 | 12.88 | 12.88 |
| Molecular Weight | lb/lbmol | 69.0814 | 69.0763 | 69.0767 | 69.0819 | 69.0763 |
| Mass Density | lb/ft^3 | 0.304537 | 0.304395 | 0.304407 | 0.304551 | |
| Mass Flow | lb/h | 3.60906 | 0.0242217 | 0.310373 | 3.27447 | 0 |
| Std Vapor Volumetric Flow | MMSCFD | 0.000475815 | 3.19361E-06 | 4.09221E-05 | 0.000431699 | 0 |
| Std Liquid Volumetric Flow | sgpm | 0.0113033 | 7.58609E-05 | 0.000972068 | 0.0102554 | 0 |
| Specific Gravity | | | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 3668.83 | 3668.42 | 3668.45 | 3668.87 | 3668.42 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Tanks | |

## Connections

| | Work-2 | Work-3 | | | |
|---|---|---|---|---|---|
| From Block | Condensate Tanks-2 | Condensate Tanks-3 | | | |
| To Block | MIX-103 | MIX-104 | | | |

## Stream Composition

| Mole Fraction | Work-2 % | Work-3 % | | | |
|---|---|---|---|---|---|
| Nitrogen | 9.5934 | 9.58492 | | | |
| Methane | 0 | 0 | | | |
| Carbon Dioxide | 0 | 0 | | | |
| Ethane | 1.47152 | 1.47017 | | | |
| Propane | 7.32929 | 7.32851 | | | |
| Isobutane | 2.28829 | 2.28843 | | | |
| n-Butane | 10.4731 | 10.474 | | | |
| Isopentane | 16.7779 | 16.7801 | | | |
| n-Pentane | 21.9707 | 21.9737 | | | |
| i-Hexane | 11.9727 | 11.9744 | | | |
| n-Hexane | 6.6366 | 6.63758 | | | |
| Benzene | 0.807837 | 0.807957 | | | |
| Cyclohexane | 2.53201 | 2.53238 | | | |
| i-Heptane | 3.96013 | 3.96072 | | | |
| n-Heptane | 0.955997 | 0.95614 | | | |
| Toluene | 0.368353 | 0.368409 | | | |
| i-Octane | 2.64897 | 2.64937 | | | |
| n-Octane | 0.0713719 | 0.0713827 | | | |
| Ethylbenzene | 0.0140327 | 0.0140349 | | | |
| m-Xylene | 0.0457775 | 0.0457844 | | | |
| Isononane | 0.0679523 | 0.0679626 | | | |
| n-Nonane | 0.00882762 | 0.00882895 | | | |
| Decane | 0.00219867 | 0.00219901 | | | |
| C10+ | 0.00301575 | 0.0030162 | | | |

| Mass Fraction | Work-2 % | Work-3 % | | | |
|---|---|---|---|---|---|
| Nitrogen | 3.89052 | 3.88678 | | | |
| Methane | 0 | 0 | | | |
| Carbon Dioxide | 0 | 0 | | | |
| Ethane | 0.640552 | 0.639916 | | | |
| Propane | 4.6787 | 4.67786 | | | |
| Isobutane | 1.9254 | 1.92537 | | | |
| n-Butane | 8.81223 | 8.81236 | | | |
| Isopentane | 17.5241 | 17.525 | | | |
| n-Pentane | 22.9479 | 22.9492 | | | |
| i-Hexane | 14.9363 | 14.9373 | | | |
| n-Hexane | 8.27938 | 8.27996 | | | |
| Benzene | 0.913501 | 0.913568 | | | |
| Cyclohexane | 3.08487 | 3.0851 | | | |
| i-Heptane | 5.74452 | 5.74494 | | | |
| n-Heptane | 1.38676 | 1.38686 | | | |
| Toluene | 0.491331 | 0.491368 | | | |
| i-Octane | 4.38047 | 4.3808 | | | |
| n-Octane | 0.118024 | 0.118033 | | | |
| Ethylbenzene | 0.0215671 | 0.0215688 | | | |
| m-Xylene | 0.0703561 | 0.0703615 | | | |
| Isononane | 0.126168 | 0.126177 | | | |
| n-Nonane | 0.0163903 | 0.0163915 | | | |
| Decane | 0.00452875 | 0.0045291 | | | |
| C10+ | 0.00648875 | 0.00648924 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Tanks | |

| Mass Flow | Work-2 lb/h | Work-3 lb/h | | | |
|---|---|---|---|---|---|
| Nitrogen | 0 | 0.107415 | | | |
| Methane | 0 | 0 | | | |
| Carbon Dioxide | 0 | 0 | | | |
| Ethane | 0 | 0.0176847 | | | |
| Propane | 0 | 0.129277 | | | |
| Isobutane | 0 | 0.0532096 | | | |
| n-Butane | 0 | 0.243538 | | | |
| Isopentane | 0 | 0.484322 | | | |
| n-Pentane | 0 | 0.634224 | | | |
| i-Hexane | 0 | 0.412807 | | | |
| n-Hexane | 0 | 0.228825 | | | |
| Benzene | 0 | 0.0252473 | | | |
| Cyclohexane | 0 | 0.0852596 | | | |
| i-Heptane | 0 | 0.158767 | | | |
| n-Heptane | 0 | 0.0383273 | | | |
| Toluene | 0 | 0.0135794 | | | |
| i-Octane | 0 | 0.121068 | | | |
| n-Octane | 0 | 0.00326196 | | | |
| Ethylbenzene | 0 | 0.000596074 | | | |
| m-Xylene | 0 | 0.00194451 | | | |
| Isononane | 0 | 0.00348703 | | | |
| n-Nonane | 0 | 0.000452996 | | | |
| Decane | 0 | 0.000125166 | | | |
| C10+ | 0 | 0.000179337 | | | |

## Stream Properties

| Property | Units | Work-2 | Work-3 | | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 75.8692 | 75.8692 | | | |
| Pressure | psia | 12.88 | 12.88 | | | |
| Molecular Weight | lb/lbmol | 69.0767 | 69.0819 | | | |
| Mass Density | lb/ft^3 | | 0.304551 | | | |
| Mass Flow | lb/h | 0 | 2.7636 | | | |
| Std Vapor Volumetric Flow | MMSCFD | 0 | 0.000364347 | | | |
| Std Liquid Volumetric Flow | sgpm | 0 | 0.00865539 | | | |
| Specific Gravity | | | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 3668.45 | 3668.87 | | | |

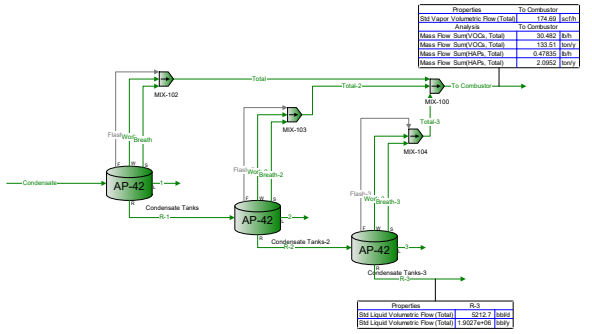
**Remarks**

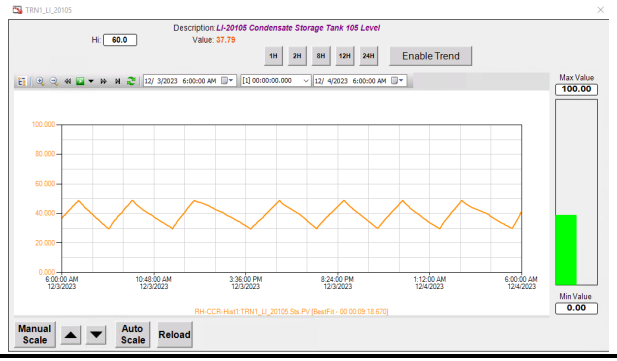

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# Tanks
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Tanks | |

**Targa Northern Delaware, LLC – Red Hills Gas Processing Plant**






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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Tanks | | |

## Connections

| | Breath | Breath-2 | Breath-3 | Condensate | Flash |
|---|---|---|---|---|---|
| From Block | Condensate Tanks | Condensate Tanks-2 | Condensate Tanks-3 | -- | Condensate Tanks |
| To Block | MIX-102 | MIX-103 | MIX-104 | Condensate Tanks | MIX-102 |

## Stream Composition

| Mole Fraction | Breath % | Breath-2 % | Breath-3 % | Condensate % | Flash % |
|---|---|---|---|---|---|
| Nitrogen | 9.59407 | 9.30148 | 9.01669 | 0.074 * | 63.8329 |
| Methane | 0 | 0 | 0 | 0 * | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 * | 0 |
| Ethane | 1.47162 | 1.42507 | 1.37981 | 0.011 * | 0.416758 |
| Propane | 7.32935 | 7.30266 | 7.27518 | 0.228 * | 2.54798 |
| Isobutane | 2.28828 | 2.2931 | 2.29766 | 0.203 * | 0.822334 |
| n-Butane | 10.473 | 10.5057 | 10.5371 | 1.376 * | 3.80997 |
| Isopentane | 16.7778 | 16.8521 | 16.9247 | 5.891 * | 6.64561 |
| n-Pentane | 21.9705 | 22.0724 | 22.172 | 10.484 * | 8.8666 |
| i-Hexane | 11.9725 | 12.0321 | 12.0906 | 14.171 * | 4.99086 |
| n-Hexane | 6.63653 | 6.67003 | 6.7029 | 11.118 * | 2.69095 |
| Benzene | 0.807828 | 0.811957 | 0.816008 | 2.186 * | 0.531997 |
| Cyclohexane | 2.53198 | 2.54491 | 2.55761 | 6.648 * | 1.28087 |
| i-Heptane | 3.96008 | 3.98045 | 4.00044 | 15.613 * | 1.68691 |
| n-Heptane | 0.955986 | 0.960924 | 0.96577 | 5.516 * | 0.402441 |
| Toluene | 0.368349 | 0.370259 | 0.372133 | 3.449 * | 0.243427 |
| i-Octane | 2.64894 | 2.66261 | 2.67603 | 13.978 * | 1.11616 |
| n-Octane | 0.0713711 | 0.0717423 | 0.0721066 | 1.523 * | 0.0345863 |
| Ethylbenzene | 0.0140326 | 0.0141056 | 0.0141773 | 0.409 * | 0.00888352 |
| m-Xylene | 0.045777 | 0.0460152 | 0.0462491 | 1.529 * | 0.0300423 |
| Isononane | 0.0679515 | 0.0683054 | 0.0686527 | 3.179 * | 0.0323413 |
| n-Nonane | 0.00882752 | 0.00887351 | 0.00891866 | 0.71 * | 0.00506031 |
| Decane | 0.00219865 | 0.00221011 | 0.00222136 | 0.634 * | 0.00144703 |
| C10+ | 0.00301571 | 0.00303143 | 0.00304686 | 1.07 * | 0.0018204 |

| Mass Fraction | Breath % | Breath-2 % | Breath-3 % | Condensate % | Flash % |
|---|---|---|---|---|---|
| Nitrogen | 3.89081 | 3.76237 | 3.63796 | 0.0221602 * | 39.866 |
| Methane | 0 | 0 | 0 | 0 * | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 * | 0 |
| Ethane | 0.640601 | 0.618727 | 0.597565 | 0.0035358 * | 0.279381 |
| Propane | 4.67877 | 4.64965 | 4.62045 | 0.107475 * | 2.50486 |
| Isobutane | 1.9254 | 1.92446 | 1.92341 | 0.126129 * | 1.06557 |
| n-Butane | 8.81222 | 8.81676 | 8.82082 | 0.854941 * | 4.93692 |
| Isopentane | 17.524 | 17.556 | 17.5871 | 4.54353 * | 10.6895 |
| n-Pentane | 22.9478 | 22.9944 | 23.0398 | 8.08596 * | 14.2619 |
| i-Hexane | 14.9362 | 14.9717 | 15.0064 | 13.0545 * | 9.58851 |
| n-Hexane | 8.27933 | 8.29956 | 8.31937 | 10.242 * | 5.16989 |
| Benzene | 0.913496 | 0.915785 | 0.918029 | 1.82534 * | 0.926442 |
| Cyclohexane | 3.08485 | 3.09257 | 3.10014 | 5.98094 * | 2.40327 |
| i-Heptane | 5.74449 | 5.75906 | 5.77335 | 16.7239 * | 3.76844 |
| n-Heptane | 1.38675 | 1.3903 | 1.39378 | 5.90848 * | 0.899022 |
| Toluene | 0.491328 | 0.492595 | 0.493837 | 3.39711 * | 0.500037 |
| i-Octane | 4.38045 | 4.39164 | 4.40261 | 17.0685 * | 2.84244 |
| n-Octane | 0.118023 | 0.11833 | 0.11863 | 1.85973 * | 0.0880787 |
| Ethylbenzene | 0.021567 | 0.021623 | 0.021678 | 0.464174 * | 0.0210261 |
| m-Xylene | 0.0703557 | 0.0705386 | 0.070718 | 1.73526 * | 0.0711061 |
| Isononane | 0.126167 | 0.126495 | 0.126817 | 4.35854 * | 0.0924751 |
| n-Nonane | 0.0163902 | 0.0164329 | 0.0164748 | 0.973439 * | 0.0144692 |
| Decane | 0.00452873 | 0.00454053 | 0.00455211 | 0.964304 * | 0.00459005 |
| C10+ | 0.00648871 | 0.00650562 | 0.00652222 | 1.70003 * | 0.00603195 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Tanks | | |

| Mass Flow | Breath lb/h | Breath-2 lb/h | Breath-3 lb/h | Condensate lb/h | Flash lb/h |
|---|---|---|---|---|---|
| Nitrogen | 0.018595 | 0.0179553 | 0.0173371 | 11.6673 * | 0 |
| Methane | 0 | 0 | 0 | 0 * | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 * | 0 |
| Ethane | 0.00306157 | 0.00295278 | 0.00284777 | 1.86159 * | 0 |
| Propane | 0.0223608 | 0.0221897 | 0.0220193 | 56.5852 * | 0 |
| Isobutane | 0.0092019 | 0.00918419 | 0.00916625 | 66.4065 * | 0 |
| n-Butane | 0.0421154 | 0.0420766 | 0.0420367 | 450.125 * | 0 |
| Isopentane | 0.083751 | 0.0837833 | 0.0838134 | 2392.16 * | 0 |
| n-Pentane | 0.109672 | 0.109737 | 0.109799 | 4257.24 * | 0 |
| i-Hexane | 0.0713831 | 0.0714499 | 0.0715148 | 6873.15 * | 0 |
| n-Hexane | 0.0395686 | 0.0396083 | 0.039647 | 5392.4 * | 0 |
| Benzene | 0.00436579 | 0.00437044 | 0.00437498 | 961.036 * | 0 |
| Cyclohexane | 0.0147432 | 0.0147588 | 0.0147741 | 3148.96 * | 0 |
| i-Heptane | 0.0274541 | 0.0274842 | 0.0275136 | 8805.11 * | 0 |
| n-Heptane | 0.00662757 | 0.00663499 | 0.00664224 | 3110.81 * | 0 |
| Toluene | 0.00234816 | 0.00235083 | 0.00235344 | 1788.57 * | 0 |
| i-Octane | 0.0209351 | 0.0209584 | 0.0209812 | 8986.53 * | 0 |
| n-Octane | 0.000564058 | 0.000564709 | 0.000565346 | 979.145 * | 0 |
| Ethylbenzene | 0.000103073 | 0.000103193 | 0.000103309 | 244.386 * | 0 |
| m-Xylene | 0.000336245 | 0.000336634 | 0.000337015 | 913.611 * | 0 |
| Isononane | 0.000602977 | 0.000603677 | 0.000604362 | 2294.76 * | 0 |
| n-Nonane | 7.83322E-05 | 7.84233E-05 | 7.85124E-05 | 512.514 * | 0 |
| Decane | 2.16437E-05 | 2.1669E-05 | 2.16936E-05 | 507.704 * | 0 |
| C10+ | 3.10109E-05 | 3.10471E-05 | 3.10824E-05 | 895.064 * | 0 |

## Stream Properties

| Property | Units | Breath | Breath-2 | Breath-3 | Condensate | Flash |
|---|---|---|---|---|---|---|
| Temperature | °F | 75.8692 | 75.8692 | 75.8692 | 109.4 * | 75.8692 |
| Pressure | psia | 12.88 | 12.88 | 12.88 | 13.13 * | 12.88 |
| Molecular Weight | lb/lbmol | 69.0763 | 69.2558 | 69.4313 | 93.5458 | 44.8547 |
| Mass Density | lb/ft^3 | 0.304395 | 0.309457 | 0.314597 | 36.9968 | |
| Mass Flow | lb/h | 0.477921 | 0.477234 | 0.476562 | 52649.8 | 0 |
| Std Vapor Volumetric Flow | MMSCFD | 6.30132E-05 | 6.27596E-05 | 6.25129E-05 | 5.12598 | 0 |
| Std Liquid Volumetric Flow | sgpm | 0.00149682 | 0.00149462 | 0.00149247 | 152.138 * | 0 |
| Specific Gravity | | | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 3668.42 | 3682.75 | 3696.72 | 5069.32 | 1487.16 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Tanks | | |

## Connections

| | Flash-2 | Flash-3 | R-1 | R-2 | R-3 |
|---|---|---|---|---|---|
| From Block | Condensate Tanks-2 | Condensate Tanks-3 | Condensate Tanks | Condensate Tanks-2 | Condensate Tanks-3 |
| To Block | MIX-103 | MIX-104 | Condensate Tanks-2 | Condensate Tanks-3 | -- |

## Stream Composition

| Mole Fraction | Flash-2 % | Flash-3 % | R-1 % | R-2 % | R-3 % |
|---|---|---|---|---|---|
| Nitrogen | 63.0395 | 62.2382 | 0.0713908 | 0.0688731 | 0.0664439 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0.411044 | 0.405294 | 0.0105997 | 0.0102139 | 0.00984203 |
| Propane | 2.58555 | 2.62296 | 0.226054 | 0.224123 | 0.222209 |
| Isobutane | 0.839246 | 0.85627 | 0.202428 | 0.201858 | 0.201289 |
| n-Butane | 3.89217 | 3.97506 | 1.37351 | 1.37102 | 1.36853 |
| Isopentane | 6.79756 | 6.95109 | 5.88802 | 5.88503 | 5.88203 |
| n-Pentane | 9.07101 | 9.27761 | 10.4809 | 10.4777 | 10.4745 |
| i-Hexane | 5.10755 | 5.22554 | 14.1716 | 14.1722 | 14.1728 |
| n-Hexane | 2.75401 | 2.81779 | 11.1192 | 11.1204 | 11.1216 |
| Benzene | 0.54451 | 0.557166 | 2.18638 | 2.18675 | 2.18712 |
| Cyclohexane | 1.311 | 1.34146 | 6.64913 | 6.65025 | 6.65136 |
| i-Heptane | 1.72656 | 1.76665 | 15.6162 | 15.6194 | 15.6225 |
| n-Heptane | 0.411901 | 0.421471 | 5.51725 | 5.51849 | 5.51973 |
| Toluene | 0.249163 | 0.254964 | 3.44984 | 3.45068 | 3.45152 |
| i-Octane | 1.14237 | 1.16888 | 13.9811 | 13.9842 | 13.9873 |
| n-Octane | 0.0353998 | 0.0362228 | 1.5234 | 1.52379 | 1.52419 |
| Ethylbenzene | 0.00909248 | 0.00930386 | 0.409108 | 0.409216 | 0.409323 |
| m-Xylene | 0.0307489 | 0.0314637 | 1.52941 | 1.52981 | 1.53021 |
| Isononane | 0.0331007 | 0.0338689 | 3.17985 | 3.1807 | 3.18155 |
| n-Nonane | 0.00517906 | 0.0052992 | 0.710192 | 0.710383 | 0.710574 |
| Decane | 0.00148082 | 0.00151501 | 0.634173 | 0.634346 | 0.634517 |
| C10+ | 0.00186305 | 0.00190619 | 1.07029 | 1.07058 | 1.07087 |

| Mass Fraction | Flash-2 % | Flash-3 % | R-1 % | R-2 % | R-3 % |
|---|---|---|---|---|---|
| Nitrogen | 39.0356 | 38.2109 | 0.0213773 | 0.0206219 | 0.0198932 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0.273206 | 0.267087 | 0.00340688 | 0.00328264 | 0.00316292 |
| Propane | 2.52017 | 2.53484 | 0.10655 | 0.105632 | 0.104723 |
| Isobutane | 1.07823 | 1.09073 | 0.125765 | 0.125401 | 0.125039 |
| n-Butane | 5.00053 | 5.06348 | 0.853331 | 0.851723 | 0.850117 |
| Isopentane | 10.8409 | 10.9912 | 4.54091 | 4.53828 | 4.53565 |
| n-Pentane | 14.4666 | 14.67 | 8.08295 | 8.07994 | 8.07693 |
| i-Hexane | 9.7292 | 9.86912 | 13.0541 | 13.0537 | 13.0533 |
| n-Hexane | 5.24603 | 5.32176 | 10.2424 | 10.2428 | 10.2432 |
| Benzene | 0.940166 | 0.953818 | 1.82552 | 1.8257 | 1.82589 |
| Cyclohexane | 2.43885 | 2.47426 | 5.98153 | 5.98211 | 5.98269 |
| i-Heptane | 3.82418 | 3.87964 | 16.7261 | 16.7284 | 16.7306 |
| n-Heptane | 0.912328 | 0.925566 | 5.9094 | 5.91031 | 5.91122 |
| Toluene | 0.507464 | 0.514853 | 3.3977 | 3.39829 | 3.39887 |
| i-Octane | 2.88445 | 2.92624 | 17.0711 | 17.0736 | 17.0762 |
| n-Octane | 0.0893836 | 0.0906819 | 1.86008 | 1.86044 | 1.86079 |
| Ethylbenzene | 0.0213376 | 0.0216475 | 0.464263 | 0.464352 | 0.464442 |
| m-Xylene | 0.0721594 | 0.0732074 | 1.7356 | 1.73593 | 1.73627 |
| Isononane | 0.0938413 | 0.0952007 | 4.35939 | 4.36025 | 4.3611 |
| n-Nonane | 0.0146828 | 0.0148953 | 0.973633 | 0.973826 | 0.974019 |
| Decane | 0.0046573 | 0.00472421 | 0.964498 | 0.964692 | 0.964885 |
| C10+ | 0.00612073 | 0.00620907 | 1.70038 | 1.70072 | 1.70106 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Tanks | |

| Mass Flow | Flash-2 lb/h | Flash-3 lb/h | R-1 lb/h | R-2 lb/h | R-3 lb/h |
|---|---|---|---|---|---|
| Nitrogen | 0 | 0 | 11.2528 | 10.853 | 10.4674 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0 | 0 | 1.79335 | 1.72761 | 1.66426 |
| Propane | 0 | 0 | 56.0868 | 55.5927 | 55.1029 |
| Isobutane | 0 | 0 | 66.2014 | 65.9969 | 65.793 |
| n-Butane | 0 | 0 | 449.186 | 448.249 | 447.314 |
| Isopentane | 0 | 0 | 2390.29 | 2388.43 | 2386.56 |
| n-Pentane | 0 | 0 | 4254.8 | 4252.36 | 4249.91 |
| i-Hexane | 0 | 0 | 6871.56 | 6869.97 | 6868.38 |
| n-Hexane | 0 | 0 | 5391.52 | 5390.64 | 5389.76 |
| Benzene | 0 | 0 | 960.938 | 960.841 | 960.744 |
| Cyclohexane | 0 | 0 | 3148.63 | 3148.3 | 3147.97 |
| i-Heptane | 0 | 0 | 8804.5 | 8803.89 | 8803.28 |
| n-Heptane | 0 | 0 | 3110.66 | 3110.51 | 3110.36 |
| Toluene | 0 | 0 | 1788.52 | 1788.47 | 1788.41 |
| i-Octane | 0 | 0 | 8986.06 | 8985.6 | 8985.13 |
| n-Octane | 0 | 0 | 979.132 | 979.12 | 979.107 |
| Ethylbenzene | 0 | 0 | 244.384 | 244.382 | 244.38 |
| m-Xylene | 0 | 0 | 913.603 | 913.596 | 913.589 |
| Isononane | 0 | 0 | 2294.75 | 2294.74 | 2294.72 |
| n-Nonane | 0 | 0 | 512.512 | 512.51 | 512.508 |
| Decane | 0 | 0 | 507.704 | 507.703 | 507.703 |
| C10+ | 0 | 0 | 895.063 | 895.062 | 895.062 |

## Stream Properties

| Property | Units | Flash-2 | Flash-3 | R-1 | R-2 | R-3 |
|---|---|---|---|---|---|---|
| Temperature | °F | 75.8692 | 75.8692 | 75.8692 | 75.8692 | 75.8692 |
| Pressure | psia | 12.88 | 12.88 | 12.88 | 12.88 | 12.88 |
| Molecular Weight | lb/lbmol | 45.2395 | 45.6285 | 93.5525 | 93.5591 | 93.5657 |
| Mass Density | lb/ft^3 | | | 42.8844 | 42.8852 | 42.8859 |
| Mass Flow | lb/h | 0 | 0 | 52639.2 | 52628.5 | 52617.9 |
| Std Vapor Volumetric Flow | MMSCFD | 0 | 0 | 5.12458 | 5.12318 | 5.12179 |
| Std Liquid Volumetric Flow | sgpm | 0 | 0 | 152.105 | 152.071 | 152.038 |
| Specific Gravity | | | | 0.687595 | 0.687607 | 0.687619 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1520.6 | 1554.37 | 5069.71 | 5070.09 | 5070.46 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Tanks | |

## Connections

| | To Combustor | Total | Total-2 | Total-3 | Work |
|---|---|---|---|---|---|
| From Block | MIX-100 | MIX-102 | MIX-103 | MIX-104 | Condensate Tanks |
| To Block | -- | MIX-100 | MIX-100 | MIX-100 | MIX-102 |

## Stream Composition

| Mole Fraction | To Combustor % | Total % | Total-2 % | Total-3 % | Work % |
|---|---|---|---|---|---|
| Nitrogen | 9.30505 | 9.59407 | 9.30148 | 9.01669 | 9.59407 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Ethane | 1.42566 | 1.47162 | 1.42507 | 1.37981 | 1.47162 |
| Propane | 7.30249 | 7.32935 | 7.30266 | 7.27518 | 7.32935 |
| Isobutane | 2.293 | 2.28828 | 2.2931 | 2.29766 | 2.28828 |
| n-Butane | 10.5052 | 10.473 | 10.5057 | 10.5371 | 10.473 |
| Isopentane | 16.8513 | 16.7778 | 16.8521 | 16.9247 | 16.7778 |
| n-Pentane | 22.0713 | 21.9705 | 22.0724 | 22.172 | 21.9705 |
| i-Hexane | 12.0316 | 11.9725 | 12.0321 | 12.0906 | 11.9725 |
| n-Hexane | 6.66971 | 6.63653 | 6.67003 | 6.7029 | 6.63653 |
| Benzene | 0.811917 | 0.807828 | 0.811957 | 0.816008 | 0.807828 |
| Cyclohexane | 2.54479 | 2.53198 | 2.54491 | 2.55761 | 2.53198 |
| i-Heptane | 3.98025 | 3.96008 | 3.98045 | 4.00044 | 3.96008 |
| n-Heptane | 0.960877 | 0.955986 | 0.960924 | 0.96577 | 0.955986 |
| Toluene | 0.370241 | 0.368349 | 0.370259 | 0.372133 | 0.368349 |
| i-Octane | 2.66248 | 2.64894 | 2.66261 | 2.67603 | 2.64894 |
| n-Octane | 0.0717388 | 0.0713711 | 0.0717423 | 0.0721066 | 0.0713711 |
| Ethylbenzene | 0.0141049 | 0.0140326 | 0.0141056 | 0.0141773 | 0.0140326 |
| m-Xylene | 0.046013 | 0.045777 | 0.0460152 | 0.0462491 | 0.045777 |
| Isononane | 0.068302 | 0.0679515 | 0.0683054 | 0.0686527 | 0.0679515 |
| n-Nonane | 0.00887307 | 0.00882752 | 0.00887351 | 0.00891866 | 0.00882752 |
| Decane | 0.00221 | 0.00219865 | 0.00221011 | 0.00222136 | 0.00219865 |
| C10+ | 0.00303128 | 0.00301571 | 0.00303143 | 0.00304686 | 0.00301571 |

| Mass Fraction | To Combustor % | Total % | Total-2 % | Total-3 % | Work % |
|---|---|---|---|---|---|
| Nitrogen | 3.76392 | 3.89081 | 3.76237 | 3.63796 | 3.89081 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0.619 | 0.640601 | 0.618727 | 0.597565 | 0.640601 |
| Propane | 4.64967 | 4.67877 | 4.64965 | 4.62045 | 4.67877 |
| Isobutane | 1.92443 | 1.9254 | 1.92446 | 1.92341 | 1.9254 |
| n-Butane | 8.81659 | 8.81222 | 8.81676 | 8.82082 | 8.81222 |
| Isopentane | 17.5557 | 17.524 | 17.556 | 17.5871 | 17.524 |
| n-Pentane | 22.9939 | 22.9478 | 22.9944 | 23.0398 | 22.9478 |
| i-Hexane | 14.9714 | 14.9362 | 14.9717 | 15.0064 | 14.9362 |
| n-Hexane | 8.29939 | 8.27933 | 8.29956 | 8.31937 | 8.27933 |
| Benzene | 0.915766 | 0.913496 | 0.915785 | 0.918029 | 0.913496 |
| Cyclohexane | 3.09251 | 3.08485 | 3.09257 | 3.10014 | 3.08485 |
| i-Heptane | 5.75894 | 5.74449 | 5.75906 | 5.77335 | 5.74449 |
| n-Heptane | 1.39027 | 1.38675 | 1.3903 | 1.39378 | 1.38675 |
| Toluene | 0.492584 | 0.491328 | 0.492595 | 0.493837 | 0.491328 |
| i-Octane | 4.39155 | 4.38045 | 4.39164 | 4.40261 | 4.38045 |
| n-Octane | 0.118327 | 0.118023 | 0.11833 | 0.11863 | 0.118023 |
| Ethylbenzene | 0.0216226 | 0.021567 | 0.021623 | 0.021678 | 0.021567 |
| m-Xylene | 0.0705371 | 0.0703557 | 0.0705386 | 0.070718 | 0.0703557 |
| Isononane | 0.126492 | 0.126167 | 0.126495 | 0.126817 | 0.126167 |
| n-Nonane | 0.0164325 | 0.0163902 | 0.0164329 | 0.0164748 | 0.0163902 |
| Decane | 0.00454044 | 0.00452873 | 0.00454053 | 0.00455211 | 0.00452873 |
| C10+ | 0.00650549 | 0.00648871 | 0.00650562 | 0.00652222 | 0.00648871 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Tanks | |

| Mass Flow | To Combustor lb/h | Total lb/h | Total-2 lb/h | Total-3 lb/h | Work lb/h |
|---|---|---|---|---|---|
| Nitrogen | 1.19991 | 0.414472 | 0.399797 | 0.385638 | 0.395877 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0.197332 | 0.0682407 | 0.0657471 | 0.0633443 | 0.0651792 |
| Propane | 1.48228 | 0.498411 | 0.494081 | 0.489786 | 0.47605 |
| Isobutane | 0.613492 | 0.205106 | 0.204497 | 0.203889 | 0.195904 |
| n-Butane | 2.81066 | 0.938731 | 0.936886 | 0.935043 | 0.896616 |
| Isopentane | 5.5966 | 1.86677 | 1.86554 | 1.8643 | 1.78302 |
| n-Pentane | 7.33027 | 2.44454 | 2.44343 | 2.44231 | 2.33486 |
| i-Hexane | 4.77275 | 1.59109 | 1.59092 | 1.59074 | 1.51971 |
| n-Hexane | 2.64578 | 0.881965 | 0.881927 | 0.881887 | 0.842396 |
| Benzene | 0.291939 | 0.0973112 | 0.0973131 | 0.0973147 | 0.0929454 |
| Cyclohexane | 0.985867 | 0.328617 | 0.328623 | 0.328627 | 0.313874 |
| i-Heptane | 1.8359 | 0.611938 | 0.611969 | 0.611999 | 0.584484 |
| n-Heptane | 0.443208 | 0.147725 | 0.147736 | 0.147746 | 0.141098 |
| Toluene | 0.157032 | 0.0523393 | 0.052344 | 0.0523487 | 0.0499911 |
| i-Octane | 1.39999 | 0.466632 | 0.466664 | 0.466695 | 0.445697 |
| n-Octane | 0.0377217 | 0.0125726 | 0.0125739 | 0.0125753 | 0.0120085 |
| Ethylbenzene | 0.00689311 | 0.00229745 | 0.0022977 | 0.00229796 | 0.00219438 |
| m-Xylene | 0.0224867 | 0.00749472 | 0.00749556 | 0.00749639 | 0.00715848 |
| Isononane | 0.0403248 | 0.0134401 | 0.0134416 | 0.0134431 | 0.0128371 |
| n-Nonane | 0.00523856 | 0.00174598 | 0.00174619 | 0.00174639 | 0.00166765 |
| Decane | 0.00144745 | 0.000482427 | 0.000482485 | 0.000482542 | 0.000460784 |
| C10+ | 0.0020739 | 0.000691217 | 0.0006913 | 0.000691381 | 0.000660206 |

## Stream Properties

| Property | Units | To Combustor | Total | Total-2 | Total-3 | Work |
|---|---|---|---|---|---|---|
| Temperature | °F | 75.8673 | 75.8692 | 75.8692 | 75.8692 | 75.8692 |
| Pressure | psia | 12.88 | 12.88 | 12.88 | 12.88 | 12.88 |
| Molecular Weight | lb/lbmol | 69.2539 | 69.0763 | 69.2558 | 69.4313 | 69.0763 |
| Mass Density | lb/ft^3 | 0.309415 | 0.304395 | 0.309457 | 0.314597 | 0.304395 |
| Mass Flow | lb/h | 31.8792 | 10.6526 | 10.6262 | 10.6004 | 10.1747 |
| Std Vapor Volumetric Flow | MMSCFD | 0.00419245 | 0.00140453 | 0.00139742 | 0.0013905 | 0.00134152 |
| Std Liquid Volumetric Flow | sgpm | 0.0998404 | 0.0333633 | 0.0332795 | 0.0331977 | 0.0318664 |
| Specific Gravity | | | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 3682.58 | 3668.42 | 3682.75 | 3696.72 | 3668.42 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Tanks | | |

## Connections

| | Work-2 | Work-3 | 1 | 2 | 3 |
|---|---|---|---|---|---|
| From Block | Condensate Tanks-2 | Condensate Tanks-3 | Condensate Tanks | Condensate Tanks-2 | Condensate Tanks-3 |
| To Block | MIX-103 | MIX-104 | -- | -- | -- |

## Stream Composition

| Mole Fraction | Work-2 % | Work-3 % | 1 % | 2 % | 3 % |
|---|---|---|---|---|---|
| Nitrogen | 9.30148 | 9.01669 | 68.7872 | 68.0506 | 67.3041 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Ethane | 1.42507 | 1.37981 | 0.39909 | 0.394303 | 0.389471 |
| Propane | 7.30266 | 7.27518 | 2.40292 | 2.44261 | 2.48231 |
| Isobutane | 2.2931 | 2.29766 | 0.750966 | 0.767746 | 0.784703 |
| n-Butane | 10.5057 | 10.5371 | 3.43653 | 3.51679 | 3.59802 |
| Isopentane | 16.8521 | 16.9247 | 5.81592 | 5.95926 | 6.10461 |
| n-Pentane | 22.0724 | 22.172 | 7.65878 | 7.849 | 8.04192 |
| i-Hexane | 12.0321 | 12.0906 | 4.19468 | 4.30024 | 4.40735 |
| n-Hexane | 6.67003 | 6.7029 | 2.21506 | 2.27093 | 2.32762 |
| Benzene | 0.811957 | 0.816008 | 0.441701 | 0.452879 | 0.464224 |
| Cyclohexane | 2.54491 | 2.55761 | 1.05512 | 1.08181 | 1.10891 |
| i-Heptane | 3.98045 | 4.00044 | 1.35522 | 1.38949 | 1.42427 |
| n-Heptane | 0.960924 | 0.96577 | 0.317284 | 0.325309 | 0.333454 |
| Toluene | 0.370259 | 0.372133 | 0.192834 | 0.197721 | 0.202682 |
| i-Octane | 2.66261 | 2.67603 | 0.891441 | 0.913964 | 0.936825 |
| n-Octane | 0.0717423 | 0.0721066 | 0.0261228 | 0.0267839 | 0.027455 |
| Ethylbenzene | 0.0141056 | 0.0141773 | 0.00673041 | 0.00690074 | 0.00707362 |
| m-Xylene | 0.0460152 | 0.0462491 | 0.022726 | 0.0233011 | 0.0238848 |
| Isononane | 0.0683054 | 0.0686527 | 0.0237197 | 0.0243189 | 0.0249271 |
| n-Nonane | 0.00887351 | 0.00891866 | 0.00365351 | 0.00374576 | 0.0038394 |
| Decane | 0.00221011 | 0.00222136 | 0.0010027 | 0.0010279 | 0.00105348 |
| C10+ | 0.00303143 | 0.00304686 | 0.00125673 | 0.00128841 | 0.00132056 |

| Mass Fraction | Work-2 % | Work-3 % | 1 % | 2 % | 3 % |
|---|---|---|---|---|---|
| Nitrogen | 3.76237 | 3.63796 | 45.5193 | 44.6603 | 43.8039 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0.618727 | 0.597565 | 0.283473 | 0.277762 | 0.272082 |
| Propane | 4.64965 | 4.62045 | 2.50298 | 2.52332 | 2.54306 |
| Isobutane | 1.92446 | 1.92341 | 1.03106 | 1.0454 | 1.05963 |
| n-Butane | 8.81676 | 8.82082 | 4.71828 | 4.78864 | 4.8586 |
| Isopentane | 17.556 | 17.5871 | 9.91219 | 10.0727 | 10.2327 |
| n-Pentane | 22.9944 | 23.0398 | 13.053 | 13.2668 | 13.4801 |
| i-Hexane | 14.9717 | 15.0064 | 8.53895 | 8.6816 | 8.82401 |
| n-Hexane | 8.29956 | 8.31937 | 4.50912 | 4.58469 | 4.66015 |
| Benzene | 0.915785 | 0.918029 | 0.815018 | 0.828749 | 0.842461 |
| Cyclohexane | 3.09257 | 3.10014 | 2.09761 | 2.13294 | 2.16822 |
| i-Heptane | 5.75906 | 5.77335 | 3.20781 | 3.26178 | 3.31568 |
| n-Heptane | 1.3903 | 1.39378 | 0.75101 | 0.763652 | 0.776278 |
| Toluene | 0.492595 | 0.493837 | 0.419707 | 0.426794 | 0.433872 |
| i-Octane | 4.39164 | 4.40261 | 2.40541 | 2.44584 | 2.48621 |
| n-Octane | 0.11833 | 0.11863 | 0.0704881 | 0.0716757 | 0.072862 |
| Ethylbenzene | 0.021623 | 0.021678 | 0.0168789 | 0.0171633 | 0.0174473 |
| m-Xylene | 0.0705386 | 0.070718 | 0.0569936 | 0.0579537 | 0.0589126 |
| Isononane | 0.126495 | 0.126817 | 0.0718631 | 0.0730705 | 0.0742765 |
| n-Nonane | 0.0164329 | 0.0164748 | 0.011069 | 0.0112548 | 0.0114405 |
| Decane | 0.00454053 | 0.00455211 | 0.00337009 | 0.00342628 | 0.00348241 |
| C10+ | 0.00650562 | 0.00652222 | 0.00441227 | 0.00448617 | 0.00455998 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Tanks | | |

| Mass Flow | Work-2 lb/h | Work-3 lb/h | 1 lb/h | 2 lb/h | 3 lb/h |
|---|---|---|---|---|---|
| Nitrogen | 0.381841 | 0.368301 | 7.69229 | 7.57039 | 7.44937 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0.0627944 | 0.0604965 | 0.0479041 | 0.0470836 | 0.0462709 |
| Propane | 0.471891 | 0.467767 | 0.422977 | 0.42773 | 0.432478 |
| Isobutane | 0.195313 | 0.194723 | 0.174239 | 0.177207 | 0.180202 |
| n-Butane | 0.894809 | 0.893006 | 0.797341 | 0.811726 | 0.826264 |
| Isopentane | 1.78175 | 1.78049 | 1.67506 | 1.70743 | 1.7402 |
| n-Pentane | 2.33369 | 2.33251 | 2.20582 | 2.24887 | 2.29246 |
| i-Hexane | 1.51947 | 1.51922 | 1.44299 | 1.47162 | 1.50063 |
| n-Hexane | 0.842318 | 0.84224 | 0.761994 | 0.777154 | 0.792514 |
| Benzene | 0.0929426 | 0.0929397 | 0.13773 | 0.140482 | 0.143271 |
| Cyclohexane | 0.313864 | 0.313853 | 0.354474 | 0.361556 | 0.368731 |
| i-Heptane | 0.584484 | 0.584485 | 0.542087 | 0.552907 | 0.563872 |
| n-Heptane | 0.141101 | 0.141104 | 0.126913 | 0.129447 | 0.132015 |
| Toluene | 0.0499932 | 0.0499953 | 0.0709261 | 0.0723461 | 0.0737852 |
| i-Octane | 0.445705 | 0.445714 | 0.406489 | 0.414595 | 0.42281 |
| n-Octane | 0.0120092 | 0.0120099 | 0.0119118 | 0.0121498 | 0.012391 |
| Ethylbenzene | 0.00219451 | 0.00219465 | 0.00285236 | 0.00290936 | 0.00296712 |
| m-Xylene | 0.00715893 | 0.00715937 | 0.00963134 | 0.00982378 | 0.0100188 |
| Isononane | 0.0128379 | 0.0128387 | 0.0121441 | 0.0123862 | 0.0126316 |
| n-Nonane | 0.00166777 | 0.00166788 | 0.00187054 | 0.00190781 | 0.00194559 |
| Decane | 0.000460816 | 0.000460848 | 0.00056951 | 0.000580791 | 0.000592226 |
| C10+ | 0.000660253 | 0.000660299 | 0.000745628 | 0.000760453 | 0.000775478 |

## Stream Properties

| Property | Units | Work-2 | Work-3 | 1 | 2 | 3 |
|---|---|---|---|---|---|---|
| Temperature | °F | 75.8692 | 75.8692 | 75.8692 | 75.8692 | 75.8692 |
| Pressure | psia | 12.88 | 12.88 | 12.88 | 12.88 | 12.88 |
| Molecular Weight | lb/lbmol | 69.2558 | 69.4313 | 42.3329 | 42.6851 | 43.0422 |
| Mass Density | lb/ft^3 | 0.309457 | 0.314597 | 0.0953976 | 0.0962104 | 0.0970353 |
| Mass Flow | lb/h | 10.149 | 10.1238 | 16.899 | 16.9511 | 17.0062 |
| Std Vapor Volumetric Flow | MMSCFD | 0.00133466 | 0.00132799 | 0.00363569 | 0.00361681 | 0.00359847 |
| Std Liquid Volumetric Flow | sgpm | 0.0317849 | 0.0317052 | 0.0479725 | 0.0482089 | 0.0484541 |
| Specific Gravity | | | | 1.46165 | 1.47381 | 1.48614 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 3682.75 | 3696.72 | 1272.42 | 1303.2 | 1334.4 |

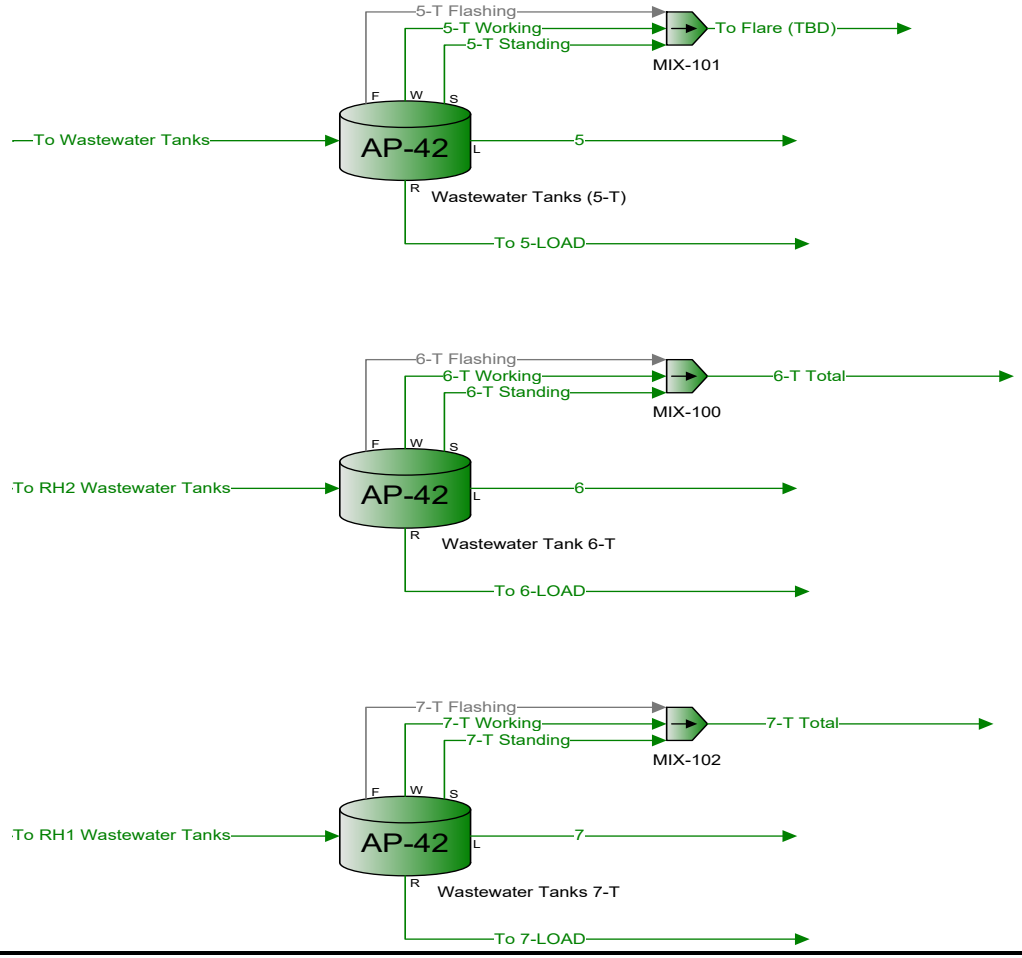
**Remarks**


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# Wastewater Tanks (5-T, 6-T, 7-T))
## Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

**Targa Northern Delaware, LLC – Red Hills Gas Processing Plant**




* User Specified Values
? Extrapolated or Approximate Values

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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

## Connections

| | To Flare (TBD) | To RH1 Wastewater Tanks | To RH2 Wastewater Tanks | To Wastewater Tanks | To 5-LOAD |
|---|---|---|---|---|---|
| From Block | MIX-101 | -- | -- | -- | Wastewater Tanks (5-T) |
| To Block | -- | Wastewater Tanks 7-T | Wastewater Tank 6-T | Wastewater Tanks (5-T) | -- |

## Stream Composition

| Mole Fraction | To Flare (TBD) % | To RH1 Wastewater Tanks % | To RH2 Wastewater Tanks % | To Wastewater Tanks % | To 5-LOAD % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 * | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 * | 0 |
| Nitrogen | 0 | 0 | 0 | 0 * | 0 |
| Methane | 0 | 0 | 0 | 0 * | 0 |
| Ethane | 0 | 0 | 0 | 0 * | 0 |
| Propane | 0 | 0 | 0 | 0 * | 0 |
| Isobutane | 0 | 0 | 0 | 0 * | 0 |
| n-Butane | 0 | 0 | 0 | 0 * | 0 |
| Isopentane | 0 | 0 | 0 | 0 * | 0 |
| n-Pentane | 0 | 0 | 0 | 0 * | 0 |
| Hexane | 0 | 0 | 0 | 0 * | 0 |
| n-Heptane | 0 | 0 | 0 | 0 * | 0 |
| n-Octane | 0 | 0 | 0 | 0 * | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 * | 0 |
| Benzene | 49.2436 | 0.12371 | 0.12371 | 0.12371 * | 0.121975 |
| Cyclohexane | 0 | 0 | 0 | 0 * | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 * | 0 |
| Toluene | 18.3258 | 0.141076 | 0.141076 | 0.141076 * | 0.140434 |
| 2,2-Dimethylpropane | 0 | 0 | 0 | 0 * | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 * | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 * | 0 |
| 2,3-Dimethylbutane | 0 | 0 | 0 | 0 * | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 * | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 | 0 * | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 * | 0 |
| cis-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 * | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 * | 0 |
| 2,2,4-Trimethylpentane | 0 | 0 | 0 | 0 * | 0 |
| 2-Methylheptane | 0 | 0 | 0 | 0 * | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 | 0 * | 0 |
| m-Xylene | 1.27709 | 0.0315503 | 0.0315503 | 0.0315503 * | 0.0315063 |
| p-Xylene | 0 | 0 | 0 | 0 * | 0 |
| Ethylbenzene | 0.24291 | 0.00679511 | 0.00679511 | 0.00679511 * | 0.00678676 |
| Isopropylbenzene | 0.0107075 | 0.000511187 | 0.000511187 | 0.000511187 * | 0.000510827 |
| n-Propylbenzene | 0.0105548 | 0.000650715 | 0.000650715 | 0.000650715 * | 0.000650365 |
| 1,3,5-Trimethylbenzene | 0.0100808 | 0.00075078 | 0.00075078 | 0.00075078 * | 0.00075045 |
| 1,2,4-Trimethylbenzene | 0.0191757 | 0.00171286 | 0.00171286 | 0.00171286 * | 0.00171224 |
| sec-Butylbenzene | 0.000823352 | 9.4133E-05 | 9.4133E-05 | 9.4133E-05 * | 9.41072E-05 |
| p-Isopropyltoluene | 0.000709886 | 8.58157E-05 | 8.58157E-05 | 8.58157E-05 * | 8.57936E-05 |
| n-Butylbenzene | 0.000323246 | 5.69636E-05 | 5.69636E-05 | 5.69636E-05 * | 5.69542E-05 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 * | 0 |
| Water | 30.8582 | 99.693 | 99.693 | 99.693 * | 99.6954 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 * | 0 |
| MDEA | 0 | 0 | 0 | 0 * | 0 |
| Piperazine | 0 | 0 | 0 | 0 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Fraction | To Flare (TBD) % | To RH1 Wastewater Tanks % | To RH2 Wastewater Tanks % | To Wastewater Tanks % | To 5-LOAD % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 * | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 * | 0 |
| Nitrogen | 0 | 0 | 0 | 0 * | 0 |
| Methane | 0 | 0 | 0 | 0 * | 0 |
| Ethane | 0 | 0 | 0 | 0 * | 0 |
| Propane | 0 | 0 | 0 | 0 * | 0 |
| Isobutane | 0 | 0 | 0 | 0 * | 0 |
| n-Butane | 0 | 0 | 0 | 0 * | 0 |
| Isopentane | 0 | 0 | 0 | 0 * | 0 |
| n-Pentane | 0 | 0 | 0 | 0 * | 0 |
| Hexane | 0 | 0 | 0 | 0 * | 0 |
| n-Heptane | 0 | 0 | 0 | 0 * | 0 |
| n-Octane | 0 | 0 | 0 | 0 * | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 * | 0 |
| Benzene | 61.4593 | 0.530016 | 0.530016 | 0.530016 * | 0.522624 |
| Cyclohexane | 0 | 0 | 0 | 0 * | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 * | 0 |
| Toluene | 26.9789 | 0.712954 | 0.712954 | 0.712954 * | 0.709767 |
| 2,2-Dimethylpropane | 0 | 0 | 0 | 0 * | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 * | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 * | 0 |
| 2,3-Dimethylbutane | 0 | 0 | 0 | 0 * | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 * | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 | 0 * | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 * | 0 |
| cis-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 * | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 * | 0 |
| 2,2,4-Trimethylpentane | 0 | 0 | 0 | 0 * | 0 |
| 2-Methylheptane | 0 | 0 | 0 | 0 * | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 | 0 * | 0 |
| m-Xylene | 2.16633 | 0.183718 | 0.183718 | 0.183718 * | 0.183477 |
| p-Xylene | 0 | 0 | 0 | 0 * | 0 |
| Ethylbenzene | 0.412048 | 0.039568 | 0.039568 | 0.039568 * | 0.0395228 |
| Isopropylbenzene | 0.0205628 | 0.00336992 | 0.00336992 | 0.00336992 * | 0.00336784 |
| n-Propylbenzene | 0.0202697 | 0.00428974 | 0.00428974 | 0.00428974 * | 0.0042878 |
| 1,3,5-Trimethylbenzene | 0.0193594 | 0.0049494 | 0.0049494 | 0.0049494 * | 0.00494766 |
| 1,2,4-Trimethylbenzene | 0.0368254 | 0.0112917 | 0.0112917 | 0.0112917 * | 0.0112886 |
| sec-Butylbenzene | 0.0017657 | 0.000692978 | 0.000692978 | 0.000692978 * | 0.000692847 |
| p-Isopropyltoluene | 0.00152237 | 0.000631748 | 0.000631748 | 0.000631748 * | 0.00063164 |
| n-Butylbenzene | 0.000693209 | 0.000419348 | 0.000419348 | 0.000419348 * | 0.000419315 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 * | 0 |
| Water | 8.88244 | 98.5081 | 98.5081 | 98.5081 * | 98.519 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 * | 0 |
| MDEA | 0 | 0 | 0 | 0 * | 0 |
| Piperazine | 0 | 0 | 0 | 0 * | 0 |

| Mass Flow | To Flare (TBD) lb/h | To RH1 Wastewater Tanks lb/h | To RH2 Wastewater Tanks lb/h | To Wastewater Tanks lb/h | To 5-LOAD lb/h |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 * | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 * | 0 |
| Nitrogen | 0 | 0 | 0 | 0 * | 0 |
| Methane | 0 | 0 | 0 | 0 * | 0 |
| Ethane | 0 | 0 | 0 | 0 * | 0 |
| Propane | 0 | 0 | 0 | 0 * | 0 |
| Isobutane | 0 | 0 | 0 | 0 * | 0 |
| n-Butane | 0 | 0 | 0 | 0 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Flow | To Flare (TBD) lb/h | To RH1 Wastewater Tanks lb/h | To RH2 Wastewater Tanks lb/h | To Wastewater Tanks lb/h | To 5-LOAD lb/h |
|---|---|---|---|---|---|
| Isopentane | 0 | 0 | 0 | 0 * | 0 |
| n-Pentane | 0 | 0 | 0 | 0 * | 0 |
| Hexane | 0 | 0 | 0 | 0 * | 0 |
| n-Heptane | 0 | 0 | 0 | 0 * | 0 |
| n-Octane | 0 | 0 | 0 | 0 * | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 * | 0 |
| Benzene | 0.424818 | 20.1349 | 20.1349 | 30.2023 * | 29.7775 |
| Cyclohexane | 0 | 0 | 0 | 0 * | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 * | 0 |
| Toluene | 0.186483 | 27.0845 | 27.0845 | 40.6267 * | 40.4403 |
| 2,2-Dimethylpropane | 0 | 0 | 0 | 0 * | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 * | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 * | 0 |
| 2,3-Dimethylbutane | 0 | 0 | 0 | 0 * | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 * | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 | 0 * | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 * | 0 |
| cis-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 * | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 * | 0 |
| 2,2,4-Trimethylpentane | 0 | 0 | 0 | 0 * | 0 |
| 2-Methylheptane | 0 | 0 | 0 | 0 * | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 | 0 * | 0 |
| m-Xylene | 0.0149741 | 6.97928 | 6.97928 | 10.4689 * | 10.4539 |
| p-Xylene | 0 | 0 | 0 | 0 * | 0 |
| Ethylbenzene | 0.00284816 | 1.50315 | 1.50315 | 2.25473 * | 2.25188 |
| Isopropylbenzene | 0.000142134 | 0.128021 | 0.128021 | 0.192031 * | 0.191889 |
| n-Propylbenzene | 0.000140108 | 0.162964 | 0.162964 | 0.244445 * | 0.244305 |
| 1,3,5-Trimethylbenzene | 0.000133816 | 0.188024 | 0.188024 | 0.282035 * | 0.281902 |
| 1,2,4-Trimethylbenzene | 0.000254544 | 0.428964 | 0.428964 | 0.643445 * | 0.643191 |
| sec-Butylbenzene | 1.22049E-05 | 0.0263256 | 0.0263256 | 0.0394884 * | 0.0394762 |
| p-Isopropyltoluene | 1.05229E-05 | 0.0239996 | 0.0239996 | 0.0359994 * | 0.0359888 |
| n-Butylbenzene | 4.79159E-06 | 0.0159307 | 0.0159307 | 0.023896 * | 0.0238912 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 * | 0 |
| Water | 0.0613971 | 3742.24 | 3742.24 | 5613.36 * | 5613.29 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 * | 0 |
| MDEA | 0 | 0 | 0 | 0 * | 0 |
| Piperazine | 0 | 0 | 0 | 0 * | 0 |

## Stream Properties

| Property | Units | To Flare (TBD) | To RH1 Wastewater Tanks | To RH2 Wastewater Tanks | To Wastewater Tanks | To 5-LOAD |
|---|---|---|---|---|---|---|
| Temperature | °F | 78.8795 | 75 * | 75 * | 75 * | 78.8795 |
| Pressure | psia | 12.76 | 14.6959 * | 14.6959 * | 14.6959 * | 12.76 |
| Molecular Weight | lb/lbmol | 62.5863 | 18.232 | 18.232 | 18.232 | 18.2304 |
| Mass Density | lb/ft^3 | 54.817 | 62.1083 | 62.1083 | 62.1083 | 62.0685 |
| Mass Flow | lb/h | 0.691219 | 3798.91 | 3798.91 | 5698.37 | 5697.68 |
| Std Vapor Volumetric Flow | MMSCFD | 0.000100587 | 1.89771 | 1.89771 | 2.84657 | 2.84647 |
| Std Liquid Volumetric Flow | sgpm | 0.0015531 | 7.61035 * | 7.61035 * | 11.4155 * | 11.414 |
| Specific Gravity | | 0.878919 | 0.995825 | 0.995825 | 0.995825 | 0.995186 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 2759.79 | 63.3085 | 63.3085 | 63.3085 | 63.2133 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

## Connections

| | To 6-LOAD | To 7-LOAD | 5 | 5-T Flashing | 5-T Standing |
|---|---|---|---|---|---|
| From Block | Wastewater Tank 6-T | Wastewater Tanks 7-T | Wastewater Tanks (5-T) | Wastewater Tanks (5-T) | Wastewater Tanks (5-T) |
| To Block | -- | -- | -- | MIX-101 | MIX-101 |

## Stream Composition

| Mole Fraction | To 6-LOAD % | To 7-LOAD % | 5 % | 5-T Flashing % | 5-T Standing % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0 | 0 | 0 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0 | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 | 0 |
| n-Butane | 0 | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| Benzene | 0.122747 | 0.121924 | 49.4053 | 47.8493 | 49.2436 |
| Cyclohexane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Toluene | 0.14072 | 0.140414 | 18.4219 | 18.3715 | 18.3258 |
| 2,2-Dimethylpropane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylbutane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| cis-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,2,4-Trimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylheptane | 0 | 0 | 0 | 0 | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| m-Xylene | 0.0315259 | 0.0315049 | 1.27787 | 1.3194 | 1.27709 |
| p-Xylene | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.00679048 | 0.0067865 | 0.24323 | 0.252453 | 0.24291 |
| Isopropylbenzene | 0.000510987 | 0.000510815 | 0.0106641 | 0.011295 | 0.0107075 |
| n-Propylbenzene | 0.000650521 | 0.000650354 | 0.0105065 | 0.0111655 | 0.0105548 |
| 1,3,5-Trimethylbenzene | 0.000750597 | 0.000750439 | 0.0100167 | 0.010711 | 0.0100808 |
| 1,2,4-Trimethylbenzene | 0.00171251 | 0.00171222 | 0.019048 | 0.0204132 | 0.0191757 |
| sec-Butylbenzene | 9.41187E-05 | 9.41063E-05 | 0.000814185 | 0.000889846 | 0.000823352 |
| p-Isopropyltoluene | 8.58034E-05 | 8.57929E-05 | 0.00070251 | 0.000765184 | 0.000709886 |
| n-Butylbenzene | 5.69583E-05 | 5.69538E-05 | 0.000319253 | 0.000351164 | 0.000323246 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Water | 99.6944 | 99.6955 | 30.5997 | 32.1518 | 30.8582 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 | 0 |
| MDEA | 0 | 0 | 0 | 0 | 0 |
| Piperazine | 0 | 0 | 0 | 0 | 0 |

| Mass Fraction | To 6-LOAD % | To 7-LOAD % | 5 % | 5-T Flashing % | 5-T Standing % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0 | 0 | 0 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Fraction | To 6-LOAD % | To 7-LOAD % | 5 % | 5-T Flashing % | 5-T Standing % |
|---|---|---|---|---|---|
| Ethane | 0 | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 | 0 |
| n-Butane | 0 | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| Benzene | 0.525916 | 0.522407 | 61.495 | 60.4483 | 61.4593 |
| Cyclohexane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Toluene | 0.711186 | 0.70967 | 27.0473 | 27.3764 | 26.9789 |
| 2,2-Dimethylpropane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylbutane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| cis-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,2,4-Trimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylheptane | 0 | 0 | 0 | 0 | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| m-Xylene | 0.183584 | 0.18347 | 2.1618 | 2.26542 | 2.16633 |
| p-Xylene | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.0395429 | 0.0395213 | 0.411478 | 0.433465 | 0.412048 |
| Isopropylbenzene | 0.00336877 | 0.00336777 | 0.0204243 | 0.021956 | 0.0205628 |
| n-Propylbenzene | 0.00428867 | 0.00428774 | 0.0201225 | 0.0217042 | 0.0202697 |
| 1,3,5-Trimethylbenzene | 0.00494843 | 0.0049476 | 0.0191843 | 0.0208208 | 0.0193594 |
| 1,2,4-Trimethylbenzene | 0.01129 | 0.0112885 | 0.0364815 | 0.0396805 | 0.0368254 |
| sec-Butylbenzene | 0.000692905 | 0.000692843 | 0.00174134 | 0.0019316 | 0.0017657 |
| p-Isopropyltoluene | 0.000631688 | 0.000631636 | 0.0015025 | 0.001661 | 0.00152237 |
| n-Butylbenzene | 0.00041933 | 0.000419314 | 0.000682804 | 0.000762279 | 0.000693209 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Water | 98.5141 | 98.5193 | 8.7843 | 9.36782 | 8.88244 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 | 0 |
| MDEA | 0 | 0 | 0 | 0 | 0 |
| Piperazine | 0 | 0 | 0 | 0 | 0 |

| Mass Flow | To 6-LOAD lb/h | To 7-LOAD lb/h | 5 lb/h | 5-T Flashing lb/h | 5-T Standing lb/h |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0 | 0 | 0 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0 | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 | 0 |
| n-Butane | 0 | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| Benzene | 19.9777 | 19.8433 | 0.415398 | 0 | 0.104451 |
| Cyclohexane | 0 | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Flow | To 6-LOAD lb/h | To 7-LOAD lb/h | 5 lb/h | 5-T Flashing lb/h | 5-T Standing lb/h |
|---|---|---|---|---|---|
| Methylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Toluene | 27.0155 | 26.9564 | 0.182704 | 0 | 0.0458508 |
| 2,2-Dimethylpropane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylbutane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| cis-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,2,4-Trimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylheptane | 0 | 0 | 0 | 0 | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| m-Xylene | 6.97374 | 6.96898 | 0.0146029 | 0 | 0.0036817 |
| p-Xylene | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 1.5021 | 1.50119 | 0.00277953 | 0 | 0.00070028 |
| Isopropylbenzene | 0.127968 | 0.127923 | 0.000137966 | 0 | 3.49467E-05 |
| n-Propylbenzene | 0.162912 | 0.162867 | 0.000135927 | 0 | 3.44485E-05 |
| 1,3,5-Trimethylbenzene | 0.187974 | 0.187931 | 0.00012959 | 0 | 3.29015E-05 |
| 1,2,4-Trimethylbenzene | 0.42887 | 0.428788 | 0.000246432 | 0 | 6.2585E-05 |
| sec-Butylbenzene | 0.0263211 | 0.0263172 | 1.17627E-05 | 0 | 3.00083E-06 |
| p-Isopropyltoluene | 0.0239957 | 0.0239923 | 1.01493E-05 | 0 | 2.58728E-06 |
| n-Butylbenzene | 0.0159289 | 0.0159274 | 4.61233E-06 | 0 | 1.17812E-06 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Water | 3742.21 | 3742.2 | 0.0593378 | 0 | 0.0150958 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 | 0 |
| MDEA | 0 | 0 | 0 | 0 | 0 |
| Piperazine | 0 | 0 | 0 | 0 | 0 |

## Stream Properties

| Property | Units | To 6-LOAD | To 7-LOAD | 5 | 5-T Flashing | 5-T Standing |
|---|---|---|---|---|---|---|
| Temperature | °F | 78.8795 | 79.1737 | 78.8795 | 78.8795 | 78.8795 |
| Pressure | psia | 12.76 | 12.76 | 12.76 | 12.76 | 12.76 |
| Molecular Weight | lb/lbmol | 18.2311 | 18.2304 | 62.7553 | 61.8312 | 62.5863 |
| Mass Density | lb/ft^3 | 62.068 | 62.0653 | 54.8099 | | 54.817 |
| Mass Flow | lb/h | 3798.66 | 3798.44 | 0.675499 | 0 | 0.169951 |
| Std Vapor Volumetric Flow | MMSCFD | 1.89768 | 1.89764 | 9.80345E-05 | 0 | 2.47314E-05 |
| Std Liquid Volumetric Flow | sgpm | 7.60978 | 7.60928 | 0.00151796 | 0 | 0.000381862 |
| Specific Gravity | | 0.995179 | 0.995135 | 0.878804 | | 0.878919 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 63.2557 | 63.2104 | 2770.05 | 2713.18 | 2759.79 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

## Connections

| | 5-T Working | 6 | 6-T Flashing | 6-T Standing | 6-T Total |
|---|---|---|---|---|---|
| From Block | Wastewater Tanks (5-T) | Wastewater Tank 6-T | Wastewater Tank 6-T | Wastewater Tank 6-T | MIX-100 |
| To Block | MIX-101 | -- | MIX-100 | MIX-100 | -- |

## Stream Composition

| Mole Fraction | 5-T Working % | 6 % | 6-T Flashing % | 6-T Standing % | 6-T Total % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0 | 0 | 0 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0 | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 | 0 |
| n-Butane | 0 | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| Benzene | 49.2436 | 49.4993 | 47.8493 | 49.2436 | 49.2436 |
| Cyclohexane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Toluene | 18.3258 | 18.3723 | 18.3715 | 18.3258 | 18.3258 |
| 2,2-Dimethylpropane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylbutane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| cis-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,2,4-Trimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylheptane | 0 | 0 | 0 | 0 | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| m-Xylene | 1.27709 | 1.27248 | 1.3194 | 1.27709 | 1.27709 |
| p-Xylene | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.24291 | 0.241955 | 0.252453 | 0.24291 | 0.24291 |
| Isopropylbenzene | 0.0107075 | 0.0106147 | 0.011295 | 0.0107075 | 0.0107075 |
| n-Propylbenzene | 0.0105548 | 0.0104568 | 0.0111655 | 0.0105548 | 0.0105548 |
| 1,3,5-Trimethylbenzene | 0.0100808 | 0.00997212 | 0.010711 | 0.0100808 | 0.0100808 |
| 1,2,4-Trimethylbenzene | 0.0191757 | 0.0189616 | 0.0204132 | 0.0191757 | 0.0191757 |
| sec-Butylbenzene | 0.000823352 | 0.000810622 | 0.000889846 | 0.000823352 | 0.000823352 |
| p-Isopropyltoluene | 0.000709886 | 0.000699436 | 0.000765184 | 0.000709886 | 0.000709886 |
| n-Butylbenzene | 0.000323246 | 0.000317842 | 0.000351164 | 0.000323246 | 0.000323246 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Water | 30.8582 | 30.5621 | 32.1518 | 30.8582 | 30.8582 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 | 0 |
| MDEA | 0 | 0 | 0 | 0 | 0 |
| Piperazine | 0 | 0 | 0 | 0 | 0 |

| Mass Fraction | 5-T Working % | 6 % | 6-T Flashing % | 6-T Standing % | 6-T Total % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0 | 0 | 0 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Fraction | 5-T Working % | 6 % | 6-T Flashing % | 6-T Standing % | 6-T Total % |
|---|---|---|---|---|---|
| Ethane | 0 | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 | 0 |
| n-Butane | 0 | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| Benzene | 61.4593 | 61.5987 | 60.4483 | 61.4593 | 61.4593 |
| Cyclohexane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Toluene | 26.9789 | 26.9686 | 27.3764 | 26.9789 | 26.9789 |
| 2,2-Dimethylpropane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylbutane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| cis-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,2,4-Trimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylheptane | 0 | 0 | 0 | 0 | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| m-Xylene | 2.16633 | 2.15223 | 2.26542 | 2.16633 | 2.16633 |
| p-Xylene | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.412048 | 0.409234 | 0.433465 | 0.412048 | 0.412048 |
| Isopropylbenzene | 0.0205628 | 0.0203252 | 0.021956 | 0.0205628 | 0.0205628 |
| n-Propylbenzene | 0.0202697 | 0.020023 | 0.0217042 | 0.0202697 | 0.0202697 |
| 1,3,5-Trimethylbenzene | 0.0193594 | 0.0190949 | 0.0208208 | 0.0193594 | 0.0193594 |
| 1,2,4-Trimethylbenzene | 0.0368254 | 0.0363081 | 0.0396805 | 0.0368254 | 0.0368254 |
| sec-Butylbenzene | 0.0017657 | 0.00173334 | 0.0019316 | 0.0017657 | 0.0017657 |
| p-Isopropyltoluene | 0.00152237 | 0.0014956 | 0.001661 | 0.00152237 | 0.00152237 |
| n-Butylbenzene | 0.000693209 | 0.000679638 | 0.000762279 | 0.000693209 | 0.000693209 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Water | 8.88244 | 8.77161 | 9.36782 | 8.88244 | 8.88244 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 | 0 |
| MDEA | 0 | 0 | 0 | 0 | 0 |
| Piperazine | 0 | 0 | 0 | 0 | 0 |

| Mass Flow | 5-T Working lb/h | 6 lb/h | 6-T Flashing lb/h | 6-T Standing lb/h | 6-T Total lb/h |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0 | 0 | 0 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0 | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 | 0 |
| n-Butane | 0 | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| Benzene | 0.320368 | 0.2778 | 0 | 0.0261127 | 0.157106 |
| Cyclohexane | 0 | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Flow | 5-T Working lb/h | 6 lb/h | 6-T Flashing lb/h | 6-T Standing lb/h | 6-T Total lb/h |
|---|---|---|---|---|---|
| Methylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Toluene | 0.140632 | 0.121624 | 0 | 0.0114627 | 0.0689648 |
| 2,2-Dimethylpropane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylbutane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| cis-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,2,4-Trimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylheptane | 0 | 0 | 0 | 0 | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| m-Xylene | 0.0112924 | 0.00970619 | 0 | 0.000920425 | 0.00553769 |
| p-Xylene | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.00214788 | 0.00184558 | 0 | 0.00017507 | 0.0010533 |
| Isopropylbenzene | 0.000107187 | 9.16633E-05 | 0 | 8.73668E-06 | 5.25638E-05 |
| n-Propylbenzene | 0.000105659 | 9.03004E-05 | 0 | 8.61212E-06 | 5.18144E-05 |
| 1,3,5-Trimethylbenzene | 0.000100914 | 8.61147E-05 | 0 | 8.22537E-06 | 4.94875E-05 |
| 1,2,4-Trimethylbenzene | 0.000191959 | 0.000163743 | 0 | 1.56463E-05 | 9.41349E-05 |
| sec-Butylbenzene | 9.20404E-06 | 7.81709E-06 | 0 | 7.50207E-07 | 4.51358E-06 |
| p-Isopropyltoluene | 7.93563E-06 | 6.74489E-06 | 0 | 6.46821E-07 | 3.89157E-06 |
| n-Butylbenzene | 3.61348E-06 | 3.06505E-06 | 0 | 2.94529E-07 | 1.77202E-06 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Water | 0.0463013 | 0.0395585 | 0 | 0.00377395 | 0.0227058 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 | 0 |
| MDEA | 0 | 0 | 0 | 0 | 0 |
| Piperazine | 0 | 0 | 0 | 0 | 0 |

## Stream Properties

| Property | Units | 5-T Working | 6 | 6-T Flashing | 6-T Standing | 6-T Total |
|---|---|---|---|---|---|---|
| Temperature | °F | 78.8795 | 78.8795 | 78.8795 | 78.8795 | 78.8795 |
| Pressure | psia | 12.76 | 12.76 | 12.76 | 12.76 | 12.76 |
| Molecular Weight | lb/lbmol | 62.5863 | 62.769 | 61.8312 | 62.5863 | 62.5863 |
| Mass Density | lb/ft^3 | 54.817 | 54.8093 | | 54.817 | 54.817 |
| Mass Flow | lb/h | 0.521268 | 0.450983 | 0 | 0.0424877 | 0.255625 |
| Std Vapor Volumetric Flow | MMSCFD | 7.58554E-05 | 6.54365E-05 | 0 | 6.18286E-06 | 3.71988E-05 |
| Std Liquid Volumetric Flow | sgpm | 0.00117123 | 0.00101344 | 0 | 9.54655E-05 | 0.000574363 |
| Specific Gravity | | 0.878919 | 0.878795 | | 0.878919 | 0.878919 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 2759.79 | 2770.97 | 2713.18 | 2759.79 | 2759.79 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

## Connections

| | 6-T Working | 7 | 7-T Flashing | 7-T Standing | 7-T Total |
|---|---|---|---|---|---|
| From Block | Wastewater Tank 6-T | Wastewater Tanks 7-T | Wastewater Tanks 7-T | Wastewater Tanks 7-T | MIX-102 |
| To Block | MIX-100 | -- | MIX-102 | MIX-102 | -- |

## Stream Composition

| Mole Fraction | 6-T Working % | 7 % | 7-T Flashing % | 7-T Standing % | 7-T Total % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0 | 0 | 0 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0 | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 | 0 |
| n-Butane | 0 | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| Benzene | 49.2436 | 49.3992 | 47.8023 | 49.1905 | 49.1905 |
| Cyclohexane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Toluene | 18.3258 | 18.4251 | 18.3728 | 18.3278 | 18.3278 |
| 2,2-Dimethylpropane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylbutane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| cis-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,2,4-Trimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylheptane | 0 | 0 | 0 | 0 | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| m-Xylene | 1.27709 | 1.27822 | 1.32082 | 1.2787 | 1.2787 |
| p-Xylene | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.24291 | 0.243314 | 0.252776 | 0.243272 | 0.243272 |
| Isopropylbenzene | 0.0107075 | 0.0106674 | 0.0113151 | 0.0107296 | 0.0107296 |
| n-Propylbenzene | 0.0105548 | 0.0105098 | 0.0111864 | 0.0105778 | 0.0105778 |
| 1,3,5-Trimethylbenzene | 0.0100808 | 0.0100196 | 0.0107327 | 0.0101044 | 0.0101044 |
| 1,2,4-Trimethylbenzene | 0.0191757 | 0.0190538 | 0.0204558 | 0.019222 | 0.019222 |
| sec-Butylbenzene | 0.000823352 | 0.000814422 | 0.000892147 | 0.000825823 | 0.000825823 |
| p-Isopropyltoluene | 0.000709886 | 0.000702715 | 0.000767098 | 0.000711941 | 0.000711941 |
| n-Butylbenzene | 0.000323246 | 0.000319347 | 0.000352136 | 0.000324278 | 0.000324278 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Water | 30.8582 | 30.6021 | 32.1956 | 30.9073 | 30.9073 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 | 0 |
| MDEA | 0 | 0 | 0 | 0 | 0 |
| Piperazine | 0 | 0 | 0 | 0 | 0 |

| Mass Fraction | 6-T Working % | 7 % | 7-T Flashing % | 7-T Standing % | 7-T Total % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0 | 0 | 0 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Fraction | 6-T Working % | 7 % | 7-T Flashing % | 7-T Standing % | 7-T Total % |
|---|---|---|---|---|---|
| Ethane | 0 | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 | 0 |
| n-Butane | 0 | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| Benzene | 61.4593 | 61.4882 | 60.4141 | 61.421 | 61.421 |
| Cyclohexane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Toluene | 26.9789 | 27.0524 | 27.3897 | 26.9942 | 26.9942 |
| 2,2-Dimethylpropane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylbutane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| cis-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,2,4-Trimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylheptane | 0 | 0 | 0 | 0 | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| m-Xylene | 2.16633 | 2.16243 | 2.26881 | 2.17005 | 2.17005 |
| p-Xylene | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.412048 | 0.411627 | 0.4342 | 0.412851 | 0.412851 |
| Isopropylbenzene | 0.0205628 | 0.0204309 | 0.0220042 | 0.0206147 | 0.0206147 |
| n-Propylbenzene | 0.0202697 | 0.0201291 | 0.0217539 | 0.0203229 | 0.0203229 |
| 1,3,5-Trimethylbenzene | 0.0193594 | 0.0191903 | 0.0208715 | 0.0194135 | 0.0194135 |
| 1,2,4-Trimethylbenzene | 0.0368254 | 0.0364931 | 0.0397799 | 0.036931 | 0.036931 |
| sec-Butylbenzene | 0.0017657 | 0.00174187 | 0.0019374 | 0.00177181 | 0.00177181 |
| p-Isopropyltoluene | 0.00152237 | 0.00150296 | 0.00166584 | 0.00152748 | 0.00152748 |
| n-Butylbenzene | 0.000693209 | 0.000683015 | 0.000764704 | 0.000695742 | 0.000695742 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Water | 8.88244 | 8.78513 | 9.38447 | 8.90064 | 8.90064 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 | 0 |
| MDEA | 0 | 0 | 0 | 0 | 0 |
| Piperazine | 0 | 0 | 0 | 0 | 0 |

| Mass Flow | 6-T Working lb/h | 7 lb/h | 7-T Flashing lb/h | 7-T Standing lb/h | 7-T Total lb/h |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0 | 0 | 0 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0 | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 | 0 |
| n-Butane | 0 | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| Benzene | 0.130993 | 0.27689 | 0 | 0.0762703 | 0.291534 |
| Cyclohexane | 0 | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Flow | 6-T Working lb/h | 7 lb/h | 7-T Flashing lb/h | 7-T Standing lb/h | 7-T Total lb/h |
|---|---|---|---|---|---|
| Methylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Toluene | 0.0575021 | 0.12182 | 0 | 0.0335203 | 0.128128 |
| 2,2-Dimethylpropane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylbutane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| cis-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,2,4-Trimethylpentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylheptane | 0 | 0 | 0 | 0 | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| m-Xylene | 0.00461726 | 0.00973773 | 0 | 0.00269469 | 0.0103001 |
| p-Xylene | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.00087823 | 0.00185361 | 0 | 0.000512663 | 0.00195959 |
| Isopropylbenzene | 4.38271E-05 | 9.20029E-05 | 0 | 2.55985E-05 | 9.78474E-05 |
| n-Propylbenzene | 4.32023E-05 | 9.06438E-05 | 0 | 2.52363E-05 | 9.64627E-05 |
| 1,3,5-Trimethylbenzene | 4.12621E-05 | 8.64164E-05 | 0 | 2.4107E-05 | 9.21461E-05 |
| 1,2,4-Trimethylbenzene | 7.84887E-05 | 0.000164333 | 0 | 4.58595E-05 | 0.000175293 |
| sec-Butylbenzene | 3.76338E-06 | 7.84388E-06 | 0 | 2.20017E-06 | 8.40989E-06 |
| p-Isopropyltoluene | 3.24475E-06 | 6.76801E-06 | 0 | 1.89676E-06 | 7.25015E-06 |
| n-Butylbenzene | 1.47749E-06 | 3.0757E-06 | 0 | 8.63946E-07 | 3.30233E-06 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Water | 0.0189318 | 0.0395606 | 0 | 0.0110525 | 0.0422468 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 | 0 |
| MDEA | 0 | 0 | 0 | 0 | 0 |
| Piperazine | 0 | 0 | 0 | 0 | 0 |

## Stream Properties

| Property | Units | 6-T Working | 7 | 7-T Flashing | 7-T Standing | 7-T Total |
|---|---|---|---|---|---|---|
| Temperature | °F | 78.8795 | 79.1737 | 79.1737 | 79.1737 | 79.1737 |
| Pressure | psia | 12.76 | 12.76 | 12.76 | 12.76 | 12.76 |
| Molecular Weight | lb/lbmol | 62.5863 | 62.7544 | 61.8056 | 62.5577 | 62.5577 |
| Mass Density | lb/ft^3 | 54.817 | 54.8006 | | 54.809 | 54.809 |
| Mass Flow | lb/h | 0.213138 | 0.450313 | 0 | 0.124176 | 0.474649 |
| Std Vapor Volumetric Flow | MMSCFD | 3.1016E-05 | 6.53544E-05 | 0 | 1.80785E-05 | 6.9103E-05 |
| Std Liquid Volumetric Flow | sgpm | 0.000478898 | 0.00101193 | 0 | 0.000279006 | 0.00106647 |
| Specific Gravity | | 0.878919 | 0.878656 | | 0.878789 | 0.878789 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 2759.79 | 2769.99 | 2711.6 | 2758.02 | 2758.02 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

## Connections

| | 7-T Working | | | | |
|---|---|---|---|---|---|
| From Block | Wastewater Tanks 7-T | | | | |
| To Block | MIX-102 | | | | |

## Stream Composition

| Mole Fraction | 7-T Working % | | | | |
|---|---|---|---|---|---|
| H2S | 0 | | | | |
| Carbon Dioxide | 0 | | | | |
| Nitrogen | 0 | | | | |
| Methane | 0 | | | | |
| Ethane | 0 | | | | |
| Propane | 0 | | | | |
| Isobutane | 0 | | | | |
| n-Butane | 0 | | | | |
| Isopentane | 0 | | | | |
| n-Pentane | 0 | | | | |
| Hexane | 0 | | | | |
| n-Heptane | 0 | | | | |
| n-Octane | 0 | | | | |
| Methylcyclopentane | 0 | | | | |
| Benzene | 49.1905 | | | | |
| Cyclohexane | 0 | | | | |
| Methylcyclohexane | 0 | | | | |
| Toluene | 18.3278 | | | | |
| 2,2-Dimethylpropane | 0 | | | | |
| 2-Methylpentane | 0 | | | | |
| 3-Methylpentane | 0 | | | | |
| 2,3-Dimethylbutane | 0 | | | | |
| 1,1-Dimethylcyclopentane | 0 | | | | |
| 2,3-Dimethylpentane | 0 | | | | |
| 2-Methylhexane | 0 | | | | |
| cis-1,3-Dimethylcyclopentane | 0 | | | | |
| trans-1,3-Dimethylcyclopentane | 0 | | | | |
| 2,2,4-Trimethylpentane | 0 | | | | |
| 2-Methylheptane | 0 | | | | |
| cis-1,2-Dimethylcyclohexane | 0 | | | | |
| m-Xylene | 1.2787 | | | | |
| p-Xylene | 0 | | | | |
| Ethylbenzene | 0.243272 | | | | |
| Isopropylbenzene | 0.0107296 | | | | |
| n-Propylbenzene | 0.0105778 | | | | |
| 1,3,5-Trimethylbenzene | 0.0101044 | | | | |
| 1,2,4-Trimethylbenzene | 0.019222 | | | | |
| sec-Butylbenzene | 0.000825823 | | | | |
| p-Isopropyltoluene | 0.000711941 | | | | |
| n-Butylbenzene | 0.000324278 | | | | |
| Ethylcyclohexane | 0 | | | | |
| Water | 30.9073 | | | | |
| CHEMTHERM 550 | 0 | | | | |
| UCARSOL™ AP-814 | 0 | | | | |
| MDEA | 0 | | | | |
| Piperazine | 0 | | | | |

| Mass Fraction | 7-T Working % | | | | |
|---|---|---|---|---|---|
| H2S | 0 | | | | |
| Carbon Dioxide | 0 | | | | |
| Nitrogen | 0 | | | | |
| Methane | 0 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Fraction | 7-T Working % | | | | |
|---|---|---|---|---|---|
| Ethane | 0 | | | | |
| Propane | 0 | | | | |
| Isobutane | 0 | | | | |
| n-Butane | 0 | | | | |
| Isopentane | 0 | | | | |
| n-Pentane | 0 | | | | |
| Hexane | 0 | | | | |
| n-Heptane | 0 | | | | |
| n-Octane | 0 | | | | |
| Methylcyclopentane | 0 | | | | |
| Benzene | 61.421 | | | | |
| Cyclohexane | 0 | | | | |
| Methylcyclohexane | 0 | | | | |
| Toluene | 26.9942 | | | | |
| 2,2-Dimethylpropane | 0 | | | | |
| 2-Methylpentane | 0 | | | | |
| 3-Methylpentane | 0 | | | | |
| 2,3-Dimethylbutane | 0 | | | | |
| 1,1-Dimethylcyclopentane | 0 | | | | |
| 2,3-Dimethylpentane | 0 | | | | |
| 2-Methylhexane | 0 | | | | |
| cis-1,3-Dimethylcyclopentane | 0 | | | | |
| trans-1,3-Dimethylcyclopentane | 0 | | | | |
| 2,2,4-Trimethylpentane | 0 | | | | |
| 2-Methylheptane | 0 | | | | |
| cis-1,2-Dimethylcyclohexane | 0 | | | | |
| m-Xylene | 2.17005 | | | | |
| p-Xylene | 0 | | | | |
| Ethylbenzene | 0.412851 | | | | |
| Isopropylbenzene | 0.0206147 | | | | |
| n-Propylbenzene | 0.0203229 | | | | |
| 1,3,5-Trimethylbenzene | 0.0194135 | | | | |
| 1,2,4-Trimethylbenzene | 0.036931 | | | | |
| sec-Butylbenzene | 0.00177181 | | | | |
| p-Isopropyltoluene | 0.00152748 | | | | |
| n-Butylbenzene | 0.000695742 | | | | |
| Ethylcyclohexane | 0 | | | | |
| Water | 8.90064 | | | | |
| CHEMTHERM 550 | 0 | | | | |
| UCARSOL™ AP-814 | 0 | | | | |
| MDEA | 0 | | | | |
| Piperazine | 0 | | | | |

| Mass Flow | 7-T Working lb/h | | | | |
|---|---|---|---|---|---|
| H2S | 0 | | | | |
| Carbon Dioxide | 0 | | | | |
| Nitrogen | 0 | | | | |
| Methane | 0 | | | | |
| Ethane | 0 | | | | |
| Propane | 0 | | | | |
| Isobutane | 0 | | | | |
| n-Butane | 0 | | | | |
| Isopentane | 0 | | | | |
| n-Pentane | 0 | | | | |
| Hexane | 0 | | | | |
| n-Heptane | 0 | | | | |
| n-Octane | 0 | | | | |
| Methylcyclopentane | 0 | | | | |
| Benzene | 0.215264 | | | | |
| Cyclohexane | 0 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Flow | 7-T Working lb/h | | | | |
|---|---|---|---|---|---|
| Methylcyclohexane | 0 | | | | |
| Toluene | 0.0946072 | | | | |
| 2,2-Dimethylpropane | 0 | | | | |
| 2-Methylpentane | 0 | | | | |
| 3-Methylpentane | 0 | | | | |
| 2,3-Dimethylbutane | 0 | | | | |
| 1,1-Dimethylcyclopentane | 0 | | | | |
| 2,3-Dimethylpentane | 0 | | | | |
| 2-Methylhexane | 0 | | | | |
| cis-1,3-Dimethylcyclopentane | 0 | | | | |
| trans-1,3-Dimethylcyclopentane | 0 | | | | |
| 2,2,4-Trimethylpentane | 0 | | | | |
| 2-Methylheptane | 0 | | | | |
| cis-1,2-Dimethylcyclohexane | 0 | | | | |
| m-Xylene | 0.00760545 | | | | |
| p-Xylene | 0 | | | | |
| Ethylbenzene | 0.00144693 | | | | |
| Isopropylbenzene | 7.22489E-05 | | | | |
| n-Propylbenzene | 7.12264E-05 | | | | |
| 1,3,5-Trimethylbenzene | 6.80391E-05 | | | | |
| 1,2,4-Trimethylbenzene | 0.000129433 | | | | |
| sec-Butylbenzene | 6.20972E-06 | | | | |
| p-Isopropyltoluene | 5.35339E-06 | | | | |
| n-Butylbenzene | 2.43839E-06 | | | | |
| Ethylcyclohexane | 0 | | | | |
| Water | 0.0311943 | | | | |
| CHEMTHERM 550 | 0 | | | | |
| UCARSOL™ AP-814 | 0 | | | | |
| MDEA | 0 | | | | |
| Piperazine | 0 | | | | |

## Stream Properties

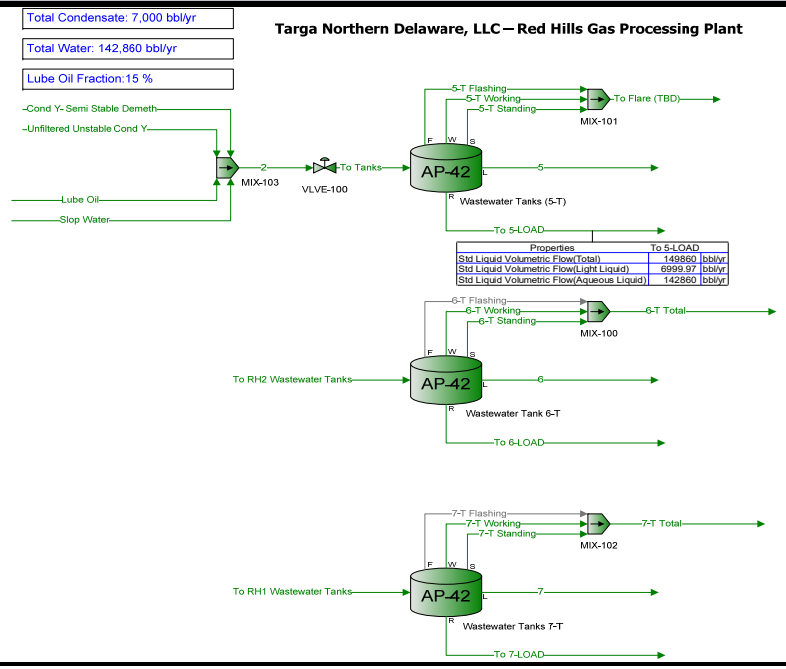
| Property | Units | 7-T Working | | | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 79.1737 | | | | |
| Pressure | psia | 12.76 | | | | |
| Molecular Weight | lb/lbmol | 62.5577 | | | | |
| Mass Density | lb/ft^3 | 54.809 | | | | |
| Mass Flow | lb/h | 0.350473 | | | | |
| Std Vapor Volumetric Flow | MMSCFD | 5.10245E-05 | | | | |
| Std Liquid Volumetric Flow | sgpm | 0.000787461 | | | | |
| Specific Gravity | | 0.878789 | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 2758.02 | | | | |

**Remarks**


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# Wastewater Tanks (5-T, 6-T, 7-T))
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |





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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

## Connections

| | Cond Y- Semi Stable Demeth | Lube Oil | Slop Water | To Flare (TBD) | To RH1 Wastewater Tanks |
|---|---|---|---|---|---|
| From Block | -- | -- | -- | MIX-101 | -- |
| To Block | MIX-103 | MIX-103 | MIX-103 | -- | Wastewater Tanks 7-T |

## Stream Composition

| Mole Fraction | Cond Y- Semi Stable Demeth % | Lube Oil % | Slop Water % | To Flare (TBD) % | To RH1 Wastewater Tanks % |
|---|---|---|---|---|---|
| H2S | 0 * | 0 * | 0 * | 0 | 0 |
| Nitrogen | 0.133 * | 0 * | 0 * | 0.0568561 | 0 |
| Carbon Dioxide | 0.004 * | 0 * | 0 * | 0.611277 | 0 |
| Methane | 0.066 * | 0 * | 0 * | 3.0599 | 0 |
| Ethane | 10.182 * | 0 * | 0 * | 10.7134 | 0 |
| Propane | 24.316 * | 0 * | 0 * | 25.1935 | 0 |
| Isobutane | 6.172 * | 0 * | 0 * | 7.06856 | 0 |
| n-Butane | 18.708 * | 0 * | 0 * | 21.6582 | 0 |
| Isopentane | 7.619 * | 0 * | 0 * | 8.08322 | 0 |
| n-Pentane | 9.713 * | 0 * | 0 * | 9.63958 | 0 |
| 2,2-Dimethylbutane | 0.099 * | 0 * | 0 * | 0.0791139 | 0 |
| Cyclopentane | 0.767 * | 0 * | 0 * | 0.663648 | 0 |
| 2-Methylpentane | 2.593 * | 0 * | 0 * | 1.77872 | 0 |
| 3-Methylpentane | 1.445 * | 0 * | 0 * | 0.93353 | 0 |
| Hexane | 3.682 * | 0 * | 0 * | 2.05441 | 0 |
| 2,2-Dimethylpentane | 0.29 * | 0 * | 0 * | 0.139709 | 0 |
| Methylcyclopentane | 1.687 * | 0 * | 0 * | 0.954947 | 0 |
| 2,2,3-Trimethylbutane | 0.005 * | 0 * | 0 * | 0.00281384 | 0 |
| Benzene | 0.874 * | 0 * | 0 * | 0.492381 | 0.123752 |
| Cyclohexane | 2.203 * | 0 * | 0 * | 1.04239 | 0 |
| 2-Methylhexane | 0.639 * | 0 * | 0 * | 0.213217 | 0 |
| 3-Methylhexane | 0 * | 0 * | 0 * | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0.881 * | 0 * | 0 * | 0.322829 | 0 |
| n-Heptane | 1.83 * | 0 * | 0 * | 0.457522 | 0 |
| Methylcyclohexane | 2.09 * | 0 * | 0 * | 0.50435 | 0 |
| 2,5-Dimethylhexane | 0.02 * | 0 * | 0 * | 0.00363383 | 0 |
| Toluene | 0.88 * | 0 * | 0 * | 0.208263 | 0.141124 |
| 2-Methylheptane | 0.392 * | 0 * | 0 * | 0.0539164 | 0 |
| n-Octane | 1.297 * | 0 * | 0 * | 0.127665 | 0 |
| Ethylcyclohexane | 0.122 * | 0 * | 0 * | 0.0112852 | 0 |
| Ethylbenzene | 0.069 * | 0 * | 0 * | 0.00449932 | 0.00679738 |
| p-Xylene | 0.336 * | 0 * | 0 * | 0.0237194 | 0 |
| o-Xylene | 0.063 * | 0 * | 0 * | 0.00440048 | 0 |
| Nonane | 0.466 * | 0 * | 0 * | 0.0157142 | 0 |
| Isopropylbenzene | 0.013 * | 0 * | 0 * | 0.000581272 | 0.000511358 |
| Cyclooctane | 0.032 * | 0 * | 0 * | 0.00139984 | 0 |
| n-Propylbenzene | 0.005 * | 0 * | 0 * | 0.000158097 | 0.000650933 |
| 1,3,5-Trimethylbenzene | 0.039 * | 0 * | 0 * | 0.000950921 | 0.000751031 |
| Isobutylbenzene | 0.002 * | 0 * | 0 * | 3.80945E-05 | 0 |
| n-Butylbenzene | 0.008 * | 0 * | 0 * | 9.4655E-05 | 5.69826E-05 |
| Decane | 0.258 * | 0 * | 0 * | 0.00309598 | 0 |
| Water | 0 * | 0 * | 100 * | 3.81661 | 99.7264 |
| Lube Oil | 0 * | 100 * | 0 * | 6.04611E-06 | 0 |

| Mass Fraction | Cond Y- Semi Stable Demeth % | Lube Oil % | Slop Water % | To Flare (TBD) % | To RH1 Wastewater Tanks % |
|---|---|---|---|---|---|
| H2S | 0 * | 0 * | 0 * | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Fraction | Cond Y- Semi Stable Demeth % | Lube Oil % | Slop Water % | To Flare (TBD) % | To RH1 Wastewater Tanks % |
|---|---|---|---|---|---|
| Nitrogen | 0.0599023 * | 0 * | 0 * | 0.0294457 | 0 |
| Carbon Dioxide | 0.0028303 * | 0 * | 0 * | 0.497352 | 0 |
| Methane | 0.0170232 * | 0 * | 0 * | 0.907523 | 0 |
| Ethane | 4.92242 * | 0 * | 0 * | 5.9556 | 0 |
| Propane | 17.2391 * | 0 * | 0 * | 20.5382 | 0 |
| Isobutane | 5.76758 * | 0 * | 0 * | 7.59543 | 0 |
| n-Butane | 17.4822 * | 0 * | 0 * | 23.2725 | 0 |
| Isopentane | 8.83798 * | 0 * | 0 * | 10.7818 | 0 |
| n-Pentane | 11.267 * | 0 * | 0 * | 12.8578 | 0 |
| 2,2-Dimethylbutane | 0.137165 * | 0 * | 0 * | 0.126042 | 0 |
| Cyclopentane | 0.864855 * | 0 * | 0 * | 0.860476 | 0 |
| 2-Methylpentane | 3.59262 * | 0 * | 0 * | 2.83381 | 0 |
| 3-Methylpentane | 2.00206 * | 0 * | 0 * | 1.48727 | 0 |
| Hexane | 5.10144 * | 0 * | 0 * | 3.27303 | 0 |
| 2,2-Dimethylpentane | 0.467197 * | 0 * | 0 * | 0.25881 | 0 |
| Methylcyclopentane | 2.28268 * | 0 * | 0 * | 1.48581 | 0 |
| 2,2,3-Trimethylbutane | 0.00805512 * | 0 * | 0 * | 0.00521261 | 0 |
| Benzene | 1.09763 * | 0 * | 0 * | 0.711046 | 0.531059 |
| Cyclohexane | 2.98087 * | 0 * | 0 * | 1.62186 | 0 |
| 2-Methylhexane | 1.02944 * | 0 * | 0 * | 0.394982 | 0 |
| 3-Methylhexane | 0 * | 0 * | 0 * | 0 | 0 |
| 1,1-Dimethylcyclopentane | 1.39076 * | 0 * | 0 * | 0.586005 | 0 |
| n-Heptane | 2.94817 * | 0 * | 0 * | 0.847554 | 0 |
| Methylcyclohexane | 3.2993 * | 0 * | 0 * | 0.915506 | 0 |
| 2,5-Dimethylhexane | 0.0367308 * | 0 * | 0 * | 0.00767394 | 0 |
| Toluene | 1.30362 * | 0 * | 0 * | 0.354758 | 0.714356 |
| 2-Methylheptane | 0.719924 * | 0 * | 0 * | 0.113861 | 0 |
| n-Octane | 2.38199 * | 0 * | 0 * | 0.269604 | 0 |
| Ethylcyclohexane | 0.220104 * | 0 * | 0 * | 0.0234115 | 0 |
| Ethylbenzene | 0.117776 * | 0 * | 0 * | 0.00883095 | 0.0396458 |
| p-Xylene | 0.573518 * | 0 * | 0 * | 0.0465548 | 0 |
| o-Xylene | 0.107535 * | 0 * | 0 * | 0.00863696 | 0 |
| Nonane | 0.960919 * | 0 * | 0 * | 0.0372603 | 0 |
| Isopropylbenzene | 0.0251214 * | 0 * | 0 * | 0.00129161 | 0.00337655 |
| Cyclooctane | 0.0577322 * | 0 * | 0 * | 0.00290403 | 0 |
| n-Propylbenzene | 0.00966207 * | 0 * | 0 * | 0.0003513 | 0.00429818 |
| 1,3,5-Trimethylbenzene | 0.0753641 * | 0 * | 0 * | 0.00211299 | 0.00495914 |
| Isobutylbenzene | 0.00431586 * | 0 * | 0 * | 9.45263E-05 | 0 |
| n-Butylbenzene | 0.0172634 * | 0 * | 0 * | 0.000234874 | 0.000420173 |
| Decane | 0.590194 * | 0 * | 0 * | 0.00814378 | 0 |
| Water | 0 * | 0 * | 100 * | 1.27115 | 98.7019 |
| Lube Oil | 0 * | 100 * | 0 * | 2.47216E-05 | 0 |

| Mass Flow | Cond Y- Semi Stable Demeth lb/h | Lube Oil lb/h | Slop Water lb/h | To Flare (TBD) lb/h | To RH1 Wastewater Tanks lb/h |
|---|---|---|---|---|---|
| H2S | 0 * | 0 * | 0 * | 0 | 0 |
| Nitrogen | 0.0671189 * | 0 * | 0 * | 0.0864777 | 0 |
| Carbon Dioxide | 0.00317128 * | 0 * | 0 * | 1.46065 | 0 |
| Methane | 0.019074 * | 0 * | 0 * | 2.66526 | 0 |
| Ethane | 5.51544 * | 0 * | 0 * | 17.4907 | 0 |
| Propane | 19.3159 * | 0 * | 0 * | 60.3177 | 0 |
| Isobutane | 6.46243 * | 0 * | 0 * | 22.3067 | 0 |
| n-Butane | 19.5883 * | 0 * | 0 * | 68.3479 | 0 |
| Isopentane | 9.90272 * | 0 * | 0 * | 31.6647 | 0 |
| n-Pentane | 12.6244 * | 0 * | 0 * | 37.7614 | 0 |
| 2,2-Dimethylbutane | 0.15369 * | 0 * | 0 * | 0.370166 | 0 |
| Cyclopentane | 0.969047 * | 0 * | 0 * | 2.52709 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Flow | Cond Y- Semi Stable Demeth lb/h | Lube Oil lb/h | Slop Water lb/h | To Flare (TBD) lb/h | To RH1 Wastewater Tanks lb/h |
|---|---|---|---|---|---|
| 2-Methylpentane | 4.02544 * | 0 * | 0 * | 8.32247 | 0 |
| 3-Methylpentane | 2.24325 * | 0 * | 0 * | 4.3679 | 0 |
| Hexane | 5.71603 * | 0 * | 0 * | 9.61239 | 0 |
| 2,2-Dimethylpentane | 0.523482 * | 0 * | 0 * | 0.760086 | 0 |
| Methylcyclopentane | 2.55768 * | 0 * | 0 * | 4.36359 | 0 |
| 2,2,3-Trimethylbutane | 0.00902555 * | 0 * | 0 * | 0.0153087 | 0 |
| Benzene | 1.22986 * | 0 * | 0 * | 2.08824 | 20.1803 |
| Cyclohexane | 3.33999 * | 0 * | 0 * | 4.76316 | 0 |
| 2-Methylhexane | 1.15347 * | 0 * | 0 * | 1.16 | 0 |
| 3-Methylhexane | 0 * | 0 * | 0 * | 0 | 0 |
| 1,1-Dimethylcyclopentane | 1.55831 * | 0 * | 0 * | 1.72101 | 0 |
| n-Heptane | 3.30335 * | 0 * | 0 * | 2.48914 | 0 |
| Methylcyclohexane | 3.69678 * | 0 * | 0 * | 2.68871 | 0 |
| 2,5-Dimethylhexane | 0.0411559 * | 0 * | 0 * | 0.0225372 | 0 |
| Toluene | 1.46067 * | 0 * | 0 * | 1.04187 | 27.1457 |
| 2-Methylheptane | 0.806656 * | 0 * | 0 * | 0.334393 | 0 |
| n-Octane | 2.66896 * | 0 * | 0 * | 0.791786 | 0 |
| Ethylcyclohexane | 0.246621 * | 0 * | 0 * | 0.0687561 | 0 |
| Ethylbenzene | 0.131965 * | 0 * | 0 * | 0.0259352 | 1.50655 |
| p-Xylene | 0.642611 * | 0 * | 0 * | 0.136725 | 0 |
| o-Xylene | 0.12049 * | 0 * | 0 * | 0.0253655 | 0 |
| Nonane | 1.07668 * | 0 * | 0 * | 0.109428 | 0 |
| Isopropylbenzene | 0.0281478 * | 0 * | 0 * | 0.00379328 | 0.12831 |
| Cyclooctane | 0.0646874 * | 0 * | 0 * | 0.00852871 | 0 |
| n-Propylbenzene | 0.0108261 * | 0 * | 0 * | 0.00103171 | 0.163332 |
| 1,3,5-Trimethylbenzene | 0.0844435 * | 0 * | 0 * | 0.00620554 | 0.188448 |
| Isobutylbenzene | 0.00483581 * | 0 * | 0 * | 0.00027761 | 0 |
| n-Butylbenzene | 0.0193432 * | 0 * | 0 * | 0.000689789 | 0.0159666 |
| Decane | 0.661297 * | 0 * | 0 * | 0.0239171 | 0 |
| Water | 0 * | 0 * | 5713.49 * | 3.73319 | 3750.69 |
| Lube Oil | 0 * | 37.524 * | 0 * | 7.26036E-05 | 0 |

## Stream Properties

| Property | Units | Cond Y- Semi Stable Demeth | Lube Oil | Slop Water | To Flare (TBD) | To RH1 Wastewater Tanks |
|---|---|---|---|---|---|---|
| Temperature | °F | 152 * | 120 * | 95 * | 78.8569 | 75 * |
| Pressure | psia | 182.696 * | 199.696 * | 164.696 * | 12.76 | 14.6959 * |
| Molecular Weight | lb/lbmol | 62.1976 | 221.167 | 18.0153 | 54.0905 | 18.2023 |
| Std Liquid Volumetric Flow | sgpm | 0.37578 * | 0.0839045 * | 11.4217 * | 1.03358 | 7.61035 * |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

## Connections

| | To RH2 Wastewater Tanks | To Tanks | To 5-LOAD | To 6-LOAD | To 7-LOAD |
|---|---|---|---|---|---|
| From Block | -- | VLVE-100 | Wastewater Tanks (5-T) | Wastewater Tank 6-T | Wastewater Tanks 7-T |
| To Block | Wastewater Tank 6-T | Wastewater Tanks (5-T) | -- | -- | -- |

## Stream Composition

| Mole Fraction | To RH2 Wastewater Tanks % | To Tanks % | To 5-LOAD % | To 6-LOAD % | To 7-LOAD % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0.000951508 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0.01023 | 0 | 0 | 0 |
| Methane | 0 | 0.0512086 | 0 | 0 | 0 |
| Ethane | 0 | 0.179292 | 2.80338E-19 | 0 | 0 |
| Propane | 0 | 0.421622 | 0 | 0 | 0 |
| Isobutane | 0 | 0.124584 | 0.00639624 | 0 | 0 |
| n-Butane | 0 | 0.398757 | 0.0369175 | 0 | 0 |
| Isopentane | 0 | 0.178611 | 0.0440729 | 0 | 0 |
| n-Pentane | 0 | 0.23261 | 0.0725009 | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0.00230289 | 0.000995551 | 0 | 0 |
| Cyclopentane | 0 | 0.0187759 | 0.00779999 | 0 | 0 |
| 2-Methylpentane | 0 | 0.0624384 | 0.0332269 | 0 | 0 |
| 3-Methylpentane | 0 | 0.035206 | 0.0199164 | 0 | 0 |
| Hexane | 0 | 0.0900149 | 0.0565805 | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0.00759074 | 0.00534205 | 0 | 0 |
| Methylcyclopentane | 0 | 0.0423992 | 0.0268674 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0 | 0.000158842 | 0.000113653 | 0 | 0 |
| Benzene | 0.123752 | 0.0233843 | 0.0154018 | 0.12267 | 0.121742 |
| Cyclohexane | 0 | 0.0561603 | 0.0393744 | 0 | 0 |
| 2-Methylhexane | 0 | 0.0162792 | 0.0129272 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0.0228661 | 0.0177606 | 0 | 0 |
| n-Heptane | 0 | 0.0483053 | 0.0413403 | 0 | 0 |
| Methylcyclohexane | 0 | 0.0553034 | 0.0476605 | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0.000537059 | 0.000484351 | 0 | 0 |
| Toluene | 0.141124 | 0.0243843 | 0.0212546 | 0.14072 | 0.140372 |
| 2-Methylheptane | 0 | 0.0112375 | 0.0105111 | 0 | 0 |
| n-Octane | 0 | 0.0378906 | 0.0363626 | 0 | 0 |
| Ethylcyclohexane | 0 | 0.00352839 | 0.00339636 | 0 | 0 |
| Ethylbenzene | 0.00679738 | 0.00153007 | 0.00147953 | 0.00679224 | 0.0067878 |
| p-Xylene | 0 | 0.00850155 | 0.00824254 | 0 | 0 |
| o-Xylene | 0 | 0.00185722 | 0.00181394 | 0 | 0 |
| Nonane | 0 | 0.0141225 | 0.0140954 | 0 | 0 |
| Isopropylbenzene | 0.000511358 | 0.000416266 | 0.000413458 | 0.000511125 | 0.000510924 |
| Cyclooctane | 0 | 0.000915003 | 0.000906751 | 0 | 0 |
| n-Propylbenzene | 0.000650933 | 0.000142457 | 0.000142191 | 0.000650707 | 0.000650512 |
| 1,3,5-Trimethylbenzene | 0.000751031 | 0.0011341 | 0.00113722 | 0.000750816 | 0.000750629 |
| Isobutylbenzene | 0 | 6.02598E-05 | 6.06371E-05 | 0 | 0 |
| n-Butylbenzene | 5.69826E-05 | 0.000290194 | 0.000293522 | 5.69763E-05 | 5.69708E-05 |
| Decane | 0 | 0.00815037 | 0.0082364 | 0 | 0 |
| Water | 99.7264 | 97.754 | 99.3528 | 99.7278 | 99.7291 |
| Lube Oil | 0 | 0.0522953 | 0.0531853 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Fraction | To RH2 Wastewater Tanks % | To Tanks % | To 5-LOAD % | To 6-LOAD % | To 7-LOAD % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0.0013929 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0.0235267 | 0 | 0 | 0 |
| Methane | 0 | 0.0429295 | 0 | 0 | 0 |
| Ethane | 0 | 0.281723 | 4.5463E-19 | 0 | 0 |
| Propane | 0 | 0.971539 | 0 | 0 | 0 |
| Isobutane | 0 | 0.378396 | 0.0200505 | 0 | 0 |
| n-Butane | 0 | 1.21113 | 0.115726 | 0 | 0 |
| Isopentane | 0 | 0.673409 | 0.171498 | 0 | 0 |
| n-Pentane | 0 | 0.876997 | 0.282118 | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0.0103705 | 0.00462705 | 0 | 0 |
| Cyclopentane | 0 | 0.0688118 | 0.0295035 | 0 | 0 |
| 2-Methylpentane | 0 | 0.281175 | 0.15443 | 0 | 0 |
| 3-Methylpentane | 0 | 0.158541 | 0.0925659 | 0 | 0 |
| Hexane | 0 | 0.405358 | 0.262971 | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0.0397467 | 0.0288697 | 0 | 0 |
| Methylcyclopentane | 0 | 0.186467 | 0.121951 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0 | 0.000831731 | 0.000614208 | 0 | 0 |
| Benzene | 0.531059 | 0.0954514 | 0.0648854 | 0.526444 | 0.522483 |
| Cyclohexane | 0 | 0.246987 | 0.17872 | 0 | 0 |
| 2-Methylhexane | 0 | 0.0852412 | 0.0698618 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0.117323 | 0.0940515 | 0 | 0 |
| n-Heptane | 0 | 0.252937 | 0.223412 | 0 | 0 |
| Methylcyclohexane | 0 | 0.283755 | 0.252387 | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0.00320581 | 0.00298396 | 0 | 0 |
| Toluene | 0.714356 | 0.117407 | 0.105621 | 0.712348 | 0.71062 |
| 2-Methylheptane | 0 | 0.0670786 | 0.0647557 | 0 | 0 |
| n-Octane | 0 | 0.226176 | 0.22402 | 0 | 0 |
| Ethylcyclohexane | 0 | 0.0206899 | 0.0205548 | 0 | 0 |
| Ethylbenzene | 0.0396458 | 0.00848857 | 0.00847157 | 0.0396179 | 0.0395938 |
| p-Xylene | 0 | 0.0471651 | 0.0471954 | 0 | 0 |
| o-Xylene | 0 | 0.0103035 | 0.0103863 | 0 | 0 |
| Nonane | 0 | 0.0946513 | 0.0975009 | 0 | 0 |
| Isopropylbenzene | 0.00337655 | 0.00261449 | 0.00268017 | 0.00337519 | 0.00337401 |
| Cyclooctane | 0 | 0.00536544 | 0.00548766 | 0 | 0 |
| n-Propylbenzene | 0.00429818 | 0.000894746 | 0.00092173 | 0.00429692 | 0.00429582 |
| 1,3,5-Trimethylbenzene | 0.00495914 | 0.00712309 | 0.00737186 | 0.00495798 | 0.00495697 |
| Isobutylbenzene | 0 | 0.00042265 | 0.000438942 | 0 | 0 |
| n-Butylbenzene | 0.000420173 | 0.00203536 | 0.00212476 | 0.000420148 | 0.000420127 |
| Decane | 0 | 0.0605993 | 0.0632039 | 0 | 0 |
| Water | 98.7019 | 92.0273 | 96.5336 | 98.7085 | 98.7143 |
| Lube Oil | 0 | 0.6044 | 0.634409 | 0 | 0 |

| Mass Flow | To RH2 Wastewater Tanks lb/h | To Tanks lb/h | To 5-LOAD lb/h | To 6-LOAD lb/h | To 7-LOAD lb/h |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0.0864777 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 1.46065 | 0 | 0 | 0 |
| Methane | 0 | 2.66526 | 0 | 0 | 0 |
| Ethane | 0 | 17.4907 | 2.68904E-17 | 0 | 0 |
| Propane | 0 | 60.3177 | 0 | 0 | 0 |
| Isobutane | 0 | 23.4926 | 1.18594 | 0 | 0 |
| n-Butane | 0 | 75.1928 | 6.84496 | 0 | 0 |
| Isopentane | 0 | 41.8084 | 10.1437 | 0 | 0 |
| n-Pentane | 0 | 54.4481 | 16.6866 | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0.643846 | 0.27368 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Flow | To RH2 Wastewater Tanks lb/h | To Tanks lb/h | To 5-LOAD lb/h | To 6-LOAD lb/h | To 7-LOAD lb/h |
|---|---|---|---|---|---|
| Cyclopentane | 0 | 4.27216 | 1.74507 | 0 | 0 |
| 2-Methylpentane | 0 | 17.4566 | 9.13417 | 0 | 0 |
| 3-Methylpentane | 0 | 9.84297 | 5.47507 | 0 | 0 |
| Hexane | 0 | 25.1665 | 15.5541 | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 2.46766 | 1.70758 | 0 | 0 |
| Methylcyclopentane | 0 | 11.5767 | 7.21315 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0 | 0.0516377 | 0.0363291 | 0 | 0 |
| Benzene | 20.1803 | 5.92607 | 3.83783 | 20.0035 | 19.8517 |
| Cyclohexane | 0 | 15.3341 | 10.5709 | 0 | 0 |
| 2-Methylhexane | 0 | 5.29217 | 4.13217 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 7.28395 | 5.56294 | 0 | 0 |
| n-Heptane | 0 | 15.7035 | 13.2144 | 0 | 0 |
| Methylcyclohexane | 0 | 17.6168 | 14.9281 | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0.199032 | 0.176495 | 0 | 0 |
| Toluene | 27.1457 | 7.28915 | 6.24728 | 27.0674 | 27 |
| 2-Methylheptane | 0 | 4.16455 | 3.83016 | 0 | 0 |
| n-Octane | 0 | 14.0421 | 13.2503 | 0 | 0 |
| Ethylcyclohexane | 0 | 1.28453 | 1.21577 | 0 | 0 |
| Ethylbenzene | 1.50655 | 0.52701 | 0.501075 | 1.50538 | 1.50436 |
| p-Xylene | 0 | 2.92823 | 2.79151 | 0 | 0 |
| o-Xylene | 0 | 0.639692 | 0.614327 | 0 | 0 |
| Nonane | 0 | 5.87639 | 5.76697 | 0 | 0 |
| Isopropylbenzene | 0.12831 | 0.16232 | 0.158526 | 0.128248 | 0.128196 |
| Cyclooctane | 0 | 0.333112 | 0.324583 | 0 | 0 |
| n-Propylbenzene | 0.163332 | 0.05555 | 0.0545183 | 0.163272 | 0.16322 |
| 1,3,5-Trimethylbenzene | 0.188448 | 0.442235 | 0.436029 | 0.18839 | 0.18834 |
| Isobutylbenzene | 0 | 0.0262401 | 0.0259625 | 0 | 0 |
| n-Butylbenzene | 0.0159666 | 0.126365 | 0.125675 | 0.0159645 | 0.0159627 |
| Decane | 0 | 3.76229 | 3.73837 | 0 | 0 |
| Water | 3750.69 | 5713.49 | 5709.75 | 3750.67 | 3750.65 |
| Lube Oil | 0 | 37.524 | 37.5239 | 0 | 0 |

## Stream Properties

| Property | Units | To RH2 Wastewater Tanks | To Tanks | To 5-LOAD | To 6-LOAD | To 7-LOAD |
|---|---|---|---|---|---|---|
| Temperature | °F | 75 * | 87.0473 | 78.8795 | 78.8795 | 79.1737 |
| Pressure | psia | 14.6959 * | 14.6959 * | 12.76 | 12.76 | 12.76 |
| Molecular Weight | lb/lbmol | 18.2023 | 19.1363 | 18.5414 | 18.2013 | 18.2005 |
| Std Liquid Volumetric Flow | sgpm | 7.61035 * | 13.0087 | 11.9751 | 7.60972 | 7.60918 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

## Connections

| | Unfiltered Unstable Cond Y | 2 | 5 | 5-T Flashing | 5-T Standing |
|---|---|---|---|---|---|
| From Block | -- | MIX-103 | Wastewater Tanks (5-T) | Wastewater Tanks (5-T) | Wastewater Tanks (5-T) |
| To Block | MIX-103 | VLVE-100 | -- | MIX-101 | MIX-101 |

## Stream Composition

| Mole Fraction | Unfiltered Unstable Cond Y % | 2 % | 5 % | 5-T Flashing % | 5-T Standing % |
|---|---|---|---|---|---|
| H2S | 0 * | 0 | 0 | 0 | 0 |
| Nitrogen | 0.013 * | 0.000951508 | 0 | 0.0589915 | 0.00165147 |
| Carbon Dioxide | 0.623 * | 0.01023 | 0 | 0.616518 | 0.475794 |
| Methane | 3.103 * | 0.0512086 | 0 | 3.16867 | 0.247988 |
| Ethane | 7.492 * | 0.179292 | 2.3278E-17 | 10.9825 | 3.75603 |
| Propane | 17.492 * | 0.421622 | 0 | 25.1471 | 26.3916 |
| Isobutane | 5.512 * | 0.124584 | 8.49024 | 7.01757 | 8.3868 |
| n-Butane | 17.997 * | 0.398757 | 32.6529 | 21.511 | 25.4625 |
| Isopentane | 8.319 * | 0.178611 | 14.9542 | 8.03689 | 9.28115 |
| n-Pentane | 10.905 * | 0.23261 | 18.1831 | 9.58831 | 10.965 |
| 2,2-Dimethylbutane | 0.107 * | 0.00230289 | 0.152985 | 0.0787235 | 0.0892062 |
| Cyclopentane | 0.886 * | 0.0187759 | 1.27097 | 0.660319 | 0.749693 |
| 2-Methylpentane | 2.932 * | 0.0624384 | 3.44946 | 1.77075 | 1.98468 |
| 3-Methylpentane | 1.659 * | 0.035206 | 1.80475 | 0.929497 | 1.03778 |
| Hexane | 4.246 * | 0.0900149 | 3.94839 | 2.04651 | 2.25865 |
| 2,2-Dimethylpentane | 0.365 * | 0.00759074 | 0.268631 | 0.139186 | 0.153227 |
| Methylcyclopentane | 2.016 * | 0.0423992 | 1.83969 | 0.950969 | 1.0578 |
| 2,2,3-Trimethylbutane | 0.008 * | 0.000158842 | 0.00542526 | 0.002803 | 0.00309406 |
| Benzene | 1.131 * | 0.0233843 | 0.937313 | 0.490346 | 0.545001 |
| Cyclohexane | 2.681 * | 0.0561603 | 1.99962 | 1.03842 | 1.14503 |
| 2-Methylhexane | 0.777 * | 0.0162792 | 0.404498 | 0.212546 | 0.230553 |
| 3-Methylhexane | 0 * | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 1.097 * | 0.0228661 | 0.611627 | 0.321748 | 0.350784 |
| n-Heptane | 2.328 * | 0.0483053 | 0.854771 | 0.456337 | 0.488144 |
| Methylcyclohexane | 2.667 * | 0.0553034 | 0.941362 | 0.502973 | 0.539947 |
| 2,5-Dimethylhexane | 0.026 * | 0.000537059 | 0.00674765 | 0.00362583 | 0.00384064 |
| Toluene | 1.19 * | 0.0243843 | 0.386 | 0.207692 | 0.223018 |
| 2-Methylheptane | 0.553 * | 0.0112375 | 0.0988471 | 0.0538194 | 0.0564246 |
| n-Octane | 1.873 * | 0.0378906 | 0.23073 | 0.127491 | 0.132175 |
| Ethylcyclohexane | 0.174 * | 0.00352839 | 0.0203352 | 0.011267 | 0.0117559 |
| Ethylbenzene | 0.07 * | 0.00153007 | 0.00797673 | 0.00449296 | 0.00466377 |
| p-Xylene | 0.405 * | 0.00850155 | 0.0421979 | 0.0236846 | 0.0246203 |
| o-Xylene | 0.092 * | 0.00185722 | 0.00776068 | 0.00439497 | 0.00454287 |
| Nonane | 0.704 * | 0.0141225 | 0.0274397 | 0.0157126 | 0.0157562 |
| Isopropylbenzene | 0.021 * | 0.000416266 | 0.00100826 | 0.000580964 | 0.000589212 |
| Cyclooctane | 0.045 * | 0.000915003 | 0.00247425 | 0.00139854 | 0.00143366 |
| n-Propylbenzene | 0.007 * | 0.000142457 | 0.000272019 | 0.000158034 | 0.000159733 |
| 1,3,5-Trimethylbenzene | 0.056 * | 0.0011341 | 0.00161386 | 0.000950818 | 0.000953576 |
| Isobutylbenzene | 0.003 * | 6.02598E-05 | 6.45583E-05 | 3.80934E-05 | 3.81231E-05 |
| n-Butylbenzene | 0.015 * | 0.000290194 | 0.000155155 | 9.47392E-05 | 9.24791E-05 |
| Decane | 0.41 * | 0.00815037 | 0.0051613 | 0.00309897 | 0.0030186 |
| Water | 0 * | 97.754 | 6.39122 | 3.81281 | 3.91488 |
| Lube Oil | 0 * | 0.0522953 | 7.38249E-06 | 6.09517E-06 | 4.77801E-06 |

| Mass Fraction | Unfiltered Unstable Cond Y % | 2 % | 5 % | 5-T Flashing % | 5-T Standing % |
|---|---|---|---|---|---|
| H2S | 0 * | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Fraction | Unfiltered Unstable Cond Y % | | 2 % | 5 % | 5-T Flashing % | 5-T Standing % |
|---|---|---|---|---|---|---|
| Nitrogen | 0.00560458 | * | 0.0013929 | 0 | 0.0306305 | 0.000801921 |
| Carbon Dioxide | 0.421958 | * | 0.0235267 | 0 | 0.502911 | 0.362962 |
| Methane | 0.766103 | * | 0.0429295 | 0 | 0.942209 | 0.0689599 |
| Ethane | 3.46698 | * | 0.281723 | 1.06336E-17 | 6.12096 | 1.95769 |
| Propane | 11.8705 | * | 0.971539 | 0 | 20.5533 | 20.1723 |
| Isobutane | 4.93044 | * | 0.378396 | 7.49681 | 7.5601 | 8.44956 |
| n-Butane | 16.0982 | * | 1.21113 | 28.8322 | 23.174 | 25.653 |
| Isopentane | 9.23707 | * | 0.673409 | 16.391 | 10.7477 | 11.6072 |
| n-Pentane | 12.1085 | * | 0.876997 | 19.9302 | 12.8224 | 13.713 |
| 2,2-Dimethylbutane | 0.141906 | * | 0.0103705 | 0.200284 | 0.125744 | 0.133252 |
| Cyclopentane | 0.95629 | * | 0.0688118 | 1.35416 | 0.858371 | 0.911383 |
| 2-Methylpentane | 3.88849 | * | 0.281175 | 4.51594 | 2.8284 | 2.96462 |
| 3-Methylpentane | 2.20021 | * | 0.158541 | 2.36273 | 1.48467 | 1.55018 |
| Hexane | 5.63115 | * | 0.405358 | 5.16912 | 3.26886 | 3.37386 |
| 2,2-Dimethylpentane | 0.562864 | * | 0.0397467 | 0.408928 | 0.258507 | 0.266138 |
| Methylcyclopentane | 2.61113 | * | 0.186467 | 2.35214 | 1.48343 | 1.54313 |
| 2,2,3-Trimethylbutane | 0.0123367 | * | 0.000831731 | 0.00825869 | 0.00520593 | 0.00537403 |
| Benzene | 1.35961 | * | 0.0954514 | 1.11228 | 0.709934 | 0.73792 |
| Cyclohexane | 3.47243 | * | 0.246987 | 2.55661 | 1.61985 | 1.67038 |
| 2-Methylhexane | 1.19821 | * | 0.0852412 | 0.615753 | 0.394756 | 0.400445 |
| 3-Methylhexane | 0 | * | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 1.65764 | * | 0.117323 | 0.912327 | 0.58555 | 0.597014 |
| n-Heptane | 3.58999 | * | 0.252937 | 1.30119 | 0.847542 | 0.847852 |
| Methylcyclohexane | 4.03002 | * | 0.283755 | 1.40417 | 0.915363 | 0.91896 |
| 2,5-Dimethylhexane | 0.0457069 | * | 0.00320581 | 0.0117096 | 0.00767681 | 0.00760456 |
| Toluene | 1.68742 | * | 0.117407 | 0.540309 | 0.354699 | 0.356186 |
| 2-Methylheptane | 0.972151 | * | 0.0670786 | 0.171535 | 0.113949 | 0.111722 |
| n-Octane | 3.29266 | * | 0.226176 | 0.400399 | 0.26993 | 0.26171 |
| Ethylcyclohexane | 0.300487 | * | 0.0206899 | 0.034666 | 0.0234341 | 0.0228662 |
| Ethylbenzene | 0.11437 | * | 0.00848857 | 0.0128653 | 0.00884123 | 0.00858251 |
| p-Xylene | 0.661714 | * | 0.0471651 | 0.0680591 | 0.0466064 | 0.0453075 |
| o-Xylene | 0.150315 | * | 0.0103035 | 0.0125169 | 0.00864841 | 0.00836002 |
| Nonane | 1.38957 | * | 0.0946513 | 0.0534649 | 0.0373526 | 0.0350284 |
| Isopropylbenzene | 0.0388443 | * | 0.00261449 | 0.00184103 | 0.00129426 | 0.00122756 |
| Cyclooctane | 0.0777121 | * | 0.00536544 | 0.00421793 | 0.00290881 | 0.00278859 |
| n-Propylbenzene | 0.0129481 | * | 0.000894746 | 0.000496692 | 0.000352065 | 0.000332786 |
| 1,3,5-Trimethylbenzene | 0.103585 | * | 0.00712309 | 0.00294682 | 0.00211822 | 0.00198667 |
| Isobutylbenzene | 0.00619679 | * | 0.00042265 | 0.000131637 | 9.47675E-05 | 8.86941E-05 |
| n-Butylbenzene | 0.0309839 | * | 0.00203536 | 0.000316368 | 0.000235689 | 0.000215154 |
| Decane | 0.897774 | * | 0.0605993 | 0.0111563 | 0.00817269 | 0.00744474 |
| Water | 0 | * | 92.0273 | 1.7492 | 1.27317 | 1.22252 |
| Lube Oil | 0 | * | 0.6044 | 2.48049E-05 | 2.49865E-05 | 1.83174E-05 |

| Mass Flow | Unfiltered Unstable Cond Y lb/h | | 2 lb/h | 5 lb/h | 5-T Flashing lb/h | 5-T Standing lb/h |
|---|---|---|---|---|---|---|
| H2S | 0 | * | 0 | 0 | 0 | 0 |
| Nitrogen | 0.0193587 | * | 0.0864777 | 0 | 0.0863841 | 2.07419E-05 |
| Carbon Dioxide | 1.45748 | * | 1.46065 | 0 | 1.41831 | 0.0093881 |
| Methane | 2.64619 | * | 2.66526 | 0 | 2.65722 | 0.00178367 |
| Ethane | 11.9753 | * | 17.4907 | 3.779E-19 | 17.2623 | 0.0506362 |
| Propane | 41.0018 | * | 60.3177 | 0 | 57.9646 | 0.521763 |
| Isobutane | 17.0302 | * | 23.4926 | 0.266424 | 21.321 | 0.21855 |
| n-Butane | 55.6045 | * | 75.1928 | 1.02465 | 65.3554 | 0.663522 |
| Isopentane | 31.9057 | * | 41.8084 | 0.582509 | 30.3107 | 0.300223 |
| n-Pentane | 41.8237 | * | 54.4481 | 0.708288 | 36.1618 | 0.354691 |
| 2,2-Dimethylbutane | 0.490156 | * | 0.643846 | 0.00711775 | 0.354622 | 0.0034466 |
| Cyclopentane | 3.30311 | * | 4.27216 | 0.0481248 | 2.42078 | 0.0235732 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Flow | Unfiltered Unstable Cond Y lb/h | | 2 lb/h | 5 lb/h | 5-T Flashing lb/h | 5-T Standing lb/h |
|---|---|---|---|---|---|---|
| 2-Methylpentane | 13.4312 | * | 17.4566 | 0.160489 | 7.97664 | 0.0766807 |
| 3-Methylpentane | 7.59971 | * | 9.84297 | 0.0839676 | 4.18707 | 0.040096 |
| Hexane | 19.4505 | * | 25.1665 | 0.183702 | 9.21883 | 0.0872659 |
| 2,2-Dimethylpentane | 1.94418 | * | 2.46766 | 0.0145326 | 0.729041 | 0.00688372 |
| Methylcyclopentane | 9.01906 | * | 11.5767 | 0.0835912 | 4.18358 | 0.0399134 |
| 2,2,3-Trimethylbutane | 0.0426122 | * | 0.0516377 | 0.0002935 | 0.0146818 | 0.000139001 |
| Benzene | 4.69621 | * | 5.92607 | 0.0395288 | 2.00216 | 0.0190865 |
| Cyclohexane | 11.9941 | * | 15.3341 | 0.090858 | 4.56831 | 0.043205 |
| 2-Methylhexane | 4.13871 | * | 5.29217 | 0.0218829 | 1.11329 | 0.0103576 |
| 3-Methylhexane | 0 | * | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 5.72564 | * | 7.28395 | 0.0324226 | 1.65137 | 0.0154419 |
| n-Heptane | 12.4001 | * | 15.7035 | 0.0462421 | 2.39024 | 0.0219299 |
| Methylcyclohexane | 13.92 | * | 17.6168 | 0.049902 | 2.58151 | 0.0237691 |
| 2,5-Dimethylhexane | 0.157876 | * | 0.199032 | 0.000416139 | 0.0216501 | 0.000196694 |
| Toluene | 5.82848 | * | 7.28915 | 0.0192017 | 1.00032 | 0.00921284 |
| 2-Methylheptane | 3.3579 | * | 4.16455 | 0.00609607 | 0.32136 | 0.00288972 |
| n-Octane | 11.3731 | * | 14.0421 | 0.0142295 | 0.761257 | 0.0067692 |
| Ethylcyclohexane | 1.03791 | * | 1.28453 | 0.00123197 | 0.0660888 | 0.000591441 |
| Ethylbenzene | 0.395046 | * | 0.52701 | 0.000457212 | 0.024934 | 0.000221989 |
| p-Xylene | 2.28562 | * | 2.92823 | 0.00241871 | 0.131439 | 0.00117189 |
| o-Xylene | 0.519203 | * | 0.639692 | 0.000444829 | 0.0243903 | 0.000216234 |
| Nonane | 4.79971 | * | 5.87639 | 0.00190006 | 0.105342 | 0.00090602 |
| Isopropylbenzene | 0.134172 | * | 0.16232 | 6.54271E-05 | 0.00365008 | 3.17511E-05 |
| Cyclooctane | 0.268424 | * | 0.333112 | 0.000149899 | 0.00820341 | 7.21277E-05 |
| n-Propylbenzene | 0.0447239 | * | 0.05555 | 1.76516E-05 | 0.000992895 | 8.6076E-06 |
| 1,3,5-Trimethylbenzene | 0.357791 | * | 0.442235 | 0.000104725 | 0.0059738 | 5.13857E-05 |
| Isobutylbenzene | 0.0214043 | * | 0.0262401 | 4.67816E-06 | 0.000267263 | 2.2941E-06 |
| n-Butylbenzene | 0.107021 | * | 0.126365 | 1.12432E-05 | 0.000664691 | 5.56503E-06 |
| Decane | 3.10099 | * | 3.76229 | 0.000396478 | 0.0230486 | 0.00019256 |
| Water | 0 | * | 5713.49 | 0.0621637 | 3.59058 | 0.0316208 |
| Lube Oil | 0 | * | 37.524 | 8.81525E-07 | 7.04668E-05 | 4.73784E-07 |

## Stream Properties

| Property | Units | Unfiltered Unstable Cond Y | | 2 | 5 | 5-T Flashing | 5-T Standing |
|---|---|---|---|---|---|---|---|
| Temperature | °F | 61 | * | 94.8139 | 78.8795 | 78.8795 | 78.8795 |
| Pressure | psia | 199.696 | * | 164.696 | 12.76 | 12.76 | 12.76 |
| Molecular Weight | lb/lbmol | 64.9779 | | 19.1363 | 65.8243 | 53.9512 | 57.6905 |
| Std Liquid Volumetric Flow | sgpm | 1.12734 | * | 13.0087 | 0.0112458 | 0.993932 | 0.00879225 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

## Connections

| | 5-T Working | 6 | 6-T Flashing | 6-T Standing | 6-T Total |
|---|---|---|---|---|---|
| From Block | Wastewater Tanks (5-T) | Wastewater Tank 6-T | Wastewater Tank 6-T | Wastewater Tank 6-T | MIX-100 |
| To Block | MIX-101 | -- | MIX-100 | MIX-100 | -- |

## Stream Composition

| Mole Fraction | 5-T Working % | 6 % | 6-T Flashing % | 6-T Standing % | 6-T Total % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0.00165147 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0.475794 | 0 | 0 | 0 | 0 |
| Methane | 0.247988 | 0 | 0 | 0 | 0 |
| Ethane | 3.75603 | 0 | 0 | 0 | 0 |
| Propane | 26.3916 | 0 | 0 | 0 | 0 |
| Isobutane | 8.3868 | 0 | 0 | 0 | 0 |
| n-Butane | 25.4625 | 0 | 0 | 0 | 0 |
| Isopentane | 9.28115 | 0 | 0 | 0 | 0 |
| n-Pentane | 10.965 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0.0892062 | 0 | 0 | 0 | 0 |
| Cyclopentane | 0.749693 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 1.98468 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 1.03778 | 0 | 0 | 0 | 0 |
| Hexane | 2.25865 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0.153227 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 1.0578 | 0 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0.00309406 | 0 | 0 | 0 | 0 |
| Benzene | 0.545001 | 51.8358 | 50.2314 | 51.596 | 51.596 |
| Cyclohexane | 1.14503 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0.230553 | 0 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0.350784 | 0 | 0 | 0 | 0 |
| n-Heptane | 0.488144 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0.539947 | 0 | 0 | 0 | 0 |
| 2,5-Dimethylhexane | 0.00384064 | 0 | 0 | 0 | 0 |
| Toluene | 0.223018 | 19.4183 | 19.4603 | 19.3666 | 19.3666 |
| 2-Methylheptane | 0.0564246 | 0 | 0 | 0 | 0 |
| n-Octane | 0.132175 | 0 | 0 | 0 | 0 |
| Ethylcyclohexane | 0.0117559 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.00466377 | 0.25068 | 0.262296 | 0.251551 | 0.251551 |
| p-Xylene | 0.0246203 | 0 | 0 | 0 | 0 |
| o-Xylene | 0.00454287 | 0 | 0 | 0 | 0 |
| Nonane | 0.0157562 | 0 | 0 | 0 | 0 |
| Isopropylbenzene | 0.000589212 | 0.0115106 | 0.0122645 | 0.0116031 | 0.0116031 |
| Cyclooctane | 0.00143366 | 0 | 0 | 0 | 0 |
| n-Propylbenzene | 0.000159733 | 0.0112908 | 0.0120731 | 0.0113889 | 0.0113889 |
| 1,3,5-Trimethylbenzene | 0.000953576 | 0.0108893 | 0.0117087 | 0.0110004 | 0.0110004 |
| Isobutylbenzene | 3.81231E-05 | 0 | 0 | 0 | 0 |
| n-Butylbenzene | 9.24791E-05 | 0.000353264 | 0.000390459 | 0.000358957 | 0.000358957 |
| Decane | 0.0030186 | 0 | 0 | 0 | 0 |
| Water | 3.91488 | 28.4611 | 30.0096 | 28.7514 | 28.7514 |
| Lube Oil | 4.77801E-06 | 0 | 0 | 0 | 0 |

| Mass Fraction | 5-T Working % | 6 % | 6-T Flashing % | 6-T Standing % | 6-T Total % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0.000801921 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0.362962 | 0 | 0 | 0 | 0 |
| Methane | 0.0689599 | 0 | 0 | 0 | 0 |
| Ethane | 1.95769 | 0 | 0 | 0 | 0 |
| Propane | 20.1723 | 0 | 0 | 0 | 0 |
| Isobutane | 8.44956 | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Fraction | 5-T Working % | 6 % | 6-T Flashing % | 6-T Standing % | 6-T Total % |
|---|---|---|---|---|---|
| n-Butane | 25.653 | 0 | 0 | 0 | 0 |
| Isopentane | 11.6072 | 0 | 0 | 0 | 0 |
| n-Pentane | 13.713 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0.133252 | 0 | 0 | 0 | 0 |
| Cyclopentane | 0.911383 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 2.96462 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 1.55018 | 0 | 0 | 0 | 0 |
| Hexane | 3.37386 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0.266138 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 1.54313 | 0 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0.00537403 | 0 | 0 | 0 | 0 |
| Benzene | 0.73792 | 63.4478 | 62.3837 | 63.3343 | 63.3343 |
| Cyclohexane | 1.67038 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0.400445 | 0 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0.597014 | 0 | 0 | 0 | 0 |
| n-Heptane | 0.847852 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0.91896 | 0 | 0 | 0 | 0 |
| 2,5-Dimethylhexane | 0.00760456 | 0 | 0 | 0 | 0 |
| Toluene | 0.356186 | 28.0364 | 28.5081 | 28.0414 | 28.0414 |
| 2-Methylheptane | 0.111722 | 0 | 0 | 0 | 0 |
| n-Octane | 0.26171 | 0 | 0 | 0 | 0 |
| Ethylcyclohexane | 0.0228662 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.00858251 | 0.417033 | 0.442743 | 0.419674 | 0.419674 |
| p-Xylene | 0.0453075 | 0 | 0 | 0 | 0 |
| o-Xylene | 0.00836002 | 0 | 0 | 0 | 0 |
| Nonane | 0.0350284 | 0 | 0 | 0 | 0 |
| Isopropylbenzene | 0.00122756 | 0.0216791 | 0.023437 | 0.0219157 | 0.0219157 |
| Cyclooctane | 0.00278859 | 0 | 0 | 0 | 0 |
| n-Propylbenzene | 0.000332786 | 0.0212652 | 0.0230714 | 0.021511 | 0.021511 |
| 1,3,5-Trimethylbenzene | 0.00198667 | 0.020509 | 0.0223749 | 0.0207772 | 0.0207772 |
| Isobutylbenzene | 8.86941E-05 | 0 | 0 | 0 | 0 |
| n-Butylbenzene | 0.000215154 | 0.000742985 | 0.000833231 | 0.000757111 | 0.000757111 |
| Decane | 0.00744474 | 0 | 0 | 0 | 0 |
| Water | 1.22252 | 8.03458 | 8.59568 | 8.13965 | 8.13965 |
| Lube Oil | 1.83174E-05 | 0 | 0 | 0 | 0 |

| Mass Flow | 5-T Working lb/h | 6 lb/h | 6-T Flashing lb/h | 6-T Standing lb/h | 6-T Total lb/h |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 7.28035E-05 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0.032952 | 0 | 0 | 0 | 0 |
| Methane | 0.00626062 | 0 | 0 | 0 | 0 |
| Ethane | 0.177732 | 0 | 0 | 0 | 0 |
| Propane | 1.83137 | 0 | 0 | 0 | 0 |
| Isobutane | 0.767105 | 0 | 0 | 0 | 0 |
| n-Butane | 2.32894 | 0 | 0 | 0 | 0 |
| Isopentane | 1.05377 | 0 | 0 | 0 | 0 |
| n-Pentane | 1.24496 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0.0120975 | 0 | 0 | 0 | 0 |
| Cyclopentane | 0.0827411 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0.269147 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0.140736 | 0 | 0 | 0 | 0 |
| Hexane | 0.306301 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0.0241617 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0.140095 | 0 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0.000487889 | 0 | 0 | 0 | 0 |
| Benzene | 0.0669931 | 0.312362 | 0 | 0.0295145 | 0.176811 |
| Cyclohexane | 0.151648 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0.0363549 | 0 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Flow | 5-T Working lb/h | 6 lb/h | 6-T Flashing lb/h | 6-T Standing lb/h | 6-T Total lb/h |
|---|---|---|---|---|---|
| 1,1-Dimethylcyclopentane | 0.0542008 | 0 | 0 | 0 | 0 |
| n-Heptane | 0.0769734 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0.083429 | 0 | 0 | 0 | 0 |
| 2,5-Dimethylhexane | 0.00069039 | 0 | 0 | 0 | 0 |
| Toluene | 0.0323368 | 0.138027 | 0 | 0.0130677 | 0.0782837 |
| 2-Methylheptane | 0.0101428 | 0 | 0 | 0 | 0 |
| n-Octane | 0.0237597 | 0 | 0 | 0 | 0 |
| Ethylcyclohexane | 0.00207594 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.000779175 | 0.00205311 | 0 | 0.000195573 | 0.00117161 |
| p-Xylene | 0.0041133 | 0 | 0 | 0 | 0 |
| o-Xylene | 0.000758975 | 0 | 0 | 0 | 0 |
| Nonane | 0.0031801 | 0 | 0 | 0 | 0 |
| Isopropylbenzene | 0.000111445 | 0.000106729 | 0 | 1.0213E-05 | 6.11823E-05 |
| Cyclooctane | 0.000253166 | 0 | 0 | 0 | 0 |
| n-Propylbenzene | 3.02124E-05 | 0.000104691 | 0 | 1.00244E-05 | 6.00527E-05 |
| 1,3,5-Trimethylbenzene | 0.000180362 | 0.000100969 | 0 | 9.68244E-06 | 5.80041E-05 |
| Isobutylbenzene | 8.05222E-06 | 0 | 0 | 0 | 0 |
| n-Butylbenzene | 1.95331E-05 | 3.65782E-06 | 0 | 3.52823E-07 | 2.11364E-06 |
| Decane | 0.000675881 | 0 | 0 | 0 | 0 |
| Water | 0.110988 | 0.0395553 | 0 | 0.00379318 | 0.0227236 |
| Lube Oil | 1.66297E-06 | 0 | 0 | 0 | 0 |

## Stream Properties

| Property | Units | 5-T Working | 6 | 6-T Flashing | 6-T Standing | 6-T Total |
|---|---|---|---|---|---|---|
| Temperature | °F | 78.8795 | 78.8795 | 78.8795 | 78.8795 | 78.8795 |
| Pressure | psia | 12.76 | 12.76 | 12.76 | 12.76 | 12.76 |
| Molecular Weight | lb/lbmol | 57.6905 | 63.8161 | 62.8957 | 63.6348 | 63.6348 |
| Std Liquid Volumetric Flow | sgpm | 0.0308605 | 0.001107 | 0 | 0.000104774 | 0.000627661 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

## Connections

| | 6-T Working | 7 | 7-T Flashing | 7-T Standing | 7-T Total |
|---|---|---|---|---|---|
| From Block | Wastewater Tank 6-T | Wastewater Tanks 7-T | Wastewater Tanks 7-T | Wastewater Tanks 7-T | MIX-102 |
| To Block | MIX-100 | -- | MIX-102 | MIX-102 | -- |

## Stream Composition

| Mole Fraction | 6-T Working % | 7 % | 7-T Flashing % | 7-T Standing % | 7-T Total % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0 | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 | 0 |
| n-Butane | 0 | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 | 0 | 0 |
| Cyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0 | 0 | 0 | 0 | 0 |
| Benzene | 51.596 | 51.7288 | 50.1854 | 51.5441 | 51.5441 |
| Cyclohexane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 | 0 | 0 |
| Toluene | 19.3666 | 19.4869 | 19.4632 | 19.3705 | 19.3705 |
| 2-Methylheptane | 0 | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 | 0 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.251551 | 0.252384 | 0.262662 | 0.251957 | 0.251957 |
| p-Xylene | 0 | 0 | 0 | 0 | 0 |
| o-Xylene | 0 | 0 | 0 | 0 | 0 |
| Nonane | 0 | 0 | 0 | 0 | 0 |
| Isopropylbenzene | 0.0116031 | 0.0115801 | 0.0122871 | 0.011628 | 0.011628 |
| Cyclooctane | 0 | 0 | 0 | 0 | 0 |
| n-Propylbenzene | 0.0113889 | 0.0113602 | 0.0120967 | 0.0114145 | 0.0114145 |
| 1,3,5-Trimethylbenzene | 0.0110004 | 0.0109523 | 0.0117331 | 0.0110268 | 0.0110268 |
| Isobutylbenzene | 0 | 0 | 0 | 0 | 0 |
| n-Butylbenzene | 0.000358957 | 0.000355308 | 0.000391557 | 0.00036012 | 0.00036012 |
| Decane | 0 | 0 | 0 | 0 | 0 |
| Water | 28.7514 | 28.4976 | 30.0522 | 28.7991 | 28.7991 |
| Lube Oil | 0 | 0 | 0 | 0 | 0 |

| Mass Fraction | 6-T Working % | 7 % | 7-T Flashing % | 7-T Standing % | 7-T Total % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0 | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Fraction | 6-T Working % | 7 % | 7-T Flashing % | 7-T Standing % | 7-T Total % |
|---|---|---|---|---|---|
| n-Butane | 0 | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 | 0 | 0 |
| Cyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0 | 0 | 0 | 0 | 0 |
| Benzene | 63.3343 | 63.3285 | 62.3515 | 63.2983 | 63.2983 |
| Cyclohexane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 | 0 | 0 |
| Toluene | 28.0414 | 28.1406 | 28.5238 | 28.0593 | 28.0593 |
| 2-Methylheptane | 0 | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 | 0 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.419674 | 0.419945 | 0.443538 | 0.420536 | 0.420536 |
| p-Xylene | 0 | 0 | 0 | 0 | 0 |
| o-Xylene | 0 | 0 | 0 | 0 | 0 |
| Nonane | 0 | 0 | 0 | 0 | 0 |
| Isopropylbenzene | 0.0219157 | 0.0218141 | 0.0234897 | 0.0219722 | 0.0219722 |
| Cyclooctane | 0 | 0 | 0 | 0 | 0 |
| n-Propylbenzene | 0.021511 | 0.0213998 | 0.0231255 | 0.0215689 | 0.0215689 |
| 1,3,5-Trimethylbenzene | 0.0207772 | 0.0206314 | 0.0224305 | 0.0208363 | 0.0208363 |
| Isobutylbenzene | 0 | 0 | 0 | 0 | 0 |
| n-Butylbenzene | 0.000757111 | 0.000747422 | 0.000835908 | 0.000759898 | 0.000759898 |
| Decane | 0 | 0 | 0 | 0 | 0 |
| Water | 8.13965 | 8.04636 | 8.61133 | 8.15673 | 8.15673 |
| Lube Oil | 0 | 0 | 0 | 0 | 0 |

| Mass Flow | 6-T Working lb/h | 7 lb/h | 7-T Flashing lb/h | 7-T Standing lb/h | 7-T Total lb/h |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0 | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 | 0 |
| n-Butane | 0 | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 | 0 | 0 |
| Cyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0 | 0 | 0 | 0 | 0 |
| Benzene | 0.147297 | 0.311334 | 0 | 0.0865183 | 0.328577 |
| Cyclohexane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Flow | 6-T Working lb/h | 7 lb/h | 7-T Flashing lb/h | 7-T Standing lb/h | 7-T Total lb/h |
|---|---|---|---|---|---|
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 | 0 | 0 |
| Toluene | 0.065216 | 0.138344 | 0 | 0.0383525 | 0.145654 |
| 2-Methylheptane | 0 | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 | 0 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.000976037 | 0.00206453 | 0 | 0.000574804 | 0.00218297 |
| p-Xylene | 0 | 0 | 0 | 0 | 0 |
| o-Xylene | 0 | 0 | 0 | 0 | 0 |
| Nonane | 0 | 0 | 0 | 0 | 0 |
| Isopropylbenzene | 5.09694E-05 | 0.000107242 | 0 | 3.00324E-05 | 0.000114056 |
| Cyclooctane | 0 | 0 | 0 | 0 | 0 |
| n-Propylbenzene | 5.00283E-05 | 0.000105205 | 0 | 2.94811E-05 | 0.000111963 |
| 1,3,5-Trimethylbenzene | 4.83216E-05 | 0.000101428 | 0 | 2.84798E-05 | 0.00010816 |
| Isobutylbenzene | 0 | 0 | 0 | 0 | 0 |
| n-Butylbenzene | 1.76081E-06 | 3.67446E-06 | 0 | 1.03866E-06 | 3.94458E-06 |
| Decane | 0 | 0 | 0 | 0 | 0 |
| Water | 0.0189304 | 0.0395574 | 0 | 0.0111489 | 0.042341 |
| Lube Oil | 0 | 0 | 0 | 0 | 0 |

## Stream Properties

| Property | Units | 6-T Working | 7 | 7-T Flashing | 7-T Standing | 7-T Total |
|---|---|---|---|---|---|---|
| Temperature | °F | 78.8795 | 79.1737 | 79.1737 | 79.1737 | 79.1737 |
| Pressure | psia | 12.76 | 12.76 | 12.76 | 12.76 | 12.76 |
| Molecular Weight | lb/lbmol | 63.6348 | 63.8044 | 62.8706 | 63.6068 | 63.6068 |
| Std Liquid Volumetric Flow | sgpm | 0.000522888 | 0.00110544 | 0 | 0.000307301 | 0.00116706 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

## Connections

| | 7-T Working | | | | |
|---|---|---|---|---|---|
| From Block | Wastewater Tanks 7-T | | | | |
| To Block | MIX-102 | | | | |

## Stream Composition

| Mole Fraction | 7-T Working % | | | | |
|---|---|---|---|---|---|
| H2S | 0 | | | | |
| Nitrogen | 0 | | | | |
| Carbon Dioxide | 0 | | | | |
| Methane | 0 | | | | |
| Ethane | 0 | | | | |
| Propane | 0 | | | | |
| Isobutane | 0 | | | | |
| n-Butane | 0 | | | | |
| Isopentane | 0 | | | | |
| n-Pentane | 0 | | | | |
| 2,2-Dimethylbutane | 0 | | | | |
| Cyclopentane | 0 | | | | |
| 2-Methylpentane | 0 | | | | |
| 3-Methylpentane | 0 | | | | |
| Hexane | 0 | | | | |
| 2,2-Dimethylpentane | 0 | | | | |
| Methylcyclopentane | 0 | | | | |
| 2,2,3-Trimethylbutane | 0 | | | | |
| Benzene | 51.5441 | | | | |
| Cyclohexane | 0 | | | | |
| 2-Methylhexane | 0 | | | | |
| 3-Methylhexane | 0 | | | | |
| 1,1-Dimethylcyclopentane | 0 | | | | |
| n-Heptane | 0 | | | | |
| Methylcyclohexane | 0 | | | | |
| 2,5-Dimethylhexane | 0 | | | | |
| Toluene | 19.3705 | | | | |
| 2-Methylheptane | 0 | | | | |
| n-Octane | 0 | | | | |
| Ethylcyclohexane | 0 | | | | |
| Ethylbenzene | 0.251957 | | | | |
| p-Xylene | 0 | | | | |
| o-Xylene | 0 | | | | |
| Nonane | 0 | | | | |
| Isopropylbenzene | 0.011628 | | | | |
| Cyclooctane | 0 | | | | |
| n-Propylbenzene | 0.0114145 | | | | |
| 1,3,5-Trimethylbenzene | 0.0110268 | | | | |
| Isobutylbenzene | 0 | | | | |
| n-Butylbenzene | 0.00036012 | | | | |
| Decane | 0 | | | | |
| Water | 28.7991 | | | | |
| Lube Oil | 0 | | | | |

| Mass Fraction | 7-T Working % | | | | |
|---|---|---|---|---|---|
| H2S | 0 | | | | |
| Nitrogen | 0 | | | | |
| Carbon Dioxide | 0 | | | | |
| Methane | 0 | | | | |
| Ethane | 0 | | | | |
| Propane | 0 | | | | |
| Isobutane | 0 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Fraction | 7-T Working % | | | | |
|---|---|---|---|---|---|
| n-Butane | 0 | | | | |
| Isopentane | 0 | | | | |
| n-Pentane | 0 | | | | |
| 2,2-Dimethylbutane | 0 | | | | |
| Cyclopentane | 0 | | | | |
| 2-Methylpentane | 0 | | | | |
| 3-Methylpentane | 0 | | | | |
| Hexane | 0 | | | | |
| 2,2-Dimethylpentane | 0 | | | | |
| Methylcyclopentane | 0 | | | | |
| 2,2,3-Trimethylbutane | 0 | | | | |
| Benzene | 63.2983 | | | | |
| Cyclohexane | 0 | | | | |
| 2-Methylhexane | 0 | | | | |
| 3-Methylhexane | 0 | | | | |
| 1,1-Dimethylcyclopentane | 0 | | | | |
| n-Heptane | 0 | | | | |
| Methylcyclohexane | 0 | | | | |
| 2,5-Dimethylhexane | 0 | | | | |
| Toluene | 28.0593 | | | | |
| 2-Methylheptane | 0 | | | | |
| n-Octane | 0 | | | | |
| Ethylcyclohexane | 0 | | | | |
| Ethylbenzene | 0.420536 | | | | |
| p-Xylene | 0 | | | | |
| o-Xylene | 0 | | | | |
| Nonane | 0 | | | | |
| Isopropylbenzene | 0.0219722 | | | | |
| Cyclooctane | 0 | | | | |
| n-Propylbenzene | 0.0215689 | | | | |
| 1,3,5-Trimethylbenzene | 0.0208363 | | | | |
| Isobutylbenzene | 0 | | | | |
| n-Butylbenzene | 0.000759898 | | | | |
| Decane | 0 | | | | |
| Water | 8.15673 | | | | |
| Lube Oil | 0 | | | | |

| Mass Flow | 7-T Working lb/h | | | | |
|---|---|---|---|---|---|
| H2S | 0 | | | | |
| Nitrogen | 0 | | | | |
| Carbon Dioxide | 0 | | | | |
| Methane | 0 | | | | |
| Ethane | 0 | | | | |
| Propane | 0 | | | | |
| Isobutane | 0 | | | | |
| n-Butane | 0 | | | | |
| Isopentane | 0 | | | | |
| n-Pentane | 0 | | | | |
| 2,2-Dimethylbutane | 0 | | | | |
| Cyclopentane | 0 | | | | |
| 2-Methylpentane | 0 | | | | |
| 3-Methylpentane | 0 | | | | |
| Hexane | 0 | | | | |
| 2,2-Dimethylpentane | 0 | | | | |
| Methylcyclopentane | 0 | | | | |
| 2,2,3-Trimethylbutane | 0 | | | | |
| Benzene | 0.242059 | | | | |
| Cyclohexane | 0 | | | | |
| 2-Methylhexane | 0 | | | | |
| 3-Methylhexane | 0 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | | |

| Mass Flow | 7-T Working lb/h | | | | |
|---|---|---|---|---|---|
| 1,1-Dimethylcyclopentane | 0 | | | | |
| n-Heptane | 0 | | | | |
| Methylcyclohexane | 0 | | | | |
| 2,5-Dimethylhexane | 0 | | | | |
| Toluene | 0.107301 | | | | |
| 2-Methylheptane | 0 | | | | |
| n-Octane | 0 | | | | |
| Ethylcyclohexane | 0 | | | | |
| Ethylbenzene | 0.00160817 | | | | |
| p-Xylene | 0 | | | | |
| o-Xylene | 0 | | | | |
| Nonane | 0 | | | | |
| Isopropylbenzene | 8.40239E-05 | | | | |
| Cyclooctane | 0 | | | | |
| n-Propylbenzene | 8.24815E-05 | | | | |
| 1,3,5-Trimethylbenzene | 7.968E-05 | | | | |
| Isobutylbenzene | 0 | | | | |
| n-Butylbenzene | 2.90592E-06 | | | | |
| Decane | 0 | | | | |
| Water | 0.0311921 | | | | |
| Lube Oil | 0 | | | | |

## Stream Properties

| Property | Units | 7-T Working | | | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 79.1737 | | | | |
| Pressure | psia | 12.76 | | | | |
| Molecular Weight | lb/lbmol | 63.6068 | | | | |
| Std Liquid Volumetric Flow | sgpm | 0.000859757 | | | | |

**Remarks**


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# Wastewater Tanks (5-T, 6-T, 7-T))
# Plant Schematic

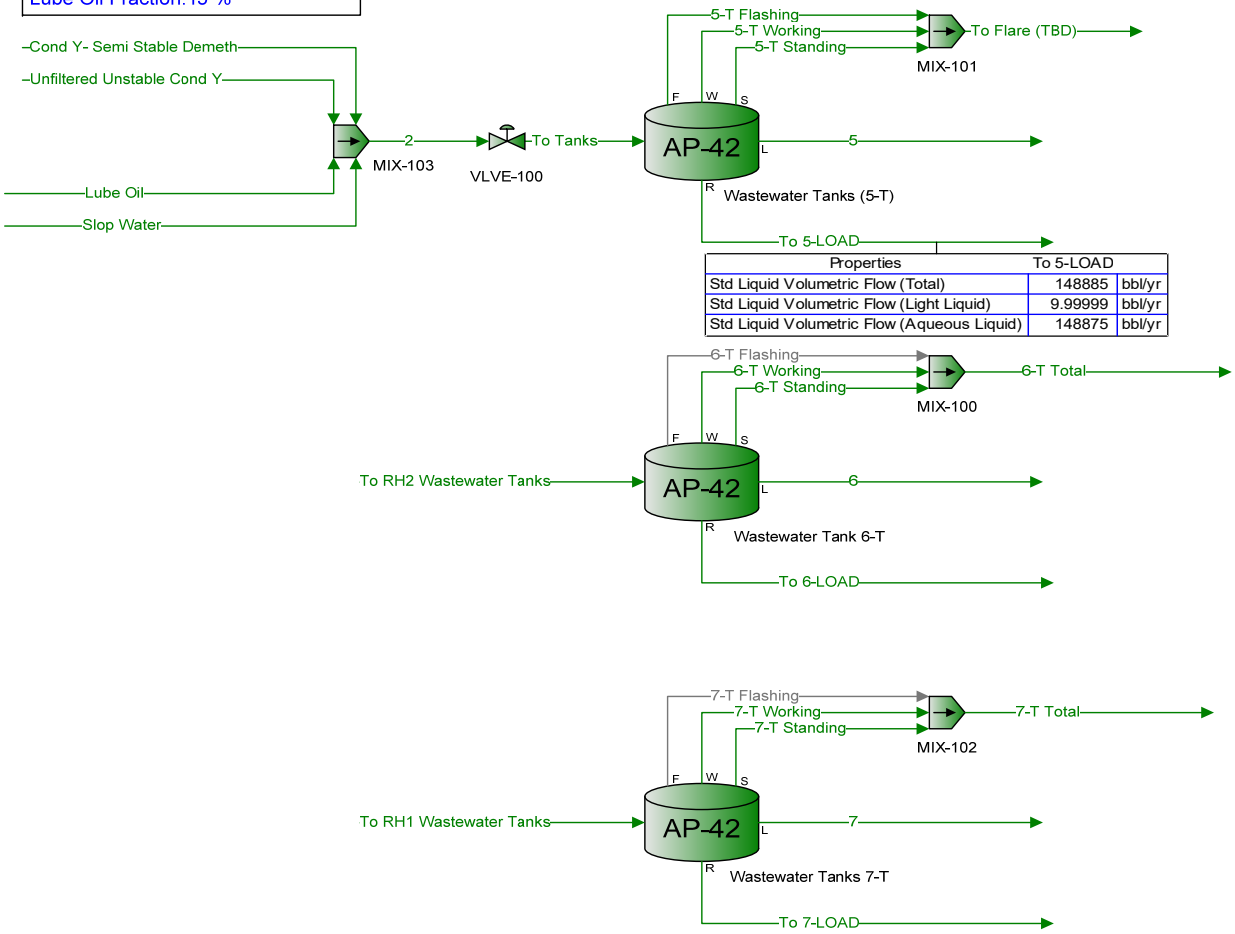
| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

Total Condensate: 10 bbl/yr

Total Water: 148,875 bbl/yr

Lube Oil Fraction:15 %

**Targa Northern Delaware, LLC – Red Hills Gas Processing Plant**




| Properties | To 5-LOAD | |
|---|---|---|
| Std Liquid Volumetric Flow (Total) | 148885 | bbl/yr |
| Std Liquid Volumetric Flow (Light Liquid) | 9.99999 | bbl/yr |
| Std Liquid Volumetric Flow (Aqueous Liquid) | 148875 | bbl/yr |

* User Specified Values
? Extrapolated or Approximate Values

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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

## Connections

| | Cond Y- Semi Stable Demeth | Lube Oil | Slop Water | To Flare (TBD) | To RH1 Wastewater Tanks |
|---|---|---|---|---|---|
| From Block | -- | -- | -- | MIX-101 | -- |
| To Block | MIX-103 | MIX-103 | MIX-103 | -- | Wastewater Tanks 7-T |

## Stream Composition

| Mole Fraction | Cond Y- Semi Stable Demeth % | Lube Oil % | Slop Water % | To Flare (TBD) % | To RH1 Wastewater Tanks % |
|---|---|---|---|---|---|
| H2S | 0 * | 0 * | 0 * | 0 | 0 |
| Nitrogen | 0.133 * | 0 * | 0 * | 0.0398228 | 0 |
| Carbon Dioxide | 0.004 * | 0 * | 0 * | 0.428148 | 0 |
| Methane | 0.066 * | 0 * | 0 * | 2.1432 | 0 |
| Ethane | 10.182 * | 0 * | 0 * | 7.50381 | 0 |
| Propane | 24.316 * | 0 * | 0 * | 17.6459 | 0 |
| Isobutane | 6.172 * | 0 * | 0 * | 5.21414 | 0 |
| n-Butane | 18.708 * | 0 * | 0 * | 16.6889 | 0 |
| Isopentane | 7.619 * | 0 * | 0 * | 7.4753 | 0 |
| n-Pentane | 9.713 * | 0 * | 0 * | 9.73526 | 0 |
| 2,2-Dimethylbutane | 0.099 * | 0 * | 0 * | 0.0963814 | 0 |
| Cyclopentane | 0.767 * | 0 * | 0 * | 0.785814 | 0 |
| 2-Methylpentane | 2.593 * | 0 * | 0 * | 2.61319 | 0 |
| 3-Methylpentane | 1.445 * | 0 * | 0 * | 1.47346 | 0 |
| Hexane | 3.682 * | 0 * | 0 * | 3.76734 | 0 |
| 2,2-Dimethylpentane | 0.29 * | 0 * | 0 * | 0.31769 | 0 |
| Methylcyclopentane | 1.687 * | 0 * | 0 * | 1.77451 | 0 |
| 2,2,3-Trimethylbutane | 0.005 * | 0 * | 0 * | 0.00664791 | 0 |
| Benzene | 0.874 * | 0 * | 0 * | 0.26961 | 0.123752 |
| Cyclohexane | 2.203 * | 0 * | 0 * | 2.35044 | 0 |
| 2-Methylhexane | 0.639 * | 0 * | 0 * | 0.681322 | 0 |
| 3-Methylhexane | 0 * | 0 * | 0 * | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0.881 * | 0 * | 0 * | 0.956998 | 0 |
| n-Heptane | 1.83 * | 0 * | 0 * | 1.86455 | 0 |
| Methylcyclohexane | 2.09 * | 0 * | 0 * | 2.06333 | 0 |
| 2,5-Dimethylhexane | 0.02 * | 0 * | 0 * | 0.0147106 | 0 |
| Toluene | 0.88 * | 0 * | 0 * | 0.292882 | 0.141124 |
| 2-Methylheptane | 0.392 * | 0 * | 0 * | 0.217558 | 0 |
| n-Octane | 1.297 * | 0 * | 0 * | 0.51275 | 0 |
| Ethylcyclohexane | 0.122 * | 0 * | 0 * | 0.0472916 | 0 |
| Ethylbenzene | 0.069 * | 0 * | 0 * | 0.0118256 | 0.00679738 |
| p-Xylene | 0.336 * | 0 * | 0 * | 0.0716648 | 0 |
| o-Xylene | 0.063 * | 0 * | 0 * | 0.0106475 | 0 |
| Nonane | 0.466 * | 0 * | 0 * | 0.0608435 | 0 |
| Isopropylbenzene | 0.013 * | 0 * | 0 * | 0.00202888 | 0.000511358 |
| Cyclooctane | 0.032 * | 0 * | 0 * | 0.00594206 | 0 |
| n-Propylbenzene | 0.005 * | 0 * | 0 * | 0.000560995 | 0.000650933 |
| 1,3,5-Trimethylbenzene | 0.039 * | 0 * | 0 * | 0.00347303 | 0.000751031 |
| Isobutylbenzene | 0.002 * | 0 * | 0 * | 0.000121514 | 0 |
| n-Butylbenzene | 0.008 * | 0 * | 0 * | 0.000375735 | 5.69826E-05 |
| Decane | 0.258 * | 0 * | 0 * | 0.011842 | 0 |
| Water | 0 * | 0 * | 100 * | 12.8397 | 99.7264 |
| Lube Oil | 0 * | 100 * | 0 * | 3.284E-06 | 0 |

| Mass Fraction | Cond Y- Semi Stable Demeth % | Lube Oil % | Slop Water % | To Flare (TBD) % | To RH1 Wastewater Tanks % |
|---|---|---|---|---|---|
| H2S | 0 * | 0 * | 0 * | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Fraction | Cond Y- Semi Stable Demeth % | Lube Oil % | Slop Water % | To Flare (TBD) % | To RH1 Wastewater Tanks % |
|---|---|---|---|---|---|
| Nitrogen | 0.0599023 * | 0 * | 0 * | 0.0197968 | 0 |
| Carbon Dioxide | 0.0028303 * | 0 * | 0 * | 0.334378 | 0 |
| Methane | 0.0170232 * | 0 * | 0 * | 0.610143 | 0 |
| Ethane | 4.92242 * | 0 * | 0 * | 4.00405 | 0 |
| Propane | 17.2391 * | 0 * | 0 * | 13.8082 | 0 |
| Isobutane | 5.76758 * | 0 * | 0 * | 5.37802 | 0 |
| n-Butane | 17.4822 * | 0 * | 0 * | 17.2135 | 0 |
| Isopentane | 8.83798 * | 0 * | 0 * | 9.57095 | 0 |
| n-Pentane | 11.267 * | 0 * | 0 * | 12.4645 | 0 |
| 2,2-Dimethylbutane | 0.137165 * | 0 * | 0 * | 0.147392 | 0 |
| Cyclopentane | 0.864855 * | 0 * | 0 * | 0.978 | 0 |
| 2-Methylpentane | 3.59262 * | 0 * | 0 * | 3.99625 | 0 |
| 3-Methylpentane | 2.00206 * | 0 * | 0 * | 2.25329 | 0 |
| Hexane | 5.10144 * | 0 * | 0 * | 5.76123 | 0 |
| 2,2-Dimethylpentane | 0.467197 * | 0 * | 0 * | 0.564908 | 0 |
| Methylcyclopentane | 2.28268 * | 0 * | 0 * | 2.6502 | 0 |
| 2,2,3-Trimethylbutane | 0.00805512 * | 0 * | 0 * | 0.0118211 | 0 |
| Benzene | 1.09763 * | 0 * | 0 * | 0.373724 | 0.531059 |
| Cyclohexane | 2.98087 * | 0 * | 0 * | 3.51034 | 0 |
| 2-Methylhexane | 1.02944 * | 0 * | 0 * | 1.21151 | 0 |
| 3-Methylhexane | 0 * | 0 * | 0 * | 0 | 0 |
| 1,1-Dimethylcyclopentane | 1.39076 * | 0 * | 0 * | 1.66747 | 0 |
| n-Heptane | 2.94817 * | 0 * | 0 * | 3.31549 | 0 |
| Methylcyclohexane | 3.2993 * | 0 * | 0 * | 3.59514 | 0 |
| 2,5-Dimethylhexane | 0.0367308 * | 0 * | 0 * | 0.0298197 | 0 |
| Toluene | 1.30362 * | 0 * | 0 * | 0.478885 | 0.714356 |
| 2-Methylheptane | 0.719924 * | 0 * | 0 * | 0.441009 | 0 |
| n-Octane | 2.38199 * | 0 * | 0 * | 1.03939 | 0 |
| Ethylcyclohexane | 0.220104 * | 0 * | 0 * | 0.0941723 | 0 |
| Ethylbenzene | 0.117776 * | 0 * | 0 * | 0.0222794 | 0.0396458 |
| p-Xylene | 0.573518 * | 0 * | 0 * | 0.135016 | 0 |
| o-Xylene | 0.107535 * | 0 * | 0 * | 0.0200597 | 0 |
| Nonane | 0.960919 * | 0 * | 0 * | 0.13848 | 0 |
| Isopropylbenzene | 0.0251214 * | 0 * | 0 * | 0.0043274 | 0.00337655 |
| Cyclooctane | 0.0577322 * | 0 * | 0 * | 0.0118325 | 0 |
| n-Propylbenzene | 0.00966207 * | 0 * | 0 * | 0.00119655 | 0.00429818 |
| 1,3,5-Trimethylbenzene | 0.0753641 * | 0 * | 0 * | 0.00740765 | 0.00495914 |
| Isobutylbenzene | 0.00431586 * | 0 * | 0 * | 0.000289425 | 0 |
| n-Butylbenzene | 0.0172634 * | 0 * | 0 * | 0.000894934 | 0.000420173 |
| Decane | 0.590194 * | 0 * | 0 * | 0.0298999 | 0 |
| Water | 0 * | 0 * | 100 * | 4.10482 | 98.7019 |
| Lube Oil | 0 * | 100 * | 0 * | 1.2889E-05 | 0 |

| Mass Flow | Cond Y- Semi Stable Demeth lb/h | Lube Oil lb/h | Slop Water lb/h | To Flare (TBD) lb/h | To RH1 Wastewater Tanks lb/h |
|---|---|---|---|---|---|
| H2S | 0 * | 0 * | 0 * | 0 | 0 |
| Nitrogen | 0.000645902 * | 0 * | 0 * | 0.000832196 | 0 |
| Carbon Dioxide | 3.0518E-05 * | 0 * | 0 * | 0.0140562 | 0 |
| Methane | 0.000183554 * | 0 * | 0 * | 0.0256485 | 0 |
| Ethane | 0.0530764 * | 0 * | 0 * | 0.168317 | 0 |
| Propane | 0.185882 * | 0 * | 0 * | 0.580452 | 0 |
| Isobutane | 0.0621895 * | 0 * | 0 * | 0.226075 | 0 |
| n-Butane | 0.188503 * | 0 * | 0 * | 0.723599 | 0 |
| Isopentane | 0.0952963 * | 0 * | 0 * | 0.402332 | 0 |
| n-Pentane | 0.121487 * | 0 * | 0 * | 0.523967 | 0 |
| 2,2-Dimethylbutane | 0.001479 * | 0 * | 0 * | 0.00619589 | 0 |
| Cyclopentane | 0.00932537 * | 0 * | 0 * | 0.041112 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Flow | Cond Y- Semi Stable Demeth lb/h | Lube Oil lb/h | Slop Water lb/h | To Flare (TBD) lb/h | To RH1 Wastewater Tanks lb/h |
|---|---|---|---|---|---|
| 2-Methylpentane | 0.0387378 * | 0 * | 0 * | 0.167989 | 0 |
| 3-Methylpentane | 0.0215874 * | 0 * | 0 * | 0.0947213 | 0 |
| Hexane | 0.0550067 * | 0 * | 0 * | 0.242184 | 0 |
| 2,2-Dimethylpentane | 0.00503759 * | 0 * | 0 * | 0.0237469 | 0 |
| Methylcyclopentane | 0.0246131 * | 0 * | 0 * | 0.111406 | 0 |
| 2,2,3-Trimethylbutane | 8.68551E-05 * | 0 * | 0 * | 0.000496923 | 0 |
| Benzene | 0.0118352 * | 0 * | 0 * | 0.0157102 | 20.1803 |
| Cyclohexane | 0.0321415 * | 0 * | 0 * | 0.147564 | 0 |
| 2-Methylhexane | 0.0111001 * | 0 * | 0 * | 0.0509279 | 0 |
| 3-Methylhexane | 0 * | 0 * | 0 * | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0.014996 * | 0 * | 0 * | 0.0700952 | 0 |
| n-Heptane | 0.031789 * | 0 * | 0 * | 0.139373 | 0 |
| Methylcyclohexane | 0.035575 * | 0 * | 0 * | 0.151128 | 0 |
| 2,5-Dimethylhexane | 0.000396053 * | 0 * | 0 * | 0.00125353 | 0 |
| Toluene | 0.0140563 * | 0 * | 0 * | 0.0201308 | 27.1457 |
| 2-Methylheptane | 0.00776264 * | 0 * | 0 * | 0.0185386 | 0 |
| n-Octane | 0.0256841 * | 0 * | 0 * | 0.0436926 | 0 |
| Ethylcyclohexane | 0.00237329 * | 0 * | 0 * | 0.0039587 | 0 |
| Ethylbenzene | 0.00126993 * | 0 * | 0 * | 0.000936556 | 1.50655 |
| p-Xylene | 0.006184 * | 0 * | 0 * | 0.00567564 | 0 |
| o-Xylene | 0.0011595 * | 0 * | 0 * | 0.000843246 | 0 |
| Nonane | 0.0103612 * | 0 * | 0 * | 0.00582125 | 0 |
| Isopropylbenzene | 0.000270873 * | 0 * | 0 * | 0.00018191 | 0.12831 |
| Cyclooctane | 0.000622502 * | 0 * | 0 * | 0.0004974 | 0 |
| n-Propylbenzene | 0.000104182 * | 0 * | 0 * | 5.02991E-05 | 0.163332 |
| 1,3,5-Trimethylbenzene | 0.00081262 * | 0 * | 0 * | 0.000311394 | 0.188448 |
| Isobutylbenzene | 4.65361E-05 * | 0 * | 0 * | 1.21665E-05 | 0 |
| n-Butylbenzene | 0.000186145 * | 0 * | 0 * | 3.76202E-05 | 0.0159666 |
| Decane | 0.00636382 * | 0 * | 0 * | 0.0012569 | 0 |
| Water | 0 * | 0 * | 5950.99 * | 0.172554 | 3750.69 |
| Lube Oil | 0 * | 0.0536446 * | 0 * | 5.41814E-07 | 0 |

## Stream Properties

| Property | Units | Cond Y- Semi Stable Demeth | Lube Oil | Slop Water | To Flare (TBD) | To RH1 Wastewater Tanks |
|---|---|---|---|---|---|---|
| Temperature | °F | 152 * | 120 * | 95 * | 77.202 | 75 * |
| Pressure | psia | 182.696 * | 199.696 * | 164.696 * | 12.76 | 14.6959 * |
| Molecular Weight | lb/lbmol | 62.1976 | 221.167 | 18.0153 | 56.3511 | 18.2023 |
| Mass Density | lb/ft^3 | 13.3335 | 54.3277 | 62.0214 | 0.175817 | 62.1279 |
| Mass Flow | lb/h | 1.07826 | 0.0536446 | 5950.99 | 4.20368 | 3800.02 |
| Std Vapor Volumetric Flow | MMSCFD | 0.00015789 | 2.20908E-06 | 3.00852 | 0.00067941 | 1.90136 |
| Std Liquid Volumetric Flow | sgpm | 0.00361622 * | 0.00011995 * | 11.8965 * | 0.0138449 | 7.61035 * |
| Specific Gravity | | | 0.871072 | 0.994431 | | 0.996139 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 3447.93 | 11286.5 | 50.31 | 2998.71 | 61.5893 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

## Connections

| | To RH2 Wastewater Tanks | To Tanks | To 5-LOAD | To 6-LOAD | To 7-LOAD |
|---|---|---|---|---|---|
| From Block | -- | VLVE-100 | Wastewater Tanks (5-T) | Wastewater Tank 6-T | Wastewater Tanks 7-T |
| To Block | Wastewater Tank 6-T | Wastewater Tanks (5-T) | -- | -- | -- |

## Stream Composition

| Mole Fraction | To RH2 Wastewater Tanks % | To Tanks % | To 5-LOAD % | To 6-LOAD % | To 7-LOAD % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 8.99127E-06 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 9.66679E-05 | 0 | 0 | 0 |
| Methane | 0 | 0.000483895 | 0 | 0 | 0 |
| Ethane | 0 | 0.00169422 | 0 | 0 | 0 |
| Propane | 0 | 0.00398412 | 0 | 0 | 0 |
| Isobutane | 0 | 0.00117726 | 0 | 0 | 0 |
| n-Butane | 0 | 0.00376805 | 0 | 0 | 0 |
| Isopentane | 0 | 0.00168779 | 0 | 0 | 0 |
| n-Pentane | 0 | 0.00219804 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 2.17612E-05 | 0 | 0 | 0 |
| Cyclopentane | 0 | 0.000177422 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0.000590011 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0.000332679 | 0 | 0 | 0 |
| Hexane | 0 | 0.000850595 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 7.17286E-05 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0.000400651 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0 | 1.50098E-06 | 0 | 0 | 0 |
| Benzene | 0.123752 | 0.00022097 | 0.000160133 | 0.12267 | 0.121742 |
| Cyclohexane | 0 | 0.000530686 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0.00015383 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0.000216073 | 0 | 0 | 0 |
| n-Heptane | 0 | 0.00045646 | 3.54871E-05 | 0 | 0 |
| Methylcyclohexane | 0 | 0.000522589 | 5.67405E-05 | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 5.07494E-06 | 1.75394E-06 | 0 | 0 |
| Toluene | 0.141124 | 0.000230419 | 0.000164329 | 0.14072 | 0.140372 |
| 2-Methylheptane | 0 | 0.000106188 | 5.70805E-05 | 0 | 0 |
| n-Octane | 0 | 0.000358047 | 0.000242332 | 0 | 0 |
| Ethylcyclohexane | 0 | 3.33415E-05 | 2.2669E-05 | 0 | 0 |
| Ethylbenzene | 0.00679738 | 1.44584E-05 | 1.17911E-05 | 0.00679224 | 0.0067878 |
| p-Xylene | 0 | 8.03354E-05 | 6.41693E-05 | 0 | 0 |
| o-Xylene | 0 | 1.75498E-05 | 1.51492E-05 | 0 | 0 |
| Nonane | 0 | 0.00013345 | 0.00011974 | 0 | 0 |
| Isopropylbenzene | 0.000511358 | 3.9335E-06 | 3.47621E-06 | 0.000511125 | 0.000510924 |
| Cyclooctane | 0 | 8.64631E-06 | 7.30636E-06 | 0 | 0 |
| n-Propylbenzene | 0.000650933 | 1.34615E-06 | 1.21976E-06 | 0.000650707 | 0.000650512 |
| 1,3,5-Trimethylbenzene | 0.000751031 | 1.07167E-05 | 9.93481E-06 | 0.000750816 | 0.000750629 |
| Isobutylbenzene | 0 | 5.69425E-07 | 5.42112E-07 | 0 | 0 |
| n-Butylbenzene | 5.69826E-05 | 2.74218E-06 | 2.65795E-06 | 5.69763E-05 | 5.69708E-05 |
| Decane | 0 | 7.70169E-05 | 7.436E-05 | 0 | 0 |
| Water | 99.7264 | 99.9792 | 99.9989 | 99.7278 | 99.7291 |
| Lube Oil | 0 | 7.3412E-05 | 7.34278E-05 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Fraction | To RH2 Wastewater Tanks % | To Tanks % | To 5-LOAD % | To 6-LOAD % | To 7-LOAD % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 1.39737E-05 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0.000236022 | 0 | 0 | 0 |
| Methane | 0 | 0.000430672 | 0 | 0 | 0 |
| Ethane | 0 | 0.00282627 | 0 | 0 | 0 |
| Propane | 0 | 0.00974657 | 0 | 0 | 0 |
| Isobutane | 0 | 0.0037961 | 0 | 0 | 0 |
| n-Butane | 0 | 0.0121502 | 0 | 0 | 0 |
| Isopentane | 0 | 0.0067557 | 0 | 0 | 0 |
| n-Pentane | 0 | 0.00879811 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0.000104037 | 0 | 0 | 0 |
| Cyclopentane | 0 | 0.000690326 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0.00282077 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0.0015905 | 0 | 0 | 0 |
| Hexane | 0 | 0.00406659 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0.000398743 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0.00187065 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0 | 8.344E-06 | 0 | 0 | 0 |
| Benzene | 0.531059 | 0.000957577 | 0.000694272 | 0.526444 | 0.522483 |
| Cyclohexane | 0 | 0.00247779 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0.000855148 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0.00117699 | 0 | 0 | 0 |
| n-Heptane | 0 | 0.00253748 | 0.000197369 | 0 | 0 |
| Methylcyclohexane | 0 | 0.00284665 | 0.000309226 | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 3.2161E-05 | 1.11204E-05 | 0 | 0 |
| Toluene | 0.714356 | 0.00117783 | 0.000840403 | 0.712348 | 0.71062 |
| 2-Methylheptane | 0 | 0.000672939 | 0.000361906 | 0 | 0 |
| n-Octane | 0 | 0.00226902 | 0.00153645 | 0 | 0 |
| Ethylcyclohexane | 0 | 0.000207563 | 0.000141191 | 0 | 0 |
| Ethylbenzene | 0.0396458 | 8.51581E-05 | 6.94811E-05 | 0.0396179 | 0.0395938 |
| p-Xylene | 0 | 0.000473165 | 0.00037813 | 0 | 0 |
| o-Xylene | 0 | 0.000103366 | 8.92699E-05 | 0 | 0 |
| Nonane | 0 | 0.00094955 | 0.000852405 | 0 | 0 |
| Isopropylbenzene | 0.00337655 | 2.62288E-05 | 2.31906E-05 | 0.00337519 | 0.00337401 |
| Cyclooctane | 0 | 5.38266E-05 | 4.55067E-05 | 0 | 0 |
| n-Propylbenzene | 0.00429818 | 8.97617E-06 | 8.13733E-06 | 0.00429692 | 0.00429582 |
| 1,3,5-Trimethylbenzene | 0.00495914 | 7.14595E-05 | 6.62776E-05 | 0.00495798 | 0.00495697 |
| Isobutylbenzene | 0 | 4.24006E-06 | 4.03862E-06 | 0 | 0 |
| n-Butylbenzene | 0.000420173 | 2.04189E-05 | 1.98012E-05 | 0.000420148 | 0.000420127 |
| Decane | 0 | 0.000607938 | 0.000587247 | 0 | 0 |
| Water | 98.7019 | 99.9252 | 99.9929 | 98.7085 | 98.7143 |
| Lube Oil | 0 | 0.000900765 | 0.000901392 | 0 | 0 |

| Mass Flow | To RH2 Wastewater Tanks lb/h | To Tanks lb/h | To 5-LOAD lb/h | To 6-LOAD lb/h | To 7-LOAD lb/h |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0.000832196 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0.0140562 | 0 | 0 | 0 |
| Methane | 0 | 0.0256485 | 0 | 0 | 0 |
| Ethane | 0 | 0.168317 | 0 | 0 | 0 |
| Propane | 0 | 0.580452 | 0 | 0 | 0 |
| Isobutane | 0 | 0.226075 | 0 | 0 | 0 |
| n-Butane | 0 | 0.723599 | 0 | 0 | 0 |
| Isopentane | 0 | 0.402332 | 0 | 0 | 0 |
| n-Pentane | 0 | 0.523967 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0.00619589 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Flow | To RH2 Wastewater Tanks lb/h | To Tanks lb/h | To 5-LOAD lb/h | To 6-LOAD lb/h | To 7-LOAD lb/h |
|---|---|---|---|---|---|
| Cyclopentane | 0 | 0.041112 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0.167989 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0.0947213 | 0 | 0 | 0 |
| Hexane | 0 | 0.242184 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0.0237469 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0.111406 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0 | 0.000496923 | 0 | 0 | 0 |
| Benzene | 20.1803 | 0.057028 | 0.0413178 | 20.0035 | 19.8517 |
| Cyclohexane | 0 | 0.147564 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0.0509279 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0.0700952 | 0 | 0 | 0 |
| n-Heptane | 0 | 0.151119 | 0.0117459 | 0 | 0 |
| Methylcyclohexane | 0 | 0.169531 | 0.0184028 | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0.00191533 | 0.000661803 | 0 | 0 |
| Toluene | 27.1457 | 0.0701452 | 0.0500144 | 27.0674 | 27 |
| 2-Methylheptane | 0 | 0.0400765 | 0.0215379 | 0 | 0 |
| n-Octane | 0 | 0.13513 | 0.0914379 | 0 | 0 |
| Ethylcyclohexane | 0 | 0.0123613 | 0.00840263 | 0 | 0 |
| Ethylbenzene | 1.50655 | 0.00507155 | 0.00413499 | 1.50538 | 1.50436 |
| p-Xylene | 0 | 0.0281791 | 0.0225034 | 0 | 0 |
| o-Xylene | 0 | 0.00615591 | 0.00531267 | 0 | 0 |
| Nonane | 0 | 0.05655 | 0.0507287 | 0 | 0 |
| Isopropylbenzene | 0.12831 | 0.00156204 | 0.00138013 | 0.128248 | 0.128196 |
| Cyclooctane | 0 | 0.00320562 | 0.00270822 | 0 | 0 |
| n-Propylbenzene | 0.163332 | 0.000534571 | 0.000484272 | 0.163272 | 0.16322 |
| 1,3,5-Trimethylbenzene | 0.188448 | 0.00425573 | 0.00394434 | 0.18839 | 0.18834 |
| Isobutylbenzene | 0 | 0.000252515 | 0.000240348 | 0 | 0 |
| n-Butylbenzene | 0.0159666 | 0.00121604 | 0.00117842 | 0.0159645 | 0.0159627 |
| Decane | 0 | 0.0362054 | 0.0349485 | 0 | 0 |
| Water | 3750.69 | 5950.99 | 5950.82 | 3750.67 | 3750.65 |
| Lube Oil | 0 | 0.0536446 | 0.0536441 | 0 | 0 |

## Stream Properties

| Property | Units | To RH2 Wastewater Tanks | To Tanks | To 5-LOAD | To 6-LOAD | To 7-LOAD |
|---|---|---|---|---|---|---|
| Temperature | °F | 75 * | 95.3407 | 78.8795 | 78.8795 | 79.1737 |
| Pressure | psia | 14.6959 * | 14.6959 * | 12.76 | 12.76 | 12.76 |
| Molecular Weight | lb/lbmol | 18.2023 | 18.025 | 18.0164 | 18.2013 | 18.2005 |
| Mass Density | lb/ft^3 | 62.1279 | 51.2809 | 62.1932 | 62.0879 | 62.0853 |
| Mass Flow | lb/h | 3800.02 | 5955.45 | 5951.24 | 3799.74 | 3799.5 |
| Std Vapor Volumetric Flow | MMSCFD | 1.90136 | 3.00915 | 3.00847 | 1.90132 | 1.90129 |
| Std Liquid Volumetric Flow | sgpm | 7.61035 * | 11.911 | 11.8972 | 7.60972 | 7.60918 |
| Specific Gravity | | 0.996139 | | 0.997185 | 0.995497 | 0.995455 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 61.5893 | 51.0421 | 50.3765 | 61.5312 | 61.4813 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

## Connections

| | Unfiltered Unstable Cond Y | 2 | 5 | 5-T Flashing | 5-T Standing |
|---|---|---|---|---|---|
| From Block | -- | MIX-103 | Wastewater Tanks (5-T) | Wastewater Tanks (5-T) | Wastewater Tanks (5-T) |
| To Block | MIX-103 | VLVE-100 | -- | MIX-101 | MIX-101 |

## Stream Composition

| Mole Fraction | Unfiltered Unstable Cond Y % | 2 % | 5 % | 5-T Flashing % | 5-T Standing % |
|---|---|---|---|---|---|
| H2S | 0 * | 0 | 0 | 0 | 0 |
| Nitrogen | 0.013 * | 8.99127E-06 | 0 | 0.0612358 | 0.00699829 |
| Carbon Dioxide | 0.623 * | 9.66679E-05 | 0 | 0.176194 | 0.814374 |
| Methane | 3.103 * | 0.000483895 | 0 | 3.06989 | 0.722653 |
| Ethane | 7.492 * | 0.00169422 | 0 | 10.0575 | 3.58917 |
| Propane | 17.492 * | 0.00398412 | 0 | 24.4553 | 7.20754 |
| Isobutane | 5.512 * | 0.00117726 | 0 | 7.16526 | 2.22323 |
| n-Butane | 17.997 * | 0.00376805 | 0 | 21.4847 | 9.33736 |
| Isopentane | 8.319 * | 0.00168779 | 0 | 8.50169 | 5.90192 |
| n-Pentane | 10.905 * | 0.00219804 | 0 | 10.6327 | 8.35953 |
| 2,2-Dimethylbutane | 0.107 * | 2.17612E-05 | 0 | 0.08951 | 0.106915 |
| Cyclopentane | 0.886 * | 0.000177422 | 0 | 0.582941 | 1.0968 |
| 2-Methylpentane | 2.932 * | 0.000590011 | 0 | 2.02659 | 3.51242 |
| 3-Methylpentane | 1.659 * | 0.000332679 | 0 | 1.05967 | 2.10776 |
| Hexane | 4.246 * | 0.000850595 | 0 | 2.3537 | 5.93433 |
| 2,2-Dimethylpentane | 0.365 * | 7.17286E-05 | 0 | 0.161929 | 0.556461 |
| Methylcyclopentane | 2.016 * | 0.000400651 | 0 | 1.0431 | 2.8957 |
| 2,2,3-Trimethylbutane | 0.008 * | 1.50098E-06 | 0 | 0.00326024 | 0.011841 |
| Benzene | 1.131 * | 0.00022097 | 1.06586 | 0.0739476 | 0.569546 |
| Cyclohexane | 2.681 * | 0.000530686 | 0 | 1.0728 | 4.30896 |
| 2-Methylhexane | 0.777 * | 0.00015383 | 0 | 0.249026 | 1.344 |
| 3-Methylhexane | 0 * | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 1.097 * | 0.000216073 | 0 | 0.370721 | 1.85572 |
| n-Heptane | 2.328 * | 0.00045646 | 6.13855 | 0.537735 | 3.89846 |
| Methylcyclohexane | 2.667 * | 0.000522589 | 7.90158 | 0.591753 | 4.31914 |
| 2,5-Dimethylhexane | 0.026 * | 5.07494E-06 | 0.19927 | 0.00427835 | 0.0307026 |
| Toluene | 1.19 * | 0.000230419 | 1.39129 | 0.081119 | 0.617499 |
| 2-Methylheptane | 0.553 * | 0.000106188 | 4.38524 | 0.0638163 | 0.453233 |
| n-Octane | 1.873 * | 0.000358047 | 12.5763 | 0.151803 | 1.06605 |
| Ethylcyclohexane | 0.174 * | 3.33415E-05 | 0.996847 | 0.0139017 | 0.0984757 |
| Ethylbenzene | 0.07 * | 1.44584E-05 | 0.0935222 | 0.00342348 | 0.0247055 |
| p-Xylene | 0.405 * | 8.03354E-05 | 0.671625 | 0.0206603 | 0.149851 |
| o-Xylene | 0.092 * | 1.75498E-05 | 0.0832043 | 0.00307586 | 0.0222541 |
| Nonane | 0.704 * | 0.00013345 | 1.88341 | 0.0185167 | 0.125727 |
| Isopropylbenzene | 0.021 * | 3.9335E-06 | 0.0276006 | 0.000604356 | 0.00421256 |
| Cyclooctane | 0.045 * | 8.64631E-06 | 0.181403 | 0.00177614 | 0.0123281 |
| n-Propylbenzene | 0.007 * | 1.34615E-06 | 0.00807359 | 0.000167701 | 0.00116388 |
| 1,3,5-Trimethylbenzene | 0.056 * | 1.07167E-05 | 0.0568332 | 0.00104558 | 0.00719414 |
| Isobutylbenzene | 0.003 * | 5.69425E-07 | 0.00148564 | 3.66382E-05 | 0.000251623 |
| n-Butylbenzene | 0.015 * | 2.74218E-06 | 0.00888638 | 0.00011641 | 0.000773263 |
| Decane | 0.41 * | 7.70169E-05 | 0.355387 | 0.00368942 | 0.0243392 |
| Water | 0 * | 99.9792 | 61.9735 | 3.81079 | 26.6804 |
| Lube Oil | 0 * | 7.3412E-05 | 8.82674E-05 | 1.21522E-06 | 6.45529E-06 |

| Mass Fraction | Unfiltered Unstable Cond Y % | 2 % | 5 % | 5-T Flashing % | 5-T Standing % |
|---|---|---|---|---|---|
| H2S | 0 * | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Fraction | Unfiltered Unstable Cond Y % | | 2 % | 5 % | 5-T Flashing % | 5-T Standing % |
|---|---|---|---|---|---|---|
| Nitrogen | 0.00560458 | * | 1.39737E-05 | 0 | 0.0312726 | 0.00334286 |
| Carbon Dioxide | 0.421958 | * | 0.000236022 | 0 | 0.141361 | 0.611125 |
| Methane | 0.766103 | * | 0.000430672 | 0 | 0.897815 | 0.197679 |
| Ethane | 3.46698 | * | 0.00282627 | 0 | 5.51319 | 1.84023 |
| Propane | 11.8705 | * | 0.00974657 | 0 | 19.659 | 5.41928 |
| Isobutane | 4.93044 | * | 0.0037961 | 0 | 7.59219 | 2.20336 |
| n-Butane | 16.0982 | * | 0.0121502 | 0 | 22.7648 | 9.25392 |
| Isopentane | 9.23707 | * | 0.0067557 | 0 | 11.1822 | 7.26075 |
| n-Pentane | 12.1085 | * | 0.00879811 | 0 | 13.9851 | 10.2842 |
| 2,2-Dimethylbutane | 0.141906 | * | 0.000104037 | 0 | 0.14062 | 0.157101 |
| Cyclopentane | 0.95629 | * | 0.000690326 | 0 | 0.745314 | 1.31163 |
| 2-Methylpentane | 3.88849 | * | 0.00282077 | 0 | 3.18377 | 5.16118 |
| 3-Methylpentane | 2.20021 | * | 0.0015905 | 0 | 1.66474 | 3.09716 |
| Hexane | 5.63115 | * | 0.00406659 | 0 | 3.69767 | 8.71996 |
| 2,2-Dimethylpentane | 0.562864 | * | 0.000398743 | 0 | 0.295797 | 0.950758 |
| Methylcyclopentane | 2.61113 | * | 0.00187065 | 0 | 1.60037 | 4.15542 |
| 2,2,3-Trimethylbutane | 0.0123367 | * | 8.344E-06 | 0 | 0.00595551 | 0.0202312 |
| Benzene | 1.35961 | * | 0.000957577 | 1.59922 | 0.105301 | 0.758587 |
| Cyclohexane | 3.47243 | * | 0.00247779 | 0 | 1.64595 | 6.18351 |
| 2-Methylhexane | 1.19821 | * | 0.000855148 | 0 | 0.454897 | 2.29633 |
| 3-Methylhexane | 0 | * | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 1.65764 | * | 0.00117699 | 0 | 0.663574 | 3.10686 |
| n-Heptane | 3.58999 | * | 0.00253748 | 11.8151 | 0.982285 | 6.66083 |
| Methylcyclohexane | 4.03002 | * | 0.00284665 | 14.9024 | 1.05921 | 7.23114 |
| 2,5-Dimethylhexane | 0.0457069 | * | 3.2161E-05 | 0.437231 | 0.0089093 | 0.0598011 |
| Toluene | 1.68742 | * | 0.00117783 | 2.46236 | 0.136256 | 0.970145 |
| 2-Methylheptane | 0.972151 | * | 0.000672939 | 9.62192 | 0.132892 | 0.882787 |
| n-Octane | 3.29266 | * | 0.00226902 | 27.5944 | 0.316117 | 2.07641 |
| Ethylcyclohexane | 0.300487 | * | 0.000207563 | 2.14864 | 0.0284383 | 0.188421 |
| Ethylbenzene | 0.11437 | * | 8.51581E-05 | 0.190717 | 0.00662586 | 0.0447235 |
| p-Xylene | 0.661714 | * | 0.000473165 | 1.36963 | 0.0399863 | 0.271269 |
| o-Xylene | 0.150315 | * | 0.000103366 | 0.169676 | 0.00595307 | 0.0402858 |
| Nonane | 1.38957 | * | 0.00094955 | 4.63996 | 0.0432943 | 0.274957 |
| Isopropylbenzene | 0.0388443 | * | 2.62288E-05 | 0.0637214 | 0.00132422 | 0.00863336 |
| Cyclooctane | 0.0777121 | * | 5.38266E-05 | 0.391003 | 0.00363338 | 0.0235883 |
| n-Propylbenzene | 0.0129481 | * | 8.97617E-06 | 0.0186395 | 0.000367453 | 0.0023853 |
| 1,3,5-Trimethylbenzene | 0.103585 | * | 7.14595E-05 | 0.131211 | 0.00229098 | 0.0147439 |
| Isobutylbenzene | 0.00619679 | * | 4.24006E-06 | 0.00383018 | 8.96476E-05 | 0.000575865 |
| n-Butylbenzene | 0.0309839 | * | 2.04189E-05 | 0.0229102 | 0.000284835 | 0.00176969 |
| Decane | 0.897774 | * | 0.000607938 | 0.971279 | 0.00956973 | 0.0590493 |
| Water | 0 | * | 99.9252 | 21.4457 | 1.25155 | 8.19583 |
| Lube Oil | 0 | * | 0.000900765 | 0.000374986 | 4.89967E-06 | 2.43442E-05 |

| Mass Flow | Unfiltered Unstable Cond Y lb/h | | 2 lb/h | 5 lb/h | 5-T Flashing lb/h | 5-T Standing lb/h |
|---|---|---|---|---|---|---|
| H2S | 0 | * | 0 | 0 | 0 | 0 |
| Nitrogen | 0.000186294 | * | 0.000832196 | 0 | 0.000774457 | 1.29062E-05 |
| Carbon Dioxide | 0.0140257 | * | 0.0140562 | 0 | 0.00350077 | 0.00235945 |
| Methane | 0.0254649 | * | 0.0256485 | 0 | 0.0222341 | 0.000763203 |
| Ethane | 0.115241 | * | 0.168317 | 0 | 0.136533 | 0.00710482 |
| Propane | 0.39457 | * | 0.580452 | 0 | 0.486849 | 0.0209229 |
| Isobutane | 0.163885 | * | 0.226075 | 0 | 0.188018 | 0.00850678 |
| n-Butane | 0.535096 | * | 0.723599 | 0 | 0.563764 | 0.0357277 |
| Isopentane | 0.307036 | * | 0.402332 | 0 | 0.276924 | 0.0280325 |
| n-Pentane | 0.40248 | * | 0.523967 | 0 | 0.346337 | 0.0397055 |
| 2,2-Dimethylbutane | 0.00471689 | * | 0.00619589 | 0 | 0.00348242 | 0.000606541 |
| Cyclopentane | 0.0317866 | * | 0.041112 | 0 | 0.0184575 | 0.00506395 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Flow | Unfiltered Unstable Cond Y lb/h | | 2 lb/h | 5 lb/h | 5-T Flashing lb/h | 5-T Standing lb/h |
|---|---|---|---|---|---|---|
| 2-Methylpentane | 0.129252 | * | 0.167989 | 0 | 0.078845 | 0.0199264 |
| 3-Methylpentane | 0.0731339 | * | 0.0947213 | 0 | 0.0412267 | 0.0119576 |
| Hexane | 0.187177 | * | 0.242184 | 0 | 0.0915716 | 0.0336662 |
| 2,2-Dimethylpentane | 0.0187093 | * | 0.0237469 | 0 | 0.00732532 | 0.00367071 |
| Methylcyclopentane | 0.0867926 | * | 0.111406 | 0 | 0.0396328 | 0.0160434 |
| 2,2,3-Trimethylbutane | 0.000410067 | * | 0.000496923 | 0 | 0.000147486 | 7.81092E-05 |
| Benzene | 0.0451927 | * | 0.057028 | 0.00769174 | 0.00260776 | 0.00292877 |
| Cyclohexane | 0.115422 | * | 0.147564 | 0 | 0.0407615 | 0.0238734 |
| 2-Methylhexane | 0.0398278 | * | 0.0509279 | 0 | 0.0112654 | 0.00886573 |
| 3-Methylhexane | 0 | * | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0.0550992 | * | 0.0700952 | 0 | 0.0164332 | 0.011995 |
| n-Heptane | 0.11933 | * | 0.151119 | 0.0568266 | 0.024326 | 0.0257163 |
| Methylcyclohexane | 0.133956 | * | 0.169531 | 0.0716759 | 0.0262311 | 0.0279182 |
| 2,5-Dimethylhexane | 0.00151928 | * | 0.00191533 | 0.00210294 | 0.000220636 | 0.000230881 |
| Toluene | 0.0560889 | * | 0.0701452 | 0.0118431 | 0.00337435 | 0.00374556 |
| 2-Methylheptane | 0.0323139 | * | 0.0400765 | 0.0462783 | 0.00329103 | 0.00340828 |
| n-Octane | 0.109446 | * | 0.13513 | 0.13272 | 0.00782855 | 0.00801666 |
| Ethylcyclohexane | 0.00998804 | * | 0.0123613 | 0.0103343 | 0.000704266 | 0.000727462 |
| Ethylbenzene | 0.00380162 | * | 0.00507155 | 0.000917287 | 0.000164088 | 0.000172669 |
| p-Xylene | 0.0219951 | * | 0.0281791 | 0.00658745 | 0.000990249 | 0.00104732 |
| o-Xylene | 0.00499641 | * | 0.00615591 | 0.000816087 | 0.000147426 | 0.000155536 |
| Nonane | 0.0461888 | * | 0.05655 | 0.0223167 | 0.00107217 | 0.00106156 |
| Isopropylbenzene | 0.00129117 | * | 0.00156204 | 0.000306479 | 3.27939E-05 | 3.33319E-05 |
| Cyclooctane | 0.00258311 | * | 0.00320562 | 0.0018806 | 8.99796E-05 | 9.10704E-05 |
| n-Propylbenzene | 0.000430389 | * | 0.000534571 | 8.965E-05 | 9.09987E-06 | 9.20924E-06 |
| 1,3,5-Trimethylbenzene | 0.00344311 | * | 0.00425573 | 0.000631082 | 5.67356E-05 | 5.69236E-05 |
| Isobutylbenzene | 0.000205978 | * | 0.000252515 | 1.84219E-05 | 2.2201E-06 | 2.22331E-06 |
| n-Butylbenzene | 0.00102989 | * | 0.00121604 | 0.000110191 | 7.05384E-06 | 6.83247E-06 |
| Decane | 0.0298416 | * | 0.0362054 | 0.00467154 | 0.000236991 | 0.000227979 |
| Water | 0 | * | 5950.99 | 0.103147 | 0.0309943 | 0.0316427 |
| Lube Oil | 0 | * | 0.0536446 | 1.80356E-06 | 1.21339E-07 | 9.39887E-08 |

## Stream Properties

| Property | Units | Unfiltered Unstable Cond Y | | 2 | 5 | 5-T Flashing | 5-T Standing |
|---|---|---|---|---|---|---|---|
| Temperature | °F | 61 | * | 94.9943 | 78.8795 | 78.8795 | 78.8795 |
| Pressure | psia | 199.696 | * | 164.696 | 12.76 | 12.76 | 12.76 |
| Molecular Weight | lb/lbmol | 64.9779 | | 18.025 | 52.0602 | 54.8538 | 58.6463 |
| Mass Density | lb/ft^3 | 39.2709 | | 61.9972 | 47.9129 | 0.123699 | 0.446979 |
| Mass Flow | lb/h | 3.32395 | | 5955.45 | 0.480967 | 2.47647 | 0.386082 |
| Std Vapor Volumetric Flow | MMSCFD | 0.000465901 | | 3.00915 | 8.41423E-05 | 0.000411179 | 5.99576E-05 |
| Std Liquid Volumetric Flow | sgpm | 0.0108487 | * | 11.911 | 0.00124108 | 0.00868448 | 0.00115351 |
| Specific Gravity | | 0.629657 | | 0.994042 | 0.768219 | 1.89396 | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 3574.45 | | 51.0421 | 2232.58 | 3032.6 | 2946.75 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

## Connections

| | 5-T Working | 6 | 6-T Flashing | 6-T Standing | 6-T Total |
|---|---|---|---|---|---|
| From Block | Wastewater Tanks (5-T) | Wastewater Tank 6-T | Wastewater Tank 6-T | Wastewater Tank 6-T | MIX-100 |
| To Block | MIX-101 | -- | MIX-100 | MIX-100 | -- |

## Stream Composition

| Mole Fraction | 5-T Working % | 6 % | 6-T Flashing % | 6-T Standing % | 6-T Total % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0.00699829 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0.814374 | 0 | 0 | 0 | 0 |
| Methane | 0.722653 | 0 | 0 | 0 | 0 |
| Ethane | 3.58917 | 0 | 0 | 0 | 0 |
| Propane | 7.20754 | 0 | 0 | 0 | 0 |
| Isobutane | 2.22323 | 0 | 0 | 0 | 0 |
| n-Butane | 9.33736 | 0 | 0 | 0 | 0 |
| Isopentane | 5.90192 | 0 | 0 | 0 | 0 |
| n-Pentane | 8.35953 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0.106915 | 0 | 0 | 0 | 0 |
| Cyclopentane | 1.0968 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 3.51242 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 2.10776 | 0 | 0 | 0 | 0 |
| Hexane | 5.93433 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0.556461 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 2.8957 | 0 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0.011841 | 0 | 0 | 0 | 0 |
| Benzene | 0.569546 | 51.8358 | 50.2314 | 51.596 | 51.596 |
| Cyclohexane | 4.30896 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 1.344 | 0 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 1.85572 | 0 | 0 | 0 | 0 |
| n-Heptane | 3.89846 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 4.31914 | 0 | 0 | 0 | 0 |
| 2,5-Dimethylhexane | 0.0307026 | 0 | 0 | 0 | 0 |
| Toluene | 0.617499 | 19.4183 | 19.4603 | 19.3666 | 19.3666 |
| 2-Methylheptane | 0.453233 | 0 | 0 | 0 | 0 |
| n-Octane | 1.06605 | 0 | 0 | 0 | 0 |
| Ethylcyclohexane | 0.0984757 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.0247055 | 0.25068 | 0.262296 | 0.251551 | 0.251551 |
| p-Xylene | 0.149851 | 0 | 0 | 0 | 0 |
| o-Xylene | 0.0222541 | 0 | 0 | 0 | 0 |
| Nonane | 0.125727 | 0 | 0 | 0 | 0 |
| Isopropylbenzene | 0.00421256 | 0.0115106 | 0.0122645 | 0.0116031 | 0.0116031 |
| Cyclooctane | 0.0123281 | 0 | 0 | 0 | 0 |
| n-Propylbenzene | 0.00116388 | 0.0112908 | 0.0120731 | 0.0113889 | 0.0113889 |
| 1,3,5-Trimethylbenzene | 0.00719414 | 0.0108893 | 0.0117087 | 0.0110004 | 0.0110004 |
| Isobutylbenzene | 0.000251623 | 0 | 0 | 0 | 0 |
| n-Butylbenzene | 0.000773263 | 0.000353264 | 0.000390459 | 0.000358957 | 0.000358957 |
| Decane | 0.0243392 | 0 | 0 | 0 | 0 |
| Water | 26.6804 | 28.4611 | 30.0096 | 28.7514 | 28.7514 |
| Lube Oil | 6.45529E-06 | 0 | 0 | 0 | 0 |

| Mass Fraction | 5-T Working % | 6 % | 6-T Flashing % | 6-T Standing % | 6-T Total % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0.00334286 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0.611125 | 0 | 0 | 0 | 0 |
| Methane | 0.197679 | 0 | 0 | 0 | 0 |
| Ethane | 1.84023 | 0 | 0 | 0 | 0 |
| Propane | 5.41928 | 0 | 0 | 0 | 0 |
| Isobutane | 2.20336 | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Fraction | 5-T Working % | 6 % | 6-T Flashing % | 6-T Standing % | 6-T Total % |
|---|---|---|---|---|---|
| n-Butane | 9.25392 | 0 | 0 | 0 | 0 |
| Isopentane | 7.26075 | 0 | 0 | 0 | 0 |
| n-Pentane | 10.2842 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0.157101 | 0 | 0 | 0 | 0 |
| Cyclopentane | 1.31163 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 5.16118 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 3.09716 | 0 | 0 | 0 | 0 |
| Hexane | 8.71996 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0.950758 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 4.15542 | 0 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0.0202312 | 0 | 0 | 0 | 0 |
| Benzene | 0.758587 | 63.4478 | 62.3837 | 63.3343 | 63.3343 |
| Cyclohexane | 6.18351 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 2.29633 | 0 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 3.10686 | 0 | 0 | 0 | 0 |
| n-Heptane | 6.66083 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 7.23114 | 0 | 0 | 0 | 0 |
| 2,5-Dimethylhexane | 0.0598011 | 0 | 0 | 0 | 0 |
| Toluene | 0.970145 | 28.0364 | 28.5081 | 28.0414 | 28.0414 |
| 2-Methylheptane | 0.882787 | 0 | 0 | 0 | 0 |
| n-Octane | 2.07641 | 0 | 0 | 0 | 0 |
| Ethylcyclohexane | 0.188421 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.0447235 | 0.417033 | 0.442743 | 0.419674 | 0.419674 |
| p-Xylene | 0.271269 | 0 | 0 | 0 | 0 |
| o-Xylene | 0.0402858 | 0 | 0 | 0 | 0 |
| Nonane | 0.274957 | 0 | 0 | 0 | 0 |
| Isopropylbenzene | 0.00863336 | 0.0216791 | 0.023437 | 0.0219157 | 0.0219157 |
| Cyclooctane | 0.0235883 | 0 | 0 | 0 | 0 |
| n-Propylbenzene | 0.0023853 | 0.0212652 | 0.0230714 | 0.021511 | 0.021511 |
| 1,3,5-Trimethylbenzene | 0.0147439 | 0.020509 | 0.0223749 | 0.0207772 | 0.0207772 |
| Isobutylbenzene | 0.000575865 | 0 | 0 | 0 | 0 |
| n-Butylbenzene | 0.00176969 | 0.000742985 | 0.000833231 | 0.000757111 | 0.000757111 |
| Decane | 0.0590493 | 0 | 0 | 0 | 0 |
| Water | 8.19583 | 8.03458 | 8.59568 | 8.13965 | 8.13965 |
| Lube Oil | 2.43442E-05 | 0 | 0 | 0 | 0 |

| Mass Flow | 5-T Working lb/h | 6 lb/h | 6-T Flashing lb/h | 6-T Standing lb/h | 6-T Total lb/h |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 4.4832E-05 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0.00819597 | 0 | 0 | 0 | 0 |
| Methane | 0.00265113 | 0 | 0 | 0 | 0 |
| Ethane | 0.0246799 | 0 | 0 | 0 | 0 |
| Propane | 0.0726795 | 0 | 0 | 0 | 0 |
| Isobutane | 0.0295499 | 0 | 0 | 0 | 0 |
| n-Butane | 0.124107 | 0 | 0 | 0 | 0 |
| Isopentane | 0.097376 | 0 | 0 | 0 | 0 |
| n-Pentane | 0.137924 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0.00210693 | 0 | 0 | 0 | 0 |
| Cyclopentane | 0.0175906 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0.069218 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0.0415369 | 0 | 0 | 0 | 0 |
| Hexane | 0.116946 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0.0127509 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0.0557296 | 0 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0.000271327 | 0 | 0 | 0 | 0 |
| Benzene | 0.0101736 | 0.312362 | 0 | 0.0295145 | 0.176811 |
| Cyclohexane | 0.0829288 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0.0307968 | 0 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Flow | 5-T Working lb/h | 6 lb/h | 6-T Flashing lb/h | 6-T Standing lb/h | 6-T Total lb/h |
|---|---|---|---|---|---|
| 1,1-Dimethylcyclopentane | 0.041667 | 0 | 0 | 0 | 0 |
| n-Heptane | 0.0893303 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0.0969789 | 0 | 0 | 0 | 0 |
| 2,5-Dimethylhexane | 0.000802009 | 0 | 0 | 0 | 0 |
| Toluene | 0.0130109 | 0.138027 | 0 | 0.0130677 | 0.0782837 |
| 2-Methylheptane | 0.0118393 | 0 | 0 | 0 | 0 |
| n-Octane | 0.0278474 | 0 | 0 | 0 | 0 |
| Ethylcyclohexane | 0.00252697 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.000599799 | 0.00205311 | 0 | 0.000195573 | 0.00117161 |
| p-Xylene | 0.00363807 | 0 | 0 | 0 | 0 |
| o-Xylene | 0.000540284 | 0 | 0 | 0 | 0 |
| Nonane | 0.00368752 | 0 | 0 | 0 | 0 |
| Isopropylbenzene | 0.000115784 | 0.000106729 | 0 | 1.0213E-05 | 6.11823E-05 |
| Cyclooctane | 0.00031635 | 0 | 0 | 0 | 0 |
| n-Propylbenzene | 3.199E-05 | 0.000104691 | 0 | 1.00244E-05 | 6.00527E-05 |
| 1,3,5-Trimethylbenzene | 0.000197735 | 0.000100969 | 0 | 9.68244E-06 | 5.80041E-05 |
| Isobutylbenzene | 7.72309E-06 | 0 | 0 | 0 | 0 |
| n-Butylbenzene | 2.37338E-05 | 3.65782E-06 | 0 | 3.52823E-07 | 2.11364E-06 |
| Decane | 0.000791927 | 0 | 0 | 0 | 0 |
| Water | 0.109917 | 0.0395553 | 0 | 0.00379318 | 0.0227236 |
| Lube Oil | 3.26487E-07 | 0 | 0 | 0 | 0 |

## Stream Properties

| Property | Units | 5-T Working | 6 | 6-T Flashing | 6-T Standing | 6-T Total |
|---|---|---|---|---|---|---|
| Temperature | °F | 78.8795 | 78.8795 | 78.8795 | 78.8795 | 78.8795 |
| Pressure | psia | 12.76 | 12.76 | 12.76 | 12.76 | 12.76 |
| Molecular Weight | lb/lbmol | 58.6463 | 63.8161 | 62.8957 | 63.6348 | 63.6348 |
| Mass Density | lb/ft^3 | 0.446979 | 54.7606 | | 54.768 | 54.768 |
| Mass Flow | lb/h | 1.34113 | 0.492314 | 0 | 0.0466012 | 0.279171 |
| Std Vapor Volumetric Flow | MMSCFD | 0.000208274 | 7.02613E-05 | 0 | 6.66972E-06 | 3.99559E-05 |
| Std Liquid Volumetric Flow | sgpm | 0.00400693 | 0.001107 | 0 | 0.000104774 | 0.000627661 |
| Specific Gravity | | | 0.878013 | | 0.878132 | 0.878132 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 2946.75 | 2837.92 | 2781.3 | 2826.85 | 2826.85 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

## Connections

| | 6-T Working | 7 | 7-T Flashing | 7-T Standing | 7-T Total |
|---|---|---|---|---|---|
| From Block | Wastewater Tank 6-T | Wastewater Tanks 7-T | Wastewater Tanks 7-T | Wastewater Tanks 7-T | MIX-102 |
| To Block | MIX-100 | -- | MIX-102 | MIX-102 | -- |

## Stream Composition

| Mole Fraction | 6-T Working % | 7 % | 7-T Flashing % | 7-T Standing % | 7-T Total % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0 | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 | 0 |
| n-Butane | 0 | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 | 0 | 0 |
| Cyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0 | 0 | 0 | 0 | 0 |
| Benzene | 51.596 | 51.7288 | 50.1854 | 51.5441 | 51.5441 |
| Cyclohexane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 | 0 | 0 |
| Toluene | 19.3666 | 19.4869 | 19.4632 | 19.3705 | 19.3705 |
| 2-Methylheptane | 0 | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 | 0 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.251551 | 0.252384 | 0.262662 | 0.251957 | 0.251957 |
| p-Xylene | 0 | 0 | 0 | 0 | 0 |
| o-Xylene | 0 | 0 | 0 | 0 | 0 |
| Nonane | 0 | 0 | 0 | 0 | 0 |
| Isopropylbenzene | 0.0116031 | 0.0115801 | 0.0122871 | 0.011628 | 0.011628 |
| Cyclooctane | 0 | 0 | 0 | 0 | 0 |
| n-Propylbenzene | 0.0113889 | 0.0113602 | 0.0120967 | 0.0114145 | 0.0114145 |
| 1,3,5-Trimethylbenzene | 0.0110004 | 0.0109523 | 0.0117331 | 0.0110268 | 0.0110268 |
| Isobutylbenzene | 0 | 0 | 0 | 0 | 0 |
| n-Butylbenzene | 0.000358957 | 0.000355308 | 0.000391557 | 0.00036012 | 0.00036012 |
| Decane | 0 | 0 | 0 | 0 | 0 |
| Water | 28.7514 | 28.4976 | 30.0522 | 28.7991 | 28.7991 |
| Lube Oil | 0 | 0 | 0 | 0 | 0 |

| Mass Fraction | 6-T Working % | 7 % | 7-T Flashing % | 7-T Standing % | 7-T Total % |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0 | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Fraction | 6-T Working % | 7 % | 7-T Flashing % | 7-T Standing % | 7-T Total % |
|---|---|---|---|---|---|
| n-Butane | 0 | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 | 0 | 0 |
| Cyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0 | 0 | 0 | 0 | 0 |
| Benzene | 63.3343 | 63.3285 | 62.3515 | 63.2983 | 63.2983 |
| Cyclohexane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 | 0 | 0 |
| Toluene | 28.0414 | 28.1406 | 28.5238 | 28.0593 | 28.0593 |
| 2-Methylheptane | 0 | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 | 0 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.419674 | 0.419945 | 0.443538 | 0.420536 | 0.420536 |
| p-Xylene | 0 | 0 | 0 | 0 | 0 |
| o-Xylene | 0 | 0 | 0 | 0 | 0 |
| Nonane | 0 | 0 | 0 | 0 | 0 |
| Isopropylbenzene | 0.0219157 | 0.0218141 | 0.0234897 | 0.0219722 | 0.0219722 |
| Cyclooctane | 0 | 0 | 0 | 0 | 0 |
| n-Propylbenzene | 0.021511 | 0.0213998 | 0.0231255 | 0.0215689 | 0.0215689 |
| 1,3,5-Trimethylbenzene | 0.0207772 | 0.0206314 | 0.0224305 | 0.0208363 | 0.0208363 |
| Isobutylbenzene | 0 | 0 | 0 | 0 | 0 |
| n-Butylbenzene | 0.000757111 | 0.000747422 | 0.000835908 | 0.000759898 | 0.000759898 |
| Decane | 0 | 0 | 0 | 0 | 0 |
| Water | 8.13965 | 8.04636 | 8.61133 | 8.15673 | 8.15673 |
| Lube Oil | 0 | 0 | 0 | 0 | 0 |

| Mass Flow | 6-T Working lb/h | 7 lb/h | 7-T Flashing lb/h | 7-T Standing lb/h | 7-T Total lb/h |
|---|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 | 0 |
| Nitrogen | 0 | 0 | 0 | 0 | 0 |
| Carbon Dioxide | 0 | 0 | 0 | 0 | 0 |
| Methane | 0 | 0 | 0 | 0 | 0 |
| Ethane | 0 | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 | 0 |
| n-Butane | 0 | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 | 0 | 0 |
| Cyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0 | 0 | 0 | 0 | 0 |
| Benzene | 0.147297 | 0.311334 | 0 | 0.0865183 | 0.328577 |
| Cyclohexane | 0 | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Flow | 6-T Working lb/h | 7 lb/h | 7-T Flashing lb/h | 7-T Standing lb/h | 7-T Total lb/h |
|---|---|---|---|---|---|
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 | 0 | 0 |
| Toluene | 0.065216 | 0.138344 | 0 | 0.0383525 | 0.145654 |
| 2-Methylheptane | 0 | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 | 0 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0.000976037 | 0.00206453 | 0 | 0.000574804 | 0.00218297 |
| p-Xylene | 0 | 0 | 0 | 0 | 0 |
| o-Xylene | 0 | 0 | 0 | 0 | 0 |
| Nonane | 0 | 0 | 0 | 0 | 0 |
| Isopropylbenzene | 5.09694E-05 | 0.000107242 | 0 | 3.00324E-05 | 0.000114056 |
| Cyclooctane | 0 | 0 | 0 | 0 | 0 |
| n-Propylbenzene | 5.00283E-05 | 0.000105205 | 0 | 2.94811E-05 | 0.000111963 |
| 1,3,5-Trimethylbenzene | 4.83216E-05 | 0.000101428 | 0 | 2.84798E-05 | 0.00010816 |
| Isobutylbenzene | 0 | 0 | 0 | 0 | 0 |
| n-Butylbenzene | 1.76081E-06 | 3.67446E-06 | 0 | 1.03866E-06 | 3.94458E-06 |
| Decane | 0 | 0 | 0 | 0 | 0 |
| Water | 0.0189304 | 0.0395574 | 0 | 0.0111489 | 0.042341 |
| Lube Oil | 0 | 0 | 0 | 0 | 0 |

## Stream Properties

| Property | Units | 6-T Working | 7 | 7-T Flashing | 7-T Standing | 7-T Total |
|---|---|---|---|---|---|---|
| Temperature | °F | 78.8795 | 79.1737 | 79.1737 | 79.1737 | 79.1737 |
| Pressure | psia | 12.76 | 12.76 | 12.76 | 12.76 | 12.76 |
| Molecular Weight | lb/lbmol | 63.6348 | 63.8044 | 62.8706 | 63.6068 | 63.6068 |
| Mass Density | lb/ft^3 | 54.768 | 54.7517 | | 54.7597 | 54.7597 |
| Mass Flow | lb/h | 0.23257 | 0.491618 | 0 | 0.136684 | 0.519093 |
| Std Vapor Volumetric Flow | MMSCFD | 3.32862E-05 | 7.0175E-05 | 0 | 1.95712E-05 | 7.4327E-05 |
| Std Liquid Volumetric Flow | sgpm | 0.000522888 | 0.00110544 | 0 | 0.000307301 | 0.00116706 |
| Specific Gravity | | 0.878132 | 0.877871 | | 0.878 | 0.878 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 2826.85 | 2837.11 | 2779.75 | 2825.13 | 2825.13 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

## Connections

| | 7-T Working | | | | |
|---|---|---|---|---|---|
| From Block | Wastewater Tanks 7-T | | | | |
| To Block | MIX-102 | | | | |

## Stream Composition

| Mole Fraction | 7-T Working % | | | | |
|---|---|---|---|---|---|
| H2S | 0 | | | | |
| Nitrogen | 0 | | | | |
| Carbon Dioxide | 0 | | | | |
| Methane | 0 | | | | |
| Ethane | 0 | | | | |
| Propane | 0 | | | | |
| Isobutane | 0 | | | | |
| n-Butane | 0 | | | | |
| Isopentane | 0 | | | | |
| n-Pentane | 0 | | | | |
| 2,2-Dimethylbutane | 0 | | | | |
| Cyclopentane | 0 | | | | |
| 2-Methylpentane | 0 | | | | |
| 3-Methylpentane | 0 | | | | |
| Hexane | 0 | | | | |
| 2,2-Dimethylpentane | 0 | | | | |
| Methylcyclopentane | 0 | | | | |
| 2,2,3-Trimethylbutane | 0 | | | | |
| Benzene | 51.5441 | | | | |
| Cyclohexane | 0 | | | | |
| 2-Methylhexane | 0 | | | | |
| 3-Methylhexane | 0 | | | | |
| 1,1-Dimethylcyclopentane | 0 | | | | |
| n-Heptane | 0 | | | | |
| Methylcyclohexane | 0 | | | | |
| 2,5-Dimethylhexane | 0 | | | | |
| Toluene | 19.3705 | | | | |
| 2-Methylheptane | 0 | | | | |
| n-Octane | 0 | | | | |
| Ethylcyclohexane | 0 | | | | |
| Ethylbenzene | 0.251957 | | | | |
| p-Xylene | 0 | | | | |
| o-Xylene | 0 | | | | |
| Nonane | 0 | | | | |
| Isopropylbenzene | 0.011628 | | | | |
| Cyclooctane | 0 | | | | |
| n-Propylbenzene | 0.0114145 | | | | |
| 1,3,5-Trimethylbenzene | 0.0110268 | | | | |
| Isobutylbenzene | 0 | | | | |
| n-Butylbenzene | 0.00036012 | | | | |
| Decane | 0 | | | | |
| Water | 28.7991 | | | | |
| Lube Oil | 0 | | | | |

| Mass Fraction | 7-T Working % | | | | |
|---|---|---|---|---|---|
| H2S | 0 | | | | |
| Nitrogen | 0 | | | | |
| Carbon Dioxide | 0 | | | | |
| Methane | 0 | | | | |
| Ethane | 0 | | | | |
| Propane | 0 | | | | |
| Isobutane | 0 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Fraction | 7-T Working % | | | | |
|---|---|---|---|---|---|
| n-Butane | 0 | | | | |
| Isopentane | 0 | | | | |
| n-Pentane | 0 | | | | |
| 2,2-Dimethylbutane | 0 | | | | |
| Cyclopentane | 0 | | | | |
| 2-Methylpentane | 0 | | | | |
| 3-Methylpentane | 0 | | | | |
| Hexane | 0 | | | | |
| 2,2-Dimethylpentane | 0 | | | | |
| Methylcyclopentane | 0 | | | | |
| 2,2,3-Trimethylbutane | 0 | | | | |
| Benzene | 63.2983 | | | | |
| Cyclohexane | 0 | | | | |
| 2-Methylhexane | 0 | | | | |
| 3-Methylhexane | 0 | | | | |
| 1,1-Dimethylcyclopentane | 0 | | | | |
| n-Heptane | 0 | | | | |
| Methylcyclohexane | 0 | | | | |
| 2,5-Dimethylhexane | 0 | | | | |
| Toluene | 28.0593 | | | | |
| 2-Methylheptane | 0 | | | | |
| n-Octane | 0 | | | | |
| Ethylcyclohexane | 0 | | | | |
| Ethylbenzene | 0.420536 | | | | |
| p-Xylene | 0 | | | | |
| o-Xylene | 0 | | | | |
| Nonane | 0 | | | | |
| Isopropylbenzene | 0.0219722 | | | | |
| Cyclooctane | 0 | | | | |
| n-Propylbenzene | 0.0215689 | | | | |
| 1,3,5-Trimethylbenzene | 0.0208363 | | | | |
| Isobutylbenzene | 0 | | | | |
| n-Butylbenzene | 0.000759898 | | | | |
| Decane | 0 | | | | |
| Water | 8.15673 | | | | |
| Lube Oil | 0 | | | | |

| Mass Flow | 7-T Working lb/h | | | | |
|---|---|---|---|---|---|
| H2S | 0 | | | | |
| Nitrogen | 0 | | | | |
| Carbon Dioxide | 0 | | | | |
| Methane | 0 | | | | |
| Ethane | 0 | | | | |
| Propane | 0 | | | | |
| Isobutane | 0 | | | | |
| n-Butane | 0 | | | | |
| Isopentane | 0 | | | | |
| n-Pentane | 0 | | | | |
| 2,2-Dimethylbutane | 0 | | | | |
| Cyclopentane | 0 | | | | |
| 2-Methylpentane | 0 | | | | |
| 3-Methylpentane | 0 | | | | |
| Hexane | 0 | | | | |
| 2,2-Dimethylpentane | 0 | | | | |
| Methylcyclopentane | 0 | | | | |
| 2,2,3-Trimethylbutane | 0 | | | | |
| Benzene | 0.242059 | | | | |
| Cyclohexane | 0 | | | | |
| 2-Methylhexane | 0 | | | | |
| 3-Methylhexane | 0 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | |

| Mass Flow | 7-T Working lb/h | | | | |
|---|---|---|---|---|---|
| 1,1-Dimethylcyclopentane | 0 | | | | |
| n-Heptane | 0 | | | | |
| Methylcyclohexane | 0 | | | | |
| 2,5-Dimethylhexane | 0 | | | | |
| Toluene | 0.107301 | | | | |
| 2-Methylheptane | 0 | | | | |
| n-Octane | 0 | | | | |
| Ethylcyclohexane | 0 | | | | |
| Ethylbenzene | 0.00160817 | | | | |
| p-Xylene | 0 | | | | |
| o-Xylene | 0 | | | | |
| Nonane | 0 | | | | |
| Isopropylbenzene | 8.40239E-05 | | | | |
| Cyclooctane | 0 | | | | |
| n-Propylbenzene | 8.24815E-05 | | | | |
| 1,3,5-Trimethylbenzene | 7.968E-05 | | | | |
| Isobutylbenzene | 0 | | | | |
| n-Butylbenzene | 2.90592E-06 | | | | |
| Decane | 0 | | | | |
| Water | 0.0311921 | | | | |
| Lube Oil | 0 | | | | |

## Stream Properties

| Property | Units | 7-T Working | | | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 79.1737 | | | | |
| Pressure | psia | 12.76 | | | | |
| Molecular Weight | lb/lbmol | 63.6068 | | | | |
| Mass Density | lb/ft^3 | 54.7597 | | | | |
| Mass Flow | lb/h | 0.382409 | | | | |
| Std Vapor Volumetric Flow | MMSCFD | 5.47558E-05 | | | | |
| Std Liquid Volumetric Flow | sgpm | 0.000859757 | | | | |
| Specific Gravity | | 0.878 | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 2825.13 | | | | |

**Remarks**


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# Blocks
# Wastewater Tank 6-T
**Tank Losses**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 | |
| Location: | Red Hills GP | Modified: 12:40 PM, 10/8/2024 | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | Status: Solved 4:41 PM, 11/19/2025 | |

## Connections

| Stream | Connection Type | Other Block | Stream | Connection Type | Other Block |
|---|---|---|---|---|---|
| To RH2 Wastewater Tanks | Inlet | | 6-T Flashing | Flashing Losses Stream | MIX-100 |
| 6-T Working | Working Losses Stream | MIX-100 | 6-T Standing | Standing Losses Stream | MIX-100 |
| 6 | Loading Losses Stream | | To 6-LOAD | Residual Liquid Stream | |

## Working and Standing Properties

| | | | | | |
|---|---|---|---|---|---|
| | Tank Geometry | Vertical Cylinder | | Roof Type | Cone |
| * | Shell Length | 20 ft | | Slope of Coned Roof | 0.0625 |
| * | Shell Diameter | 12 ft | | Breather Vent Pressure | 0.03 psi |
| * | Number of Storage Tanks | 1 | | Breather Vacuum Pressure | -0.03 psi |
| | Maximum Fraction Fill of Tank | 90 % | * | Location | El Paso, TX |
| | Average Fraction Fill of Tank | 50 % | | Time Frame | Year |
| | Minimum Fraction Fill of Tank | 10 % | | Known Liquid Bulk Temperature? | False |
| * | Material Category | Light Organics | | Liquid Bulk Temperature | 67.9725 °F |
| | Insulation | Uninsulated | * | Use AP 42 Raoult's Vapor Pressure? | False |
| | Bolted or Riveted Construction? | False | | Flashing Temperature | 78.8795 °F |
| * | Vapor Balanced Tank? | False | | Average Daily Maximum Ambient Temperature | 77.5 °F |
| | Known Sum of Increases in Liquid Level? | False | | Average Daily Minimum Ambient Temperature | 53.1 °F |
| | Sum of Increases in Liquid Level | 4733.42 ft/yr | | Atmospheric Pressure at Tank Location | 12.76 psia |
| * | Shell Color | Tan | | Daily Solar Insolation | 1818 Btu/(day*ft^2) |
| * | Shell Paint Condition | Average | | Average Wind Speed | 8.5 mph |
| * | Roof Color | Tan | | Include Short Term Emissions | False |
| * | Roof Paint Condition | Average | | | |

## Composition Subset Properties

| | | | |
|---|---|---|---|
| Component Subset | VOCs | Species in Results | Selected Species |
| Atomic Basis | False | Fraction Denominator | Selected Species |

## Tabulated Composition Subset Properties

| Index | Selected Components | | | |
|---|---|---|---|---|
| H2S | False | | | |
| Nitrogen | False | | | |
| Carbon Dioxide | False | | | |
| Methane | False | | | |
| Ethane | False | | | |
| Propane | True | | | |
| Isobutane | True | | | |
| n-Butane | True | | | |
| Isopentane | True | | | |
| n-Pentane | True | | | |
| 2,2-Dimethylbutane | True | | | |
| Cyclopentane | True | | | |
| 2-Methylpentane | True | | | |
| 3-Methylpentane | True | | | |
| Hexane | True | | | |
| 2,2-Dimethylpentane | True | | | |
| Methylcyclopentane | True | | | |
| 2,2,3-Trimethylbutane | True | | | |
| Benzene | True | | | |
| Cyclohexane | True | | | |


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# Blocks
# Wastewater Tank 6-T
**Tank Losses**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 | |
| Location: | Red Hills GP | Modified: 12:40 PM, 10/8/2024 | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | Status: Solved 4:41 PM, 11/19/2025 | |

## Tabulated Composition Subset Properties

| Index | Selected Components | | | |
|---|---|---|---|---|
| 2-Methylhexane | True | | | |
| 3-Methylhexane | True | | | |
| 1,1-Dimethylcyclopentane | True | | | |
| n-Heptane | True | | | |
| Methylcyclohexane | True | | | |
| 2,5-Dimethylhexane | True | | | |
| Toluene | True | | | |
| 2-Methylheptane | True | | | |
| n-Octane | True | | | |
| Ethylcyclohexane | True | | | |
| Ethylbenzene | True | | | |
| p-Xylene | True | | | |
| o-Xylene | True | | | |
| Nonane | True | | | |
| Isopropylbenzene | True | | | |
| Cyclooctane | True | | | |
| n-Propylbenzene | True | | | |
| 1,3,5-Trimethylbenzene | True | | | |
| Isobutylbenzene | True | | | |
| n-Butylbenzene | True | | | |
| Decane | True | | | |
| Water | False | | | |
| Lube Oil | True | | | |

## Details Properties

| | | | | | |
|---|---|---|---|---|---|
| Vapor Space Volume | 1145.11 | ft^3 | Roof Outage | 0.125 | ft |
| Vapor Density | 0.0141964 | lb/ft^3 | Tank Roof Height | 0.375 | ft |
| Vapor Space Expansion Factor | 0.115839 | 1/day | Tank Shell Radius | 6 | ft |
| Vented Vapor Saturation Factor | 0.593924 | | Vapor Molecular Weight | 63.6348 | lb/lbmol |
| Vapor Space Outage | 10.125 | ft | Average Vapor Temperature | 532.182 | °R |
| Average Daily Vapor Temperature Range | 34.5491 | °R | Average Daily Ambient Temperature | 524.97 | °R |
| Average Daily Vapor Pressure Range | 0.641656 | psi | Net Working Loss Throughput | 535337 | ft^3/yr |
| Breather Vent Pressure Setting Range | 0.06 | psi | Working Loss Turnover (Saturation) Factor | 0.268073 | |
| Vapor Pressure at Average Daily Liquid Surface Temperature | 1.27411 | psia | Number of Turnovers per Year | 295.839 | |
| Average Daily Liquid Surface Temperature | 529.912 | °R | Annual Net Throughput | 95357.6 | bbl/yr |
| Average Daily Ambient Temperature Range | 24.4 | °R | Maximum Liquid Height | 18 | ft |
| Tank Roof Surface Solar Absorptance | 0.49 | | Minimum Liquid Height | 2 | ft |
| Tank Shell Surface Solar Absorptance | 0.49 | | Working Loss Product Factor | 1 | |
| Vapor Pressure at Maximum Liquid Surface Temperature | 1.62942 | psia | Vent Setting Correction Factor | 1 | |
| Vapor Pressure at Minimum Liquid Surface Temperature | 0.987762 | psia | Saturation Factor | 0.6 | |
| Maximum Liquid Surface Temperature | 538.549 | °R | Vapor Pressure of Liquid Loaded | 1.19092 | psia |
| Minimum Liquid Surface Temperature | 521.275 | °R | Collection Efficiency | 70 | % |
| Liquid Height | 10 | ft | Annual Net Throughput Per Tank | 95357.6 | bbl/yr |


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# Blocks
# Wastewater Tank 6-T
**Tank Losses**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 | |
| Location: | Red Hills GP | Modified: 12:40 PM, 10/8/2024 | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | Status: Solved 4:41 PM, 11/19/2025 | |

## Loading Properties

| | | | | | |
|---|---|---|---|---|---|
| | Cargo Carrier | Tank Truck or Rail Tank Car | | Truck Annual Leak Test Passed | None |
| * | Land Based Mode of Operation | Submerged Loading: Dedicated Normal Service | | Overall Reduction Efficiency | 0 % |
| * | Control Efficiency | 0 % | | | |

## Results Properties

| | | | | | |
|---|---|---|---|---|---|
| Flashing Losses | 0 | ton/yr | Standing Losses per Tank | 0.187499 | ton/yr |
| Working Losses | 0.935742 | ton/yr | Flashing Losses per Tank | 0 | ton/yr |
| Standing Losses | 0.187499 | ton/yr | Working and Standing Losses | 1.12324 | ton/yr |
| Loading Losses | 1.98308 | ton/yr | Working and Standing Losses per Tank | 1.12324 | ton/yr |
| Working Losses per Tank | 0.935742 | ton/yr | Loading Losses per Tank | 1.98308 | ton/yr |

## Tabulated Results Properties

| Index | Flashing Losses Mass Flows ton/yr | Working Losses Mass Flows ton/yr | Standing Losses Mass Flows ton/yr | Loading Losses Mass Flows ton/yr |
|---|---|---|---|---|
| Propane | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 |
| n-Butane | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 | 0 |
| Cyclopentane | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0 | 0 | 0 | 0 |
| Benzene | 0 | 0.645159 | 0.129274 | 1.36815 |
| Cyclohexane | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 | 0 |
| Toluene | 0 | 0.285646 | 0.0572363 | 0.604559 |
| 2-Methylheptane | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0 | 0.00427504 | 0.000856611 | 0.00899262 |
| p-Xylene | 0 | 0 | 0 | 0 |
| o-Xylene | 0 | 0 | 0 | 0 |
| Nonane | 0 | 0 | 0 | 0 |
| Isopropylbenzene | 0 | 0.000223246 | 4.47329E-05 | 0.000467473 |
| Cyclooctane | 0 | 0 | 0 | 0 |
| n-Propylbenzene | 0 | 0.000219124 | 4.39069E-05 | 0.000458548 |
| 1,3,5-Trimethylbenzene | 0 | 0.000211649 | 4.24091E-05 | 0.000442243 |
| Isobutylbenzene | 0 | 0 | 0 | 0 |
| n-Butylbenzene | 0 | 7.71237E-06 | 1.54537E-06 | 1.60212E-05 |
| Decane | 0 | 0 | 0 | 0 |
| Lube Oil | 0 | 0 | 0 | 0 |


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# Blocks
## Wastewater Tank 6-T
**Tank Losses**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 | |
| Location: | Red Hills GP | Modified: 12:40 PM, 10/8/2024 | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | Status: Solved 4:41 PM, 11/19/2025 | |

| Index | Working and Standing Losses Mass Flows ton/yr | | | |
|---|---|---|---|---|
| Propane | 0 | | | |
| Isobutane | 0 | | | |
| n-Butane | 0 | | | |
| Isopentane | 0 | | | |
| n-Pentane | 0 | | | |
| 2,2-Dimethylbutane | 0 | | | |
| Cyclopentane | 0 | | | |
| 2-Methylpentane | 0 | | | |
| 3-Methylpentane | 0 | | | |
| Hexane | 0 | | | |
| 2,2-Dimethylpentane | 0 | | | |
| Methylcyclopentane | 0 | | | |
| 2,2,3-Trimethylbutane | 0 | | | |
| Benzene | 0.774433 | | | |
| Cyclohexane | 0 | | | |
| 2-Methylhexane | 0 | | | |
| 3-Methylhexane | 0 | | | |
| 1,1-Dimethylcyclopentane | 0 | | | |
| n-Heptane | 0 | | | |
| Methylcyclohexane | 0 | | | |
| 2,5-Dimethylhexane | 0 | | | |
| Toluene | 0.342882 | | | |
| 2-Methylheptane | 0 | | | |
| n-Octane | 0 | | | |
| Ethylcyclohexane | 0 | | | |
| Ethylbenzene | 0.00513165 | | | |
| p-Xylene | 0 | | | |
| o-Xylene | 0 | | | |
| Nonane | 0 | | | |
| Isopropylbenzene | 0.000267979 | | | |
| Cyclooctane | 0 | | | |
| n-Propylbenzene | 0.000263031 | | | |
| 1,3,5-Trimethylbenzene | 0.000254058 | | | |
| Isobutylbenzene | 0 | | | |
| n-Butylbenzene | 9.25773E-06 | | | |
| Decane | 0 | | | |
| Lube Oil | 0 | | | |

**Remarks**


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# Blocks
# Wastewater Tanks (5-T)
### Tank Losses

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 | |
| Location: | Red Hills GP | Modified: 5:10 PM, 11/19/2025 | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | Status: Solved 10:20 AM, 11/20/2025 | |

## Connections

| Stream | Connection Type | Other Block | Stream | Connection Type | Other Block |
|---|---|---|---|---|---|
| To Tanks | Inlet | VLVE-100 | 5-T Flashing | Flashing Losses Stream | MIX-101 |
| 5-T Working | Working Losses Stream | MIX-101 | 5-T Standing | Standing Losses Stream | MIX-101 |
| 5 | Loading Losses Stream | | To 5-LOAD | Residual Liquid Stream | |

## Working and Standing Properties

| | | | | | |
|---|---|---|---|---|---|
| | Tank Geometry | Vertical Cylinder | | Roof Type | Cone |
| * | Shell Length | 20 ft | | Slope of Coned Roof | 0.0625 |
| * | Shell Diameter | 12 ft | | Breather Vent Pressure | 0.03 psi |
| * | Number of Storage Tanks | 4 | | Breather Vacuum Pressure | -0.03 psi |
| | Maximum Fraction Fill of Tank | 90 % | * | Location | El Paso, TX |
| | Average Fraction Fill of Tank | 50 % | | Time Frame | Year |
| | Minimum Fraction Fill of Tank | 10 % | | Known Liquid Bulk Temperature? | False |
| * | Material Category | Light Organics | | Liquid Bulk Temperature | 67.9725 °F |
| | Insulation | Uninsulated | * | Use AP 42 Raoult's Vapor Pressure? | False |
| | Bolted or Riveted Construction? | False | | Flashing Temperature | 78.8795 °F |
| * | Vapor Balanced Tank? | False | | Average Daily Maximum Ambient Temperature | 77.5 °F |
| | Known Sum of Increases in Liquid Level? | False | | Average Daily Minimum Ambient Temperature | 53.1 °F |
| | Sum of Increases in Liquid Level | 1850.95 ft/yr | | Atmospheric Pressure at Tank Location | 12.76 psia |
| * | Shell Color | Tan | | Daily Solar Insolation | 1818 Btu/(day*ft^2) |
| * | Shell Paint Condition | Average | | Average Wind Speed | 8.5 mph |
| * | Roof Color | Tan | | Include Short Term Emissions | False |
| * | Roof Paint Condition | Average | | | |

## Composition Subset Properties

| | | | |
|---|---|---|---|
| * | Component Subset | All Selected | Species in Results | Selected Species |
| | Atomic Basis | False | Fraction Denominator | Selected Species |

## Tabulated Composition Subset Properties

| Index | Selected Components | | | |
|---|---|---|---|---|
| H2S | True | | | |
| Nitrogen | True | | | |
| Carbon Dioxide | True | | | |
| Methane | True | | | |
| Ethane | True | | | |
| Propane | True | | | |
| Isobutane | True | | | |
| n-Butane | True | | | |
| Isopentane | True | | | |
| n-Pentane | True | | | |
| 2,2-Dimethylbutane | True | | | |
| Cyclopentane | True | | | |
| 2-Methylpentane | True | | | |
| 3-Methylpentane | True | | | |
| Hexane | True | | | |
| 2,2-Dimethylpentane | True | | | |
| Methylcyclopentane | True | | | |
| 2,2,3-Trimethylbutane | True | | | |
| Benzene | True | | | |
| Cyclohexane | True | | | |


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# Blocks
# Wastewater Tanks (5-T)
### Tank Losses

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 | |
| Location: | Red Hills GP | Modified: 5:10 PM, 11/19/2025 | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | Status: Solved 10:20 AM, 11/20/2025 | |

## Tabulated Composition Subset Properties

| Index | Selected Components | | | |
|---|---|---|---|---|
| 2-Methylhexane | True | | | |
| 3-Methylhexane | True | | | |
| 1,1-Dimethylcyclopentane | True | | | |
| n-Heptane | True | | | |
| Methylcyclohexane | True | | | |
| 2,5-Dimethylhexane | True | | | |
| Toluene | True | | | |
| 2-Methylheptane | True | | | |
| n-Octane | True | | | |
| Ethylcyclohexane | True | | | |
| Ethylbenzene | True | | | |
| p-Xylene | True | | | |
| o-Xylene | True | | | |
| Nonane | True | | | |
| Isopropylbenzene | True | | | |
| Cyclooctane | True | | | |
| n-Propylbenzene | True | | | |
| 1,3,5-Trimethylbenzene | True | | | |
| Isobutylbenzene | True | | | |
| n-Butylbenzene | True | | | |
| Decane | True | | | |
| Water | True | | | |
| Lube Oil | True | | | |

## Details Properties

| | | | | | |
|---|---|---|---|---|---|
| Vapor Space Volume | 1145.11 | ft^3 | Roof Outage | 0.125 | ft |
| Vapor Density | 0.105286 | lb/ft^3 | Tank Roof Height | 0.375 | ft |
| Vapor Space Expansion Factor | 1 | 1/day | Tank Shell Radius | 6 | ft |
| Vented Vapor Saturation Factor | 0.144183 | | Vapor Molecular Weight | 54.3626 | lb/lbmol |
| Vapor Space Outage | 10.125 | ft | Average Vapor Temperature | 532.182 | °R |
| Average Daily Vapor Temperature Range | 34.5491 | °R | Average Daily Ambient Temperature | 524.97 | °R |
| Average Daily Vapor Pressure Range | 3.22392 | psi | Net Working Loss Throughput | 209337 | ft^3/yr |
| Breather Vent Pressure Setting Range | 0.06 | psi | Working Loss Turnover (Saturation) Factor | 1 | |
| Vapor Pressure at Average Daily Liquid Surface Temperature | 11.061 | psia | Number of Turnovers per Year | 115.684 | |
| Average Daily Liquid Surface Temperature | 529.912 | °R | Annual Net Throughput | 149154 | bbl/yr |
| Average Daily Ambient Temperature Range | 24.4 | °R | Maximum Liquid Height | 18 | ft |
| Tank Roof Surface Solar Absorptance | 0.49 | | Minimum Liquid Height | 2 | ft |
| Tank Shell Surface Solar Absorptance | 0.49 | | Working Loss Product Factor | 1 | |
| Vapor Pressure at Maximum Liquid Surface Temperature | 12.76 | psia | Vent Setting Correction Factor | 1 | |
| Vapor Pressure at Minimum Liquid Surface Temperature | 9.53608 | psia | Saturation Factor | 1 | |
| Maximum Liquid Surface Temperature | 538.549 | °R | Vapor Pressure of Liquid Loaded | 0.547082 | psia |
| Minimum Liquid Surface Temperature | 521.275 | °R | Collection Efficiency | 70 | % |
| Liquid Height | 10 | ft | Annual Net Throughput Per Tank | 37288.4 | bbl/yr |


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# Blocks
# Wastewater Tanks (5-T)
**Tank Losses**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 | |
| Location: | Red Hills GP | Modified: 5:10 PM, 11/19/2025 | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | Status: Solved 10:20 AM, 11/20/2025 | |

## Loading Properties

| | | | |
|---|---|---|---|
| Cargo Carrier | Tank Truck or Rail Tank Car | Truck Annual Leak Test Passed | None |
| * Land Based Mode of Operation | Submerged Loading: Dedicated Vapor Balance Service | Overall Reduction Efficiency | 0 % |
| * Control Efficiency | 0 % | | |

## Results Properties

| | | | |
|---|---|---|---|
| Flashing Losses | 10.8469 ton/yr | Standing Losses per Tank | 0.42276 ton/yr |
| Working Losses | 5.87414 ton/yr | Flashing Losses per Tank | 2.71173 ton/yr |
| Standing Losses | 1.69104 ton/yr | Working and Standing Losses | 7.56518 ton/yr |
| Loading Losses | 2.10664 ton/yr | Working and Standing Losses per Tank | 1.8913 ton/yr |
| Working Losses per Tank | 1.46854 ton/yr | Loading Losses per Tank | 0.526659 ton/yr |

## Tabulated Results Properties

| Index | Flashing Losses Mass Flows ton/yr | Working Losses Mass Flows ton/yr | Standing Losses Mass Flows ton/yr | Loading Losses Mass Flows ton/yr |
|---|---|---|---|---|
| H2S | 0 | 0 | 0 | 0 |
| Nitrogen | 0.00339212 | 0.000196364 | 5.6529E-05 | 0 |
| Carbon Dioxide | 0.0153334 | 0.0358983 | 0.0103344 | 0 |
| Methane | 0.0973854 | 0.0116119 | 0.00334283 | 0 |
| Ethane | 0.598013 | 0.108098 | 0.0311191 | 0 |
| Propane | 2.1324 | 0.318336 | 0.0916423 | 0 |
| Isobutane | 0.82352 | 0.129429 | 0.0372597 | 0 |
| n-Butane | 2.46929 | 0.543588 | 0.156488 | 0 |
| Isopentane | 1.21293 | 0.426507 | 0.122782 | 0 |
| n-Pentane | 1.51696 | 0.604109 | 0.17391 | 0 |
| 2,2-Dimethylbutane | 0.015253 | 0.00922836 | 0.00265665 | 0 |
| Cyclopentane | 0.0808438 | 0.0770467 | 0.0221801 | 0 |
| 2-Methylpentane | 0.345341 | 0.303175 | 0.0872776 | 0 |
| 3-Methylpentane | 0.180573 | 0.181932 | 0.0523743 | 0 |
| Hexane | 0.401084 | 0.512223 | 0.147458 | 0 |
| 2,2-Dimethylpentane | 0.0320849 | 0.0558489 | 0.0160777 | 0 |
| Methylcyclopentane | 0.173592 | 0.244096 | 0.0702699 | 0 |
| 2,2,3-Trimethylbutane | 0.000645991 | 0.00118841 | 0.000342118 | 0 |
| Benzene | 0.011422 | 0.0445605 | 0.012828 | 0.0336898 |
| Cyclohexane | 0.178535 | 0.363228 | 0.104566 | 0 |
| 2-Methylhexane | 0.0493424 | 0.13489 | 0.0388319 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0.0719775 | 0.182501 | 0.0525382 | 0 |
| n-Heptane | 0.106548 | 0.391267 | 0.112637 | 0.2489 |
| Methylcyclohexane | 0.114892 | 0.424768 | 0.122282 | 0.31394 |
| 2,5-Dimethylhexane | 0.000966387 | 0.0035128 | 0.00101126 | 0.00921088 |
| Toluene | 0.0147796 | 0.0569877 | 0.0164055 | 0.051873 |
| 2-Methylheptane | 0.0144147 | 0.0518561 | 0.0149283 | 0.202699 |
| n-Octane | 0.0342891 | 0.121971 | 0.035113 | 0.581314 |
| Ethylcyclohexane | 0.00308468 | 0.0110681 | 0.00318628 | 0.0452641 |
| Ethylbenzene | 0.000718703 | 0.00262712 | 0.000756292 | 0.00401772 |
| p-Xylene | 0.00433729 | 0.0159347 | 0.00458727 | 0.028853 |
| o-Xylene | 0.000645726 | 0.00236644 | 0.000681249 | 0.00357446 |
| Nonane | 0.00469611 | 0.0161513 | 0.00464963 | 0.097747 |
| Isopropylbenzene | 0.000143637 | 0.000507136 | 0.000145994 | 0.00134238 |
| Cyclooctane | 0.000394111 | 0.00138561 | 0.000398889 | 0.00823701 |
| n-Propylbenzene | 3.98574E-05 | 0.000140116 | 4.03364E-05 | 0.000392667 |
| 1,3,5-Trimethylbenzene | 0.000248502 | 0.000866078 | 0.000249325 | 0.00276414 |
| Isobutylbenzene | 9.72402E-06 | 3.38271E-05 | 9.73811E-06 | 8.06881E-05 |


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# Blocks
# Wastewater Tanks (5-T)
**Tank Losses**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 | |
| Location: | Red Hills GP | Modified: 5:10 PM, 11/19/2025 | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | Status: Solved 10:20 AM, 11/20/2025 | |

## Tabulated Results Properties

| Index | Flashing Losses Mass Flows ton/yr | Working Losses Mass Flows ton/yr | Standing Losses Mass Flows ton/yr | Loading Losses Mass Flows ton/yr |
|---|---|---|---|---|
| n-Butylbenzene | 3.08958E-05 | 0.000103954 | 2.99262E-05 | 0.000482636 |
| Decane | 0.00103802 | 0.00346864 | 0.000998548 | 0.0204613 |
| Water | 0.135755 | 0.481435 | 0.138595 | 0.451784 |
| Lube Oil | 5.31464E-07 | 1.43001E-06 | 4.1167E-07 | 7.89958E-06 |

| Index | Working and Standing Losses Mass Flows ton/yr | | | |
|---|---|---|---|---|
| H2S | 0 | | | |
| Nitrogen | 0.000252893 | | | |
| Carbon Dioxide | 0.0462327 | | | |
| Methane | 0.0149548 | | | |
| Ethane | 0.139217 | | | |
| Propane | 0.409979 | | | |
| Isobutane | 0.166688 | | | |
| n-Butane | 0.700076 | | | |
| Isopentane | 0.549289 | | | |
| n-Pentane | 0.778019 | | | |
| 2,2-Dimethylbutane | 0.011885 | | | |
| Cyclopentane | 0.0992269 | | | |
| 2-Methylpentane | 0.390453 | | | |
| 3-Methylpentane | 0.234306 | | | |
| Hexane | 0.659681 | | | |
| 2,2-Dimethylpentane | 0.0719266 | | | |
| Methylcyclopentane | 0.314366 | | | |
| 2,2,3-Trimethylbutane | 0.00153053 | | | |
| Benzene | 0.0573885 | | | |
| Cyclohexane | 0.467794 | | | |
| 2-Methylhexane | 0.173722 | | | |
| 3-Methylhexane | 0 | | | |
| 1,1-Dimethylcyclopentane | 0.23504 | | | |
| n-Heptane | 0.503904 | | | |
| Methylcyclohexane | 0.547049 | | | |
| 2,5-Dimethylhexane | 0.00452406 | | | |
| Toluene | 0.0733932 | | | |
| 2-Methylheptane | 0.0667844 | | | |
| n-Octane | 0.157084 | | | |
| Ethylcyclohexane | 0.0142544 | | | |
| Ethylbenzene | 0.00338341 | | | |
| p-Xylene | 0.020522 | | | |
| o-Xylene | 0.00304769 | | | |
| Nonane | 0.020801 | | | |
| Isopropylbenzene | 0.000653129 | | | |
| Cyclooctane | 0.0017845 | | | |
| n-Propylbenzene | 0.000180453 | | | |
| 1,3,5-Trimethylbenzene | 0.0011154 | | | |
| Isobutylbenzene | 4.35652E-05 | | | |
| n-Butylbenzene | 0.00013388 | | | |
| Decane | 0.00446719 | | | |
| Water | 0.62003 | | | |
| Lube Oil | 1.84168E-06 | | | |

**Warnings**

ProMax:ProMax!Project!Flowsheets!Wastewater Tanks (5-T, 6-T, 7-T))!Blocks!Wastewater Tanks (5-T)
Warning: Vapor adjusted to ensure mass balance.

**Remarks**


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# Blocks
# Wastewater Tanks (5-T)
### Tank Losses

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 |
| Location: | Red Hills GP | Modified: 5:10 PM, 11/19/2025 |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | Status: Solved 10:20 AM, 11/20/2025 |


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# Blocks
# Wastewater Tanks 7-T
**Tank Losses**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 | |
| Location: | Red Hills GP | Modified: 12:44 PM, 10/8/2024 | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | Status: Solved 4:41 PM, 11/19/2025 | |

## Connections

| Stream | Connection Type | Other Block | Stream | Connection Type | Other Block |
|---|---|---|---|---|---|
| To RH1 Wastewater Tanks | Inlet | | 7-T Flashing | Flashing Losses Stream | MIX-102 |
| 7-T Working | Working Losses Stream | MIX-102 | 7-T Standing | Standing Losses Stream | MIX-102 |
| 7 | Loading Losses Stream | | To 7-LOAD | Residual Liquid Stream | |

## Working and Standing Properties

| | | | | | |
|---|---|---|---|---|---|
| | Tank Geometry | Vertical Cylinder | | Roof Type | Cone |
| * | Shell Length | 16 ft | | Slope of Coned Roof | 0.0625 |
| * | Shell Diameter | 15.5 ft | | Breather Vent Pressure | 0.03 psi |
| * | Number of Storage Tanks | 2 | | Breather Vacuum Pressure | -0.03 psi |
| | Maximum Fraction Fill of Tank | 90 % | * | Location | El Paso, TX |
| | Average Fraction Fill of Tank | 50 % | | Time Frame | Year |
| | Minimum Fraction Fill of Tank | 10 % | | Known Liquid Bulk Temperature? | False |
| * | Material Category | Light Organics | | Liquid Bulk Temperature | 67.9725 °F |
| | Insulation | Uninsulated | * | Use AP 42 Raoult's Vapor Pressure? | False |
| | Bolted or Riveted Construction? | False | | Flashing Temperature | 79.1737 °F |
| * | Vapor Balanced Tank? | False | | Average Daily Maximum Ambient Temperature | 77.5 °F |
| | Known Sum of Increases in Liquid Level? | False | | Average Daily Minimum Ambient Temperature | 53.1 °F |
| | Sum of Increases in Liquid Level | 1418.62 ft/yr | | Atmospheric Pressure at Tank Location | 12.76 psia |
| * | Shell Color | Tan | | Daily Solar Insolation | 1818 Btu/(day*ft^2) |
| * | Shell Paint Condition | Average | | Average Wind Speed | 8.5 mph |
| * | Roof Color | Tan | | Include Short Term Emissions | False |
| * | Roof Paint Condition | Average | | | |

## Composition Subset Properties

| | | | |
|---|---|---|---|
| Component Subset | VOCs | Species in Results | Selected Species |
| Atomic Basis | False | Fraction Denominator | Selected Species |

## Tabulated Composition Subset Properties

| Index | Selected Components | | | |
|---|---|---|---|---|
| H2S | False | | | |
| Nitrogen | False | | | |
| Carbon Dioxide | False | | | |
| Methane | False | | | |
| Ethane | False | | | |
| Propane | True | | | |
| Isobutane | True | | | |
| n-Butane | True | | | |
| Isopentane | True | | | |
| n-Pentane | True | | | |
| 2,2-Dimethylbutane | True | | | |
| Cyclopentane | True | | | |
| 2-Methylpentane | True | | | |
| 3-Methylpentane | True | | | |
| Hexane | True | | | |
| 2,2-Dimethylpentane | True | | | |
| Methylcyclopentane | True | | | |
| 2,2,3-Trimethylbutane | True | | | |
| Benzene | True | | | |
| Cyclohexane | True | | | |


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# Blocks
# Wastewater Tanks 7-T
**Tank Losses**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 | |
| Location: | Red Hills GP | Modified: 12:44 PM, 10/8/2024 | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | Status: Solved 4:41 PM, 11/19/2025 | |

## Tabulated Composition Subset Properties

| Index | Selected Components | | | |
|---|---|---|---|---|
| 2-Methylhexane | True | | | |
| 3-Methylhexane | True | | | |
| 1,1-Dimethylcyclopentane | True | | | |
| n-Heptane | True | | | |
| Methylcyclohexane | True | | | |
| 2,5-Dimethylhexane | True | | | |
| Toluene | True | | | |
| 2-Methylheptane | True | | | |
| n-Octane | True | | | |
| Ethylcyclohexane | True | | | |
| Ethylbenzene | True | | | |
| p-Xylene | True | | | |
| o-Xylene | True | | | |
| Nonane | True | | | |
| Isopropylbenzene | True | | | |
| Cyclooctane | True | | | |
| n-Propylbenzene | True | | | |
| 1,3,5-Trimethylbenzene | True | | | |
| Isobutylbenzene | True | | | |
| n-Butylbenzene | True | | | |
| Decane | True | | | |
| Water | False | | | |
| Lube Oil | True | | | |

## Details Properties

| | | | | | |
|---|---|---|---|---|---|
| Vapor Space Volume | 1540 | ft^3 | Roof Outage | 0.161458 | ft |
| Vapor Density | 0.0143071 | lb/ft^3 | Tank Roof Height | 0.484375 | ft |
| Vapor Space Expansion Factor | 0.115859 | 1/day | Tank Shell Radius | 7.75 | ft |
| Vented Vapor Saturation Factor | 0.642529 | | Vapor Molecular Weight | 63.6068 | lb/lbmol |
| Vapor Space Outage | 8.16146 | ft | Average Vapor Temperature | 532.834 | °R |
| Average Daily Vapor Temperature Range | 34.4224 | °R | Average Daily Ambient Temperature | 524.97 | °R |
| Average Daily Vapor Pressure Range | 0.644485 | psi | Net Working Loss Throughput | 267682 | ft^3/yr |
| Breather Vent Pressure Setting Range | 0.06 | psi | Working Loss Turnover (Saturation) Factor | 0.437352 | |
| Vapor Pressure at Average Daily Liquid Surface Temperature | 1.28619 | psia | Number of Turnovers per Year | 110.83 | |
| Average Daily Liquid Surface Temperature | 530.238 | °R | Annual Net Throughput | 95362.4 | bbl/yr |
| Average Daily Ambient Temperature Range | 24.4 | °R | Maximum Liquid Height | 14.4 | ft |
| Tank Roof Surface Solar Absorptance | 0.49 | | Minimum Liquid Height | 1.6 | ft |
| Tank Shell Surface Solar Absorptance | 0.49 | | Working Loss Product Factor | 1 | |
| Vapor Pressure at Maximum Liquid Surface Temperature | 1.64289 | psia | Vent Setting Correction Factor | 1 | |
| Vapor Pressure at Minimum Liquid Surface Temperature | 0.998404 | psia | Saturation Factor | 0.6 | |
| Maximum Liquid Surface Temperature | 538.844 | °R | Vapor Pressure of Liquid Loaded | 1.18939 | psia |
| Minimum Liquid Surface Temperature | 521.633 | °R | Collection Efficiency | 70 | % |
| Liquid Height | 8 | ft | Annual Net Throughput Per Tank | 47681.2 | bbl/yr |

* User Specified Values
? Extrapolated or Approximate Values

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# Blocks
# Wastewater Tanks 7-T
**Tank Losses**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 | |
| Location: | Red Hills GP | Modified: 12:44 PM, 10/8/2024 | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | Status: Solved 4:41 PM, 11/19/2025 | |

## Loading Properties

| | | | | | |
|---|---|---|---|---|---|
| | Cargo Carrier | Tank Truck or Rail Tank Car | | Truck Annual Leak Test Passed | None |
| * | Land Based Mode of Operation | Submerged Loading: Dedicated Normal Service | | Overall Reduction Efficiency | 0 % |
| * | Control Efficiency | 0 % | | | |

## Results Properties

| | | | | | |
|---|---|---|---|---|---|
| Flashing Losses | 0 | ton/yr | Standing Losses per Tank | 0.274921 | ton/yr |
| Working Losses | 1.53833 | ton/yr | Flashing Losses per Tank | 0 | ton/yr |
| Standing Losses | 0.549842 | ton/yr | Working and Standing Losses | 2.08817 | ton/yr |
| Loading Losses | 1.98003 | ton/yr | Working and Standing Losses per Tank | 1.04409 | ton/yr |
| Working Losses per Tank | 0.769166 | ton/yr | Loading Losses per Tank | 0.990013 | ton/yr |

## Tabulated Results Properties

| Index | Flashing Losses Mass Flows ton/yr | Working Losses Mass Flows ton/yr | Standing Losses Mass Flows ton/yr | Loading Losses Mass Flows ton/yr |
|---|---|---|---|---|
| Propane | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 |
| n-Butane | 0 | 0 | 0 | 0 |
| Isopentane | 0 | 0 | 0 | 0 |
| n-Pentane | 0 | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 | 0 |
| Cyclopentane | 0 | 0 | 0 | 0 |
| 2-Methylpentane | 0 | 0 | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 | 0 |
| Hexane | 0 | 0 | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 | 0 |
| Methylcyclopentane | 0 | 0 | 0 | 0 |
| 2,2,3-Trimethylbutane | 0 | 0 | 0 | 0 |
| Benzene | 0 | 1.06022 | 0.37895 | 1.36364 |
| Cyclohexane | 0 | 0 | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 | 0 |
| 3-Methylhexane | 0 | 0 | 0 | 0 |
| 1,1-Dimethylcyclopentane | 0 | 0 | 0 | 0 |
| n-Heptane | 0 | 0 | 0 | 0 |
| Methylcyclohexane | 0 | 0 | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 | 0 |
| Toluene | 0 | 0.46998 | 0.167984 | 0.605948 |
| 2-Methylheptane | 0 | 0 | 0 | 0 |
| n-Octane | 0 | 0 | 0 | 0 |
| Ethylcyclohexane | 0 | 0 | 0 | 0 |
| Ethylbenzene | 0 | 0.00704379 | 0.00251764 | 0.00904263 |
| p-Xylene | 0 | 0 | 0 | 0 |
| o-Xylene | 0 | 0 | 0 | 0 |
| Nonane | 0 | 0 | 0 | 0 |
| Isopropylbenzene | 0 | 0.000368025 | 0.000131542 | 0.000469719 |
| Cyclooctane | 0 | 0 | 0 | 0 |
| n-Propylbenzene | 0 | 0.000361269 | 0.000129127 | 0.000460798 |
| 1,3,5-Trimethylbenzene | 0 | 0.000348998 | 0.000124742 | 0.000444253 |
| Isobutylbenzene | 0 | 0 | 0 | 0 |
| n-Butylbenzene | 0 | 1.27279E-05 | 4.54931E-06 | 1.60941E-05 |
| Decane | 0 | 0 | 0 | 0 |
| Lube Oil | 0 | 0 | 0 | 0 |


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# Blocks
## Wastewater Tanks 7-T
**Tank Losses**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: Tank Scenario 2 | |
| Location: | Red Hills GP | Modified: 12:44 PM, 10/8/2024 | |
| Flowsheet: | Wastewater Tanks (5-T, 6-T, 7-T)) | Status: Solved 4:41 PM, 11/19/2025 | |

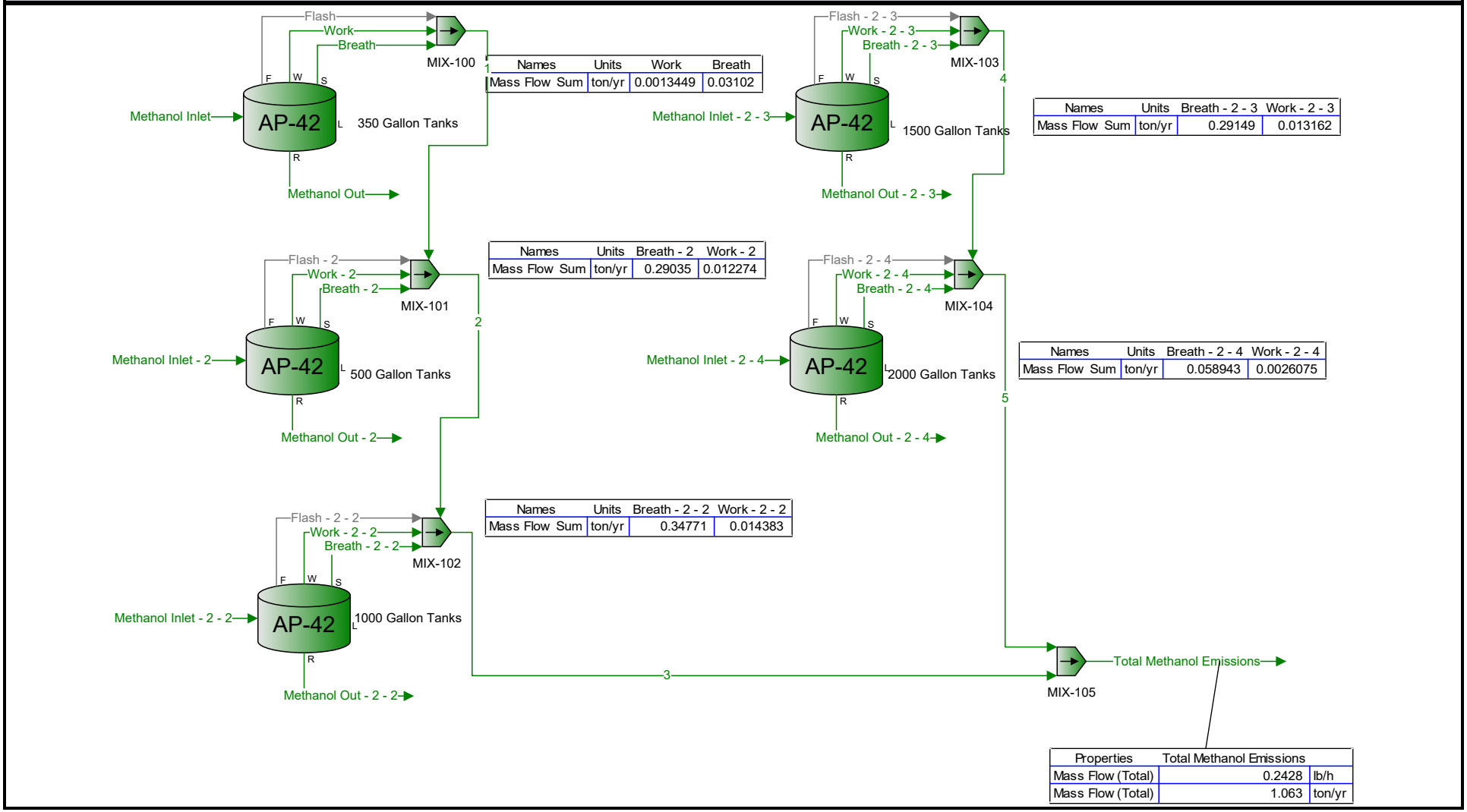
| Index | Working and Standing Losses Mass Flows ton/yr | | | |
|---|---|---|---|---|
| Propane | 0 | | | |
| Isobutane | 0 | | | |
| n-Butane | 0 | | | |
| Isopentane | 0 | | | |
| n-Pentane | 0 | | | |
| 2,2-Dimethylbutane | 0 | | | |
| Cyclopentane | 0 | | | |
| 2-Methylpentane | 0 | | | |
| 3-Methylpentane | 0 | | | |
| Hexane | 0 | | | |
| 2,2-Dimethylpentane | 0 | | | |
| Methylcyclopentane | 0 | | | |
| 2,2,3-Trimethylbutane | 0 | | | |
| Benzene | 1.43917 | | | |
| Cyclohexane | 0 | | | |
| 2-Methylhexane | 0 | | | |
| 3-Methylhexane | 0 | | | |
| 1,1-Dimethylcyclopentane | 0 | | | |
| n-Heptane | 0 | | | |
| Methylcyclohexane | 0 | | | |
| 2,5-Dimethylhexane | 0 | | | |
| Toluene | 0.637964 | | | |
| 2-Methylheptane | 0 | | | |
| n-Octane | 0 | | | |
| Ethylcyclohexane | 0 | | | |
| Ethylbenzene | 0.00956143 | | | |
| p-Xylene | 0 | | | |
| o-Xylene | 0 | | | |
| Nonane | 0 | | | |
| Isopropylbenzene | 0.000499567 | | | |
| Cyclooctane | 0 | | | |
| n-Propylbenzene | 0.000490396 | | | |
| 1,3,5-Trimethylbenzene | 0.00047374 | | | |
| Isobutylbenzene | 0 | | | |
| n-Butylbenzene | 1.72773E-05 | | | |
| Decane | 0 | | | |
| Lube Oil | 0 | | | |

**Remarks**


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# Flowsheet1
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: 233201.0054 |
| Location: | Red Hills Gas Plant | |
| Flowsheet: | Flowsheet1 | |




* User Specified Values
? Extrapolated or Approximate Values

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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: 233201.0054 |
| Location: | Red Hills Gas Plant | |
| Flowsheet: | Flowsheet1 | |

## Connections

| | Breath | Breath - 2 | Breath - 2 - 2 | Breath - 2 - 3 | Breath - 2 - 4 |
|---|---|---|---|---|---|
| From Block | 350 Gallon Tanks | 500 Gallon Tanks | 1000 Gallon Tanks | 1500 Gallon Tanks | 2000 Gallon Tanks |
| To Block | MIX-100 | MIX-101 | MIX-102 | MIX-103 | MIX-104 |

## Stream Composition

| Mole Fraction | Breath % | Breath - 2 % | Breath - 2 - 2 % | Breath - 2 - 3 % | Breath - 2 - 4 % |
|---|---|---|---|---|---|
| Methanol | 100 | 100 | 100 | 100 | 100 |

| Mass Fraction | Breath % | Breath - 2 % | Breath - 2 - 2 % | Breath - 2 - 3 % | Breath - 2 - 4 % |
|---|---|---|---|---|---|
| Methanol | 100 | 100 | 100 | 100 | 100 |

| Mass Flow | Breath lb/h | Breath - 2 lb/h | Breath - 2 - 2 lb/h | Breath - 2 - 3 lb/h | Breath - 2 - 4 lb/h |
|---|---|---|---|---|---|
| Methanol | 0.00708225 | 0.0662893 | 0.0793866 | 0.0665503 | 0.0134573 |

## Stream Properties

| Property | Units | Breath | Breath - 2 | Breath - 2 - 2 | Breath - 2 - 3 | Breath - 2 - 4 |
|---|---|---|---|---|---|---|
| Temperature | °F | 84.2119 | 84.6215 | 85.1872 | 84.8158 | 85.0499 |
| Pressure | psia | 12.88 | 12.88 | 12.88 | 12.88 | 12.88 |
| Molecular Weight | lb/lbmol | 32.0419 | 32.0419 | 32.0419 | 32.0419 | 32.0419 |
| Mass Density | lb/ft^3 | 49.8656 | 49.8487 | 49.8253 | 49.8407 | 49.831 |
| Mass Flow | lb/h | 0.00708225 | 0.0662893 | 0.0793866 | 0.0665503 | 0.0134573 |
| Std Vapor Volumetric Flow | MMSCFD | 2.01307E-06 | 1.88421E-05 | 2.25649E-05 | 1.89163E-05 | 3.82513E-06 |
| Std Liquid Volumetric Flow | sgpm | 1.77875E-05 | 0.000166489 | 0.000199384 | 0.000167145 | 3.37988E-05 |
| Specific Gravity | | 0.799528 | 0.799257 | 0.798883 | 0.799129 | 0.798974 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 866.7 | 866.7 | 866.7 | 866.7 | 866.7 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: 233201.0054 |
| Location: | Red Hills Gas Plant | |
| Flowsheet: | Flowsheet1 | |

## Connections

| | Flash | Flash - 2 | Flash - 2 - 2 | Flash - 2 - 3 | Flash - 2 - 4 |
|---|---|---|---|---|---|
| From Block | 350 Gallon Tanks | 500 Gallon Tanks | 1000 Gallon Tanks | 1500 Gallon Tanks | 2000 Gallon Tanks |
| To Block | MIX-100 | MIX-101 | MIX-102 | MIX-103 | MIX-104 |

## Stream Composition

| Mole Fraction | Flash % | Flash - 2 % | Flash - 2 - 2 % | Flash - 2 - 3 % | Flash - 2 - 4 % |
|---|---|---|---|---|---|
| Methanol | 100 | 100 | 100 | 100 | 100 |

| Mass Fraction | Flash % | Flash - 2 % | Flash - 2 - 2 % | Flash - 2 - 3 % | Flash - 2 - 4 % |
|---|---|---|---|---|---|
| Methanol | 100 | 100 | 100 | 100 | 100 |

| Mass Flow | Flash lb/h | Flash - 2 lb/h | Flash - 2 - 2 lb/h | Flash - 2 - 3 lb/h | Flash - 2 - 4 lb/h |
|---|---|---|---|---|---|
| Methanol | 0 | 0 | 0 | 0 | 0 |

## Stream Properties

| Property | Units | Flash | Flash - 2 | Flash - 2 - 2 | Flash - 2 - 3 | Flash - 2 - 4 |
|---|---|---|---|---|---|---|
| Temperature | °F | 84.2119 | 84.6215 | 85.1872 | 84.8158 | 85.0499 |
| Pressure | psia | 12.88 | 12.88 | 12.88 | 12.88 | 12.88 |
| Molecular Weight | lb/lbmol | 32.0419 | 32.0419 | 32.0419 | 32.0419 | 32.0419 |
| Mass Density | lb/ft^3 | | | | | |
| Mass Flow | lb/h | 0 | 0 | 0 | 0 | 0 |
| Std Vapor Volumetric Flow | MMSCFD | 0 | 0 | 0 | 0 | 0 |
| Std Liquid Volumetric Flow | sgpm | 0 | 0 | 0 | 0 | 0 |
| Specific Gravity | | | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 866.7 | 866.7 | 866.7 | 866.7 | 866.7 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: 233201.0054 |
| Location: | Red Hills Gas Plant | |
| Flowsheet: | Flowsheet1 | |

## Connections

| | Methanol Inlet | Methanol Inlet - 2 | Methanol Inlet - 2 - 2 | Methanol Inlet - 2 - 3 | Methanol Inlet - 2 - 4 |
|---|---|---|---|---|---|
| From Block | -- | -- | -- | -- | -- |
| To Block | 350 Gallon Tanks | 500 Gallon Tanks | 1000 Gallon Tanks | 1500 Gallon Tanks | 2000 Gallon Tanks |

## Stream Composition

| Mole Fraction | Methanol Inlet % | Methanol Inlet - 2 % | Methanol Inlet - 2 - 2 % | Methanol Inlet - 2 - 3 % | Methanol Inlet - 2 - 4 % |
|---|---|---|---|---|---|
| Methanol | 100 * | 100 * | 100 * | 100 * | 100 * |

| Mass Fraction | Methanol Inlet % | Methanol Inlet - 2 % | Methanol Inlet - 2 - 2 % | Methanol Inlet - 2 - 3 % | Methanol Inlet - 2 - 4 % |
|---|---|---|---|---|---|
| Methanol | 100 * | 100 * | 100 * | 100 * | 100 * |

| Mass Flow | Methanol Inlet lb/h | Methanol Inlet - 2 lb/h | Methanol Inlet - 2 - 2 lb/h | Methanol Inlet - 2 - 3 lb/h | Methanol Inlet - 2 - 4 lb/h |
|---|---|---|---|---|---|
| Methanol | 1.27896 * | 11.5716 * | 13.3987 * | 12.7896 * | 2.43612 * |

## Stream Properties

| Property | Units | Methanol Inlet | Methanol Inlet - 2 | Methanol Inlet - 2 - 2 | Methanol Inlet - 2 - 3 | Methanol Inlet - 2 - 4 |
|---|---|---|---|---|---|---|
| Temperature | °F | 75 * | 75 * | 75 * | 75 * | 75 * |
| Pressure | psia | 14.6959 * | 14.6959 * | 14.6959 * | 14.6959 * | 14.6959 * |
| Molecular Weight | lb/lbmol | 32.0419 | 32.0419 | 32.0419 | 32.0419 | 32.0419 |
| Mass Density | lb/ft^3 | 50.2444 | 50.2444 | 50.2444 | 50.2444 | 50.2444 |
| Mass Flow | lb/h | 1.27896 | 11.5716 | 13.3987 | 12.7896 | 2.43612 |
| Std Vapor Volumetric Flow | MMSCFD | 0.000363535 | 0.00328912 | 0.00380846 | 0.00363535 | 0.000692447 |
| Std Liquid Volumetric Flow | sgpm | 0.00321219 * | 0.0290627 * | 0.0336515 * | 0.0321219 * | 0.00611845 * |
| Specific Gravity | | 0.805602 | 0.805602 | 0.805602 | 0.805602 | 0.805602 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 866.7 | 866.7 | 866.7 | 866.7 | 866.7 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: 233201.0054 |
| Location: | Red Hills Gas Plant | |
| Flowsheet: | Flowsheet1 | |

## Connections

| | Methanol Out | Methanol Out - 2 | Methanol Out - 2 - 2 | Methanol Out - 2 - 3 | Methanol Out - 2 - 4 |
|---|---|---|---|---|---|
| From Block | 350 Gallon Tanks | 500 Gallon Tanks | 1000 Gallon Tanks | 1500 Gallon Tanks | 2000 Gallon Tanks |
| To Block | -- | -- | -- | -- | -- |

## Stream Composition

| Mole Fraction | Methanol Out % | Methanol Out - 2 % | Methanol Out - 2 - 2 % | Methanol Out - 2 - 3 % | Methanol Out - 2 - 4 % |
|---|---|---|---|---|---|
| Methanol | 100 | 100 | 100 | 100 | 100 |

| Mass Fraction | Methanol Out % | Methanol Out - 2 % | Methanol Out - 2 - 2 % | Methanol Out - 2 - 3 % | Methanol Out - 2 - 4 % |
|---|---|---|---|---|---|
| Methanol | 100 | 100 | 100 | 100 | 100 |

| Mass Flow | Methanol Out lb/h | Methanol Out - 2 lb/h | Methanol Out - 2 - 2 lb/h | Methanol Out - 2 - 3 lb/h | Methanol Out - 2 - 4 lb/h |
|---|---|---|---|---|---|
| Methanol | 1.27158 | 11.5025 | 13.316 | 12.7201 | 2.42207 |

## Stream Properties

| Property | Units | Methanol Out | Methanol Out - 2 | Methanol Out - 2 - 2 | Methanol Out - 2 - 3 | Methanol Out - 2 - 4 |
|---|---|---|---|---|---|---|
| Temperature | °F | 84.2119 | 84.6215 | 85.1872 | 84.8158 | 85.0499 |
| Pressure | psia | 12.88 | 12.88 | 12.88 | 12.88 | 12.88 |
| Molecular Weight | lb/lbmol | 32.0419 | 32.0419 | 32.0419 | 32.0419 | 32.0419 |
| Mass Density | lb/ft^3 | 49.8656 | 49.8487 | 49.8253 | 49.8407 | 49.831 |
| Mass Flow | lb/h | 1.27158 | 11.5025 | 13.316 | 12.7201 | 2.42207 |
| Std Vapor Volumetric Flow | MMSCFD | 0.000361434 | 0.00326948 | 0.00378496 | 0.00361557 | 0.000688452 |
| Std Liquid Volumetric Flow | sgpm | 0.00319363 | 0.0288891 | 0.0334439 | 0.0319472 | 0.00608316 |
| Specific Gravity | | 0.799528 | 0.799257 | 0.798883 | 0.799129 | 0.798974 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 866.7 | 866.7 | 866.7 | 866.7 | 866.7 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: 233201.0054 |
| Location: | Red Hills Gas Plant | |
| Flowsheet: | Flowsheet1 | |

## Connections

| | Total Methanol Emissions | Work | Work - 2 | Work - 2 - 2 | Work - 2 - 3 |
|---|---|---|---|---|---|
| From Block | MIX-105 | 350 Gallon Tanks | 500 Gallon Tanks | 1000 Gallon Tanks | 1500 Gallon Tanks |
| To Block | -- | MIX-100 | MIX-101 | MIX-102 | MIX-103 |

## Stream Composition

| Mole Fraction | Total Methanol Emissions % | Work % | Work - 2 % | Work - 2 - 2 % | Work - 2 - 3 % |
|---|---|---|---|---|---|
| Methanol | 100 | 100 | 100 | 100 | 100 |

| Mass Fraction | Total Methanol Emissions % | Work % | Work - 2 % | Work - 2 - 2 % | Work - 2 - 3 % |
|---|---|---|---|---|---|
| Methanol | 100 | 100 | 100 | 100 | 100 |

| Mass Flow | Total Methanol Emissions lb/h | Work lb/h | Work - 2 lb/h | Work - 2 - 2 lb/h | Work - 2 - 3 lb/h |
|---|---|---|---|---|---|
| Methanol | 0.242759 | 0.000307063 | 0.00280234 | 0.00328377 | 0.00300502 |

## Stream Properties

| Property | Units | Total Methanol Emissions | Work | Work - 2 | Work - 2 - 2 | Work - 2 - 3 |
|---|---|---|---|---|---|---|
| Temperature | °F | 84.8822 | 84.2119 | 84.6215 | 85.1872 | 84.8158 |
| Pressure | psia | 12.88 | 12.88 | 12.88 | 12.88 | 12.88 |
| Molecular Weight | lb/lbmol | 32.0419 | 32.0419 | 32.0419 | 32.0419 | 32.0419 |
| Mass Density | lb/ft^3 | 49.8379 | 49.8656 | 49.8487 | 49.8253 | 49.8407 |
| Mass Flow | lb/h | 0.242759 | 0.000307063 | 0.00280234 | 0.00328377 | 0.00300502 |
| Std Vapor Volumetric Flow | MMSCFD | 6.90022E-05 | 8.72799E-08 | 7.9654E-07 | 9.33383E-07 | 8.5415E-07 |
| Std Liquid Volumetric Flow | sgpm | 0.000609703 | 7.71205E-07 | 7.03822E-06 | 8.24736E-06 | 7.54726E-06 |
| Specific Gravity | | 0.799085 | 0.799528 | 0.799257 | 0.798883 | 0.799129 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 866.7 | 866.7 | 866.7 | 866.7 | 866.7 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: 233201.0054 |
| Location: | Red Hills Gas Plant | |
| Flowsheet: | Flowsheet1 | |

## Connections

| | Work - 2 - 4 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| From Block | 2000 Gallon Tanks | MIX-100 | MIX-101 | MIX-102 | MIX-103 |
| To Block | MIX-104 | MIX-101 | MIX-102 | MIX-105 | MIX-104 |

## Stream Composition

| Mole Fraction | Work - 2 - 4 % | 1 % | 2 % | 3 % | 4 % |
|---|---|---|---|---|---|
| Methanol | 100 | 100 | 100 | 100 | 100 |

| Mass Fraction | Work - 2 - 4 % | 1 % | 2 % | 3 % | 4 % |
|---|---|---|---|---|---|
| Methanol | 100 | 100 | 100 | 100 | 100 |

| Mass Flow | Work - 2 - 4 lb/h | 1 lb/h | 2 lb/h | 3 lb/h | 4 lb/h |
|---|---|---|---|---|---|
| Methanol | 0.000595323 | 0.00738932 | 0.0764809 | 0.159151 | 0.0695553 |

## Stream Properties

| Property | Units | Work - 2 - 4 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|
| Temperature | °F | 85.0499 | 84.2119 | 84.5819 | 84.8964 | 84.8158 |
| Pressure | psia | 12.88 | 12.88 | 12.88 | 12.88 | 12.88 |
| Molecular Weight | lb/lbmol | 32.0419 | 32.0419 | 32.0419 | 32.0419 | 32.0419 |
| Mass Density | lb/ft^3 | 49.831 | 49.8656 | 49.8503 | 49.8373 | 49.8407 |
| Mass Flow | lb/h | 0.000595323 | 0.00738932 | 0.0764809 | 0.159151 | 0.0695553 |
| Std Vapor Volumetric Flow | MMSCFD | 1.69215E-07 | 2.10035E-06 | 2.1739E-05 | 4.52374E-05 | 1.97705E-05 |
| Std Liquid Volumetric Flow | sgpm | 1.49519E-06 | 1.85587E-05 | 0.000192086 | 0.000399717 | 0.000174692 |
| Specific Gravity | | 0.798974 | 0.799528 | 0.799284 | 0.799076 | 0.799129 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 866.7 | 866.7 | 866.7 | 866.7 | 866.7 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: 233201.0054 |
| Location: | Red Hills Gas Plant | |
| Flowsheet: | Flowsheet1 | |

## Connections

| | 5 | | | | |
|---|---|---|---|---|---|
| From Block | MIX-104 | | | | |
| To Block | MIX-105 | | | | |

## Stream Composition

| **Mole Fraction** | 5<br>% | | | | |
|---|---|---|---|---|---|
| Methanol | 100 | | | | |

| **Mass Fraction** | 5<br>% | | | | |
|---|---|---|---|---|---|
| Methanol | 100 | | | | |

| **Mass Flow** | 5<br>lb/h | | | | |
|---|---|---|---|---|---|
| Methanol | 0.083608 | | | | |

## Stream Properties

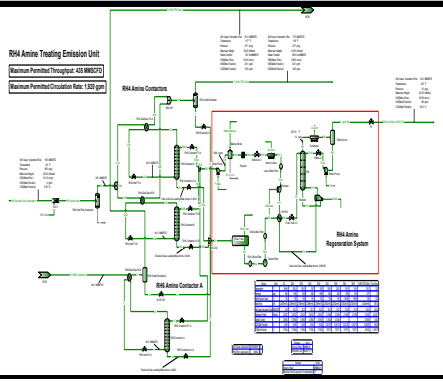
| **Property** | **Units** | **5** | | | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 84.8551 | | | | |
| Pressure | psia | 12.88 | | | | |
| Molecular Weight | lb/lbmol | 32.0419 | | | | |
| Mass Density | lb/ft^3 | 49.839 | | | | |
| Mass Flow | lb/h | 0.083608 | | | | |
| Std Vapor Volumetric Flow | MMSCFD | 2.37648E-05 | | | | |
| Std Liquid Volumetric Flow | sgpm | 0.000209986 | | | | |
| Specific Gravity | | 0.799103 | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 866.7 | | | | |

**Remarks**


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# RH4 Amine Treating
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH4 Amine Treating | |





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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH4 Amine Treating | | |

## Connections

| | Flash Gas | G_Acid Gas | RH4 Dry Inlet Gas Composition | R8 | To RH4 TEG Dehy |
|---|---|---|---|---|---|
| From Block | Flash Tank | Reflux Drum | -- | Still | RH4 Outlet Scrubber |
| To Block | -- | PV | SAT-1 | Condenser | -- |

## Stream Composition

| Mole Fraction | Flash Gas % | G_Acid Gas % | RH4 Dry Inlet Gas Composition % | R8 % | To RH4 TEG Dehy % |
|---|---|---|---|---|---|
| H2S | 0.00115526 | 0.00679881 | 0.0004 * | 0.00428264 | 9.13938E-07 |
| Helium | 0.000642547 | 8.46065E-08 | 0.0156755 * | 5.31942E-08 | 0.0165818 |
| Oxygen | 0.00297988 | 6.96585E-06 | 0.00484961 * | 4.37969E-06 | 0.00512428 |
| Argon | 0.00232042 | 4.14099E-06 | 0.00484961 * | 2.6036E-06 | 0.00512571 |
| N2 | 0.488119 | 0.000483399 | 1.79631 * | 0.000303928 | 1.89932 |
| CO2 | 22.941 | 93.4864 | 5.55 * | 58.8227 | 0.0408268 |
| C1 | 55.3227 | 0.194729 | 72.0072 * | 0.122433 | 76.0527 |
| C2 | 10.1291 | 0.0554469 | 11.1145 * | 0.0348616 | 11.7344 |
| C3 | 3.69277 | 0.0169645 | 5.57097 * | 0.0106662 | 5.88526 |
| iC4 | 0.377729 | 0.00142729 | 0.789163 * | 0.000897382 | 0.834036 |
| nC4 | 1.14863 | 0.0059205 | 1.83109 * | 0.00372243 | 1.93456 |
| iC5 | 0.112658 | 0.000253336 | 0.446066 * | 0.00015928 | 0.471665 |
| nC5 | 0.156304 | 0.000475107 | 0.465758 * | 0.000298714 | 0.492404 |
| Neopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylbutane | 0.00117403 | 2.97201E-06 | 0.00478299 * | 1.86859E-06 | 0.00505742 |
| 2,3-Dimethylbutane | 0.00270718 | 6.83169E-06 | 0.0109356 * | 4.29528E-06 | 0.0115632 |
| Cyclopentane | 0.0113461 | 0.000120992 | 0.0109356 * | 7.60747E-05 | 0.0115409 |
| 2-Methylpentane | 0.0222432 | 5.60116E-05 | 0.092506 * | 3.5216E-05 | 0.097816 |
| 3-Methylpentane | 0.0102795 | 2.58737E-05 | 0.0429479 * | 1.62675E-05 | 0.0454133 |
| Benzene | 0.0640015 | 0.0231362 | 0.0168169 * | 0.0145688 | 0.0164247 |
| Cyclohexane | 0.0386587 | 0.000609184 | 0.0348937 * | 0.000383027 | 0.0368057 |
| Methylcyclopentane | 0.0227718 | 0.000156059 | 0.0362359 * | 9.81208E-05 | 0.038282 |
| C6 | 0.0208022 | 5.21571E-05 | 0.0913274 * | 3.27926E-05 | 0.0965715 |
| 3-Methylhexane | 0.000901302 | 1.16717E-06 | 0.0088449 * | 7.33828E-07 | 0.00935508 |
| 2,2-Dimethylpentane | 9.42383E-05 | 1.22752E-07 | 0.000864112 * | 7.71775E-08 | 0.000913944 |
| 2,3-Dimethylpentane | 0.000197303 | 2.56185E-07 | 0.00188008 * | 1.6107E-07 | 0.00198851 |
| 2,4-Dimethylhexane | 4.51629E-05 | 7.76118E-08 | 0.000401685 * | 4.87966E-08 | 0.000424841 |
| Ethylcyclopentane | 0.000154649 | 8.12885E-07 | 0.000401685 * | 5.11091E-07 | 0.000424579 |
| 2,4-Dimethylpentane | 2.30737E-05 | 3.00238E-08 | 0.00020868 * | 1.88768E-08 | 0.000220715 |
| 2-Methylhexane | 0.000757051 | 9.80276E-07 | 0.00742235 * | 6.16326E-07 | 0.00785048 |
| 3-3-Dimethylpentane | 4.4245E-05 | 5.75726E-08 | 0.000415401 * | 3.61974E-08 | 0.000439357 |
| 1,cis-3-Dimethylcyclopentane | 0.000592275 | 2.99693E-06 | 0.00148672 * | 1.88427E-06 | 0.00157145 |
| 3-Ethylpentane | 0.0001559 | 2.01977E-07 | 0.00148672 * | 1.26989E-07 | 0.00157248 |
| Cycloheptane | 1.68725E-05 | 2.86608E-06 | 0 * | 1.80306E-06 | 0 |
| Methylcyclohexane | 0.00292648 | 1.98517E-05 | 0.00612226 * | 1.24815E-05 | 0.00646975 |
| 2,2-Dimethylhexane | 0.000717286 | 1.23376E-06 | 0.00612226 * | 7.75697E-07 | 0.00647518 |
| n-Heptane | 0.00111538 | 1.43747E-06 | 0.0116106 * | 9.03779E-07 | 0.0122805 |
| Toluene | 0.01538 | 0.00555445 | 0.00484079 * | 0.00349627 | 0.00478794 |
| trans-1,2-Dimethylcyclopentane | 0.000149828 | 7.80538E-07 | 0.000362986 * | 4.90753E-07 | 0.000383661 |
| cis-1,2-Dimethylcyclopentane | 0.000162189 | 9.78258E-07 | 0.000362986 * | 6.15069E-07 | 0.000383617 |
| trans-1,3-Dimethylcyclopentane | 0.00104178 | 5.60042E-06 | 0.00250808 * | 3.52119E-06 | 0.00265087 |
| 1-Ethyl-1-Methylcyclopentane | 0.000188236 | 1.13297E-05 | 0.000122465 * | 7.12457E-06 | 0.000128449 |
| 2,2,3-Trimethylpentane | 5.85989E-05 | 9.4598E-08 | 0.000531987 * | 5.94762E-08 | 0.000562659 |
| 2,3,4-Trimethylpentane | 3.45743E-05 | 5.57116E-08 | 0.000318409 * | 3.50273E-08 | 0.000336768 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylheptane | 8.40497E-05 | 1.43614E-07 | 0.000827862 * | 9.02942E-08 | 0.000875597 |
| 4-Methylheptane | 8.42322E-05 | 1.4403E-07 | 0.000827862 * | 9.05556E-08 | 0.000875596 |
| 3,3-Dimethylhexane | 2.12006E-05 | 3.6457E-08 | 0.000188106 * | 2.29215E-08 | 0.00019895 |
| 3-Methylheptane | 3.79679E-05 | 6.48815E-08 | 0.000369354 * | 4.07927E-08 | 0.000390651 |
| cis-1,2-Dimethylcyclohexane | 0.000272751 | 1.58822E-06 | 0.000908199 * | 9.98564E-07 | 0.000960062 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH4 Amine Treating | |

## Stream Composition

| Mole Fraction | Flash Gas % | G_Acid Gas % | RH4 Dry Inlet Gas Composition % | R8 % | To RH4 TEG Dehy % |
|---|---|---|---|---|---|
| cis-1,3-Dimethylcyclohexane | 3.16529E-05 | 1.56158E-07 | 0.000123445 * | 9.81816E-08 | 0.000130506 |
| Cyclooctane | 0 | 0 | 0 * | 0 | 0 |
| Ethylbenzene | 0.00031906 | 9.02928E-05 | 0.000151856 * | 5.68229E-05 | 0.000153646 |
| Ethylcyclohexane | 6.84536E-05 | 5.10926E-07 | 0.00017243 * | 3.21237E-07 | 0.000182239 |
| m-Xylene | 0.000298527 | 0.000109746 | 0.00014059 * | 6.90972E-05 | 0.000140775 |
| p-Xylene | 0.000304184 | 0.000111968 | 0.00014059 * | 7.04964E-05 | 0.000140645 |
| n-Octane | 7.32305E-05 | 1.16633E-07 | 0.000807288 * | 7.33303E-08 | 0.000853857 |
| o-Xylene | 0.000186187 | 6.84121E-05 | 9.79719E-05 * | 4.30732E-05 | 9.81568E-05 |
| trans-1,3-Dimethylcyclohexane | 3.51879E-05 | 1.88163E-07 | 0.000112668 * | 1.18304E-07 | 0.000119107 |
| 1,1,2-Trimethylcyclohexane | 4.31839E-06 | 7.11521E-08 | 0 * | 4.47368E-08 | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylhexane | 1.72614E-07 | 0 | 0 * | 0 | 0 |
| 2,2,4-Trimethylhexane | 3.86187E-06 | 0 | 0.000164593 * | 0 | 0.000174114 |
| 2,2-Dimethylheptane | 1.84083E-07 | 0 | 0 * | 0 | 0 |
| 2,3,4-Trimethylhexane | 1.76706E-06 | 0 | 4.60468E-05 * | 0 | 4.87082E-05 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylheptane | 2.86474E-06 | 1.85E-09 | 8.32761E-05 * | 1.16314E-09 | 8.8091E-05 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| Isopropylbenzene | 7.88902E-08 | 1.84767E-08 | 0 * | 1.16248E-08 | 0 |
| 1,1,3-Trimethylcyclopentane | 1.36714E-07 | 6.13258E-09 | 0 * | 3.85619E-09 | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| n-Nonane | 1.70625E-06 | 0 | 6.17223E-05 * | 0 | 6.5291E-05 |
| Propylbenzene | 0 | 0 | 0 * | 0 | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 | 0 |
| n-Decane | 2.89584E-07 | 0 | 4.70265E-05 * | 0 | 4.97483E-05 |
| nC11 | 1.54814E-07 | 0 | 6.17223E-05 * | 0 | 6.52953E-05 |
| nC12 | 2.50548E-07 | 0 | 5.19251E-05 * | 0 | 5.49306E-05 |
| nC13 | 6.28469E-07 | 0 | 5.97628E-05 * | 0 | 6.32209E-05 |
| nC14 | 6.99148E-07 | 0 | 4.01685E-05 * | 0 | 4.24919E-05 |
| nC15 | 0 | 0 | 0 * | 0 | 0 |
| H2O | 5.40239 | 6.20098 | 0 * | 40.9585 | 0.203488 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 0.000887724 | 2.63168E-08 | 0 * | 0.0151091 | 1.01297E-06 |
| Piperazine | 8.11982E-05 | 2.68241E-08 | 0 * | 0.0070714 | 4.3386E-06 |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH4 Dry Inlet Gas Composition % | R8 % | To RH4 TEG Dehy % |
|---|---|---|---|---|---|
| H2S | 0.00151288 | 0.00547166 | 0.00059702 * | 0.00437711 | 1.44258E-06 |
| Helium | 9.88243E-05 | 7.9969E-09 | 0.00274778 * | 6.38517E-09 | 0.00307387 |
| Oxygen | 0.00366395 | 5.26361E-06 | 0.00679607 * | 4.20284E-06 | 0.00759415 |
| Argon | 0.00356186 | 3.90639E-06 | 0.00848437 * | 3.11914E-06 | 0.00948335 |
| N2 | 0.525421 | 0.000319777 | 2.20377 * | 0.00025533 | 2.46421 |
| CO2 | 38.7949 | 97.1562 | 10.6969 * | 77.6349 | 0.0832156 |
| C1 | 34.1028 | 0.0737696 | 50.59 * | 0.0589029 | 56.5065 |
| C2 | 11.7033 | 0.0393706 | 14.6362 * | 0.0314364 | 16.3416 |
| C3 | 6.25697 | 0.017665 | 10.7583 * | 0.0141049 | 12.0192 |
| iC4 | 0.843604 | 0.00195898 | 2.00875 * | 0.00156417 | 2.24512 |
| nC4 | 2.56529 | 0.008126 | 4.66091 * | 0.00648834 | 5.20758 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH4 Amine Treating | | |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH4 Dry Inlet Gas Composition % | R8 % | To RH4 TEG Dehy % |
|---|---|---|---|---|---|
| iC5 | 0.312327 | 0.00043162 | 1.40944 * | 0.000344632 | 1.57607 |
| nC5 | 0.433328 | 0.000809461 | 1.47166 * | 0.000646325 | 1.64537 |
| Neopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylbutane | 0.00388758 | 6.04796E-06 | 0.018051 * | 4.82905E-06 | 0.0201848 |
| 2,3-Dimethylbutane | 0.00896432 | 1.39023E-05 | 0.0412709 * | 1.11004E-05 | 0.0461504 |
| Cyclopentane | 0.0305762 | 0.00020038 | 0.0335879 * | 0.000160003 | 0.0374866 |
| 2-Methylpentane | 0.0736541 | 0.000113982 | 0.349117 * | 9.10101E-05 | 0.390397 |
| 3-Methylpentane | 0.0340385 | 5.26523E-05 | 0.162085 * | 4.20407E-05 | 0.18125 |
| Benzene | 0.192098 | 0.0426762 | 0.0575281 * | 0.0341276 | 0.0594191 |
| Cyclohexane | 0.125016 | 0.00121068 | 0.128608 * | 0.000966714 | 0.14346 |
| Methylcyclopentane | 0.0736406 | 0.000310147 | 0.133555 * | 0.000247645 | 0.149214 |
| C6 | 0.0688826 | 0.000106138 | 0.344669 * | 8.47471E-05 | 0.38543 |
| 3-Methylhexane | 0.00347026 | 2.76175E-06 | 0.0388139 * | 2.20514E-06 | 0.0434147 |
| 2,2-Dimethylpentane | 0.000362844 | 2.90456E-07 | 0.00379196 * | 2.31917E-07 | 0.00424139 |
| 2,3-Dimethylpentane | 0.000759671 | 6.06186E-07 | 0.00825031 * | 4.84014E-07 | 0.00922822 |
| 2,4-Dimethylhexane | 0.000198231 | 2.09352E-07 | 0.00200945 * | 1.67159E-07 | 0.00224757 |
| Ethylcyclopentane | 0.000583463 | 1.88475E-06 | 0.00172724 * | 1.50492E-06 | 0.00193073 |
| 2,4-Dimethylpentane | 8.88401E-05 | 7.10425E-08 | 0.000915746 * | 5.67244E-08 | 0.00102428 |
| 2-Methylhexane | 0.00291486 | 2.31953E-06 | 0.0325713 * | 1.85205E-06 | 0.0364322 |
| 3-3-Dimethylpentane | 0.000170356 | 1.36228E-07 | 0.00182289 * | 1.08773E-07 | 0.00203895 |
| 1,cis-3-Dimethylcyclopentane | 0.00223455 | 6.94867E-06 | 0.0063929 * | 5.5483E-06 | 0.007146 |
| 3-Ethylpentane | 0.00060026 | 4.7792E-07 | 0.00652415 * | 3.81598E-07 | 0.00729749 |
| Cycloheptane | 6.36571E-05 | 6.64528E-06 | 0 * | 5.30917E-06 | 0 |
| Methylcyclohexane | 0.0110411 | 4.6028E-05 | 0.0263257 * | 3.67521E-05 | 0.0294205 |
| 2,2-Dimethylhexane | 0.00314835 | 3.32798E-06 | 0.030627 * | 2.65725E-06 | 0.0342562 |
| n-Heptane | 0.00429451 | 3.40136E-06 | 0.0509507 * | 2.71584E-06 | 0.0569907 |
| Toluene | 0.054452 | 0.0120853 | 0.0195333 * | 0.00966076 | 0.0204316 |
| trans-1,2-Dimethylcyclopentane | 0.000565275 | 1.80975E-06 | 0.00156084 * | 1.44503E-06 | 0.00174466 |
| cis-1,2-Dimethylcyclopentane | 0.000611909 | 2.26819E-06 | 0.00156084 * | 1.81109E-06 | 0.00174446 |
| trans-1,3-Dimethylcyclopentane | 0.00393046 | 1.29851E-05 | 0.0107847 * | 1.03682E-05 | 0.0120546 |
| 1-Ethyl-1-Methylcyclopentane | 0.000811636 | 3.00217E-05 | 0.000601826 * | 2.39754E-05 | 0.000667552 |
| 2,2,3-Trimethylpentane | 0.000257206 | 2.55172E-07 | 0.0026613 * | 2.03743E-07 | 0.00297669 |
| 2,3,4-Trimethylpentane | 0.000151755 | 1.50278E-07 | 0.00159286 * | 1.19991E-07 | 0.00178163 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylheptane | 0.000368916 | 3.8739E-07 | 0.00414143 * | 3.09314E-07 | 0.00463225 |
| 4-Methylheptane | 0.000369716 | 3.88512E-07 | 0.00414143 * | 3.1021E-07 | 0.00463224 |
| 3,3-Dimethylhexane | 9.30548E-05 | 9.83402E-08 | 0.000941012 * | 7.85204E-08 | 0.00105252 |
| 3-Methylheptane | 0.000166651 | 1.75013E-07 | 0.00184772 * | 1.39741E-07 | 0.00206669 |
| cis-1,2-Dimethylcyclohexane | 0.00117605 | 4.2085E-06 | 0.00446314 * | 3.36034E-06 | 0.00498946 |
| cis-1,3-Dimethylcyclohexane | 0.000136481 | 4.13793E-07 | 0.000606641 * | 3.30398E-07 | 0.000678244 |
| Cyclooctane | 0 | 0 | 0 * | 0 | 0 |
| Ethylbenzene | 0.00130158 | 0.000226366 | 0.000706045 * | 0.000180913 | 0.000755467 |
| Ethylcyclohexane | 0.000295158 | 1.35387E-06 | 0.000847371 * | 1.08102E-06 | 0.000947102 |
| m-Xylene | 0.00121781 | 0.000275134 | 0.000653661 * | 0.000219992 | 0.00069218 |
| p-Xylene | 0.00124089 | 0.000280705 | 0.000653661 * | 0.000224447 | 0.000691541 |
| n-Octane | 0.000321427 | 3.1461E-07 | 0.00403851 * | 2.51202E-07 | 0.00451723 |
| o-Xylene | 0.000759532 | 0.00017151 | 0.000455513 * | 0.000137137 | 0.00048263 |
| trans-1,3-Dimethylcyclohexane | 0.000151723 | 4.98598E-07 | 0.00055368 * | 3.98113E-07 | 0.000619003 |
| 1,1,2-Trimethylcyclohexane | 2.09475E-05 | 2.12108E-07 | 0 * | 1.69366E-07 | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylhexane | 8.5068E-07 | 0 | 0 * | 0 | 0 |
| 2,2,4-Trimethylhexane | 1.90322E-05 | 0 | 0.000924492 * | 0 | 0.00103424 |
| 2,2-Dimethylheptane | 9.07203E-07 | 0 | 0 * | 0 | 0 |
| 2,3,4-Trimethylhexane | 8.70845E-06 | 0 | 0.000258638 * | 0 | 0.000289327 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylheptane | 1.41181E-05 | 5.60301E-09 | 0.000467749 * | 4.47375E-09 | 0.000523262 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH4 Amine Treating | | |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH4 Dry Inlet Gas Composition % | R8 % | To RH4 TEG Dehy % |
|---|---|---|---|---|---|
| 2-Methyloctane | 0 | 0 | 0 * | 0 | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| Isopropylbenzene | 3.64345E-07 | 5.24413E-08 | 0 * | 4.19012E-08 | 0 |
| 1,1,3-Trimethylcyclopentane | 5.89481E-07 | 1.62503E-08 | 0 * | 1.29767E-08 | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| n-Nonane | 8.40877E-06 | 0 | 0.000346684 * | 0 | 0.000387829 |
| Propylbenzene | 0 | 0 | 0 * | 0 | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 | 0 |
| n-Decane | 1.58322E-06 | 0 | 0.000293028 * | 0 | 0.000327823 |
| nC11 | 9.29837E-07 | 0 | 0.000422515 * | 0 | 0.00047269 |
| nC12 | 1.63987E-06 | 0 | 0.000387346 * | 0 | 0.000433342 |
| nC13 | 4.45215E-06 | 0 | 0.000482524 * | 0 | 0.000539814 |
| nC14 | 5.32968E-06 | 0 | 0.000348994 * | 0 | 0.000390422 |
| nC15 | 0 | 0 | 0 * | 0 | 0 |
| H2O | 3.73976 | 2.63801 | 0 * | 22.1284 | 0.169782 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 0.00406474 | 7.40539E-08 | 0 * | 0.0539937 | 5.59045E-06 |
| Piperazine | 0.000268748 | 5.45612E-08 | 0 * | 0.0182664 | 1.73079E-05 |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH4 Dry Inlet Gas Composition lb/h | R8 lb/h | To RH4 TEG Dehy lb/h |
|---|---|---|---|---|---|
| H2S | 0.022632 | 4.13186 | 2.76822 * | 4.13965 | 0.0059788 |
| Helium | 0.00147836 | 6.03876E-06 | 12.7407 * | 6.03876E-06 | 12.7397 |
| Oxygen | 0.0548109 | 0.00397475 | 31.5116 * | 0.00397483 | 31.4741 |
| Argon | 0.0532838 | 0.00294986 | 39.3397 * | 0.00294992 | 39.3039 |
| N2 | 7.86005 | 0.241476 | 10218.3 * | 0.241478 | 10213 |
| CO2 | 580.352 | 73366.3 | 49598.6 * | 73423.1 | 344.889 |
| C1 | 510.162 | 55.7062 | 234572 * | 55.7073 | 234192 |
| C2 | 175.076 | 29.7302 | 67864.1 * | 29.7309 | 67728 |
| C3 | 93.6013 | 13.3395 | 49883.4 * | 13.3397 | 49813.6 |
| iC4 | 12.6199 | 1.4793 | 9314.05 * | 1.47932 | 9304.94 |
| nC4 | 38.3755 | 6.13624 | 21611.4 * | 6.13634 | 21582.9 |
| iC5 | 4.67226 | 0.325932 | 6535.18 * | 0.325935 | 6532.05 |
| nC5 | 6.48237 | 0.611255 | 6823.69 * | 0.611261 | 6819.26 |
| Neopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylbutane | 0.0581563 | 0.00456704 | 83.6974 * | 0.00456707 | 83.6564 |
| 2,3-Dimethylbutane | 0.134102 | 0.0104982 | 191.362 * | 0.0104982 | 191.271 |
| Cyclopentane | 0.457405 | 0.151315 | 155.738 * | 0.151323 | 155.364 |
| 2-Methylpentane | 1.10183 | 0.0860722 | 1618.76 * | 0.0860727 | 1618.01 |
| 3-Methylpentane | 0.5092 | 0.0397597 | 751.545 * | 0.0397599 | 751.195 |
| Benzene | 2.8737 | 32.2264 | 266.742 * | 32.2761 | 246.264 |
| Cyclohexane | 1.87018 | 0.914226 | 596.32 * | 0.914268 | 594.573 |
| Methylcyclopentane | 1.10163 | 0.234204 | 619.258 * | 0.23421 | 618.421 |
| C6 | 1.03045 | 0.080149 | 1598.14 * | 0.0801495 | 1597.42 |
| 3-Methylhexane | 0.0519135 | 0.0020855 | 179.969 * | 0.00208551 | 179.933 |
| 2,2-Dimethylpentane | 0.00542797 | 0.000219335 | 17.5823 * | 0.000219335 | 17.5785 |
| 2,3-Dimethylpentane | 0.0113643 | 0.000457754 | 38.2545 * | 0.000457755 | 38.2465 |
| 2,4-Dimethylhexane | 0.00296545 | 0.00015809 | 9.31729 * | 0.00015809 | 9.3151 |
| Ethylcyclopentane | 0.00872832 | 0.00142325 | 8.00875 * | 0.00142328 | 8.00195 |
| 2,4-Dimethylpentane | 0.00132901 | 5.36468E-05 | 4.24607 * | 5.3647E-05 | 4.24516 |
| 2-Methylhexane | 0.0436049 | 0.00175157 | 151.024 * | 0.00175157 | 150.994 |
| 3-3-Dimethylpentane | 0.00254844 | 0.000102871 | 8.45226 * | 0.000102872 | 8.45047 |
| 1,cis-3-Dimethylcyclopentane | 0.0334278 | 0.0052472 | 29.6421 * | 0.0052473 | 29.6167 |
| 3-Ethylpentane | 0.00897959 | 0.000360895 | 30.2507 * | 0.000360896 | 30.2446 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH4 Amine Treating | | |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH4 Dry Inlet Gas Composition lb/h | R8 lb/h | To RH4 TEG Dehy lb/h |
|---|---|---|---|---|---|
| Cycloheptane | 0.000952279 | 0.0050181 | 0 * | 0.00502114 | 0 |
| Methylcyclohexane | 0.165169 | 0.0347575 | 122.065 * | 0.0347582 | 121.934 |
| 2,2-Dimethylhexane | 0.0470978 | 0.00251309 | 142.009 * | 0.00251309 | 141.975 |
| n-Heptane | 0.0642438 | 0.00256849 | 236.245 * | 0.0025685 | 236.199 |
| Toluene | 0.814576 | 9.12607 | 90.5705 * | 9.13666 | 84.6792 |
| trans-1,2-Dimethylcyclopentane | 0.00845625 | 0.00136661 | 7.23718 * | 0.00136664 | 7.23077 |
| cis-1,2-Dimethylcyclopentane | 0.00915387 | 0.00171279 | 7.23718 * | 0.00171283 | 7.22994 |
| trans-1,3-Dimethylcyclopentane | 0.0587978 | 0.00980555 | 50.0059 * | 0.00980576 | 49.9603 |
| 1-Ethyl-1-Methylcyclopentane | 0.0121417 | 0.0226705 | 2.79051 * | 0.0226747 | 2.76668 |
| 2,2,3-Trimethylpentane | 0.00384767 | 0.00019269 | 12.3397 * | 0.00019269 | 12.3369 |
| 2,3,4-Trimethylpentane | 0.00227018 | 0.000113481 | 7.38565 * | 0.000113481 | 7.38401 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylheptane | 0.0055188 | 0.000292533 | 19.2027 * | 0.000292534 | 19.1984 |
| 4-Methylheptane | 0.00553078 | 0.00029338 | 19.2027 * | 0.000293381 | 19.1984 |
| 3,3-Dimethylhexane | 0.00139205 | 7.42604E-05 | 4.36322 * | 7.42606E-05 | 4.36219 |
| 3-Methylheptane | 0.00249302 | 0.000132159 | 8.56736 * | 0.00013216 | 8.56545 |
| cis-1,2-Dimethylcyclohexane | 0.0175931 | 0.003178 | 20.6944 * | 0.00317804 | 20.6789 |
| cis-1,3-Dimethylcyclohexane | 0.00204169 | 0.00031247 | 2.81283 * | 0.000312474 | 2.81099 |
| Cyclooctane | 0 | 0 | 0 * | 0 | 0 |
| Ethylbenzene | 0.019471 | 0.170937 | 3.27374 * | 0.171098 | 3.13105 |
| Ethylcyclohexane | 0.00441542 | 0.00102235 | 3.92903 * | 0.00102237 | 3.92528 |
| m-Xylene | 0.0182179 | 0.207764 | 3.03085 * | 0.208058 | 2.86875 |
| p-Xylene | 0.0185632 | 0.211971 | 3.03085 * | 0.212271 | 2.8661 |
| n-Octane | 0.0048084 | 0.000237574 | 18.7255 * | 0.000237574 | 18.7218 |
| o-Xylene | 0.0113622 | 0.129514 | 2.11209 * | 0.129697 | 2.00027 |
| trans-1,3-Dimethylcyclohexane | 0.0022697 | 0.00037651 | 2.56726 * | 0.000376515 | 2.56547 |
| 1,1,2-Trimethylcyclohexane | 0.000313365 | 0.000160171 | 0 * | 0.000160177 | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylhexane | 1.27258E-05 | 0 | 0 * | 0 | 0 |
| 2,2,4-Trimethylhexane | 0.000284712 | 0 | 4.28662 * | 0 | 4.28641 |
| 2,2-Dimethylheptane | 1.35713E-05 | 0 | 0 * | 0 | 0 |
| 2,3,4-Trimethylhexane | 0.000130274 | 0 | 1.19923 * | 0 | 1.19912 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylheptane | 0.0002112 | 4.23104E-06 | 2.16883 * | 4.23105E-06 | 2.16867 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| Isopropylbenzene | 5.45043E-06 | 3.96004E-05 | 0 * | 3.9628E-05 | 0 |
| 1,1,3-Trimethylcyclopentane | 8.81835E-06 | 1.22712E-05 | 0 * | 1.22727E-05 | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| n-Nonane | 0.000125791 | 0 | 1.60748 * | 0 | 1.60737 |
| Propylbenzene | 0 | 0 | 0 * | 0 | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 | 0 |
| n-Decane | 2.36842E-05 | 0 | 1.35869 * | 0 | 1.35867 |
| nC11 | 1.39099E-05 | 0 | 1.95909 * | 0 | 1.95907 |
| nC12 | 2.45317E-05 | 0 | 1.79602 * | 0 | 1.79599 |
| nC13 | 6.66021E-05 | 0 | 2.23733 * | 0 | 2.23727 |
| nC14 | 7.97294E-05 | 0 | 1.61819 * | 0 | 1.61811 |
| nC15 | 0 | 0 | 0 * | 0 | 0 |
| H2O | 55.945 | 1992.06 | 0 * | 20928 | 703.665 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 0.0608066 | 5.59209E-05 | 0 * | 51.0645 | 0.0231697 |
| Piperazine | 0.00402034 | 4.12012E-05 | 0 * | 17.2755 | 0.071733 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH4 Amine Treating | | |

## Stream Properties

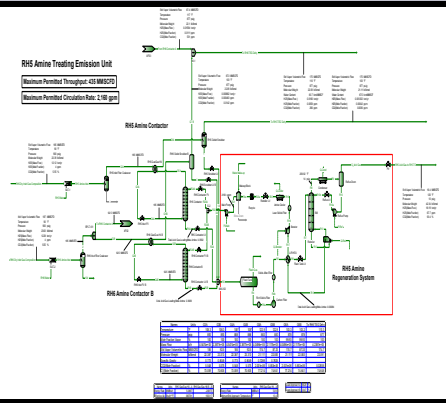
| Property | Units | Flash Gas | G_Acid Gas | RH4 Dry Inlet Gas Composition | | R8 | To RH4 TEG Dehy |
|---|---|---|---|---|---|---|---|
| Temperature | °F | 171.178 | 119.999 | 90 | * | 207.013 | 116.079 |
| Pressure | psig | 85 | 13 | 900 | * | 14 | 877 |
| Molecular Weight | lb/lbmol | 26.0246 | 42.3471 | 22.834 | | 33.3453 | 21.5917 |
| Mass Density | lb/ft^3 | 0.389272 | 0.190183 | 4.46619 | | 0.134874 | 3.73652 |
| Mass Flow | lb/h | 1495.95 | 75513.8 | 463673 | | 94574.9 | 414452 |
| Std Vapor Volumetric Flow | MMSCFD | 0.523526 | 16.2408 | 184.942 | | 25.8313 | 174.82 |
| Std Liquid Volumetric Flow | sgpm | 6.54299 | 184.192 | 2458.3 | | 222.331 | 2335.39 |
| Specific Gravity | | 0.898561 | 1.46214 | 0.788399 | | 1.15133 | 0.745506 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 903.812 | 7.98924 | 1205.21 | | 24.5018 | 1273 |

**Remarks**


ProMax 6.0.24240.0
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# RH5 Amine Treating
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH5 Amine Treating | |





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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH5 Amine Treating | | |

## Connections

| | Flash Gas | RH5 Dry Inlet Gas Composition | RH6 Dry Inlet Gas Composition | R8 | To RH5 TEG Dehy |
|---|---|---|---|---|---|
| From Block | Flash Tank | -- | -- | Still | RH5 Outlet Scrubber |
| To Block | -- | SAT-1 | SAT-2 | Condenser | -- |

## Stream Composition

| Mole Fraction | Flash Gas % | RH5 Dry Inlet Gas Composition % | RH6 Dry Inlet Gas Composition % | R8 % | To RH5 TEG Dehy % |
|---|---|---|---|---|---|
| H2S | 0.000994763 | 0.0004 * | 0.0004 * | 0.00409235 | 4.20231E-08 |
| Helium | 0.000695753 | 0.0163338 * | 0.0160778 * | 6.45909E-08 | 0.0173012 |
| Oxygen | 0.00214455 | 0.00254298 * | 0.00544096 * | 3.45997E-06 | 0.00269013 |
| Argon | 0.00162697 | 0.00254298 * | 0.00544096 * | 1.94902E-06 | 0.00269108 |
| N2 | 0.48611 | 1.75827 * | 1.84757 * | 0.000324792 | 1.86149 |
| CO2 | 18.0808 | 5.55 * | 5.55 * | 56.4038 | 3.60206E-07 |
| C1 | 58.8614 | 73.0817 * | 70.0375 * | 0.146001 | 77.2688 |
| C2 | 10.9 | 11.0608 * | 11.3365 * | 0.0430548 | 11.6882 |
| C3 | 3.91922 | 5.29664 * | 6.11917 * | 0.013125 | 5.60108 |
| iC4 | 0.389956 | 0.697461 * | 0.925356 * | 0.00108752 | 0.737922 |
| nC4 | 1.14112 | 1.54486 * | 2.23873 * | 0.0042997 | 1.6338 |
| iC5 | 0.105257 | 0.337336 * | 0.609682 * | 0.000170984 | 0.357134 |
| nC5 | 0.144618 | 0.343009 * | 0.65968 * | 0.000319488 | 0.363061 |
| Neopentane | 0 | 0 * | 0 * | 0 | 0 |
| 2,2-Dimethylbutane | 0.00104992 | 0.0031621 * | 0.0063174 * | 2.00246E-06 | 0.00334754 |
| 2,3-Dimethylbutane | 0.00271425 | 0.00870433 * | 0.0167155 * | 5.16088E-06 | 0.00921495 |
| Cyclopentane | 0.0107031 | 0.00870433 * | 0.0167155 * | 8.17783E-05 | 0.00919326 |
| 2-Methylpentane | 0.0207219 | 0.064846 * | 0.139077 * | 3.93179E-05 | 0.0686508 |
| 3-Methylpentane | 0.00964969 | 0.0305226 * | 0.0654739 * | 1.83016E-05 | 0.0323136 |
| Benzene | 0.0643794 | 0.0157293 * | 0.0328693 * | 0.0168889 | 0.0150323 |
| Cyclohexane | 0.0386181 | 0.0295993 * | 0.0612799 * | 0.000451323 | 0.0312368 |
| Methylcyclopentane | 0.0213936 | 0.0275825 * | 0.0599917 * | 0.000106947 | 0.0291688 |
| C6 | 0.0193583 | 0.0641202 * | 0.140143 * | 3.65755E-05 | 0.0678841 |
| 3-Methylhexane | 0.000857154 | 0.00655502 * | 0.0142073 * | 8.29425E-07 | 0.00694204 |
| 2,2-Dimethylpentane | 8.68971E-05 | 0.000607381 * | 0.0012676 * | 8.45698E-08 | 0.000643233 |
| 2,3-Dimethylpentane | 0.000192869 | 0.00145634 * | 0.0029842 * | 1.87118E-07 | 0.00154232 |
| 2,4-Dimethylhexane | 5.08875E-05 | 0.000373622 * | 0.000724971 * | 6.68371E-08 | 0.000395662 |
| Ethylcyclopentane | 0.000164894 | 0.000373622 * | 0.000724971 * | 6.3376E-07 | 0.000395357 |
| 2,4-Dimethylpentane | 2.17269E-05 | 0.000150623 * | 0.00033332 * | 2.11236E-08 | 0.000159514 |
| 2-Methylhexane | 0.000707709 | 0.0053471 * | 0.0116191 * | 6.84753E-07 | 0.00566281 |
| 3-3-Dimethylpentane | 4.196E-05 | 0.000307114 * | 0.000623505 * | 4.07943E-08 | 0.000325243 |
| 1,cis-3-Dimethylcyclopentane | 0.000584686 | 0.00122161 * | 0.00260186 * | 2.16773E-06 | 0.00129266 |
| 3-Ethylpentane | 0.0001586 | 0.00122161 * | 0.00260186 * | 1.53536E-07 | 0.00129373 |
| Cycloheptane | 6.06228E-05 | 2.64079E-05 * | 4.60766E-05 * | 7.55145E-06 | 2.69936E-05 |
| Methylcyclohexane | 0.00321465 | 0.00590656 * | 0.0117128 * | 1.61128E-05 | 0.00624826 |
| 2,2-Dimethylhexane | 0.000828959 | 0.00590656 * | 0.0117128 * | 1.08975E-06 | 0.00625496 |
| n-Heptane | 0.00110044 | 0.00914299 * | 0.0191924 * | 1.05984E-06 | 0.00968291 |
| Toluene | 0.019011 | 0.00622443 * | 0.012126 * | 0.00508709 | 0.00603027 |
| trans-1,2-Dimethylcyclopentane | 0.000145366 | 0.000290487 * | 0.000634779 * | 5.5382E-07 | 0.000307372 |
| cis-1,2-Dimethylcyclopentane | 0.00015658 | 0.000290487 * | 0.000634779 * | 6.89751E-07 | 0.000307326 |
| trans-1,3-Dimethylcyclopentane | 0.000994246 | 0.0019669 * | 0.00438708 * | 3.90189E-06 | 0.00208116 |
| 1-Ethyl-1-Methylcyclopentane | 0.000258871 | 0.000171162 * | 0.000263715 * | 1.15376E-05 | 0.000179298 |
| 2,2,3-Trimethylpentane | 6.61267E-05 | 0.000502727 * | 0.000976432 * | 8.08057E-08 | 0.00053239 |
| 2,3,4-Trimethylpentane | 4.03735E-05 | 0.000315916 * | 0.000622524 * | 4.92464E-08 | 0.000334558 |
| 2,5-Dimethylhexane | 0 | 0 * | 0 * | 0 | 0 |
| 2-Methylheptane | 0.000100774 | 0.000837716 * | 0.00141563 * | 1.31616E-07 | 0.000887146 |
| 4-Methylheptane | 0.00010098 | 0.000837716 * | 0.00141563 * | 1.3198E-07 | 0.000887144 |
| 3,3-Dimethylhexane | 2.59257E-05 | 0.000196592 * | 0.000343124 * | 3.40735E-08 | 0.000208188 |
| 3-Methylheptane | 4.68919E-05 | 0.000389271 * | 0.000681346 * | 6.12496E-08 | 0.000412241 |
| cis-1,2-Dimethylcyclohexane | 0.000308233 | 0.000883196 * | 0.00159798 * | 1.34832E-06 | 0.000934665 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH5 Amine Treating | |

## Stream Composition

| Mole Fraction | Flash Gas % | RH5 Dry Inlet Gas Composition % | RH6 Dry Inlet Gas Composition % | R8 % | To RH5 TEG Dehy % |
|---|---|---|---|---|---|
| cis-1,3-Dimethylcyclohexane | 4.37E-05 | 0.000153557 * | 0.00016568 * | 1.62316E-07 | 0.000162526 |
| Cyclooctane | 0 | 0 * | 0 * | 0 | 0 |
| Ethylbenzene | 0.000552211 | 0.00027875 * | 0.00027646 * | 0.000114347 | 0.00027858 |
| Ethylcyclohexane | 0.000120232 | 0.000304179 * | 0.000419591 * | 6.73731E-07 | 0.000321817 |
| m-Xylene | 0.000439802 | 0.000216153 * | 0.000313223 * | 0.000117614 | 0.000213121 |
| p-Xylene | 0.000447819 | 0.000216153 * | 0.000313223 * | 0.000119921 | 0.000212852 |
| n-Octane | 0.000103138 | 0.0010211 * | 0.00158131 * | 1.24374E-07 | 0.00108139 |
| o-Xylene | 0.000251504 | 0.000131061 * | 0.000151955 * | 6.72243E-05 | 0.000129319 |
| trans-1,3-Dimethylcyclohexane | 1.28195E-05 | 0 * | 0.000256853 * | 5.15449E-08 | 0 |
| 1,1,2-Trimethylcyclohexane | 3.39574E-05 | 5.47719E-05 * | 5.29391E-05 * | 4.21156E-07 | 5.78669E-05 |
| 1,2,3-Trimethylbenzene | 7.69371E-05 | 5.08596E-05 * | 0 * | 3.48748E-05 | 4.82023E-05 |
| 1,2,4-Trimethylbenzene | 0 | 0 * | 0 * | 0 | 0 |
| tert-Butylbenzene | 0 | 0 * | 0 * | 0 | 0 |
| 1,3,5-Trimethylbenzene | 9.71341E-05 | 7.33552E-05 * | 0 * | 1.9182E-05 | 7.43981E-05 |
| 2,2,3-Trimethylhexane | 1.21352E-06 | 4.79254E-05 * | 5.29391E-05 * | 0 | 5.0765E-05 |
| 2,2,4-Trimethylhexane | 5.25301E-06 | 0.000191702 * | 0.000317634 * | 1.64624E-09 | 0.000203061 |
| 2,2-Dimethylheptane | 1.75355E-06 | 5.57499E-05 * | 5.39194E-05 * | 0 | 5.9052E-05 |
| 2,3,4-Trimethylhexane | 3.20175E-06 | 7.33552E-05 * | 6.6664E-05 * | 1.99133E-09 | 7.76971E-05 |
| 2,4,4-Trimethylhexane | 5.55154E-06 | 0.00016725 * | 0 * | 2.88388E-09 | 0.000177153 |
| 2,5-Dimethylheptane | 5.21078E-06 | 0.000139864 * | 0.000201953 * | 2.60045E-09 | 0.000148146 |
| 2-Methyloctane | 0 | 0 * | 0 * | 0 | 0 |
| 3,4-Dimethylheptane | 1.55333E-06 | 4.10789E-05 * | 0 * | 0 | 4.35105E-05 |
| Isopropylbenzene | 8.18767E-08 | 0 * | 4.90177E-07 * | 1.4261E-08 | 0 |
| 1,1,3-Trimethylcyclopentane | 1.45491E-07 | 0 * | 4.90177E-07 * | 4.85251E-09 | 0 |
| m-Ethyltoluene | 3.53538E-05 | 2.64079E-05 * | 0 * | 6.31408E-06 | 2.68739E-05 |
| p-Ethyltoluene | 3.6329E-05 | 2.64079E-05 * | 0 * | 8.48201E-06 | 2.65338E-05 |
| n-Nonane | 3.56664E-06 | 0.000110522 * | 6.17623E-05 * | 1.93861E-09 | 0.000117067 |
| Propylbenzene | 0.000139358 | 0.000102697 * | 0 * | 2.5898E-05 | 0.000104295 |
| Propylcyclohexane | 1.66327E-05 | 2.93421E-05 * | 0 * | 2.45292E-07 | 3.09888E-05 |
| 4-Methylnonane | 1.40991E-05 | 4.01006E-05 * | 0 * | 1.32047E-07 | 4.24117E-05 |
| n-Decane | 3.03032E-07 | 4.01008E-05 * | 0 * | 0 | 4.24787E-05 |
| nC11 | 1.32208E-07 | 4.20568E-05 * | 0 * | 0 | 4.45513E-05 |
| nC12 | 0 | 0 * | 0 * | 0 | 0 |
| nC13 | 1.63532E-13 | 0 * | 4.60766E-05 * | 0 | 0 |
| nC14 | 1.11954E-13 | 0 * | 4.11748E-05 * | 0 | 0 |
| nC15 | 0 | 0 * | 0 * | 0 | 0 |
| H2O | 5.74445 | 0 * | 0 * | 43.3362 | 0.141992 |
| CHEMTHERM 550 | 0 | 0 * | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 * | 0 * | 0 | 0 |
| MDEA | 0.00105249 | 0 * | 0 * | 0.0163324 | 4.70007E-07 |
| Piperazine | 0.000125367 | 0 * | 0 * | 0.00787932 | 2.59729E-05 |

| Mass Fraction | Flash Gas % | RH5 Dry Inlet Gas Composition % | RH6 Dry Inlet Gas Composition % | R8 % | To RH5 TEG Dehy % |
|---|---|---|---|---|---|
| H2S | 0.00136509 | 0.000608908 * | 0.000576887 * | 0.00426221 | 6.78353E-08 |
| Helium | 0.000112132 | 0.00292018 * | 0.00272326 * | 7.90069E-09 | 0.00328001 |
| Oxygen | 0.00276313 | 0.00363461 * | 0.00736765 * | 3.38343E-06 | 0.00407722 |
| Argon | 0.00261702 | 0.00453752 * | 0.00919794 * | 2.37937E-06 | 0.00509188 |
| N2 | 0.548318 | 2.20006 * | 2.19022 * | 0.00027805 | 2.46992 |
| CO2 | 32.0404 | 10.9099 * | 10.3362 * | 75.8589 | 7.50851E-07 |
| C1 | 38.0219 | 52.3674 * | 47.5468 * | 0.0715779 | 58.7127 |
| C2 | 13.197 | 14.8555 * | 14.4251 * | 0.0395633 | 16.6466 |
| C3 | 6.95868 | 10.4322 * | 11.4185 * | 0.0176866 | 11.6983 |
| iC4 | 0.91262 | 1.81069 * | 2.27599 * | 0.00193166 | 2.03146 |
| nC4 | 2.67058 | 4.01063 * | 5.50636 * | 0.00763715 | 4.49777 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH5 Amine Treating | |

| Mass Fraction | Flash Gas % | RH5 Dry Inlet Gas Composition % | RH6 Dry Inlet Gas Composition % | R8 % | To RH5 TEG Dehy % |
|---|---|---|---|---|---|
| iC5 | 0.305783 | 1.08711 * | 1.86145 * | 0.000376995 | 1.22044 |
| nC5 | 0.420131 | 1.10539 * | 2.0141 * | 0.000704425 | 1.24069 |
| Neopentane | 0 | 0 * | 0 * | 0 | 0 |
| 2,2-Dimethylbutane | 0.0036431 | 0.0121714 * | 0.0230378 * | 5.2735E-06 | 0.0136636 |
| 2,3-Dimethylbutane | 0.00941813 | 0.0335042 * | 0.0609569 * | 1.35912E-05 | 0.0376125 |
| Cyclopentane | 0.0302248 | 0.027267 * | 0.0496091 * | 0.000175271 | 0.0305385 |
| 2-Methylpentane | 0.0719026 | 0.249602 * | 0.507175 * | 0.000103544 | 0.280211 |
| 3-Methylpentane | 0.0334833 | 0.117486 * | 0.238765 * | 4.81973E-05 | 0.131894 |
| Benzene | 0.202486 | 0.0548792 * | 0.108649 * | 0.0403152 | 0.0556158 |
| Cyclohexane | 0.130866 | 0.111267 * | 0.218243 * | 0.00116076 | 0.124516 |
| Methylcyclopentane | 0.0724967 | 0.103686 * | 0.213656 * | 0.000275056 | 0.116273 |
| C6 | 0.0671711 | 0.246808 * | 0.511065 * | 9.63218E-05 | 0.277082 |
| 3-Methylhexane | 0.00345833 | 0.029338 * | 0.0602431 * | 2.53983E-06 | 0.0329473 |
| 2,2-Dimethylpentane | 0.000350601 | 0.00271843 * | 0.00537498 * | 2.58966E-07 | 0.00305282 |
| 2,3-Dimethylpentane | 0.000778162 | 0.00651811 * | 0.0126539 * | 5.72985E-07 | 0.00731994 |
| 2,4-Dimethylhexane | 0.000234055 | 0.00190629 * | 0.00350441 * | 2.33316E-07 | 0.0021407 |
| Ethylcyclopentane | 0.000651907 | 0.00163857 * | 0.00301225 * | 1.90163E-06 | 0.00183864 |
| 2,4-Dimethylpentane | 8.76611E-05 | 0.000674136 * | 0.00141338 * | 6.46838E-08 | 0.000757061 |
| 2-Methylhexane | 0.00285537 | 0.0239318 * | 0.0492686 * | 2.09682E-06 | 0.026876 |
| 3-3-Dimethylpentane | 0.000169295 | 0.00137454 * | 0.00264384 * | 1.24918E-07 | 0.00154362 |
| 1,cis-3-Dimethylcyclopentane | 0.00231156 | 0.00535751 * | 0.0108107 * | 6.50437E-06 | 0.0060116 |
| 3-Ethylpentane | 0.000639901 | 0.0054675 * | 0.0110326 * | 4.70151E-07 | 0.00614013 |
| Cycloheptane | 0.000239672 | 0.000115815 * | 0.000191448 * | 2.26585E-05 | 0.000125536 |
| Methylcyclohexane | 0.0127091 | 0.0259039 * | 0.0486664 * | 4.83474E-05 | 0.029058 |
| 2,2-Dimethylhexane | 0.00381276 | 0.0301363 * | 0.0566179 * | 3.80409E-06 | 0.033842 |
| n-Heptane | 0.00443992 | 0.0409209 * | 0.0813813 * | 3.24539E-06 | 0.0459557 |
| Toluene | 0.0705305 | 0.0256166 * | 0.04728 * | 0.0143239 | 0.0263168 |
| trans-1,2-Dimethylcyclopentane | 0.000574706 | 0.00127396 * | 0.0026375 * | 1.66177E-06 | 0.00142945 |
| cis-1,2-Dimethylcyclopentane | 0.00061904 | 0.00127396 * | 0.0026375 * | 2.06963E-06 | 0.00142924 |
| trans-1,3-Dimethylcyclopentane | 0.00393075 | 0.00862606 * | 0.0182283 * | 1.17078E-05 | 0.00967859 |
| 1-Ethyl-1-Methylcyclopentane | 0.00116965 | 0.000857888 * | 0.00125227 * | 3.95647E-05 | 0.000952959 |
| 2,2,3-Trimethylpentane | 0.000304147 | 0.00256501 * | 0.00471994 * | 2.82077E-07 | 0.00288046 |
| 2,3,4-Trimethylpentane | 0.000185696 | 0.00161186 * | 0.0030092 * | 1.7191E-07 | 0.0018101 |
| 2,5-Dimethylhexane | 0 | 0 * | 0 * | 0 | 0 |
| 2-Methylheptane | 0.000463504 | 0.00427418 * | 0.00684296 * | 4.59448E-07 | 0.00479984 |
| 4-Methylheptane | 0.000464452 | 0.00427418 * | 0.00684296 * | 4.60717E-07 | 0.00479983 |
| 3,3-Dimethylhexane | 0.000119244 | 0.00100305 * | 0.00165861 * | 1.18944E-07 | 0.00112639 |
| 3-Methylheptane | 0.000215677 | 0.00198613 * | 0.00329353 * | 2.1381E-07 | 0.0022304 |
| cis-1,2-Dimethylcyclohexane | 0.00139269 | 0.0044267 * | 0.00758808 * | 4.62367E-06 | 0.00496769 |
| cis-1,3-Dimethylcyclohexane | 0.000197449 | 0.000769648 * | 0.00078674 * | 5.56613E-07 | 0.000863815 |
| Cyclooctane | 0 | 0 * | 0 * | 0 | 0 |
| Ethylbenzene | 0.00236058 | 0.00132183 * | 0.00124203 * | 0.000370985 | 0.00140084 |
| Ethylcyclohexane | 0.000543243 | 0.00152459 * | 0.00199245 * | 2.31036E-06 | 0.00171044 |
| m-Xylene | 0.00188005 | 0.001025 * | 0.0014072 * | 0.000381585 | 0.00107168 |
| p-Xylene | 0.00191433 | 0.001025 * | 0.0014072 * | 0.000389072 | 0.00107033 |
| n-Octane | 0.000474381 | 0.00520985 * | 0.00764384 * | 4.34165E-07 | 0.00585079 |
| o-Xylene | 0.00107512 | 0.000621494 * | 0.000682678 * | 0.000218102 | 0.000650279 |
| trans-1,3-Dimethylcyclohexane | 5.79221E-05 | 0 * | 0.00121968 * | 1.76758E-07 | 0 |
| 1,1,2-Trimethylcyclohexane | 0.000172608 | 0.00030884 * | 0.000282807 * | 1.62476E-06 | 0.000346004 |
| 1,2,3-Trimethylbenzene | 0.000372342 | 0.000273041 * | 0 * | 0.000128096 | 0.000274409 |
| 1,2,4-Trimethylbenzene | 0 | 0 * | 0 * | 0 | 0 |
| tert-Butylbenzene | 0 | 0 * | 0 * | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0.000470086 | 0.000393809 * | 0 * | 7.0456E-05 | 0.000423539 |
| 2,2,3-Trimethylhexane | 6.26694E-06 | 0.00027455 * | 0.000287323 * | 0 | 0.000308387 |
| 2,2,4-Trimethylhexane | 2.71278E-05 | 0.0010982 * | 0.00172394 * | 6.45237E-09 | 0.00123355 |
| 2,2-Dimethylheptane | 9.05576E-06 | 0.000319374 * | 0.000292644 * | 0 | 0.000358728 |
| 2,3,4-Trimethylhexane | 1.65346E-05 | 0.000420229 * | 0.000361815 * | 7.80494E-09 | 0.000471993 |
| 2,4,4-Trimethylhexane | 2.86695E-05 | 0.000958123 * | 0 * | 1.13032E-08 | 0.00107616 |
| 2,5-Dimethylheptane | 2.69097E-05 | 0.000801237 * | 0.00109609 * | 1.01923E-08 | 0.000899958 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH5 Amine Treating | | |

| Mass Fraction | Flash Gas % | RH5 Dry Inlet Gas Composition % | RH6 Dry Inlet Gas Composition % | R8 % | To RH5 TEG Dehy % |
|---|---|---|---|---|---|
| 2-Methyloctane | 0 | 0 * | 0 * | 0 | 0 |
| 3,4-Dimethylheptane | 8.02177E-06 | 0.000235328 * | 0 * | 0 | 0.000264317 |
| Isopropylbenzene | 3.96247E-07 | 0 * | 2.49314E-06 * | 5.23813E-08 | 0 |
| 1,1,3-Trimethylcyclopentane | 6.57371E-07 | 0 * | 2.32763E-06 * | 1.66402E-08 | 0 |
| m-Ethyltoluene | 0.000171097 | 0.000141771 * | 0 * | 2.31919E-05 | 0.00015299 |
| p-Ethyltoluene | 0.000175816 | 0.000141771 * | 0 * | 3.11548E-05 | 0.000151054 |
| n-Nonane | 1.8419E-05 | 0.000633146 * | 0.000335211 * | 7.59829E-09 | 0.000711156 |
| Propylbenzene | 0.000674433 | 0.000551333 * | 0 * | 9.51244E-05 | 0.000593735 |
| Propylcyclohexane | 8.4545E-05 | 0.00016545 * | 0 * | 9.46302E-07 | 0.000185292 |
| 4-Methylnonane | 8.07741E-05 | 0.000254848 * | 0 * | 5.74156E-07 | 0.00028582 |
| n-Decane | 1.73608E-06 | 0.000254849 * | 0 * | 0 | 0.000286271 |
| nC11 | 8.32095E-07 | 0.000293629 * | 0 * | 0 | 0.000329837 |
| nC12 | 0 | 0 * | 0 * | 0 | 0 |
| nC13 | 1.21396E-12 | 0 * | 0.000359476 * | 0 | 0 |
| nC14 | 8.94311E-13 | 0 * | 0.000345674 * | 0 | 0 |
| nC15 | 0 | 0 * | 0 * | 0 | 0 |
| H2O | 4.16698 | 0 * | 0 * | 23.8585 | 0.121161 |
| CHEMTHERM 550 | 0 | 0 * | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 * | 0 * | 0 | 0 |
| MDEA | 0.00504998 | 0 * | 0 * | 0.0594756 | 2.65277E-06 |
| Piperazine | 0.000434808 | 0 * | 0 * | 0.0207407 | 0.000105965 |

| Mass Flow | Flash Gas lb/h | RH5 Dry Inlet Gas Composition lb/h | RH6 Dry Inlet Gas Composition lb/h | R8 lb/h | To RH5 TEG Dehy lb/h |
|---|---|---|---|---|---|
| H2S | 0.0217788 | 2.76822 * | 2.80321 * | 4.16167 | 0.000274537 |
| Helium | 0.00178896 | 13.2757 * | 13.2329 * | 7.71431E-06 | 13.2745 |
| Oxygen | 0.0440832 | 16.5237 * | 35.8009 * | 0.00330361 | 16.5009 |
| Argon | 0.0417522 | 20.6285 * | 44.6946 * | 0.00232324 | 20.6074 |
| N2 | 8.74793 | 10001.9 * | 10642.7 * | 0.271491 | 9996.02 |
| CO2 | 511.175 | 49598.6 * | 50225.5 * | 74069.3 | 0.00303877 |
| C1 | 606.605 | 238073 * | 231040 * | 69.8894 | 237616 |
| C2 | 210.547 | 67536 * | 70094.5 * | 38.63 | 67370.4 |
| C3 | 111.02 | 47427 * | 55484.6 * | 17.2694 | 47344.4 |
| iC4 | 14.56 | 8231.74 * | 11059.5 * | 1.88609 | 8221.54 |
| nC4 | 42.6067 | 18233.1 * | 26756.5 * | 7.45699 | 18202.9 |
| iC5 | 4.8785 | 4942.21 * | 9045.17 * | 0.368101 | 4939.26 |
| nC5 | 6.7028 | 5025.32 * | 9786.94 * | 0.687807 | 5021.22 |
| Neopentane | 0 | 0 * | 0 * | 0 | 0 |
| 2,2-Dimethylbutane | 0.0581224 | 55.3335 * | 111.945 * | 0.0051491 | 55.298 |
| 2,3-Dimethylbutane | 0.150258 | 152.317 * | 296.202 * | 0.0132706 | 152.222 |
| Cyclopentane | 0.48221 | 123.961 * | 241.061 * | 0.171137 | 123.593 |
| 2-Methylpentane | 1.14714 | 1134.74 * | 2464.46 * | 0.101101 | 1134.04 |
| 3-Methylpentane | 0.534196 | 534.114 * | 1160.21 * | 0.0470603 | 533.789 |
| Benzene | 3.23049 | 249.492 * | 527.949 * | 39.3641 | 225.083 |
| Cyclohexane | 2.08785 | 505.841 * | 1060.49 * | 1.13338 | 503.931 |
| Methylcyclopentane | 1.15662 | 471.375 * | 1038.2 * | 0.268568 | 470.568 |
| C6 | 1.07165 | 1122.04 * | 2483.37 * | 0.0940495 | 1121.38 |
| 3-Methylhexane | 0.0551746 | 133.377 * | 292.733 * | 0.00247991 | 133.341 |
| 2,2-Dimethylpentane | 0.00559353 | 12.3585 * | 26.1181 * | 0.000252857 | 12.3551 |
| 2,3-Dimethylpentane | 0.0124149 | 29.6326 * | 61.4877 * | 0.000559468 | 29.6246 |
| 2,4-Dimethylhexane | 0.00373414 | 8.66637 * | 17.0286 * | 0.000227812 | 8.66363 |
| Ethylcyclopentane | 0.0104006 | 7.44925 * | 14.6371 * | 0.00185677 | 7.44115 |
| 2,4-Dimethylpentane | 0.00139855 | 3.06476 * | 6.86787 * | 6.31579E-05 | 3.06391 |
| 2-Methylhexane | 0.0455549 | 108.799 * | 239.406 * | 0.00204736 | 108.77 |
| 3-3-Dimethylpentane | 0.00270094 | 6.24892 * | 12.847 * | 0.000121972 | 6.24719 |
| 1,cis-3-Dimethylcyclopentane | 0.0368788 | 24.3563 * | 52.5313 * | 0.00635093 | 24.3296 |
| 3-Ethylpentane | 0.010209 | 24.8564 * | 53.6098 * | 0.00045906 | 24.8497 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH5 Amine Treating | |

| Mass Flow | Flash Gas lb/h | RH5 Dry Inlet Gas Composition lb/h | RH6 Dry Inlet Gas Composition lb/h | R8 lb/h | To RH5 TEG Dehy lb/h |
|---|---|---|---|---|---|
| Cycloheptane | 0.00382376 | 0.526518 * | 0.930283 * | 0.022124 | 0.508055 |
| Methylcyclohexane | 0.202763 | 117.764 * | 236.48 * | 0.0472069 | 117.601 |
| 2,2-Dimethylhexane | 0.0608292 | 137.006 * | 275.118 * | 0.00371435 | 136.962 |
| n-Heptane | 0.070835 | 186.035 * | 395.448 * | 0.00316883 | 185.987 |
| Toluene | 1.12525 | 116.458 * | 229.743 * | 13.986 | 106.507 |
| trans-1,2-Dimethylcyclopentane | 0.00916892 | 5.79169 * | 12.8161 * | 0.00162257 | 5.78515 |
| cis-1,2-Dimethylcyclopentane | 0.00987622 | 5.79169 * | 12.8161 * | 0.00202081 | 5.7843 |
| trans-1,3-Dimethylcyclopentane | 0.0627116 | 39.2158 * | 88.5748 * | 0.0114316 | 39.1703 |
| 1-Ethyl-1-Methylcyclopentane | 0.0186607 | 3.90013 * | 6.08501 * | 0.0386313 | 3.85672 |
| 2,2,3-Trimethylpentane | 0.00485239 | 11.661 * | 22.9351 * | 0.000275423 | 11.6575 |
| 2,3,4-Trimethylpentane | 0.00296261 | 7.32785 * | 14.6223 * | 0.000167854 | 7.32567 |
| 2,5-Dimethylhexane | 0 | 0 * | 0 * | 0 | 0 |
| 2-Methylheptane | 0.00739478 | 19.4313 * | 33.2513 * | 0.000448609 | 19.4254 |
| 4-Methylheptane | 0.00740992 | 19.4313 * | 33.2513 * | 0.000449848 | 19.4254 |
| 3,3-Dimethylhexane | 0.00190243 | 4.56005 * | 8.05953 * | 0.000116138 | 4.5586 |
| 3-Methylheptane | 0.00344094 | 9.02936 * | 16.0039 * | 0.000208767 | 9.02665 |
| cis-1,2-Dimethylcyclohexane | 0.022219 | 20.1247 * | 36.872 * | 0.0045146 | 20.1048 |
| cis-1,3-Dimethylcyclohexane | 0.00315012 | 3.49897 * | 3.82293 * | 0.000543483 | 3.49595 |
| Cyclooctane | 0 | 0 * | 0 * | 0 | 0 |
| Ethylbenzene | 0.0376609 | 6.00932 * | 6.03528 * | 0.362234 | 5.66934 |
| Ethylcyclohexane | 0.00866696 | 6.93109 * | 9.68173 * | 0.00225586 | 6.92233 |
| m-Xylene | 0.0299946 | 4.65986 * | 6.83785 * | 0.372584 | 4.33719 |
| p-Xylene | 0.0305414 | 4.65986 * | 6.83785 * | 0.379893 | 4.33172 |
| n-Octane | 0.00756832 | 23.685 * | 37.1429 * | 0.000423923 | 23.6788 |
| o-Xylene | 0.0171526 | 2.82544 * | 3.31727 * | 0.212957 | 2.63175 |
| trans-1,3-Dimethylcyclohexane | 0.000924095 | 0 * | 5.92666 * | 0.000172588 | 0 |
| 1,1,2-Trimethylcyclohexane | 0.0027538 | 1.40405 * | 1.37422 * | 0.00158643 | 1.40032 |
| 1,2,3-Trimethylbenzene | 0.00594038 | 1.2413 * | 0 * | 0.125075 | 1.11056 |
| 1,2,4-Trimethylbenzene | 0 | 0 * | 0 * | 0 | 0 |
| tert-Butylbenzene | 0 | 0 * | 0 * | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0.00749981 | 1.79034 * | 0 * | 0.068794 | 1.7141 |
| 2,2,3-Trimethylhexane | 9.99833E-05 | 1.24816 * | 1.39616 * | 0 | 1.24807 |
| 2,2,4-Trimethylhexane | 0.0004328 | 4.99264 * | 8.37697 * | 6.30016E-06 | 4.99231 |
| 2,2-Dimethylheptane | 0.000144477 | 1.45194 * | 1.42202 * | 0 | 1.45181 |
| 2,3,4-Trimethylhexane | 0.000263795 | 1.91045 * | 1.75813 * | 7.62082E-06 | 1.91021 |
| 2,4,4-Trimethylhexane | 0.000457396 | 4.35582 * | 0 * | 1.10366E-05 | 4.35535 |
| 2,5-Dimethylheptane | 0.00042932 | 3.64259 * | 5.3261 * | 9.9519E-06 | 3.64222 |
| 2-Methyloctane | 0 | 0 * | 0 * | 0 | 0 |
| 3,4-Dimethylheptane | 0.00012798 | 1.06985 * | 0 * | 0 | 1.06972 |
| Isopropylbenzene | 6.32177E-06 | 0 * | 0.0121147 * | 5.11456E-05 | 0 |
| 1,1,3-Trimethylcyclopentane | 1.04878E-05 | 0 * | 0.0113104 * | 1.62477E-05 | 0 |
| m-Ethyltoluene | 0.00272969 | 0.644521 * | 0 * | 0.0226448 | 0.619165 |
| p-Ethyltoluene | 0.00280499 | 0.644521 * | 0 * | 0.0304198 | 0.61133 |
| n-Nonane | 0.000293858 | 2.87841 * | 1.62886 * | 7.41904E-06 | 2.87812 |
| Propylbenzene | 0.01076 | 2.50647 * | 0 * | 0.0928804 | 2.40291 |
| Propylcyclohexane | 0.00134884 | 0.752168 * | 0 * | 0.000923978 | 0.749895 |
| 4-Methylnonane | 0.00128868 | 1.15859 * | 0 * | 0.000560611 | 1.15674 |
| n-Decane | 2.76976E-05 | 1.1586 * | 0 * | 0 | 1.15857 |
| nC11 | 1.32753E-05 | 1.3349 * | 0 * | 0 | 1.33488 |
| nC12 | 0 | 0 * | 0 * | 0 | 0 |
| nC13 | 1.93677E-11 | 0 * | 1.74677 * | 0 | 0 |
| nC14 | 1.42679E-11 | 0 * | 1.6797 * | 0 | 0 |
| nC15 | 0 | 0 * | 0 * | 0 | 0 |
| H2O | 66.4804 | 0 * | 0 * | 23295.7 | 490.35 |
| CHEMTHERM 550 | 0 | 0 * | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 * | 0 * | 0 | 0 |
| MDEA | 0.0805678 | 0 * | 0 * | 58.0725 | 0.010736 |
| Piperazine | 0.00693698 | 0 * | 0 * | 20.2514 | 0.42885 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH5 Amine Treating | | |

## Stream Properties

| Property | Units | Flash Gas | RH5 Dry Inlet Gas Composition | RH6 Dry Inlet Gas Composition | R8 | To RH5 TEG Dehy |
|---|---|---|---|---|---|---|
| Temperature | °F | 173.8 | 90 * | 90 * | 209.923 | 103.194 |
| Pressure | psig | 85 | 900 * | 900 * | 14 | 877 |
| Molecular Weight | lb/lbmol | 24.8352 | 22.3882 | 23.6309 | 32.7227 | 21.1127 |
| Mass Density | lb/ft^3 | 0.369724 | 4.32562 | 4.72848 | 0.131798 | 3.76702 |
| Mass Flow | lb/h | 1595.41 | 454620 | 485920 | 97641 | 404710 |
| Std Vapor Volumetric Flow | MMSCFD | 0.585072 | 184.942 | 187.279 | 27.1762 | 174.585 |
| Std Liquid Volumetric Flow | sgpm | 7.33354 | 2438.42 | 2525.93 | 228.863 | 2313.49 |
| Specific Gravity | | 0.857496 | 0.773006 | | 1.12983 | 0.728966 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 958.46 | 1182.11 | 1246.71 | 26.4216 | 1249.81 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH5 Amine Treating | |

## Connections

| | To RH6 TEG Dehy | | | | |
|---|---|---|---|---|---|
| From Block | M-1 | | | | |
| To Block | -- | | | | |

## Stream Composition

| Mole Fraction | To RH6 TEG Dehy % | | | | |
|---|---|---|---|---|---|
| H2S | 5.79918E-07 | | | | |
| Helium | 0.0172244 | | | | |
| Oxygen | 0.00580824 | | | | |
| Argon | 0.00580912 | | | | |
| N2 | 1.97623 | | | | |
| CO2 | 0.0265843 | | | | |
| C1 | 74.6484 | | | | |
| C2 | 11.9607 | | | | |
| C3 | 6.34996 | | | | |
| iC4 | 0.934606 | | | | |
| nC4 | 2.22593 | | | | |
| iC5 | 0.574118 | | | | |
| nC5 | 0.60596 | | | | |
| Neopentane | 0 | | | | |
| 2,2-Dimethylbutane | 0.00549985 | | | | |
| 2,3-Dimethylbutane | 0.0139753 | | | | |
| Cyclopentane | 0.0147285 | | | | |
| 2-Methylpentane | 0.115099 | | | | |
| 3-Methylpentane | 0.0533496 | | | | |
| Benzene | 0.0237436 | | | | |
| Cyclohexane | 0.045032 | | | | |
| Methylcyclopentane | 0.0468496 | | | | |
| C6 | 0.109274 | | | | |
| 3-Methylhexane | 0.00921688 | | | | |
| 2,2-Dimethylpentane | 0.000936373 | | | | |
| 2,3-Dimethylpentane | 0.00199056 | | | | |
| 2,4-Dimethylhexane | 0.000379929 | | | | |
| Ethylcyclopentane | 0.000429456 | | | | |
| 2,4-Dimethylpentane | 0.000242235 | | | | |
| 2-Methylhexane | 0.00775332 | | | | |
| 3-3-Dimethylpentane | 0.000433547 | | | | |
| 1,cis-3-Dimethylcyclopentane | 0.00167996 | | | | |
| 3-Ethylpentane | 0.00167085 | | | | |
| Cycloheptane | 2.32659E-05 | | | | |
| Methylcyclohexane | 0.0069764 | | | | |
| 2,2-Dimethylhexane | 0.00641453 | | | | |
| n-Heptane | 0.0115337 | | | | |
| Toluene | 0.0067044 | | | | |
| trans-1,2-Dimethylcyclopentane | 0.000420805 | | | | |
| cis-1,2-Dimethylcyclopentane | 0.000395093 | | | | |
| trans-1,3-Dimethylcyclopentane | 0.00275603 | | | | |
| 1-Ethyl-1-Methylcyclopentane | 0.000122302 | | | | |
| 2,2,3-Trimethylpentane | 0.000519136 | | | | |
| 2,3,4-Trimethylpentane | 0.000313818 | | | | |
| 2,5-Dimethylhexane | 0 | | | | |
| 2-Methylheptane | 0.000655854 | | | | |
| 4-Methylheptane | 0.000646964 | | | | |
| 3,3-Dimethylhexane | 0.000175714 | | | | |
| 3-Methylheptane | 0.000306463 | | | | |
| cis-1,2-Dimethylcyclohexane | 0.000685311 | | | | |
| cis-1,3-Dimethylcyclohexane | 7.70119E-05 | | | | |
| Cyclooctane | 0 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH5 Amine Treating | |

## Stream Composition

| Mole Fraction | To RH6 TEG Dehy % | | | | |
|---|---|---|---|---|---|
| Ethylbenzene | 0.000104977 | | | | |
| Ethylcyclohexane | 0.00017059 | | | | |
| m-Xylene | 0.000112991 | | | | |
| p-Xylene | 0.000114405 | | | | |
| n-Octane | 0.000631828 | | | | |
| o-Xylene | 5.19427E-05 | | | | |
| trans-1,3-Dimethylcyclohexane | 0.000117599 | | | | |
| 1,1,2-Trimethylcyclohexane | 2.03321E-05 | | | | |
| 1,2,3-Trimethylbenzene | 0 | | | | |
| 1,2,4-Trimethylbenzene | 0 | | | | |
| tert-Butylbenzene | 0 | | | | |
| 1,3,5-Trimethylbenzene | 0 | | | | |
| 2,2,3-Trimethylhexane | 2.23414E-05 | | | | |
| 2,2,4-Trimethylhexane | 0.000145616 | | | | |
| 2,2-Dimethylheptane | 1.80739E-05 | | | | |
| 2,3,4-Trimethylhexane | 2.14819E-05 | | | | |
| 2,4,4-Trimethylhexane | 0 | | | | |
| 2,5-Dimethylheptane | 6.73186E-05 | | | | |
| 2-Methyloctane | 0 | | | | |
| 3,4-Dimethylheptane | 0 | | | | |
| Isopropylbenzene | 1.30523E-07 | | | | |
| 1,1,3-Trimethylcyclopentane | 2.9932E-07 | | | | |
| m-Ethyltoluene | 0 | | | | |
| p-Ethyltoluene | 0 | | | | |
| n-Nonane | 1.35705E-05 | | | | |
| Propylbenzene | 0 | | | | |
| Propylcyclohexane | 0 | | | | |
| 4-Methylnonane | 0 | | | | |
| n-Decane | 0 | | | | |
| nC11 | 0 | | | | |
| nC12 | 0 | | | | |
| nC13 | 7.39505E-07 | | | | |
| nC14 | 3.32925E-07 | | | | |
| nC15 | 0 | | | | |
| H2O | 0.176049 | | | | |
| CHEMTHERM 550 | 0 | | | | |
| UCARSOL™ AP-814 | 0 | | | | |
| MDEA | 8.54066E-07 | | | | |
| Piperazine | 1.60239E-05 | | | | |

| Mass Fraction | To RH6 TEG Dehy % | | | | |
|---|---|---|---|---|---|
| H2S | 8.94684E-07 | | | | |
| Helium | 0.00312088 | | | | |
| Oxygen | 0.00841337 | | | | |
| Argon | 0.010505 | | | | |
| N2 | 2.50608 | | | | |
| CO2 | 0.0529619 | | | | |
| C1 | 54.2105 | | | | |
| C2 | 16.2805 | | | | |
| C3 | 12.6753 | | | | |
| iC4 | 2.45902 | | | | |
| nC4 | 5.85661 | | | | |
| iC5 | 1.87509 | | | | |
| nC5 | 1.97909 | | | | |
| Neopentane | 0 | | | | |
| 2,2-Dimethylbutane | 0.0214549 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH5 Amine Treating | |

| Mass Fraction | To RH6 TEG Dehy % | | | | |
|---|---|---|---|---|---|
| 2,3-Dimethylbutane | 0.0545175 | | | | |
| Cyclopentane | 0.0467597 | | | | |
| 2-Methylpentane | 0.448999 | | | | |
| 3-Methylpentane | 0.208116 | | | | |
| Benzene | 0.0839566 | | | | |
| Cyclohexane | 0.17156 | | | | |
| Methylcyclopentane | 0.178485 | | | | |
| C6 | 0.426278 | | | | |
| 3-Methylhexane | 0.0418073 | | | | |
| 2,2-Dimethylpentane | 0.00424734 | | | | |
| 2,3-Dimethylpentane | 0.00902908 | | | | |
| 2,4-Dimethylhexane | 0.00196457 | | | | |
| Ethylcyclopentane | 0.0019088 | | | | |
| 2,4-Dimethylpentane | 0.00109877 | | | | |
| 2-Methylhexane | 0.0351687 | | | | |
| 3-3-Dimethylpentane | 0.00196654 | | | | |
| 1,cis-3-Dimethylcyclopentane | 0.00746689 | | | | |
| 3-Ethylpentane | 0.00757889 | | | | |
| Cycloheptane | 0.00010341 | | | | |
| Methylcyclohexane | 0.031008 | | | | |
| 2,2-Dimethylhexane | 0.0331689 | | | | |
| n-Heptane | 0.0523164 | | | | |
| Toluene | 0.0279636 | | | | |
| trans-1,2-Dimethylcyclopentane | 0.00187035 | | | | |
| cis-1,2-Dimethylcyclopentane | 0.00175607 | | | | |
| trans-1,3-Dimethylcyclopentane | 0.0122497 | | | | |
| 1-Ethyl-1-Methylcyclopentane | 0.000621253 | | | | |
| 2,2,3-Trimethylpentane | 0.0026844 | | | | |
| 2,3,4-Trimethylpentane | 0.00162272 | | | | |
| 2,5-Dimethylhexane | 0 | | | | |
| 2-Methylheptane | 0.00339136 | | | | |
| 4-Methylheptane | 0.00334539 | | | | |
| 3,3-Dimethylhexane | 0.0009086 | | | | |
| 3-Methylheptane | 0.00158469 | | | | |
| cis-1,2-Dimethylcyclohexane | 0.00348114 | | | | |
| cis-1,3-Dimethylcyclohexane | 0.000391193 | | | | |
| Cyclooctane | 0 | | | | |
| Ethylbenzene | 0.000504507 | | | | |
| Ethylcyclohexane | 0.000866537 | | | | |
| m-Xylene | 0.000543023 | | | | |
| p-Xylene | 0.000549819 | | | | |
| n-Octane | 0.00326712 | | | | |
| o-Xylene | 0.000249631 | | | | |
| trans-1,3-Dimethylcyclohexane | 0.000597362 | | | | |
| 1,1,2-Trimethylcyclohexane | 0.00011619 | | | | |
| 1,2,3-Trimethylbenzene | 0 | | | | |
| 1,2,4-Trimethylbenzene | 0 | | | | |
| tert-Butylbenzene | 0 | | | | |
| 1,3,5-Trimethylbenzene | 0 | | | | |
| 2,2,3-Trimethylhexane | 0.000129711 | | | | |
| 2,2,4-Trimethylhexane | 0.000845429 | | | | |
| 2,2-Dimethylheptane | 0.000104935 | | | | |
| 2,3,4-Trimethylhexane | 0.000124721 | | | | |
| 2,4,4-Trimethylhexane | 0 | | | | |
| 2,5-Dimethylheptane | 0.000390842 | | | | |
| 2-Methyloctane | 0 | | | | |
| 3,4-Dimethylheptane | 0 | | | | |
| Isopropylbenzene | 7.10152E-07 | | | | |
| 1,1,3-Trimethylcyclopentane | 1.52044E-06 | | | | |
| m-Ethyltoluene | 0 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH5 Amine Treating | | |

| Mass Fraction | To RH6 TEG Dehy % | | | | |
|---|---|---|---|---|---|
| p-Ethyltoluene | 0 | | | | |
| n-Nonane | 7.87887E-05 | | | | |
| Propylbenzene | 0 | | | | |
| Propylcyclohexane | 0 | | | | |
| 4-Methylnonane | 0 | | | | |
| n-Decane | 0 | | | | |
| nC11 | 0 | | | | |
| nC12 | 0 | | | | |
| nC13 | 6.17168E-06 | | | | |
| nC14 | 2.98988E-06 | | | | |
| nC15 | 0 | | | | |
| H2O | 0.143571 | | | | |
| CHEMTHERM 550 | 0 | | | | |
| UCARSOL™ AP-814 | 0 | | | | |
| MDEA | 4.60704E-06 | | | | |
| Piperazine | 6.24804E-05 | | | | |

| Mass Flow | To RH6 TEG Dehy lb/h | | | | |
|---|---|---|---|---|---|
| H2S | 0.00379048 | | | | |
| Helium | 13.2222 | | | | |
| Oxygen | 35.6447 | | | | |
| Argon | 44.5064 | | | | |
| N2 | 10617.4 | | | | |
| CO2 | 224.382 | | | | |
| C1 | 229672 | | | | |
| C2 | 68975 | | | | |
| C3 | 53701.1 | | | | |
| iC4 | 10418.1 | | | | |
| nC4 | 24812.5 | | | | |
| iC5 | 7944.14 | | | | |
| nC5 | 8384.74 | | | | |
| Neopentane | 0 | | | | |
| 2,2-Dimethylbutane | 90.8972 | | | | |
| 2,3-Dimethylbutane | 230.973 | | | | |
| Cyclopentane | 198.105 | | | | |
| 2-Methylpentane | 1902.26 | | | | |
| 3-Methylpentane | 881.72 | | | | |
| Benzene | 355.697 | | | | |
| Cyclohexane | 726.843 | | | | |
| Methylcyclopentane | 756.181 | | | | |
| C6 | 1806 | | | | |
| 3-Methylhexane | 177.124 | | | | |
| 2,2-Dimethylpentane | 17.9946 | | | | |
| 2,3-Dimethylpentane | 38.2532 | | | | |
| 2,4-Dimethylhexane | 8.32326 | | | | |
| Ethylcyclopentane | 8.08697 | | | | |
| 2,4-Dimethylpentane | 4.65512 | | | | |
| 2-Methylhexane | 148.998 | | | | |
| 3-3-Dimethylpentane | 8.33161 | | | | |
| 1,cis-3-Dimethylcyclopentane | 31.6348 | | | | |
| 3-Ethylpentane | 32.1093 | | | | |
| Cycloheptane | 0.438113 | | | | |
| Methylcyclohexane | 131.371 | | | | |
| 2,2-Dimethylhexane | 140.526 | | | | |
| n-Heptane | 221.648 | | | | |
| Toluene | 118.473 | | | | |
| trans-1,2-Dimethylcyclopentane | 7.92406 | | | | |
| cis-1,2-Dimethylcyclopentane | 7.43989 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH5 Amine Treating | |

| Mass Flow | To RH6 TEG Dehy lb/h | | | | |
|---|---|---|---|---|---|
| trans-1,3-Dimethylcyclopentane | 51.898 | | | | |
| 1-Ethyl-1-Methylcyclopentane | 2.63205 | | | | |
| 2,2,3-Trimethylpentane | 11.3729 | | | | |
| 2,3,4-Trimethylpentane | 6.87494 | | | | |
| 2,5-Dimethylhexane | 0 | | | | |
| 2-Methylheptane | 14.3681 | | | | |
| 4-Methylheptane | 14.1733 | | | | |
| 3,3-Dimethylhexane | 3.84944 | | | | |
| 3-Methylheptane | 6.71382 | | | | |
| cis-1,2-Dimethylcyclohexane | 14.7484 | | | | |
| cis-1,3-Dimethylcyclohexane | 1.65736 | | | | |
| Cyclooctane | 0 | | | | |
| Ethylbenzene | 2.13743 | | | | |
| Ethylcyclohexane | 3.67124 | | | | |
| m-Xylene | 2.30061 | | | | |
| p-Xylene | 2.3294 | | | | |
| n-Octane | 13.8417 | | | | |
| o-Xylene | 1.0576 | | | | |
| trans-1,3-Dimethylcyclohexane | 2.53083 | | | | |
| 1,1,2-Trimethylcyclohexane | 0.49226 | | | | |
| 1,2,3-Trimethylbenzene | 0 | | | | |
| 1,2,4-Trimethylbenzene | 0 | | | | |
| tert-Butylbenzene | 0 | | | | |
| 1,3,5-Trimethylbenzene | 0 | | | | |
| 2,2,3-Trimethylhexane | 0.549544 | | | | |
| 2,2,4-Trimethylhexane | 3.5818 | | | | |
| 2,2-Dimethylheptane | 0.444574 | | | | |
| 2,3,4-Trimethylhexane | 0.528402 | | | | |
| 2,4,4-Trimethylhexane | 0 | | | | |
| 2,5-Dimethylheptane | 1.65587 | | | | |
| 2-Methyloctane | 0 | | | | |
| 3,4-Dimethylheptane | 0 | | | | |
| Isopropylbenzene | 0.00300868 | | | | |
| 1,1,3-Trimethylcyclopentane | 0.00644162 | | | | |
| m-Ethyltoluene | 0 | | | | |
| p-Ethyltoluene | 0 | | | | |
| n-Nonane | 0.333802 | | | | |
| Propylbenzene | 0 | | | | |
| Propylcyclohexane | 0 | | | | |
| 4-Methylnonane | 0 | | | | |
| n-Decane | 0 | | | | |
| nC11 | 0 | | | | |
| nC12 | 0 | | | | |
| nC13 | 0.0261474 | | | | |
| nC14 | 0.0126671 | | | | |
| nC15 | 0 | | | | |
| H2O | 608.263 | | | | |
| CHEMTHERM 550 | 0 | | | | |
| UCARSOL™ AP-814 | 0 | | | | |
| MDEA | 0.0195185 | | | | |
| Piperazine | 0.264709 | | | | |

## Stream Properties

| Property | Units | To RH6 TEG Dehy | | | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 110.309 | | | | |
| Pressure | psig | 877 | | | | |
| Molecular Weight | lb/lbmol | 22.0906 | | | | |
| Mass Density | lb/ft^3 | 3.93886 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH5 Amine Treating | | |

## Stream Properties

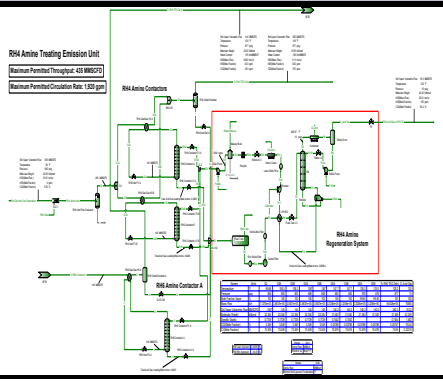
| Property | Units | To RH6 TEG Dehy | | | | |
|---|---|---|---|---|---|---|
| Mass Flow | lb/h | 423667 | | | | |
| Std Vapor Volumetric Flow | MMSCFD | 174.671 | | | | |
| Std Liquid Volumetric Flow | sgpm | 2355.64 | | | | |
| Specific Gravity | | | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1298.98 | | | | |

**Remarks**


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# RH4 Amine Treating
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH4 Amine Treating | |





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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH4 Amine Treating | | |

## Connections

| | Flash Gas | G_Acid Gas | RH4 Dry Inlet Gas Composition | R8 | To RH4 TEG Dehy |
|---|---|---|---|---|---|
| From Block | Flash Tank | Reflux Drum | -- | Still | RH4 Outlet Scrubber |
| To Block | -- | PV | SAT-1 | Condenser | -- |

## Stream Composition

| Mole Fraction | Flash Gas % | G_Acid Gas % | RH4 Dry Inlet Gas Composition % | R8 % | To RH4 TEG Dehy % |
|---|---|---|---|---|---|
| H2S | 0.00125979 | 0.0105498 | 0.0004 * | 0.00664955 | 2.3715E-06 |
| Helium | 0.000564144 | 5.09807E-08 | 0.0160074 * | 3.20727E-08 | 0.0165585 |
| Oxygen | 0.00383068 | 9.26917E-06 | 0.0049523 * | 5.83147E-06 | 0.00511889 |
| Argon | 0.00301152 | 5.59359E-06 | 0.0049523 * | 3.51907E-06 | 0.00511982 |
| N2 | 0.616448 | 0.000611362 | 1.83435 * | 0.00038462 | 1.89692 |
| CO2 | 12.016 | 93.4389 | 3.55 * | 58.8291 | 0.0374691 |
| C1 | 65.565 | 0.22219 | 73.5319 * | 0.139785 | 75.9901 |
| C2 | 11.9596 | 0.0650131 | 11.3499 * | 0.0409015 | 11.7264 |
| C3 | 4.24755 | 0.0191282 | 5.68894 * | 0.012034 | 5.88002 |
| iC4 | 0.412915 | 0.00146446 | 0.805874 * | 0.000921318 | 0.833181 |
| nC4 | 1.30611 | 0.00671748 | 1.86987 * | 0.00422612 | 1.93277 |
| iC5 | 0.142428 | 0.000361066 | 0.455511 * | 0.000227153 | 0.471058 |
| nC5 | 0.189163 | 0.000621839 | 0.475621 * | 0.000391211 | 0.491806 |
| Neopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylbutane | 0.0013873 | 3.71199E-06 | 0.00488427 * | 2.33527E-06 | 0.00505104 |
| 2,3-Dimethylbutane | 0.00318074 | 8.48159E-06 | 0.0111672 * | 5.33591E-06 | 0.0115486 |
| Cyclopentane | 0.0135583 | 0.000164809 | 0.0111672 * | 0.000103689 | 0.0115332 |
| 2-Methylpentane | 0.0260632 | 6.93324E-05 | 0.0944649 * | 4.36182E-05 | 0.0976919 |
| 3-Methylpentane | 0.0120341 | 3.19984E-05 | 0.0438574 * | 2.01307E-05 | 0.0453556 |
| Benzene | 0.0605427 | 0.0251293 | 0.017173 * | 0.0158335 | 0.0168448 |
| Cyclohexane | 0.0414887 | 0.000680359 | 0.0356325 * | 0.000428042 | 0.0367949 |
| Methylcyclopentane | 0.0266604 | 0.000199778 | 0.0370032 * | 0.000125686 | 0.0382451 |
| C6 | 0.0241961 | 6.40556E-05 | 0.0932613 * | 4.02985E-05 | 0.0964484 |
| 3-Methylhexane | 0.00108832 | 1.56236E-06 | 0.00903219 * | 9.82904E-07 | 0.00934223 |
| 2,2-Dimethylpentane | 0.000114974 | 1.6612E-07 | 0.00088241 * | 1.04509E-07 | 0.000912691 |
| 2,3-Dimethylpentane | 0.000239219 | 3.44448E-07 | 0.00191989 * | 2.16697E-07 | 0.00198579 |
| 2,4-Dimethylhexane | 4.86456E-05 | 8.42042E-08 | 0.00041019 * | 5.29741E-08 | 0.000424269 |
| Ethylcyclopentane | 0.000187895 | 1.1534E-06 | 0.00041019 * | 7.25631E-07 | 0.000424084 |
| 2,4-Dimethylpentane | 2.80648E-05 | 4.05E-08 | 0.000213099 * | 2.54792E-08 | 0.000220412 |
| 2-Methylhexane | 0.000914986 | 1.31341E-06 | 0.00757952 * | 8.26287E-07 | 0.00783969 |
| 3-3-Dimethylpentane | 5.388E-05 | 7.77689E-08 | 0.000424197 * | 4.89256E-08 | 0.000438755 |
| 1,cis-3-Dimethylcyclopentane | 0.000715889 | 4.15731E-06 | 0.0015182 * | 2.61546E-06 | 0.00156963 |
| 3-Ethylpentane | 0.000188269 | 2.70428E-07 | 0.0015182 * | 1.7013E-07 | 0.00157032 |
| Cycloheptane | 1.50591E-05 | 2.93331E-06 | 0 * | 1.8465E-06 | 0 |
| Methylcyclohexane | 0.00331626 | 2.43747E-05 | 0.0062519 * | 1.53348E-05 | 0.006463 |
| 2,2-Dimethylhexane | 0.000772762 | 1.33895E-06 | 0.0062519 * | 8.42355E-07 | 0.00646647 |
| n-Heptane | 0.00133806 | 1.91078E-06 | 0.0118565 * | 1.2021E-06 | 0.0122636 |
| Toluene | 0.0142071 | 0.00605729 | 0.00494329 * | 0.00381513 | 0.00488669 |
| trans-1,2-Dimethylcyclopentane | 0.000183446 | 1.11542E-06 | 0.000370672 * | 7.01741E-07 | 0.000383217 |
| cis-1,2-Dimethylcyclopentane | 0.000198075 | 1.41017E-06 | 0.000370672 * | 8.87176E-07 | 0.000383185 |
| trans-1,3-Dimethylcyclopentane | 0.00128806 | 8.20918E-06 | 0.00256119 * | 5.16461E-06 | 0.0026478 |
| 1-Ethyl-1-Methylcyclopentane | 0.000185154 | 1.29249E-05 | 0.000125058 * | 8.13274E-06 | 0.000128643 |
| 2,2,3-Trimethylpentane | 6.63011E-05 | 1.12946E-07 | 0.000543252 * | 7.1056E-08 | 0.000561896 |
| 2,3,4-Trimethylpentane | 3.8995E-05 | 6.62958E-08 | 0.000325151 * | 4.17077E-08 | 0.000336311 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylheptane | 9.00006E-05 | 1.54814E-07 | 0.000845392 * | 9.73958E-08 | 0.000874414 |
| 4-Methylheptane | 9.02619E-05 | 1.55384E-07 | 0.000845392 * | 9.77541E-08 | 0.000874413 |
| 3,3-Dimethylhexane | 2.28619E-05 | 3.96059E-08 | 0.000192089 * | 2.49167E-08 | 0.000198682 |
| 3-Methylheptane | 4.06237E-05 | 6.9887E-08 | 0.000377175 * | 4.39669E-08 | 0.000390123 |
| cis-1,2-Dimethylcyclohexane | 0.000289079 | 1.73003E-06 | 0.000927431 * | 1.0884E-06 | 0.000958978 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH4 Amine Treating | |

## Stream Composition

| Mole Fraction | Flash Gas % | G_Acid Gas % | RH4 Dry Inlet Gas Composition % | R8 % | To RH4 TEG Dehy % |
|---|---|---|---|---|---|
| cis-1,3-Dimethylcyclohexane | 3.34379E-05 | 1.66357E-07 | 0.000126059 * | 1.04658E-07 | 0.000130354 |
| Cyclooctane | 0 | 0 | 0 * | 0 | 0 |
| Ethylbenzene | 0.000295364 | 0.000108526 | 0.000155072 * | 6.83395E-05 | 0.000155242 |
| Ethylcyclohexane | 7.17574E-05 | 5.52875E-07 | 0.000176082 * | 3.47827E-07 | 0.000182049 |
| m-Xylene | 0.000272979 | 0.000137067 | 0.000143567 * | 8.63521E-05 | 0.000142354 |
| p-Xylene | 0.000277976 | 0.000139776 | 0.000143567 * | 8.80587E-05 | 0.000142256 |
| n-Octane | 8.20062E-05 | 1.37619E-07 | 0.000824383 * | 8.65782E-08 | 0.00085269 |
| o-Xylene | 0.000170648 | 8.55989E-05 | 0.000100046 * | 5.39273E-05 | 9.92611E-05 |
| trans-1,3-Dimethylcyclohexane | 3.70681E-05 | 2.02101E-07 | 0.000115053 * | 1.27146E-07 | 0.000118971 |
| 1,1,2-Trimethylcyclohexane | 4.29835E-06 | 7.89999E-08 | 0 * | 4.97018E-08 | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylhexane | 1.6918E-07 | 0 | 0 * | 0 | 0 |
| 2,2,4-Trimethylhexane | 4.00942E-06 | 0 | 0.000168078 * | 0 | 0.000173865 |
| 2,2-Dimethylheptane | 1.86056E-07 | 0 | 0 * | 0 | 0 |
| 2,3,4-Trimethylhexane | 1.90322E-06 | 0 | 4.70218E-05 * | 0 | 4.86396E-05 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylheptane | 3.0748E-06 | 2.01588E-09 | 8.50395E-05 * | 1.26822E-09 | 8.79663E-05 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| Isopropylbenzene | 6.59823E-08 | 1.83677E-08 | 0 * | 1.15634E-08 | 0 |
| 1,1,3-Trimethylcyclopentane | 1.3255E-07 | 6.65821E-09 | 0 * | 4.18929E-09 | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| n-Nonane | 1.9412E-06 | 0 | 6.30293E-05 * | 0 | 6.51984E-05 |
| Propylbenzene | 0 | 0 | 0 * | 0 | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 | 0 |
| n-Decane | 3.74876E-07 | 0 | 4.80223E-05 * | 0 | 4.96765E-05 |
| nC11 | 1.93813E-07 | 0 | 6.30293E-05 * | 0 | 6.52009E-05 |
| nC12 | 3.22175E-07 | 0 | 5.30246E-05 * | 0 | 5.48513E-05 |
| nC13 | 7.95223E-07 | 0 | 6.10283E-05 * | 0 | 6.31301E-05 |
| nC14 | 9.08351E-07 | 0 | 4.1019E-05 * | 0 | 4.2431E-05 |
| nC15 | 0 | 0 | 0 * | 0 | 0 |
| H2O | 3.29959 | 6.20149 | 0 * | 40.9224 | 0.289009 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 0.000377277 | 2.64504E-08 | 0 * | 0.0151294 | 2.41002E-06 |
| Piperazine | 3.09392E-05 | 2.6969E-08 | 0 * | 0.00708492 | 1.17201E-05 |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH4 Dry Inlet Gas Composition % | R8 % | To RH4 TEG Dehy % |
|---|---|---|---|---|---|
| H2S | 0.00182839 | 0.00849215 | 0.000608978 * | 0.00679537 | 3.74391E-06 |
| Helium | 9.61596E-05 | 4.81958E-09 | 0.00286217 * | 3.84935E-09 | 0.00307011 |
| Oxygen | 0.00521999 | 7.00544E-06 | 0.007079 * | 5.59528E-06 | 0.00758754 |
| Argon | 0.0051232 | 5.27772E-06 | 0.00883757 * | 4.21535E-06 | 0.00947418 |
| N2 | 0.735398 | 0.000404506 | 2.29551 * | 0.000323078 | 2.46154 |
| CO2 | 22.5199 | 97.1259 | 6.9792 * | 77.6335 | 0.0763855 |
| C1 | 44.7923 | 0.0841891 | 52.696 * | 0.0672423 | 56.4702 |
| C2 | 15.3142 | 0.0461723 | 15.2455 * | 0.0368781 | 16.3333 |
| C3 | 7.97617 | 0.0199219 | 11.2062 * | 0.0159117 | 12.0106 |
| iC4 | 1.02203 | 0.00201038 | 2.09238 * | 0.00160569 | 2.24323 |
| nC4 | 3.23281 | 0.00922167 | 4.85494 * | 0.00736537 | 5.20373 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH4 Amine Treating | | |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH4 Dry Inlet Gas Composition % | R8 % | To RH4 TEG Dehy % |
|---|---|---|---|---|---|
| iC5 | 0.437608 | 0.000615285 | 1.46811 * | 0.000491426 | 1.57433 |
| nC5 | 0.5812 | 0.00105966 | 1.53292 * | 0.00084635 | 1.64367 |
| Neopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylbutane | 0.00509113 | 7.55528E-06 | 0.0188024 * | 6.03436E-06 | 0.020163 |
| 2,3-Dimethylbutane | 0.0116727 | 1.72632E-05 | 0.0429891 * | 1.3788E-05 | 0.0461003 |
| Cyclopentane | 0.0404937 | 0.000273001 | 0.0349862 * | 0.000218054 | 0.0374683 |
| 2-Methylpentane | 0.0956468 | 0.000141117 | 0.363651 * | 0.00011271 | 0.389972 |
| 3-Methylpentane | 0.0441628 | 6.51287E-05 | 0.168833 * | 5.20179E-05 | 0.181053 |
| Benzene | 0.20139 | 0.0463616 | 0.059923 * | 0.0370855 | 0.0609499 |
| Cyclohexane | 0.148694 | 0.00135239 | 0.133962 * | 0.00108019 | 0.143444 |
| Methylcyclopentane | 0.0955498 | 0.00039711 | 0.139115 * | 0.000317176 | 0.149098 |
| C6 | 0.0887948 | 0.000130377 | 0.359017 * | 0.000104131 | 0.385008 |
| 3-Methylhexane | 0.00464401 | 3.69758E-06 | 0.0404297 * | 2.95323E-06 | 0.0433629 |
| 2,2-Dimethylpentane | 0.00049061 | 3.93151E-07 | 0.00394982 * | 3.14007E-07 | 0.00423635 |
| 2,3-Dimethylpentane | 0.00102078 | 8.15192E-07 | 0.00859377 * | 6.51088E-07 | 0.00921722 |
| 2,4-Dimethylhexane | 0.000236634 | 2.2718E-07 | 0.00209311 * | 1.81446E-07 | 0.00224495 |
| Ethylcyclopentane | 0.000785645 | 2.67479E-06 | 0.00179915 * | 2.13637E-06 | 0.00192883 |
| 2,4-Dimethylpentane | 0.000119756 | 9.585E-08 | 0.000953868 * | 7.65546E-08 | 0.00102307 |
| 2-Methylhexane | 0.00390437 | 3.10841E-06 | 0.0339273 * | 2.48266E-06 | 0.0363887 |
| 3-3-Dimethylpentane | 0.000229913 | 1.84053E-07 | 0.00189878 * | 1.47002E-07 | 0.00203652 |
| 1,cis-3-Dimethylcyclopentane | 0.00299334 | 9.64102E-06 | 0.00665903 * | 7.70032E-06 | 0.00713901 |
| 3-Ethylpentane | 0.000803367 | 6.40012E-07 | 0.00679575 * | 5.11173E-07 | 0.00728878 |
| Cycloheptane | 6.29665E-05 | 6.8025E-06 | 0 * | 5.43637E-06 | 0 |
| Methylcyclohexane | 0.0138662 | 5.65263E-05 | 0.0274216 * | 4.51479E-05 | 0.0293951 |
| 2,2-Dimethylhexane | 0.00375907 | 3.61244E-06 | 0.031902 * | 2.88523E-06 | 0.0342163 |
| n-Heptane | 0.00570968 | 4.52217E-06 | 0.0530718 * | 3.61182E-06 | 0.0569225 |
| Toluene | 0.0557449 | 0.013182 | 0.0203464 * | 0.0105405 | 0.0208568 |
| trans-1,2-Dimethylcyclopentane | 0.000767039 | 2.58673E-06 | 0.00162581 * | 2.06603E-06 | 0.00174295 |
| cis-1,2-Dimethylcyclopentane | 0.000828209 | 3.27026E-06 | 0.00162581 * | 2.61198E-06 | 0.00174281 |
| trans-1,3-Dimethylcyclopentane | 0.00538576 | 1.90375E-05 | 0.0112337 * | 1.52054E-05 | 0.0120428 |
| 1-Ethyl-1-Methylcyclopentane | 0.000884777 | 3.42555E-05 | 0.00062688 * | 2.73646E-05 | 0.00066868 |
| 2,2,3-Trimethylpentane | 0.000322519 | 3.04724E-07 | 0.00277209 * | 2.4338E-07 | 0.00297319 |
| 2,3,4-Trimethylpentane | 0.00018969 | 1.78863E-07 | 0.00165917 * | 1.42857E-07 | 0.00177954 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylheptane | 0.000437804 | 4.17682E-07 | 0.00431384 * | 3.33599E-07 | 0.00462683 |
| 4-Methylheptane | 0.000439075 | 4.19219E-07 | 0.00431384 * | 3.34826E-07 | 0.00462682 |
| 3,3-Dimethylhexane | 0.000111211 | 1.06855E-07 | 0.000980186 * | 8.53443E-08 | 0.00105129 |
| 3-Methylheptane | 0.000197612 | 1.88552E-07 | 0.00192464 * | 1.50595E-07 | 0.00206428 |
| cis-1,2-Dimethylcyclohexane | 0.0013814 | 4.58517E-06 | 0.00464894 * | 3.66217E-06 | 0.00498473 |
| cis-1,3-Dimethylcyclohexane | 0.000159787 | 4.40904E-07 | 0.000631895 * | 3.52149E-07 | 0.000677577 |
| Cyclooctane | 0 | 0 | 0 * | 0 | 0 |
| Ethylbenzene | 0.00133536 | 0.00027213 | 0.000735438 * | 0.000217552 | 0.000763453 |
| Ethylcyclohexane | 0.000342901 | 1.46531E-06 | 0.000882647 * | 1.17035E-06 | 0.000946285 |
| m-Xylene | 0.00123416 | 0.000343696 | 0.000680873 * | 0.000274893 | 0.000700071 |
| p-Xylene | 0.00125675 | 0.000350489 | 0.000680873 * | 0.000280326 | 0.000699588 |
| n-Octane | 0.000398916 | 3.71291E-07 | 0.00420663 * | 2.96547E-07 | 0.00451188 |
| o-Xylene | 0.000771512 | 0.00021464 | 0.000474476 * | 0.000171672 | 0.000488148 |
| trans-1,3-Dimethylcyclohexane | 0.000177134 | 5.35636E-07 | 0.00057673 * | 4.27812E-07 | 0.000618405 |
| 1,1,2-Trimethylcyclohexane | 2.31077E-05 | 2.35549E-07 | 0 * | 1.88138E-07 | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylhexane | 9.24027E-07 | 0 | 0 * | 0 | 0 |
| 2,2,4-Trimethylhexane | 2.18986E-05 | 0 | 0.000962979 * | 0 | 0.00103295 |
| 2,2-Dimethylheptane | 1.0162E-06 | 0 | 0 * | 0 | 0 |
| 2,3,4-Trimethylhexane | 1.0395E-05 | 0 | 0.000269405 * | 0 | 0.000288973 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylheptane | 1.67939E-05 | 6.10662E-09 | 0.000487221 * | 4.87729E-09 | 0.000522615 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH4 Amine Treating | | |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH4 Dry Inlet Gas Composition % | R8 % | To RH4 TEG Dehy % |
|---|---|---|---|---|---|
| 2-Methyloctane | 0 | 0 | 0 * | 0 | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| Isopropylbenzene | 3.37724E-07 | 5.21422E-08 | 0 * | 4.16744E-08 | 0 |
| 1,1,3-Trimethylcyclopentane | 6.33404E-07 | 1.76466E-08 | 0 * | 1.40959E-08 | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| n-Nonane | 1.06024E-05 | 0 | 0.000361117 * | 0 | 0.00038735 |
| Propylbenzene | 0 | 0 | 0 * | 0 | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 | 0 |
| n-Decane | 2.27142E-06 | 0 | 0.000305227 * | 0 | 0.00032741 |
| nC11 | 1.29011E-06 | 0 | 0.000440104 * | 0 | 0.000472092 |
| nC12 | 2.33698E-06 | 0 | 0.000403471 * | 0 | 0.000432795 |
| nC13 | 6.24337E-06 | 0 | 0.000502612 * | 0 | 0.000539135 |
| nC14 | 7.67413E-06 | 0 | 0.000363523 * | 0 | 0.000389934 |
| nC15 | 0 | 0 | 0 * | 0 | 0 |
| H2O | 2.5314 | 2.63875 | 0 * | 22.1061 | 0.241181 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 0.00191451 | 7.44444E-08 | 0 * | 0.0540594 | 1.3303E-05 |
| Piperazine | 0.000113488 | 5.48667E-08 | 0 * | 0.018299 | 4.67634E-05 |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH4 Dry Inlet Gas Composition lb/h | R8 lb/h | To RH4 TEG Dehy lb/h |
|---|---|---|---|---|---|
| H2S | 0.0201388 | 6.44131 | 4.33937 * | 6.45345 | 0.0248701 |
| Helium | 0.00105915 | 3.65566E-06 | 20.3948 * | 3.65566E-06 | 20.3941 |
| Oxygen | 0.0574955 | 0.00531364 | 50.4425 * | 0.00531374 | 50.4025 |
| Argon | 0.0564293 | 0.00400316 | 62.9735 * | 0.00400324 | 62.9351 |
| N2 | 8.10002 | 0.306819 | 16357 * | 0.306822 | 16351.5 |
| CO2 | 248.045 | 73670.1 | 49731.4 * | 73727.2 | 507.413 |
| C1 | 493.363 | 63.8576 | 375494 * | 63.8588 | 375120 |
| C2 | 168.678 | 35.0217 | 108634 * | 35.0225 | 108499 |
| C3 | 87.8533 | 15.1108 | 79851.5 * | 15.111 | 79784.2 |
| iC4 | 11.2571 | 1.52488 | 14909.6 * | 1.5249 | 14901.3 |
| nC4 | 35.6077 | 6.99465 | 34594.7 * | 6.99476 | 34567.3 |
| iC5 | 4.82002 | 0.466695 | 10461.3 * | 0.466699 | 10457.9 |
| nC5 | 6.40161 | 0.803756 | 10923.1 * | 0.803764 | 10918.6 |
| Neopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylbutane | 0.0560761 | 0.00573069 | 133.98 * | 0.00573072 | 133.939 |
| 2,3-Dimethylbutane | 0.128569 | 0.0130942 | 306.325 * | 0.0130942 | 306.235 |
| Cyclopentane | 0.446016 | 0.207071 | 249.3 * | 0.207082 | 248.895 |
| 2-Methylpentane | 1.0535 | 0.107038 | 2591.25 * | 0.107038 | 2590.5 |
| 3-Methylpentane | 0.48643 | 0.0494002 | 1203.04 * | 0.0494005 | 1202.7 |
| Benzene | 2.21821 | 35.1653 | 426.991 * | 35.2195 | 404.878 |
| Cyclohexane | 1.63779 | 1.02579 | 954.566 * | 1.02584 | 952.87 |
| Methylcyclopentane | 1.05243 | 0.301209 | 991.284 * | 0.301217 | 990.425 |
| C6 | 0.978028 | 0.0988912 | 2558.24 * | 0.0988918 | 2557.53 |
| 3-Methylhexane | 0.0511513 | 0.00280462 | 288.088 * | 0.00280463 | 288.051 |
| 2,2-Dimethylpentane | 0.00540381 | 0.000298206 | 28.1451 * | 0.000298207 | 28.1412 |
| 2,3-Dimethylpentane | 0.0112433 | 0.000618325 | 61.2363 * | 0.000618327 | 61.2282 |
| 2,4-Dimethylhexane | 0.0026064 | 0.000172316 | 14.9148 * | 0.000172317 | 14.9128 |
| Ethylcyclopentane | 0.00865346 | 0.00202883 | 12.8201 * | 0.00202887 | 12.8128 |
| 2,4-Dimethylpentane | 0.00131905 | 7.27023E-05 | 6.79694 * | 7.27026E-05 | 6.79602 |
| 2-Methylhexane | 0.0430045 | 0.00235773 | 241.754 * | 0.00235774 | 241.723 |
| 3-3-Dimethylpentane | 0.00253237 | 0.000139605 | 13.5301 * | 0.000139605 | 13.5282 |
| 1,cis-3-Dimethylcyclopentane | 0.03297 | 0.00731273 | 47.45 * | 0.00731286 | 47.423 |
| 3-Ethylpentane | 0.00884866 | 0.00048545 | 48.4242 * | 0.000485452 | 48.4179 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH4 Amine Treating | | |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH4 Dry Inlet Gas Composition lb/h | R8 lb/h | To RH4 TEG Dehy lb/h |
|---|---|---|---|---|---|
| Cycloheptane | 0.000693543 | 0.00515971 | 0 * | 0.00516283 | 0 |
| Methylcyclohexane | 0.152729 | 0.0428753 | 195.397 * | 0.0428762 | 195.266 |
| 2,2-Dimethylhexane | 0.0414041 | 0.00274004 | 227.323 * | 0.00274005 | 227.292 |
| n-Heptane | 0.0628891 | 0.00343008 | 378.171 * | 0.00343009 | 378.125 |
| Toluene | 0.614 | 9.99853 | 144.982 * | 10.0101 | 138.547 |
| trans-1,2-Dimethylcyclopentane | 0.00844853 | 0.00196204 | 11.585 * | 0.00196207 | 11.5781 |
| cis-1,2-Dimethylcyclopentane | 0.00912228 | 0.0024805 | 11.585 * | 0.00248055 | 11.5771 |
| trans-1,3-Dimethylcyclopentane | 0.0593213 | 0.01444 | 80.0474 * | 0.0144403 | 79.9976 |
| 1-Ethyl-1-Methylcyclopentane | 0.00974536 | 0.0259828 | 4.46693 * | 0.0259877 | 4.44191 |
| 2,2,3-Trimethylpentane | 0.00355237 | 0.000231134 | 19.753 * | 0.000231134 | 19.7503 |
| 2,3,4-Trimethylpentane | 0.00208933 | 0.000135668 | 11.8227 * | 0.000135669 | 11.8211 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylheptane | 0.00482218 | 0.000316813 | 30.7389 * | 0.000316813 | 30.7351 |
| 4-Methylheptane | 0.00483618 | 0.000317978 | 30.7389 * | 0.000317979 | 30.7351 |
| 3,3-Dimethylhexane | 0.00122493 | 8.10498E-05 | 6.98447 * | 8.105E-05 | 6.98353 |
| 3-Methylheptane | 0.00217659 | 0.000143017 | 13.7143 * | 0.000143018 | 13.7126 |
| cis-1,2-Dimethylcyclohexane | 0.0152153 | 0.00347786 | 33.1268 * | 0.0034779 | 33.1126 |
| cis-1,3-Dimethylcyclohexane | 0.00175996 | 0.000334426 | 4.50267 * | 0.00033443 | 4.50101 |
| Cyclooctane | 0 | 0 | 0 * | 0 | 0 |
| Ethylbenzene | 0.0147083 | 0.206411 | 5.24048 * | 0.206606 | 5.07147 |
| Ethylcyclohexane | 0.00377687 | 0.00111144 | 6.28944 * | 0.00111146 | 6.28598 |
| m-Xylene | 0.0135936 | 0.260694 | 4.85167 * | 0.261061 | 4.65043 |
| p-Xylene | 0.0138425 | 0.265846 | 4.85167 * | 0.266221 | 4.64722 |
| n-Octane | 0.00439385 | 0.000281625 | 29.975 * | 0.000281625 | 29.9715 |
| o-Xylene | 0.0084978 | 0.162805 | 3.38095 * | 0.163034 | 3.24267 |
| trans-1,3-Dimethylcyclohexane | 0.00195104 | 0.000406281 | 4.10958 * | 0.000406286 | 4.10794 |
| 1,1,2-Trimethylcyclohexane | 0.000254519 | 0.000178665 | 0 * | 0.000178672 | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylhexane | 1.01777E-05 | 0 | 0 * | 0 | 0 |
| 2,2,4-Trimethylhexane | 0.000241202 | 0 | 6.86186 * | 0 | 6.86168 |
| 2,2-Dimethylheptane | 1.11929E-05 | 0 | 0 * | 0 | 0 |
| 2,3,4-Trimethylhexane | 0.000114495 | 0 | 1.91969 * | 0 | 1.91959 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylheptane | 0.000184976 | 4.63188E-06 | 3.47177 * | 4.63188E-06 | 3.47163 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| Isopropylbenzene | 3.71985E-06 | 3.955E-05 | 0 * | 3.95774E-05 | 0 |
| 1,1,3-Trimethylcyclopentane | 6.97661E-06 | 1.33849E-05 | 0 * | 1.33866E-05 | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| n-Nonane | 0.00011678 | 0 | 2.5732 * | 0 | 2.57309 |
| Propylbenzene | 0 | 0 | 0 * | 0 | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 | 0 |
| n-Decane | 2.50185E-05 | 0 | 2.17494 * | 0 | 2.17492 |
| nC11 | 1.42098E-05 | 0 | 3.13603 * | 0 | 3.13602 |
| nC12 | 2.57406E-05 | 0 | 2.87499 * | 0 | 2.87497 |
| nC13 | 6.87674E-05 | 0 | 3.58144 * | 0 | 3.58137 |
| nC14 | 8.45265E-05 | 0 | 2.59034 * | 0 | 2.59025 |
| nC15 | 0 | 0 | 0 * | 0 | 0 |
| H2O | 27.882 | 2001.49 | 0 * | 20993.8 | 1602.12 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 0.0210874 | 5.64662E-05 | 0 * | 51.3392 | 0.0883694 |
| Piperazine | 0.00125001 | 4.16165E-05 | 0 * | 17.3783 | 0.31064 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH4 Amine Treating | | |

## Stream Properties

| Property | Units | Flash Gas | G_Acid Gas | RH4 Dry Inlet Gas Composition | | R8 | To RH4 TEG Dehy |
|---|---|---|---|---|---|---|---|
| Temperature | °F | 150.501 | 120.002 | 90 | * | 206.975 | 129.209 |
| Pressure | psig | 85 | 13 | 900 | * | 14 | 877 |
| Molecular Weight | lb/lbmol | 23.4823 | 42.3389 | 22.3856 | | 33.3495 | 21.5878 |
| Mass Density | lb/ft^3 | 0.363476 | 0.190144 | 4.37201 | | 0.134898 | 3.59078 |
| Mass Flow | lb/h | 1101.45 | 75850.2 | 712566 | | 94968.3 | 664280 |
| Std Vapor Volumetric Flow | MMSCFD | 0.427197 | 16.3163 | 289.908 | | 25.9354 | 280.251 |
| Std Liquid Volumetric Flow | sgpm | 5.48662 | 185.065 | 3862.58 | | 223.318 | 3741.59 |
| Specific Gravity | | 0.810781 | 1.46185 | 0.772917 | | 1.15147 | 0.745371 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1062.07 | 8.66275 | 1230.73 | | 24.9105 | 1272 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH4 Amine Treating | | |

## Connections

| | To RH6 Contactor A | | | | |
|---|---|---|---|---|---|
| From Block | XFS2 | | | | |
| To Block | RH6 Gas/Gas HX A | | | | |

## Stream Composition

| Mole Fraction | To RH6 Contactor A % | | | | |
|---|---|---|---|---|---|
| H2S | 0.000398331 | | | | |
| Helium | 0.0166351 | | | | |
| Oxygen | 0.00561447 | | | | |
| Argon | 0.00561343 | | | | |
| N2 | 1.90924 | | | | |
| CO2 | 3.56815 | | | | |
| C1 | 72.1821 | | | | |
| C2 | 11.5552 | | | | |
| C3 | 6.11626 | | | | |
| iC4 | 0.8965 | | | | |
| nC4 | 2.13175 | | | | |
| iC5 | 0.545536 | | | | |
| nC5 | 0.574202 | | | | |
| Neopentane | 0 | | | | |
| 2,2-Dimethylbutane | 0.00517838 | | | | |
| 2,3-Dimethylbutane | 0.0131007 | | | | |
| Cyclopentane | 0.0139213 | | | | |
| 2-Methylpentane | 0.107774 | | | | |
| 3-Methylpentane | 0.049879 | | | | |
| Benzene | 0.0241769 | | | | |
| Cyclohexane | 0.041811 | | | | |
| Methylcyclopentane | 0.0436706 | | | | |
| C6 | 0.1017 | | | | |
| 3-Methylhexane | 0.00843751 | | | | |
| 2,2-Dimethylpentane | 0.000866849 | | | | |
| 2,3-Dimethylpentane | 0.00182649 | | | | |
| 2,4-Dimethylhexane | 0.000342151 | | | | |
| Ethylcyclopentane | 0.000390745 | | | | |
| 2,4-Dimethylpentane | 0.000223911 | | | | |
| 2-Methylhexane | 0.00711369 | | | | |
| 3-3-Dimethylpentane | 0.000399223 | | | | |
| 1,cis-3-Dimethylcyclopentane | 0.00153811 | | | | |
| 3-Ethylpentane | 0.00152839 | | | | |
| Cycloheptane | 2.16203E-05 | | | | |
| Methylcyclohexane | 0.00635387 | | | | |
| 2,2-Dimethylhexane | 0.00579349 | | | | |
| n-Heptane | 0.0104955 | | | | |
| Toluene | 0.00657804 | | | | |
| trans-1,2-Dimethylcyclopentane | 0.000386256 | | | | |
| cis-1,2-Dimethylcyclopentane | 0.000360923 | | | | |
| trans-1,3-Dimethylcyclopentane | 0.00251799 | | | | |
| 1-Ethyl-1-Methylcyclopentane | 0.000110484 | | | | |
| 2,2,3-Trimethylpentane | 0.000468038 | | | | |
| 2,3,4-Trimethylpentane | 0.000281965 | | | | |
| 2,5-Dimethylhexane | 0 | | | | |
| 2-Methylheptane | 0.000586141 | | | | |
| 4-Methylheptane | 0.00057779 | | | | |
| 3,3-Dimethylhexane | 0.000158022 | | | | |
| 3-Methylheptane | 0.000273451 | | | | |
| cis-1,2-Dimethylcyclohexane | 0.000611111 | | | | |
| cis-1,3-Dimethylcyclohexane | 6.89256E-05 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH4 Amine Treating | |

## Stream Composition

| Mole Fraction | To RH6 Contactor A % | | | | |
|---|---|---|---|---|---|
| Cyclooctane | 0 | | | | |
| Ethylbenzene | 9.80541E-05 | | | | |
| Ethylcyclohexane | 0.000151755 | | | | |
| m-Xylene | 0.000106555 | | | | |
| p-Xylene | 0.000108052 | | | | |
| n-Octane | 0.000560215 | | | | |
| o-Xylene | 4.88446E-05 | | | | |
| trans-1,3-Dimethylcyclohexane | 0.000105221 | | | | |
| 1,1,2-Trimethylcyclohexane | 1.80331E-05 | | | | |
| 1,2,3-Trimethylbenzene | 0 | | | | |
| 1,2,4-Trimethylbenzene | 0 | | | | |
| tert-Butylbenzene | 0 | | | | |
| 1,3,5-Trimethylbenzene | 0 | | | | |
| 2,2,3-Trimethylhexane | 1.9845E-05 | | | | |
| 2,2,4-Trimethylhexane | 0.000129938 | | | | |
| 2,2-Dimethylheptane | 1.58847E-05 | | | | |
| 2,3,4-Trimethylhexane | 1.88545E-05 | | | | |
| 2,4,4-Trimethylhexane | 0 | | | | |
| 2,5-Dimethylheptane | 5.91543E-05 | | | | |
| 2-Methyloctane | 0 | | | | |
| 3,4-Dimethylheptane | 0 | | | | |
| Isopropylbenzene | 1.18156E-07 | | | | |
| 1,1,3-Trimethylcyclopentane | 2.74637E-07 | | | | |
| m-Ethyltoluene | 0 | | | | |
| p-Ethyltoluene | 0 | | | | |
| n-Nonane | 1.17565E-05 | | | | |
| Propylbenzene | 0 | | | | |
| Propylcyclohexane | 0 | | | | |
| 4-Methylnonane | 0 | | | | |
| n-Decane | 0 | | | | |
| nC11 | 0 | | | | |
| nC12 | 0 | | | | |
| nC13 | 6.22583E-07 | | | | |
| nC14 | 2.79462E-07 | | | | |
| nC15 | 0 | | | | |
| H2O | 0.0317757 | | | | |
| CHEMTHERM 550 | 0 | | | | |
| UCARSOL™ AP-814 | 0 | | | | |
| MDEA | 0 | | | | |
| Piperazine | 0 | | | | |

| Mass Fraction | To RH6 Contactor A % | | | | |
|---|---|---|---|---|---|
| H2S | 0.00059449 | | | | |
| Helium | 0.00291579 | | | | |
| Oxygen | 0.00786741 | | | | |
| Argon | 0.00982003 | | | | |
| N2 | 2.34215 | | | | |
| CO2 | 6.87669 | | | | |
| C1 | 50.7096 | | | | |
| C2 | 15.2155 | | | | |
| C3 | 11.8106 | | | | |
| iC4 | 2.28182 | | | | |
| nC4 | 5.42586 | | | | |
| iC5 | 1.72362 | | | | |
| nC5 | 1.81419 | | | | |
| Neopentane | 0 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH4 Amine Treating | |

| Mass Fraction | To RH6 Contactor A % | | | | |
|---|---|---|---|---|---|
| 2,2-Dimethylbutane | 0.0195419 | | | | |
| 2,3-Dimethylbutane | 0.0494386 | | | | |
| Cyclopentane | 0.0427554 | | | | |
| 2-Methylpentane | 0.406714 | | | | |
| 3-Methylpentane | 0.188231 | | | | |
| Benzene | 0.0827003 | | | | |
| Cyclohexane | 0.154093 | | | | |
| Methylcyclopentane | 0.160947 | | | | |
| C6 | 0.38379 | | | | |
| 3-Methylhexane | 0.0370237 | | | | |
| 2,2-Dimethylpentane | 0.00380373 | | | | |
| 2,3-Dimethylpentane | 0.00801464 | | | | |
| 2,4-Dimethylhexane | 0.00171152 | | | | |
| Ethylcyclopentane | 0.00168009 | | | | |
| 2,4-Dimethylpentane | 0.000982519 | | | | |
| 2-Methylhexane | 0.0312148 | | | | |
| 3-3-Dimethylpentane | 0.00175179 | | | | |
| 1,cis-3-Dimethylcyclopentane | 0.00661343 | | | | |
| 3-Ethylpentane | 0.00670657 | | | | |
| Cycloheptane | 9.29611E-05 | | | | |
| Methylcyclohexane | 0.0273198 | | | | |
| 2,2-Dimethylhexane | 0.0289804 | | | | |
| n-Heptane | 0.046054 | | | | |
| Toluene | 0.0265416 | | | | |
| trans-1,2-Dimethylcyclopentane | 0.00166079 | | | | |
| cis-1,2-Dimethylcyclopentane | 0.00155187 | | | | |
| trans-1,3-Dimethylcyclopentane | 0.0108266 | | | | |
| 1-Ethyl-1-Methylcyclopentane | 0.000542915 | | | | |
| 2,2,3-Trimethylpentane | 0.00234124 | | | | |
| 2,3,4-Trimethylpentane | 0.00141045 | | | | |
| 2,5-Dimethylhexane | 0 | | | | |
| 2-Methylheptane | 0.00293202 | | | | |
| 4-Methylheptane | 0.00289024 | | | | |
| 3,3-Dimethylhexane | 0.000790465 | | | | |
| 3-Methylheptane | 0.00136787 | | | | |
| cis-1,2-Dimethylcyclohexane | 0.00300297 | | | | |
| cis-1,3-Dimethylcyclohexane | 0.000338697 | | | | |
| Cyclooctane | 0 | | | | |
| Ethylbenzene | 0.000455866 | | | | |
| Ethylcyclohexane | 0.000745719 | | | | |
| m-Xylene | 0.000495389 | | | | |
| p-Xylene | 0.000502346 | | | | |
| n-Octane | 0.00280233 | | | | |
| o-Xylene | 0.000227085 | | | | |
| trans-1,3-Dimethylcyclohexane | 0.000517053 | | | | |
| 1,1,2-Trimethylcyclohexane | 9.96905E-05 | | | | |
| 1,2,3-Trimethylbenzene | 0 | | | | |
| 1,2,4-Trimethylbenzene | 0 | | | | |
| tert-Butylbenzene | 0 | | | | |
| 1,3,5-Trimethylbenzene | 0 | | | | |
| 2,2,3-Trimethylhexane | 0.000111459 | | | | |
| 2,2,4-Trimethylhexane | 0.000729794 | | | | |
| 2,2-Dimethylheptane | 8.92159E-05 | | | | |
| 2,3,4-Trimethylhexane | 0.000105896 | | | | |
| 2,4,4-Trimethylhexane | 0 | | | | |
| 2,5-Dimethylheptane | 0.000332239 | | | | |
| 2-Methyloctane | 0 | | | | |
| 3,4-Dimethylheptane | 0 | | | | |
| Isopropylbenzene | 6.21899E-07 | | | | |
| 1,1,3-Trimethylcyclopentane | 1.34956E-06 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH4 Amine Treating | |

| Mass Fraction | To RH6 Contactor A % | | | | |
|---|---|---|---|---|---|
| m-Ethyltoluene | 0 | | | | |
| p-Ethyltoluene | 0 | | | | |
| n-Nonane | 6.60303E-05 | | | | |
| Propylbenzene | 0 | | | | |
| Propylcyclohexane | 0 | | | | |
| 4-Methylnonane | 0 | | | | |
| n-Decane | 0 | | | | |
| nC11 | 0 | | | | |
| nC12 | 0 | | | | |
| nC13 | 5.0264E-06 | | | | |
| nC14 | 2.42789E-06 | | | | |
| nC15 | 0 | | | | |
| H2O | 0.0250684 | | | | |
| CHEMTHERM 550 | 0 | | | | |
| UCARSOL™ AP-814 | 0 | | | | |
| MDEA | 0 | | | | |
| Piperazine | 0 | | | | |

| Mass Flow | To RH6 Contactor A lb/h | | | | |
|---|---|---|---|---|---|
| H2S | 2.16131 | | | | |
| Helium | 10.6006 | | | | |
| Oxygen | 28.6026 | | | | |
| Argon | 35.7015 | | | | |
| N2 | 8515.07 | | | | |
| CO2 | 25000.7 | | | | |
| C1 | 184359 | | | | |
| C2 | 55317.3 | | | | |
| C3 | 42938.3 | | | | |
| iC4 | 8295.75 | | | | |
| nC4 | 19726.1 | | | | |
| iC5 | 6266.37 | | | | |
| nC5 | 6595.64 | | | | |
| Neopentane | 0 | | | | |
| 2,2-Dimethylbutane | 71.0461 | | | | |
| 2,3-Dimethylbutane | 179.738 | | | | |
| Cyclopentane | 155.44 | | | | |
| 2-Methylpentane | 1478.64 | | | | |
| 3-Methylpentane | 684.328 | | | | |
| Benzene | 300.663 | | | | |
| Cyclohexane | 560.217 | | | | |
| Methylcyclopentane | 585.134 | | | | |
| C6 | 1395.3 | | | | |
| 3-Methylhexane | 134.603 | | | | |
| 2,2-Dimethylpentane | 13.8287 | | | | |
| 2,3-Dimethylpentane | 29.1379 | | | | |
| 2,4-Dimethylhexane | 6.22237 | | | | |
| Ethylcyclopentane | 6.10811 | | | | |
| 2,4-Dimethylpentane | 3.57202 | | | | |
| 2-Methylhexane | 113.484 | | | | |
| 3-3-Dimethylpentane | 6.36876 | | | | |
| 1,cis-3-Dimethylcyclopentane | 24.0436 | | | | |
| 3-Ethylpentane | 24.3822 | | | | |
| Cycloheptane | 0.337967 | | | | |
| Methylcyclohexane | 99.3233 | | | | |
| 2,2-Dimethylhexane | 105.361 | | | | |
| n-Heptane | 167.433 | | | | |
| Toluene | 96.494 | | | | |
| trans-1,2-Dimethylcyclopentane | 6.03793 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH4 Amine Treating | |

| Mass Flow | To RH6 Contactor A lb/h | | | | |
|---|---|---|---|---|---|
| cis-1,2-Dimethylcyclopentane | 5.64193 | | | | |
| trans-1,3-Dimethylcyclopentane | 39.3611 | | | | |
| 1-Ethyl-1-Methylcyclopentane | 1.97381 | | | | |
| 2,2,3-Trimethylpentane | 8.51176 | | | | |
| 2,3,4-Trimethylpentane | 5.12781 | | | | |
| 2,5-Dimethylhexane | 0 | | | | |
| 2-Methylheptane | 10.6596 | | | | |
| 4-Methylheptane | 10.5077 | | | | |
| 3,3-Dimethylhexane | 2.8738 | | | | |
| 3-Methylheptane | 4.97298 | | | | |
| cis-1,2-Dimethylcyclohexane | 10.9175 | | | | |
| cis-1,3-Dimethylcyclohexane | 1.23136 | | | | |
| Cyclooctane | 0 | | | | |
| Ethylbenzene | 1.65734 | | | | |
| Ethylcyclohexane | 2.71112 | | | | |
| m-Xylene | 1.80103 | | | | |
| p-Xylene | 1.82632 | | | | |
| n-Octane | 10.1881 | | | | |
| o-Xylene | 0.825584 | | | | |
| trans-1,3-Dimethylcyclohexane | 1.87979 | | | | |
| 1,1,2-Trimethylcyclohexane | 0.362433 | | | | |
| 1,2,3-Trimethylbenzene | 0 | | | | |
| 1,2,4-Trimethylbenzene | 0 | | | | |
| tert-Butylbenzene | 0 | | | | |
| 1,3,5-Trimethylbenzene | 0 | | | | |
| 2,2,3-Trimethylhexane | 0.405219 | | | | |
| 2,2,4-Trimethylhexane | 2.65322 | | | | |
| 2,2-Dimethylheptane | 0.324351 | | | | |
| 2,3,4-Trimethylhexane | 0.384992 | | | | |
| 2,4,4-Trimethylhexane | 0 | | | | |
| 2,5-Dimethylheptane | 1.20788 | | | | |
| 2-Methyloctane | 0 | | | | |
| 3,4-Dimethylheptane | 0 | | | | |
| Isopropylbenzene | 0.00226096 | | | | |
| 1,1,3-Trimethylcyclopentane | 0.00490642 | | | | |
| m-Ethyltoluene | 0 | | | | |
| p-Ethyltoluene | 0 | | | | |
| n-Nonane | 0.240058 | | | | |
| Propylbenzene | 0 | | | | |
| Propylcyclohexane | 0 | | | | |
| 4-Methylnonane | 0 | | | | |
| n-Decane | 0 | | | | |
| nC11 | 0 | | | | |
| nC12 | 0 | | | | |
| nC13 | 0.0182739 | | | | |
| nC14 | 0.00882677 | | | | |
| nC15 | 0 | | | | |
| H2O | 91.1381 | | | | |
| CHEMTHERM 550 | 0 | | | | |
| UCARSOL™ AP-814 | 0 | | | | |
| MDEA | 0 | | | | |
| Piperazine | 0 | | | | |

## Stream Properties

| Property | Units | To RH6 Contactor A | | | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 89.8921 | | | | |
| Pressure | psig | 898 | | | | |
| Molecular Weight | lb/lbmol | 22.8355 | | | | |

* User Specified Values
? Extrapolated or Approximate Values

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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH4 Amine Treating | | |

## Stream Properties

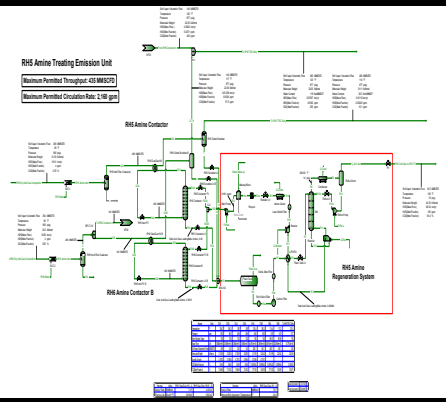
| Property | Units | To RH6 Contactor A | | | | |
|---|---|---|---|---|---|---|
| Mass Density | lb/ft^3 | 4.50747 | | | | |
| Mass Flow | lb/h | 363558 | | | | |
| Std Vapor Volumetric Flow | MMSCFD | 145 | | | | |
| Std Liquid Volumetric Flow | sgpm | 1947.54 | | | | |
| Specific Gravity | | 0.78845 | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1252.69 | | | | |

**Remarks**


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# RH5 Amine Treating
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH5 Amine Treating | |






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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH5 Amine Treating | | |

## Connections

| | Flash Gas | G_Acid Gas | RH5 Dry Inlet Gas Composition | RH6 Dry Inlet Gas Composition | R8 |
|---|---|---|---|---|---|
| From Block | Flash Tank | Reflux Drum | -- | -- | Still |
| To Block | -- | PV | SAT-1 | SAT-2 | Condenser |

## Stream Composition

| Mole Fraction | Flash Gas % | G_Acid Gas % | RH5 Dry Inlet Gas Composition % | RH6 Dry Inlet Gas Composition % | R8 % |
|---|---|---|---|---|---|
| H2S | 0.00123131 | 0.0104913 | 0.0004 * | 0.0004 * | 0.00637324 |
| Helium | 0.000636687 | 7.71476E-08 | 0.0166796 * | 0.0164182 * | 4.67679E-08 |
| Oxygen | 0.00250465 | 6.80355E-06 | 0.00259683 * | 0.00555618 * | 4.12449E-06 |
| Argon | 0.00191089 | 3.86482E-06 | 0.00259683 * | 0.00555618 * | 2.34296E-06 |
| N2 | 0.559081 | 0.000615043 | 1.79551 * | 1.8867 * | 0.000372851 |
| CO2 | 11.9564 | 93.3784 | 3.55 * | 3.55 * | 56.6559 |
| C1 | 64.9167 | 0.25806 | 74.6292 * | 71.5206 * | 0.156443 |
| C2 | 11.9807 | 0.0772019 | 11.295 * | 11.5766 * | 0.046802 |
| C3 | 4.22613 | 0.0228541 | 5.40879 * | 6.24874 * | 0.0138547 |
| iC4 | 0.405791 | 0.00177496 | 0.71223 * | 0.94495 * | 0.00107602 |
| nC4 | 1.2251 | 0.00756926 | 1.57757 * | 2.28614 * | 0.00458867 |
| iC5 | 0.121075 | 0.00034884 | 0.344479 * | 0.622592 * | 0.000211474 |
| nC5 | 0.161303 | 0.000614534 | 0.350272 * | 0.673649 * | 0.000372543 |
| Neopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylbutane | 0.00114409 | 3.68799E-06 | 0.00322906 * | 0.00645117 * | 2.23572E-06 |
| 2,3-Dimethylbutane | 0.0029474 | 9.47015E-06 | 0.00888864 * | 0.0170695 * | 5.74097E-06 |
| Cyclopentane | 0.0118847 | 0.00016191 | 0.00888864 * | 0.0170695 * | 9.81578E-05 |
| 2-Methylpentane | 0.0224397 | 7.19373E-05 | 0.0662191 * | 0.142022 * | 4.36096E-05 |
| 3-Methylpentane | 0.0104421 | 3.34609E-05 | 0.0311689 * | 0.0668603 * | 2.02846E-05 |
| Benzene | 0.061411 | 0.0287758 | 0.0160624 * | 0.0335653 * | 0.0174739 |
| Cyclohexane | 0.039682 | 0.000775727 | 0.0302261 * | 0.0625775 * | 0.00047028 |
| Methylcyclopentane | 0.0232667 | 0.000201313 | 0.0281666 * | 0.0612621 * | 0.000122042 |
| C6 | 0.020848 | 6.65317E-05 | 0.065478 * | 0.143111 * | 4.03327E-05 |
| 3-Methylhexane | 0.000946872 | 1.60038E-06 | 0.00669382 * | 0.0145081 * | 9.70178E-07 |
| 2,2-Dimethylpentane | 9.67373E-05 | 1.64504E-07 | 0.000620242 * | 0.00129444 * | 9.97251E-08 |
| 2,3-Dimethylpentane | 0.000213779 | 3.62344E-07 | 0.00148718 * | 0.00304739 * | 2.19659E-07 |
| 2,4-Dimethylhexane | 5.23563E-05 | 1.1311E-07 | 0.000381534 * | 0.000740323 * | 6.8569E-08 |
| Ethylcyclopentane | 0.000183777 | 1.27624E-06 | 0.000381534 * | 0.000740323 * | 7.73688E-07 |
| 2,4-Dimethylpentane | 2.41338E-05 | 4.09941E-08 | 0.000153812 * | 0.000340378 * | 2.48513E-08 |
| 2-Methylhexane | 0.000782259 | 1.32204E-06 | 0.00546033 * | 0.0118652 * | 8.01442E-07 |
| 3-3-Dimethylpentane | 4.66423E-05 | 7.92357E-08 | 0.000313617 * | 0.000636708 * | 4.80339E-08 |
| 1,cis-3-Dimethylcyclopentane | 0.000648782 | 4.29945E-06 | 0.00124748 * | 0.00265695 * | 2.60643E-06 |
| 3-Ethylpentane | 0.00017536 | 2.9654E-07 | 0.00124748 * | 0.00265695 * | 1.79767E-07 |
| Cycloheptane | 5.77369E-05 | 1.2844E-05 | 2.69671E-05 * | 4.70523E-05 * | 7.79139E-06 |
| Methylcyclohexane | 0.00341614 | 2.94096E-05 | 0.00603163 * | 0.0119608 * | 1.78289E-05 |
| 2,2-Dimethylhexane | 0.000852897 | 1.84432E-06 | 0.00603163 * | 0.0119608 * | 1.11806E-06 |
| n-Heptane | 0.00121091 | 2.03644E-06 | 0.00933659 * | 0.0195988 * | 1.23452E-06 |
| Toluene | 0.0178311 | 0.00865579 | 0.00635624 * | 0.0123828 * | 0.00525395 |
| trans-1,2-Dimethylcyclopentane | 0.000162647 | 1.1189E-06 | 0.000296638 * | 0.00064822 * | 6.78306E-07 |
| cis-1,2-Dimethylcyclopentane | 0.000174917 | 1.4012E-06 | 0.000296638 * | 0.00064822 * | 8.49448E-07 |
| trans-1,3-Dimethylcyclopentane | 0.00111859 | 8.00194E-06 | 0.00200855 * | 0.00447998 * | 4.85099E-06 |
| 1-Ethyl-1-Methylcyclopentane | 0.000254999 | 2.04198E-05 | 0.000174786 * | 0.000269299 * | 1.23813E-05 |
| 2,2,3-Trimethylpentane | 7.03256E-05 | 1.45816E-07 | 0.000513373 * | 0.000997108 * | 8.8396E-08 |
| 2,3,4-Trimethylpentane | 4.28694E-05 | 8.87171E-08 | 0.000322606 * | 0.000635707 * | 5.37816E-08 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methylheptane | 0.000103531 | 2.22337E-07 | 0.000855455 * | 0.00144561 * | 1.34784E-07 |
| 4-Methylheptane | 0.000103815 | 2.23113E-07 | 0.000855455 * | 0.00144561 * | 1.35254E-07 |
| 3,3-Dimethylhexane | 2.67464E-05 | 5.78257E-08 | 0.000200755 * | 0.000350389 * | 3.50548E-08 |
| 3-Methylheptane | 4.81709E-05 | 1.0346E-07 | 0.000397514 * | 0.000695773 * | 6.2719E-08 |
| cis-1,2-Dimethylcyclohexane | 0.000314855 | 2.29448E-06 | 0.000901898 * | 0.00163181 * | 1.39097E-06 |
| cis-1,3-Dimethylcyclohexane | 4.47731E-05 | 2.73808E-07 | 0.000156808 * | 0.000169188 * | 1.65988E-07 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH5 Amine Treating | |

## Stream Composition

| Mole Fraction | Flash Gas % | G_Acid Gas % | RH5 Dry Inlet Gas Composition % | RH6 Dry Inlet Gas Composition % | R8 % |
|---|---|---|---|---|---|
| Cyclooctane | 0 | 0 | 0 * | 0 * | 0 |
| Ethylbenzene | 0.000523054 | 0.000209768 | 0.000284652 * | 0.000282314 * | 0.000127296 |
| Ethylcyclohexane | 0.000122995 | 1.15157E-06 | 0.000310621 * | 0.000428476 * | 6.9811E-07 |
| m-Xylene | 0.000411427 | 0.000219834 | 0.00022073 * | 0.000319855 * | 0.000133473 |
| p-Xylene | 0.000418729 | 0.000224062 | 0.00022073 * | 0.000319855 * | 0.000136041 |
| n-Octane | 0.000110192 | 2.2526E-07 | 0.00104273 * | 0.00161479 * | 1.36556E-07 |
| o-Xylene | 0.000235233 | 0.000125587 | 0.000133837 * | 0.000155172 * | 7.6251E-05 |
| trans-1,3-Dimethylcyclohexane | 1.22182E-05 | 8.14375E-08 | 0 * | 0.000262292 * | 4.93691E-08 |
| 1,1,2-Trimethylcyclohexane | 3.51216E-05 | 7.62538E-07 | 5.59317E-05 * | 5.40601E-05 * | 4.62281E-07 |
| 1,2,3-Trimethylbenzene | 7.05948E-05 | 5.98322E-05 | 5.19366E-05 * | 0 * | 3.63509E-05 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,3,5-Trimethylbenzene | 9.13981E-05 | 3.31735E-05 | 7.49085E-05 * | 0 * | 2.01283E-05 |
| 2,2,3-Trimethylhexane | 1.23562E-06 | 0 | 4.89402E-05 * | 5.40601E-05 * | 0 |
| 2,2,4-Trimethylhexane | 5.29347E-06 | 2.65976E-09 | 0.000195761 * | 0.000324361 * | 1.61238E-09 |
| 2,2-Dimethylheptane | 1.83684E-06 | 0 | 5.69305E-05 * | 5.50612E-05 * | 0 |
| 2,3,4-Trimethylhexane | 3.32671E-06 | 3.40385E-09 | 7.49085E-05 * | 6.80757E-05 * | 2.06347E-09 |
| 2,4,4-Trimethylhexane | 5.80618E-06 | 4.91904E-09 | 0.000170791 * | 0 * | 2.98199E-09 |
| 2,5-Dimethylheptane | 5.39549E-06 | 4.44339E-09 | 0.000142826 * | 0.000206229 * | 2.69364E-09 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 * | 0 |
| 3,4-Dimethylheptane | 1.641E-06 | 0 | 4.19488E-05 * | 0 * | 0 |
| Isopropylbenzene | 7.08802E-08 | 2.25268E-08 | 0 * | 5.00556E-07 * | 1.36665E-08 |
| 1,1,3-Trimethylcyclopentane | 1.39454E-07 | 8.17768E-09 | 0 * | 5.00556E-07 * | 4.9581E-09 |
| m-Ethyltoluene | 3.34578E-05 | 1.09281E-05 | 2.69671E-05 * | 0 * | 6.63002E-06 |
| p-Ethyltoluene | 3.41131E-05 | 1.47095E-05 | 2.69671E-05 * | 0 * | 8.9268E-06 |
| n-Nonane | 3.83637E-06 | 3.56452E-09 | 0.000112862 * | 6.30701E-05 * | 2.16086E-09 |
| Propylbenzene | 0.000131594 | 4.48204E-05 | 0.000104872 * | 0 * | 2.71934E-05 |
| Propylcyclohexane | 1.74395E-05 | 4.64564E-07 | 2.99634E-05 * | 0 * | 2.81642E-07 |
| 4-Methylnonane | 1.66675E-05 | 3.38367E-07 | 4.09498E-05 * | 0 * | 2.05133E-07 |
| n-Decane | 3.4881E-07 | 0 | 4.095E-05 * | 0 * | 0 |
| nC11 | 1.4942E-07 | 0 | 4.29473E-05 * | 0 * | 0 |
| nC12 | 0 | 0 | 0 * | 0 * | 0 |
| nC13 | 3.19019E-13 | 0 | 0 * | 4.70523E-05 * | 0 |
| nC14 | 2.02309E-13 | 0 | 0 * | 4.20467E-05 * | 0 |
| nC15 | 0 | 0 | 0 * | 0 * | 0 |
| H2O | 4.21546 | 6.20225 | 0 * | 0 * | 43.0659 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 * | 0 |
| MDEA | 0.000615986 | 2.69857E-08 | 0 * | 0 * | 0.0161888 |
| Piperazine | 6.84976E-05 | 2.81033E-08 | 0 * | 0 * | 0.00775527 |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH5 Dry Inlet Gas Composition % | RH6 Dry Inlet Gas Composition % | R8 % |
|---|---|---|---|---|---|
| H2S | 0.00179318 | 0.00844681 | 0.00062162 * | 0.000587617 * | 0.00662424 |
| Helium | 0.000108897 | 7.29486E-09 | 0.00304427 * | 0.00283265 * | 5.70894E-09 |
| Oxygen | 0.00342474 | 5.14306E-06 | 0.00378906 * | 0.00766361 * | 4.02503E-06 |
| Argon | 0.00326194 | 3.64734E-06 | 0.00473034 * | 0.00956742 * | 2.85446E-06 |
| N2 | 0.669247 | 0.000407027 | 2.29355 * | 2.2782 * | 0.000318542 |
| CO2 | 22.485 | 97.0834 | 7.12409 * | 6.7344 * | 76.0426 |
| C1 | 44.5013 | 0.0978012 | 54.5927 * | 49.4568 * | 0.0765407 |
| C2 | 15.3938 | 0.0548403 | 15.4868 * | 15.0046 * | 0.0429189 |
| C3 | 7.96313 | 0.0238074 | 10.8755 * | 11.8771 * | 0.018632 |
| iC4 | 1.00784 | 0.00243715 | 1.88763 * | 2.36742 * | 0.00190733 |
| nC4 | 3.04269 | 0.0103932 | 4.18106 * | 5.72755 * | 0.00813381 |
| iC5 | 0.373276 | 0.000594576 | 1.1333 * | 1.93623 * | 0.000465318 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH5 Amine Treating | | |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH5 Dry Inlet Gas Composition % | RH6 Dry Inlet Gas Composition % | R8 % |
|---|---|---|---|---|---|
| nC5 | 0.497299 | 0.00104743 | 1.15236 * | 2.09501 * | 0.000819729 |
| Neopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylbutane | 0.00421296 | 7.50801E-06 | 0.0126886 * | 0.0239632 * | 5.87579E-06 |
| 2,3-Dimethylbutane | 0.0108535 | 1.92793E-05 | 0.0349279 * | 0.0634055 * | 1.50881E-05 |
| Cyclopentane | 0.0356169 | 0.000268255 | 0.0284257 * | 0.0516019 * | 0.000209948 |
| 2-Methylpentane | 0.0826315 | 0.00014645 | 0.260208 * | 0.527548 * | 0.000114612 |
| 3-Methylpentane | 0.0384518 | 6.81198E-05 | 0.122478 * | 0.248356 * | 5.33107E-05 |
| Benzene | 0.204979 | 0.0531002 | 0.0572112 * | 0.113014 * | 0.0416266 |
| Cyclohexane | 0.142706 | 0.00154228 | 0.115995 * | 0.22701 * | 0.00120705 |
| Methylcyclopentane | 0.0836727 | 0.000400246 | 0.108092 * | 0.222238 * | 0.00031324 |
| C6 | 0.0767703 | 0.000135445 | 0.257296 * | 0.531594 * | 0.000106 |
| 3-Methylhexane | 0.00405427 | 3.78837E-06 | 0.0305847 * | 0.062663 * | 2.96478E-06 |
| 2,2-Dimethylpentane | 0.000414205 | 3.89409E-07 | 0.00283395 * | 0.0055909 * | 3.04752E-07 |
| 2,3-Dimethylpentane | 0.000915348 | 8.57728E-07 | 0.00679509 * | 0.0131622 * | 6.71259E-07 |
| 2,4-Dimethylhexane | 0.000255558 | 3.0523E-07 | 0.00198729 * | 0.00364518 * | 2.38873E-07 |
| Ethylcyclopentane | 0.000771059 | 2.96028E-06 | 0.0017082 * | 0.00313325 * | 2.31676E-06 |
| 2,4-Dimethylpentane | 0.000103335 | 9.70398E-08 | 0.000702783 * | 0.00147015 * | 7.59434E-08 |
| 2-Methylhexane | 0.00334944 | 3.12949E-06 | 0.0249488 * | 0.0512477 * | 2.44914E-06 |
| 3-3-Dimethylpentane | 0.000199711 | 1.87564E-07 | 0.00143295 * | 0.00275005 * | 1.46788E-07 |
| 1,cis-3-Dimethylcyclopentane | 0.00272204 | 9.97274E-06 | 0.00558517 * | 0.011245 * | 7.8048E-06 |
| 3-Ethylpentane | 0.000750847 | 7.0196E-07 | 0.00569984 * | 0.0114758 * | 5.49354E-07 |
| Cycloheptane | 0.000242242 | 2.97922E-05 | 0.000120736 * | 0.000199138 * | 2.33308E-05 |
| Methylcyclohexane | 0.0143328 | 6.82167E-05 | 0.0270047 * | 0.0506213 * | 5.33875E-05 |
| 2,2-Dimethylhexane | 0.0041631 | 4.97695E-06 | 0.0314169 * | 0.0588923 * | 3.89496E-06 |
| n-Heptane | 0.0051848 | 4.82058E-06 | 0.0426598 * | 0.0846504 * | 3.77259E-06 |
| Toluene | 0.0702045 | 0.0188408 | 0.0267052 * | 0.0491793 * | 0.0147636 |
| trans-1,2-Dimethylcyclopentane | 0.000682405 | 2.59533E-06 | 0.0013281 * | 0.00274345 * | 2.03114E-06 |
| cis-1,2-Dimethylcyclopentane | 0.000733884 | 3.25014E-06 | 0.0013281 * | 0.00274345 * | 2.54362E-06 |
| trans-1,3-Dimethylcyclopentane | 0.00469315 | 1.85608E-05 | 0.00899262 * | 0.0189605 * | 1.4526E-05 |
| 1-Ethyl-1-Methylcyclopentane | 0.00122272 | 5.4131E-05 | 0.000894343 * | 0.00130257 * | 4.23715E-05 |
| 2,2,3-Trimethylpentane | 0.000343268 | 3.93489E-07 | 0.002674 * | 0.00490954 * | 3.07944E-07 |
| 2,3,4-Trimethylpentane | 0.000209251 | 2.39405E-07 | 0.00168036 * | 0.00313008 * | 1.87359E-07 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methylheptane | 0.000505348 | 5.99981E-07 | 0.0044558 * | 0.00711785 * | 4.69545E-07 |
| 4-Methylheptane | 0.000506734 | 6.02075E-07 | 0.0044558 * | 0.00711785 * | 4.71184E-07 |
| 3,3-Dimethylhexane | 0.000130553 | 1.56044E-07 | 0.00104567 * | 0.00172524 * | 1.2212E-07 |
| 3-Methylheptane | 0.000235128 | 2.7919E-07 | 0.00207053 * | 0.00342583 * | 2.18494E-07 |
| cis-1,2-Dimethylcyclohexane | 0.00150973 | 6.08245E-06 | 0.00461481 * | 0.00789289 * | 4.76018E-06 |
| cis-1,3-Dimethylcyclohexane | 0.000214686 | 7.25839E-07 | 0.000802353 * | 0.000818343 * | 5.68046E-07 |
| Cyclooctane | 0 | 0 | 0 * | 0 * | 0 |
| Ethylbenzene | 0.00237287 | 0.000526106 | 0.001378 * | 0.00129192 * | 0.000412157 |
| Ethylcyclohexane | 0.000589757 | 3.0527E-06 | 0.00158938 * | 0.00207249 * | 2.38908E-06 |
| m-Xylene | 0.00186646 | 0.000551351 | 0.00106856 * | 0.00146372 * | 0.000432157 |
| p-Xylene | 0.00189959 | 0.000561956 | 0.00106856 * | 0.00146372 * | 0.000440469 |
| n-Octane | 0.000537863 | 6.07869E-07 | 0.00543124 * | 0.00795089 * | 4.75719E-07 |
| o-Xylene | 0.00106715 | 0.000314977 | 0.000647904 * | 0.000710101 * | 0.000246883 |
| trans-1,3-Dimethylcyclohexane | 5.85862E-05 | 2.15883E-07 | 0 * | 0.00126867 * | 1.68952E-07 |
| 1,1,2-Trimethylcyclohexane | 0.000189458 | 2.27409E-06 | 0.000321963 * | 0.000294168 * | 1.77978E-06 |
| 1,2,3-Trimethylbenzene | 0.00036257 | 0.000169887 | 0.000284644 * | 0 * | 0.000133246 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,3,5-Trimethylbenzene | 0.000469415 | 9.41928E-05 | 0.000410544 * | 0 * | 7.37812E-05 |
| 2,2,3-Trimethylhexane | 6.77182E-06 | 0 | 0.000286217 * | 0.000298865 * | 0 |
| 2,2,4-Trimethylhexane | 2.90109E-05 | 8.05878E-09 | 0.00114487 * | 0.00179319 * | 6.30679E-09 |
| 2,2-Dimethylheptane | 1.00668E-05 | 0 | 0.000332946 * | 0.0003044 * | 0 |
| 2,3,4-Trimethylhexane | 1.8232E-05 | 1.03133E-08 | 0.000438087 * | 0.000376349 * | 8.07118E-09 |
| 2,4,4-Trimethylhexane | 3.18208E-05 | 1.49042E-08 | 0.000998838 * | 0 * | 1.1664E-08 |
| 2,5-Dimethylheptane | 2.957E-05 | 1.3463E-08 | 0.000835285 * | 0.00114011 * | 1.05361E-08 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH5 Amine Treating | | |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH5 Dry Inlet Gas Composition % | RH6 Dry Inlet Gas Composition % | R8 % |
|---|---|---|---|---|---|
| 3,4-Dimethylheptane | 8.99348E-06 | 0 | 0.000245329 * | 0 * | 0 |
| Isopropylbenzene | 3.64036E-07 | 6.39624E-08 | 0 * | 2.59329E-06 * | 5.00952E-08 |
| 1,1,3-Trimethylcyclopentane | 6.68679E-07 | 2.16782E-08 | 0 * | 2.42113E-06 * | 1.69677E-08 |
| m-Ethyltoluene | 0.000171837 | 3.10292E-05 | 0.000147796 * | 0 * | 2.43027E-05 |
| p-Ethyltoluene | 0.000175203 | 4.17662E-05 | 0.000147796 * | 0 * | 3.27216E-05 |
| n-Nonane | 2.10252E-05 | 1.08001E-08 | 0.000660051 * | 0.000348676 * | 8.45214E-09 |
| Propylbenzene | 0.000675858 | 0.000127263 | 0.000574761 * | 0 * | 9.96788E-05 |
| Propylcyclohexane | 9.4075E-05 | 1.38545E-06 | 0.00017248 * | 0 * | 1.08432E-06 |
| 4-Methylnonane | 0.000101337 | 1.13734E-06 | 0.000265678 * | 0 * | 8.90123E-07 |
| n-Decane | 2.12072E-06 | 0 | 0.000265679 * | 0 * | 0 |
| nC11 | 9.98013E-07 | 0 | 0.000306107 * | 0 * | 0 |
| nC12 | 0 | 0 | 0 * | 0 * | 0 |
| nC13 | 2.51323E-12 | 0 | 0 * | 0.000373917 * | 0 |
| nC14 | 1.71504E-12 | 0 | 0 * | 0.00035956 * | 0 |
| nC15 | 0 | 0 | 0 * | 0 * | 0 |
| H2O | 3.24512 | 2.63963 | 0 * | 0 * | 23.6613 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 * | 0 |
| MDEA | 0.00313657 | 7.5967E-08 | 0 * | 0 * | 0.0588327 |
| Piperazine | 0.000252118 | 5.71863E-08 | 0 * | 0 * | 0.0203725 |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH5 Dry Inlet Gas Composition lb/h | RH6 Dry Inlet Gas Composition lb/h | R8 lb/h |
|---|---|---|---|---|---|
| H2S | 0.023855 | 6.47093 | 4.33937 * | 4.40169 * | 6.48443 |
| Helium | 0.00144867 | 5.58845E-06 | 21.2513 * | 21.2187 * | 5.58845E-06 |
| Oxygen | 0.0455599 | 0.00394 | 26.4504 * | 57.4062 * | 0.00394008 |
| Argon | 0.0433942 | 0.00279415 | 33.0213 * | 71.6671 * | 0.00279422 |
| N2 | 8.90311 | 0.311815 | 16010.6 * | 17065.4 * | 0.311819 |
| CO2 | 299.121 | 74373.7 | 49731.4 * | 50445.6 * | 74437.7 |
| C1 | 592.009 | 74.9236 | 381097 * | 370468 * | 74.9252 |
| C2 | 204.787 | 42.0121 | 108109 * | 112395 * | 42.0131 |
| C3 | 105.935 | 18.2384 | 75919.2 * | 88968.7 * | 18.2387 |
| iC4 | 13.4074 | 1.86706 | 13177.1 * | 17733.7 * | 1.86708 |
| nC4 | 40.4774 | 7.962 | 29186.9 * | 42903.6 * | 7.96214 |
| iC5 | 4.96576 | 0.455493 | 7911.3 * | 14503.8 * | 0.455497 |
| nC5 | 6.61565 | 0.802419 | 8044.34 * | 15693.2 * | 0.802428 |
| Neopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylbutane | 0.0560458 | 0.00575174 | 88.5757 * | 179.502 * | 0.00575178 |
| 2,3-Dimethylbutane | 0.144385 | 0.0147695 | 243.823 * | 474.955 * | 0.0147696 |
| Cyclopentane | 0.473818 | 0.205505 | 198.433 * | 386.537 * | 0.205517 |
| 2-Methylpentane | 1.09926 | 0.112192 | 1816.45 * | 3951.73 * | 0.112193 |
| 3-Methylpentane | 0.511532 | 0.0521852 | 854.99 * | 1860.37 * | 0.0521856 |
| Benzene | 2.72687 | 40.679 | 399.377 * | 846.557 * | 40.748 |
| Cyclohexane | 1.89844 | 1.18151 | 809.731 * | 1700.48 * | 1.18157 |
| Methylcyclopentane | 1.11311 | 0.30662 | 754.559 * | 1664.73 * | 0.306629 |
| C6 | 1.02129 | 0.103762 | 1796.12 * | 3982.04 * | 0.103763 |
| 3-Methylhexane | 0.0539347 | 0.0029022 | 213.504 * | 469.393 * | 0.00290221 |
| 2,2-Dimethylpentane | 0.00551025 | 0.000298318 | 19.7831 * | 41.88 * | 0.00029832 |
| 2,3-Dimethylpentane | 0.012177 | 0.000657089 | 47.4348 * | 98.5945 * | 0.000657091 |
| 2,4-Dimethylhexane | 0.00339973 | 0.000233831 | 13.8728 * | 27.3051 * | 0.000233832 |
| Ethylcyclopentane | 0.0102575 | 0.00226781 | 11.9245 * | 23.4704 * | 0.00226786 |
| 2,4-Dimethylpentane | 0.00137468 | 7.43403E-05 | 4.90594 * | 11.0125 * | 7.43406E-05 |
| 2-Methylhexane | 0.0445582 | 0.00239744 | 174.161 * | 383.884 * | 0.00239745 |
| 3-3-Dimethylpentane | 0.00265679 | 0.000143689 | 10.003 * | 20.5999 * | 0.000143689 |
| 1,cis-3-Dimethylcyclopentane | 0.0362118 | 0.00763992 | 38.9886 * | 84.2331 * | 0.00764008 |
| 3-Ethylpentane | 0.00998866 | 0.000537758 | 39.7891 * | 85.9625 * | 0.000537759 |
| Cycloheptane | 0.00322259 | 0.0228232 | 0.842829 * | 1.49169 * | 0.0228384 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH5 Amine Treating | | |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH5 Dry Inlet Gas Composition lb/h | RH6 Dry Inlet Gas Composition lb/h | R8 lb/h |
|---|---|---|---|---|---|
| Methylcyclohexane | 0.190672 | 0.0522595 | 188.513 * | 379.192 * | 0.0522608 |
| 2,2-Dimethylhexane | 0.0553824 | 0.00381275 | 219.314 * | 441.147 * | 0.00381276 |
| n-Heptane | 0.0689744 | 0.00369295 | 297.797 * | 634.095 * | 0.00369296 |
| Toluene | 0.933943 | 14.4336 | 186.422 * | 368.389 * | 14.452 |
| trans-1,2-Dimethylcyclopentane | 0.00907815 | 0.00198823 | 9.27112 * | 20.5505 * | 0.00198828 |
| cis-1,2-Dimethylcyclopentane | 0.00976299 | 0.00248987 | 9.27112 * | 20.5505 * | 0.00248993 |
| trans-1,3-Dimethylcyclopentane | 0.0624339 | 0.0142191 | 62.7751 * | 142.028 * | 0.0142194 |
| 1-Ethyl-1-Methylcyclopentane | 0.016266 | 0.0414687 | 6.24318 * | 9.75721 * | 0.0414772 |
| 2,2,3-Trimethylpentane | 0.00456656 | 0.000301444 | 18.6665 * | 36.7761 * | 0.000301445 |
| 2,3,4-Trimethylpentane | 0.0027837 | 0.000183404 | 11.7301 * | 23.4466 * | 0.000183404 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methylheptane | 0.00672274 | 0.000459634 | 31.1048 * | 53.318 * | 0.000459635 |
| 4-Methylheptane | 0.00674118 | 0.000461238 | 31.1048 * | 53.318 * | 0.00046124 |
| 3,3-Dimethylhexane | 0.00173677 | 0.000119542 | 7.29956 * | 12.9233 * | 0.000119543 |
| 3-Methylheptane | 0.00312795 | 0.000213882 | 14.4538 * | 25.662 * | 0.000213882 |
| cis-1,2-Dimethylcyclohexane | 0.0200842 | 0.00465965 | 32.2148 * | 59.1236 * | 0.00465971 |
| cis-1,3-Dimethylcyclohexane | 0.00285601 | 0.000556051 | 5.60102 * | 6.13 * | 0.000556057 |
| Cyclooctane | 0 | 0 | 0 * | 0 * | 0 |
| Ethylbenzene | 0.0315667 | 0.40304 | 9.61949 * | 9.67748 * | 0.403458 |
| Ethylcyclohexane | 0.00784565 | 0.00233861 | 11.095 * | 15.5245 * | 0.00233866 |
| m-Xylene | 0.0248299 | 0.422379 | 7.45932 * | 10.9644 * | 0.423036 |
| p-Xylene | 0.0252706 | 0.430503 | 7.45932 * | 10.9644 * | 0.431172 |
| n-Octane | 0.00715529 | 0.000465677 | 37.9141 * | 59.5581 * | 0.000465678 |
| o-Xylene | 0.0141965 | 0.241298 | 4.52285 * | 5.31918 * | 0.241673 |
| trans-1,3-Dimethylcyclohexane | 0.000779382 | 0.000165384 | 0 * | 9.50331 * | 0.000165386 |
| 1,1,2-Trimethylcyclohexane | 0.0025204 | 0.00174214 | 2.24754 * | 2.20353 * | 0.00174221 |
| 1,2,3-Trimethylbenzene | 0.00482334 | 0.130147 | 1.98702 * | 0 * | 0.130434 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,3,5-Trimethylbenzene | 0.00624471 | 0.0721593 | 2.8659 * | 0 * | 0.072224 |
| 2,2,3-Trimethylhexane | 9.00867E-05 | 0 | 1.998 * | 2.23872 * | 0 |
| 2,2,4-Trimethylhexane | 0.000385937 | 6.17368E-06 | 7.99202 * | 13.4323 * | 6.17368E-06 |
| 2,2-Dimethylheptane | 0.000133921 | 0 | 2.32421 * | 2.28018 * | 0 |
| 2,3,4-Trimethylhexane | 0.000242544 | 7.90082E-06 | 3.05817 * | 2.81913 * | 7.90083E-06 |
| 2,4,4-Trimethylhexane | 0.000423317 | 1.14178E-05 | 6.97263 * | 0 * | 1.14178E-05 |
| 2,5-Dimethylheptane | 0.000393375 | 1.03137E-05 | 5.83091 * | 8.54031 * | 1.03137E-05 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 * | 0 |
| 3,4-Dimethylheptane | 0.000119642 | 0 | 1.71258 * | 0 * | 0 |
| Isopropylbenzene | 4.84284E-06 | 4.90004E-05 | 0 * | 0.0194257 * | 4.90379E-05 |
| 1,1,3-Trimethylcyclopentane | 8.89556E-06 | 1.66073E-05 | 0 * | 0.0181361 * | 1.66096E-05 |
| m-Ethyltoluene | 0.00228598 | 0.0237709 | 1.03172 * | 0 * | 0.0237898 |
| p-Ethyltoluene | 0.00233076 | 0.0319963 | 1.03172 * | 0 * | 0.032031 |
| n-Nonane | 0.000279702 | 8.27374E-06 | 4.60764 * | 2.61184 * | 8.27376E-06 |
| Propylbenzene | 0.00899107 | 0.0974936 | 4.01226 * | 0 * | 0.0975751 |
| Propylcyclohexane | 0.0012515 | 0.00106137 | 1.20404 * | 0 * | 0.00106143 |
| 4-Methylnonane | 0.0013481 | 0.000871293 | 1.85463 * | 0 * | 0.000871336 |
| n-Decane | 2.82123E-05 | 0 | 1.85464 * | 0 * | 0 |
| nC11 | 1.32768E-05 | 0 | 2.13685 * | 0 * | 0 |
| nC12 | 0 | 0 | 0 * | 0 * | 0 |
| nC13 | 3.34339E-11 | 0 | 0 * | 2.80091 * | 0 |
| nC14 | 2.28155E-11 | 0 | 0 * | 2.69337 * | 0 |
| nC15 | 0 | 0 | 0 * | 0 * | 0 |
| H2O | 43.1705 | 2022.17 | 0 * | 0 * | 23162 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 * | 0 |
| MDEA | 0.0417263 | 5.81968E-05 | 0 * | 0 * | 57.591 |
| Piperazine | 0.00335397 | 4.38093E-05 | 0 * | 0 * | 19.9425 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH5 Amine Treating | | |

## Stream Properties

| Property | Units | Flash Gas | G_Acid Gas | RH5 Dry Inlet Gas Composition | RH6 Dry Inlet Gas Composition | R8 |
|---|---|---|---|---|---|---|
| Temperature | °F | 160.507 | 120.007 | 90 * | 90 * | 209.621 |
| Pressure | psig | 85 | 13 | 900 * | 900 * | 14 |
| Molecular Weight | lb/lbmol | 23.4021 | 42.33 | 21.9303 | 23.1994 | 32.7895 |
| Mass Density | lb/ft^3 | 0.356059 | 0.190102 | 4.23008 | 4.63663 | 0.132125 |
| Mass Flow | lb/h | 1330.32 | 76608 | 698074 | 749074 | 97889.4 |
| Std Vapor Volumetric Flow | MMSCFD | 0.517733 | 16.4828 | 289.908 | 294.072 | 27.1898 |
| Std Liquid Volumetric Flow | sgpm | 6.60472 | 186.983 | 3830.75 | 3976.67 | 229.565 |
| Specific Gravity | | 0.808013 | 1.46154 | 0.757198 | | 1.13214 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1050.49 | 9.65601 | 1207.15 | 1273.11 | 26.5286 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH5 Amine Treating | |

## Connections

| | To RH5 TEG Dehy | To RH6 TEG Dehy | | | |
|---|---|---|---|---|---|
| From Block | RH5 Outlet Scrubber | M-1 | | | |
| To Block | -- | -- | | | |

## Stream Composition

| Mole Fraction | To RH5 TEG Dehy % | To RH6 TEG Dehy % | | | |
|---|---|---|---|---|---|
| H2S | 2.42511E-07 | 1.62481E-06 | | | |
| Helium | 0.0172796 | 0.0172268 | | | |
| Oxygen | 0.00268797 | 0.00580945 | | | |
| Argon | 0.00268857 | 0.00580957 | | | |
| N2 | 1.85949 | 1.97652 | | | |
| CO2 | 0.00151083 | 0.0255294 | | | |
| C1 | 77.2262 | 74.6715 | | | |
| C2 | 11.6841 | 11.9504 | | | |
| C3 | 5.59771 | 6.32819 | | | |
| iC4 | 0.737351 | 0.927853 | | | |
| nC4 | 1.63275 | 2.20575 | | | |
| iC5 | 0.356749 | 0.564769 | | | |
| nC5 | 0.362702 | 0.594382 | | | |
| Neopentane | 0 | 0 | | | |
| 2,2-Dimethylbutane | 0.00334405 | 0.00536099 | | | |
| 2,3-Dimethylbutane | 0.00920528 | 0.0135628 | | | |
| Cyclopentane | 0.00919092 | 0.0143919 | | | |
| 2-Methylpentane | 0.0685786 | 0.111577 | | | |
| 3-Methylpentane | 0.0322796 | 0.0516389 | | | |
| Benzene | 0.0155942 | 0.0236407 | | | |
| Cyclohexane | 0.0312429 | 0.0432154 | | | |
| Methylcyclopentane | 0.0291496 | 0.0451833 | | | |
| C6 | 0.0678121 | 0.10529 | | | |
| 3-Methylhexane | 0.00693378 | 0.00873674 | | | |
| 2,2-Dimethylpentane | 0.000642471 | 0.000897584 | | | |
| 2,3-Dimethylpentane | 0.00154049 | 0.00189126 | | | |
| 2,4-Dimethylhexane | 0.000395204 | 0.000354283 | | | |
| Ethylcyclopentane | 0.000394998 | 0.000404412 | | | |
| 2,4-Dimethylpentane | 0.000159325 | 0.00023185 | | | |
| 2-Methylhexane | 0.00565607 | 0.00736598 | | | |
| 3-3-Dimethylpentane | 0.000324857 | 0.000413379 | | | |
| 1,cis-3-Dimethylcyclopentane | 0.0012915 | 0.0015919 | | | |
| 3-Ethylpentane | 0.00129219 | 0.00158259 | | | |
| Cycloheptane | 2.7313E-05 | 2.19585E-05 | | | |
| Methylcyclohexane | 0.00624352 | 0.00657533 | | | |
| 2,2-Dimethylhexane | 0.00624773 | 0.0059989 | | | |
| n-Heptane | 0.00967137 | 0.0108678 | | | |
| Toluene | 0.00622227 | 0.00648501 | | | |
| trans-1,2-Dimethylcyclopentane | 0.000307097 | 0.000399754 | | | |
| cis-1,2-Dimethylcyclopentane | 0.000307066 | 0.000373503 | | | |
| trans-1,3-Dimethylcyclopentane | 0.00207931 | 0.00260592 | | | |
| 1-Ethyl-1-Methylcyclopentane | 0.000179792 | 0.000113724 | | | |
| 2,2,3-Trimethylpentane | 0.000531768 | 0.000484633 | | | |
| 2,3,4-Trimethylpentane | 0.000334166 | 0.000291963 | | | |
| 2,5-Dimethylhexane | 0 | 0 | | | |
| 2-Methylheptane | 0.000886114 | 0.000606929 | | | |
| 4-Methylheptane | 0.000886113 | 0.000598281 | | | |
| 3,3-Dimethylhexane | 0.000207947 | 0.000163625 | | | |
| 3-Methylheptane | 0.000411761 | 0.000283149 | | | |
| cis-1,2-Dimethylcyclohexane | 0.000933839 | 0.000632573 | | | |
| cis-1,3-Dimethylcyclohexane | 0.000162375 | 7.13509E-05 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH5 Amine Treating | |

## Stream Composition

| Mole Fraction | To RH5 TEG Dehy % | To RH6 TEG Dehy % | | | |
|---|---|---|---|---|---|
| Cyclooctane | 0 | 0 | | | |
| Ethylbenzene | 0.000283475 | 9.80577E-05 | | | |
| Ethylcyclohexane | 0.000321568 | 0.000157064 | | | |
| m-Xylene | 0.00021757 | 0.000105515 | | | |
| p-Xylene | 0.000217386 | 0.000106919 | | | |
| n-Octane | 0.00108011 | 0.000580089 | | | |
| o-Xylene | 0.000132001 | 4.83967E-05 | | | |
| trans-1,3-Dimethylcyclohexane | 0 | 0.00010892 | | | |
| 1,1,2-Trimethylcyclohexane | 5.78508E-05 | 1.86498E-05 | | | |
| 1,2,3-Trimethylbenzene | 5.01525E-05 | 0 | | | |
| 1,2,4-Trimethylbenzene | 0 | 0 | | | |
| tert-Butylbenzene | 0 | 0 | | | |
| 1,3,5-Trimethylbenzene | 7.54837E-05 | 0 | | | |
| 2,2,3-Trimethylhexane | 5.07011E-05 | 2.05511E-05 | | | |
| 2,2,4-Trimethylhexane | 0.000202805 | 0.000134561 | | | |
| 2,2-Dimethylheptane | 5.89781E-05 | 1.64497E-05 | | | |
| 2,3,4-Trimethylhexane | 7.76011E-05 | 1.95248E-05 | | | |
| 2,4,4-Trimethylhexane | 0.000176932 | 0 | | | |
| 2,5-Dimethylheptane | 0.000147962 | 6.12581E-05 | | | |
| 2-Methyloctane | 0 | 0 | | | |
| 3,4-Dimethylheptane | 4.34567E-05 | 0 | | | |
| Isopropylbenzene | 0 | 1.19736E-07 | | | |
| 1,1,3-Trimethylcyclopentane | 0 | 2.83088E-07 | | | |
| m-Ethyltoluene | 2.72328E-05 | 0 | | | |
| p-Ethyltoluene | 2.70089E-05 | 0 | | | |
| n-Nonane | 0.000116921 | 1.21746E-05 | | | |
| Propylbenzene | 0.000105766 | 0 | | | |
| Propylcyclohexane | 3.09831E-05 | 0 | | | |
| 4-Methylnonane | 4.23741E-05 | 0 | | | |
| n-Decane | 4.24244E-05 | 0 | | | |
| nC11 | 4.44941E-05 | 0 | | | |
| nC12 | 0 | 0 | | | |
| nC13 | 0 | 6.4474E-07 | | | |
| nC14 | 0 | 2.89403E-07 | | | |
| nC15 | 0 | 0 | | | |
| H2O | 0.194475 | 0.250927 | | | |
| CHEMTHERM 550 | 0 | 0 | | | |
| UCARSOL™ AP-814 | 0 | 0 | | | |
| MDEA | 1.04216E-06 | 2.0431E-06 | | | |
| Piperazine | 2.25338E-05 | 1.42635E-05 | | | |

| Mass Fraction | To RH5 TEG Dehy % | To RH6 TEG Dehy % | | | |
|---|---|---|---|---|---|
| H2S | 3.91491E-07 | 2.51148E-06 | | | |
| Helium | 0.00327609 | 0.00312726 | | | |
| Oxygen | 0.00407415 | 0.00843114 | | | |
| Argon | 0.0050874 | 0.0105258 | | | |
| N2 | 2.46739 | 2.51121 | | | |
| CO2 | 0.00314949 | 0.0509571 | | | |
| C1 | 58.6833 | 54.3304 | | | |
| C2 | 16.6416 | 16.2974 | | | |
| C3 | 11.6919 | 12.6559 | | | |
| iC4 | 2.03 | 2.4459 | | | |
| nC4 | 4.49512 | 5.81453 | | | |
| iC5 | 1.21919 | 1.84807 | | | |
| nC5 | 1.23953 | 1.94497 | | | |
| Neopentane | 0 | 0 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH5 Amine Treating | |

| Mass Fraction | To RH5 TEG Dehy % | To RH6 TEG Dehy % | | | |
|---|---|---|---|---|---|
| 2,2-Dimethylbutane | 0.01365 | 0.0209529 | | | |
| 2,3-Dimethylbutane | 0.037575 | 0.0530089 | | | |
| Cyclopentane | 0.0305323 | 0.0457781 | | | |
| 2-Methylpentane | 0.279931 | 0.436089 | | | |
| 3-Methylpentane | 0.131762 | 0.201826 | | | |
| Benzene | 0.0576977 | 0.083752 | | | |
| Cyclohexane | 0.124547 | 0.164953 | | | |
| Methylcyclopentane | 0.116202 | 0.172464 | | | |
| C6 | 0.276802 | 0.411516 | | | |
| 3-Methylhexane | 0.0329098 | 0.0397048 | | | |
| 2,2-Dimethylpentane | 0.00304936 | 0.00407914 | | | |
| 2,3-Dimethylpentane | 0.00731162 | 0.00859499 | | | |
| 2,4-Dimethylhexane | 0.00213833 | 0.00183545 | | | |
| Ethylcyclopentane | 0.00183706 | 0.00180091 | | | |
| 2,4-Dimethylpentane | 0.000756203 | 0.00105366 | | | |
| 2-Methylhexane | 0.0268454 | 0.0334753 | | | |
| 3-3-Dimethylpentane | 0.00154187 | 0.00187863 | | | |
| 1,cis-3-Dimethylcyclopentane | 0.00600651 | 0.00708898 | | | |
| 3-Ethylpentane | 0.00613314 | 0.00719222 | | | |
| Cycloheptane | 0.000127028 | 9.77847E-05 | | | |
| Methylcyclohexane | 0.0290374 | 0.0292809 | | | |
| 2,2-Dimethylhexane | 0.0338046 | 0.0310787 | | | |
| n-Heptane | 0.0459032 | 0.0493894 | | | |
| Toluene | 0.0271562 | 0.0271 | | | |
| trans-1,2-Dimethylcyclopentane | 0.00142825 | 0.00178016 | | | |
| cis-1,2-Dimethylcyclopentane | 0.00142811 | 0.00166326 | | | |
| trans-1,3-Dimethylcyclopentane | 0.00967047 | 0.0116045 | | | |
| 1-Ethyl-1-Methylcyclopentane | 0.000955635 | 0.000578779 | | | |
| 2,2,3-Trimethylpentane | 0.00287724 | 0.00251076 | | | |
| 2,3,4-Trimethylpentane | 0.00180807 | 0.00151258 | | | |
| 2,5-Dimethylhexane | 0 | 0 | | | |
| 2-Methylheptane | 0.0047945 | 0.00314434 | | | |
| 4-Methylheptane | 0.00479449 | 0.00309954 | | | |
| 3,3-Dimethylhexane | 0.00112514 | 0.0008477 | | | |
| 3-Methylheptane | 0.00222792 | 0.00146692 | | | |
| cis-1,2-Dimethylcyclohexane | 0.00496355 | 0.00321936 | | | |
| cis-1,3-Dimethylcyclohexane | 0.000863055 | 0.000363127 | | | |
| Cyclooctane | 0 | 0 | | | |
| Ethylbenzene | 0.00142553 | 0.00047215 | | | |
| Ethylcyclohexane | 0.0017092 | 0.000799347 | | | |
| m-Xylene | 0.0010941 | 0.000508059 | | | |
| p-Xylene | 0.00109318 | 0.00051482 | | | |
| n-Octane | 0.00584416 | 0.00300529 | | | |
| o-Xylene | 0.000663802 | 0.000233031 | | | |
| trans-1,3-Dimethylcyclohexane | 0 | 0.000554329 | | | |
| 1,1,2-Trimethylcyclohexane | 0.000345925 | 0.000106779 | | | |
| 1,2,3-Trimethylbenzene | 0.000285526 | 0 | | | |
| 1,2,4-Trimethylbenzene | 0 | 0 | | | |
| tert-Butylbenzene | 0 | 0 | | | |
| 1,3,5-Trimethylbenzene | 0.00042974 | 0 | | | |
| 2,2,3-Trimethylhexane | 0.000308015 | 0.000119544 | | | |
| 2,2,4-Trimethylhexane | 0.00123206 | 0.00078273 | | | |
| 2,2-Dimethylheptane | 0.000358298 | 9.56861E-05 | | | |
| 2,3,4-Trimethylhexane | 0.000471434 | 0.000113574 | | | |
| 2,4,4-Trimethylhexane | 0.00107488 | 0 | | | |
| 2,5-Dimethylheptane | 0.000898882 | 0.000356332 | | | |
| 2-Methyloctane | 0 | 0 | | | |
| 3,4-Dimethylheptane | 0.000264004 | 0 | | | |
| Isopropylbenzene | 0 | 6.52704E-07 | | | |
| 1,1,3-Trimethylcyclopentane | 0 | 1.44072E-06 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH5 Amine Treating | | |

| Mass Fraction | To RH5 TEG Dehy % | To RH6 TEG Dehy % | | | |
|---|---|---|---|---|---|
| m-Ethyltoluene | 0.000155041 | 0 | | | |
| p-Ethyltoluene | 0.000153766 | 0 | | | |
| n-Nonane | 0.000710304 | 7.08185E-05 | | | |
| Propylbenzene | 0.000602142 | 0 | | | |
| Propylcyclohexane | 0.000185267 | 0 | | | |
| 4-Methylnonane | 0.00028558 | 0 | | | |
| n-Decane | 0.000285919 | 0 | | | |
| nC11 | 0.00032943 | 0 | | | |
| nC12 | 0 | 0 | | | |
| nC13 | 0 | 5.39103E-06 | | | |
| nC14 | 0 | 2.60397E-06 | | | |
| nC15 | 0 | 0 | | | |
| H2O | 0.165953 | 0.205024 | | | |
| CHEMTHERM 550 | 0 | 0 | | | |
| UCARSOL™ AP-814 | 0 | 0 | | | |
| MDEA | 5.88238E-06 | 1.10419E-05 | | | |
| Piperazine | 9.19382E-05 | 5.57219E-05 | | | |

| Mass Flow | To RH5 TEG Dehy lb/h | To RH6 TEG Dehy lb/h | | | |
|---|---|---|---|---|---|
| H2S | 0.00253939 | 0.0170258 | | | |
| Helium | 21.2503 | 21.2004 | | | |
| Oxygen | 26.4268 | 57.1565 | | | |
| Argon | 32.9993 | 71.3568 | | | |
| N2 | 16004.7 | 17024 | | | |
| CO2 | 20.4291 | 345.449 | | | |
| C1 | 380647 | 368317 | | | |
| C2 | 107945 | 110483 | | | |
| C3 | 75839.1 | 85796.8 | | | |
| iC4 | 13167.5 | 16581.3 | | | |
| nC4 | 29157.5 | 39417.9 | | | |
| iC5 | 7908.24 | 12528.4 | | | |
| nC5 | 8040.19 | 13185.3 | | | |
| Neopentane | 0 | 0 | | | |
| 2,2-Dimethylbutane | 88.5406 | 142.044 | | | |
| 2,3-Dimethylbutane | 243.729 | 359.359 | | | |
| Cyclopentane | 198.047 | 310.339 | | | |
| 2-Methylpentane | 1815.76 | 2956.34 | | | |
| 3-Methylpentane | 854.669 | 1368.22 | | | |
| Benzene | 374.255 | 567.772 | | | |
| Cyclohexane | 807.87 | 1118.25 | | | |
| Methylcyclopentane | 753.744 | 1169.17 | | | |
| C6 | 1795.47 | 2789.75 | | | |
| 3-Methylhexane | 213.469 | 269.167 | | | |
| 2,2-Dimethylpentane | 19.7796 | 27.6533 | | | |
| 2,3-Dimethylpentane | 47.4266 | 58.2673 | | | |
| 2,4-Dimethylhexane | 13.8702 | 12.4429 | | | |
| Ethylcyclopentane | 11.9161 | 12.2087 | | | |
| 2,4-Dimethylpentane | 4.90509 | 7.14299 | | | |
| 2-Methylhexane | 174.132 | 226.936 | | | |
| 3-3-Dimethylpentane | 10.0013 | 12.7356 | | | |
| 1,cis-3-Dimethylcyclopentane | 38.961 | 48.0577 | | | |
| 3-Ethylpentane | 39.7825 | 48.7576 | | | |
| Cycloheptane | 0.823962 | 0.662903 | | | |
| Methylcyclohexane | 188.35 | 198.501 | | | |
| 2,2-Dimethylhexane | 219.272 | 210.689 | | | |
| n-Heptane | 297.75 | 334.821 | | | |
| Toluene | 176.148 | 183.716 | | | |
| trans-1,2-Dimethylcyclopentane | 9.2643 | 12.0681 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | RH5 Amine Treating | |

| Mass Flow | To RH5 TEG Dehy lb/h | To RH6 TEG Dehy lb/h | | | |
|---|---|---|---|---|---|
| cis-1,2-Dimethylcyclopentane | 9.26337 | 11.2756 | | | |
| trans-1,3-Dimethylcyclopentane | 62.7272 | 78.6696 | | | |
| 1-Ethyl-1-Methylcyclopentane | 6.1987 | 3.92366 | | | |
| 2,2,3-Trimethylpentane | 18.6631 | 17.021 | | | |
| 2,3,4-Trimethylpentane | 11.728 | 10.2541 | | | |
| 2,5-Dimethylhexane | 0 | 0 | | | |
| 2-Methylheptane | 31.0994 | 21.3161 | | | |
| 4-Methylheptane | 31.0993 | 21.0124 | | | |
| 3,3-Dimethylhexane | 7.29819 | 5.74673 | | | |
| 3-Methylheptane | 14.4513 | 9.94457 | | | |
| cis-1,2-Dimethylcyclohexane | 32.1959 | 21.8247 | | | |
| cis-1,3-Dimethylcyclohexane | 5.59818 | 2.46171 | | | |
| Cyclooctane | 0 | 0 | | | |
| Ethylbenzene | 9.24664 | 3.20081 | | | |
| Ethylcyclohexane | 11.0867 | 5.41894 | | | |
| m-Xylene | 7.09687 | 3.44424 | | | |
| p-Xylene | 7.09087 | 3.49007 | | | |
| n-Octane | 37.908 | 20.3735 | | | |
| o-Xylene | 4.30573 | 1.57977 | | | |
| trans-1,3-Dimethylcyclohexane | 0 | 3.75791 | | | |
| 1,1,2-Trimethylcyclohexane | 2.24384 | 0.723878 | | | |
| 1,2,3-Trimethylbenzene | 1.85205 | 0 | | | |
| 1,2,4-Trimethylbenzene | 0 | 0 | | | |
| tert-Butylbenzene | 0 | 0 | | | |
| 1,3,5-Trimethylbenzene | 2.7875 | 0 | | | |
| 2,2,3-Trimethylhexane | 1.99793 | 0.810414 | | | |
| 2,2,4-Trimethylhexane | 7.99172 | 5.30629 | | | |
| 2,2-Dimethylheptane | 2.32409 | 0.648676 | | | |
| 2,3,4-Trimethylhexane | 3.05795 | 0.769939 | | | |
| 2,4,4-Trimethylhexane | 6.97219 | 0 | | | |
| 2,5-Dimethylheptane | 5.83057 | 2.41565 | | | |
| 2-Methyloctane | 0 | 0 | | | |
| 3,4-Dimethylheptane | 1.71245 | 0 | | | |
| Isopropylbenzene | 0 | 0.00442481 | | | |
| 1,1,3-Trimethylcyclopentane | 0 | 0.00976697 | | | |
| m-Ethyltoluene | 1.00567 | 0 | | | |
| p-Ethyltoluene | 0.997397 | 0 | | | |
| n-Nonane | 4.60737 | 0.480094 | | | |
| Propylbenzene | 3.90578 | 0 | | | |
| Propylcyclohexane | 1.20173 | 0 | | | |
| 4-Methylnonane | 1.85241 | 0 | | | |
| n-Decane | 1.85461 | 0 | | | |
| nC11 | 2.13684 | 0 | | | |
| nC12 | 0 | 0 | | | |
| nC13 | 0 | 0.0365469 | | | |
| nC14 | 0 | 0.0176529 | | | |
| nC15 | 0 | 0 | | | |
| H2O | 1076.45 | 1389.9 | | | |
| CHEMTHERM 550 | 0 | 0 | | | |
| UCARSOL™ AP-814 | 0 | 0 | | | |
| MDEA | 0.0381559 | 0.0748555 | | | |
| Piperazine | 0.596355 | 0.37775 | | | |

## Stream Properties

| Property | Units | To RH5 TEG Dehy | To RH6 TEG Dehy | | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 114.376 | 123.478 | | | |
| Pressure | psig | 877 | 877 | | | |
| Molecular Weight | lb/lbmol | 21.1116 | 22.0487 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | RH5 Amine Treating | | |

## Stream Properties

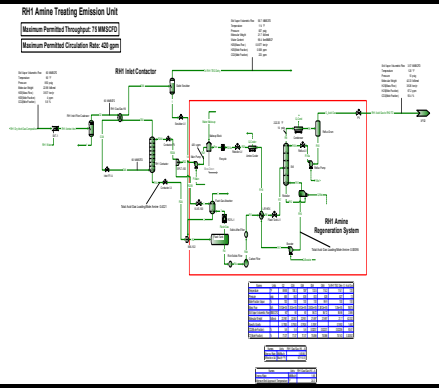
| Property | Units | To RH5 TEG Dehy | To RH6 TEG Dehy | | | |
|---|---|---|---|---|---|---|
| Mass Density | lb/ft^3 | 3.63633 | 3.76607 | | | |
| Mass Flow | lb/h | 648647 | 677921 | | | |
| Std Vapor Volumetric Flow | MMSCFD | 279.829 | 280.028 | | | |
| Std Liquid Volumetric Flow | sgpm | 3706.78 | 3771.86 | | | |
| Specific Gravity | | 0.728929 | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1249.19 | 1295.97 | | | |

**Remarks**


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# RH1 Amine Treating
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH1 Amine Treating | |





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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH1 Amine Treating | |

## Connections

| | Flash Gas | G_Acid Gas | RH1 Dry Inlet Gas Composition | R8 | To RH1 TEG Dehy |
|---|---|---|---|---|---|
| From Block | Flash Tank | Reflux Drum | -- | Still | Outlet Scrubber |
| To Block | RCYL-1 | PV | SAT-1 | Condenser | -- |

## Stream Composition

| Mole Fraction | Flash Gas % | G_Acid Gas % | RH1 Dry Inlet Gas Composition % | R8 % | To RH1 TEG Dehy % |
|---|---|---|---|---|---|
| H2S | 0.00102311 | 0.00671674 | 0.0004 * | 0.00272647 | 8.18227E-07 |
| Helium | 0 | 0 | 0 * | 0 | 0 |
| Oxygen | 0 | 0 | 0 * | 0 | 0 |
| Argon | 0 | 0 | 0 * | 0 | 0 |
| N2 | 0.807789 | 0.000956654 | 2.81892 * | 0.000387064 | 2.98515 |
| CO2 | 20.1016 | 93.4098 | 5.6 * | 37.8338 | 0.0220559 |
| C1 | 57.976 | 0.243519 | 71.046 * | 0.0985305 | 75.143 |
| C2 | 10.4738 | 0.0678919 | 10.9487 * | 0.02747 | 11.5671 |
| C3 | 3.98422 | 0.0215934 | 5.71215 * | 0.00873686 | 6.03004 |
| iC4 | 0.395432 | 0.00176056 | 0.779156 * | 0.000712327 | 0.820972 |
| nC4 | 1.14778 | 0.00693901 | 1.76859 * | 0.00280758 | 1.86034 |
| iC5 | 0.110912 | 0.000289266 | 0.421443 * | 0.000117037 | 0.441472 |
| nC5 | 0.150729 | 0.000532781 | 0.435932 * | 0.000215564 | 0.45545 |
| Neopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 * | 0 | 0 |
| 2,3-Dimethylbutane | 0.00221332 | 6.48085E-06 | 0.00856592 * | 2.62213E-06 | 0.00886065 |
| Cyclopentane | 0.00848425 | 0.000105035 | 0.00856592 * | 4.25017E-05 | 0.00889573 |
| 2-Methylpentane | 0 | 0 | 0 * | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 * | 0 | 0 |
| Benzene | 0.0494346 | 0.020699 | 0.0174255 * | 0.00840681 | 0.0165077 |
| Cyclohexane | 0.0427396 | 0.000782508 | 0.0407248 * | 0.000316632 | 0.0413931 |
| Methylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| C6 | 0.0681132 | 0.000197916 | 0.280669 * | 8.00764E-05 | 0.287975 |
| 3-Methylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,4-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| Ethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,4-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 * | 0 | 0 |
| 3-3-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 3-Ethylpentane | 0 | 0 | 0 * | 0 | 0 |
| Cycloheptane | 0 | 0 | 0 * | 0 | 0 |
| Methylcyclohexane | 0.0107755 | 8.43916E-05 | 0.0221246 * | 3.41459E-05 | 0.0218384 |
| 2,2-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| n-Heptane | 0.00634781 | 9.4135E-06 | 0.0591293 * | 3.80865E-06 | 0.0585257 |
| Toluene | 0.0232166 | 0.00965399 | 0.00988752 * | 0.00391719 | 0.00910721 |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylpentane | 0.000143288 | 2.66354E-07 | 0.00117476 * | 1.07765E-07 | 0.00113933 |
| 2,3,4-Trimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| 3,3-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 3-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH1 Amine Treating | |

## Stream Composition

| Mole Fraction | Flash Gas % | G_Acid Gas % | RH1 Dry Inlet Gas Composition % | R8 % | To RH1 TEG Dehy % |
|---|---|---|---|---|---|
| cis-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| Cyclooctane | 0 | 0 | 0 * | 0 | 0 |
| Ethylbenzene | 0.000723547 | 0.000233596 | 0.000391585 * | 9.47326E-05 | 0.000340434 |
| Ethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| m-Xylene | 0.000693928 | 0.000289846 | 0.000391585 * | 0.000117681 | 0.000333689 |
| p-Xylene | 0.000705861 | 0.000295306 | 0.000391585 * | 0.000119898 | 0.000334555 |
| n-Octane | 0.00151936 | 2.7793E-06 | 0.0148802 * | 1.12449E-06 | 0.013623 |
| o-Xylene | 0.000339357 | 0.000141651 | 0.000195793 * | 5.75122E-05 | 0.000164656 |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| 2,3,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| Isopropylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| n-Nonane | 6.7782E-05 | 5.47858E-08 | 0.00205582 * | 2.21659E-08 | 0.00158629 |
| Propylbenzene | 0 | 0 | 0 * | 0 | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,2-Diethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 | 0 |
| n-Decane | 1.38498E-05 | 3.17735E-09 | 0.00215372 * | 1.28553E-09 | 0.00130946 |
| nC11 | 0 | 0 | 0 * | 0 | 0 |
| nC12 | 0 | 0 | 0 * | 0 | 0 |
| nC13 | 0 | 0 | 0 * | 0 | 0 |
| nC14 | 0 | 0 | 0 * | 0 | 0 |
| nC15 | 0 | 0 | 0 * | 0 | 0 |
| H2O | 4.6343 | 6.20749 | 0 * | 62.0079 | 0.202445 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 0.000796909 | 3.07745E-10 | 0 * | 0.00200687 | 8.03928E-07 |
| Piperazine | 7.1992E-05 | 4.40002E-10 | 0 * | 0.00142013 | 5.72184E-06 |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH1 Dry Inlet Gas Composition % | R8 % | To RH1 TEG Dehy % |
|---|---|---|---|---|---|
| H2S | 0.00137353 | 0.00540758 | 0.000593202 * | 0.00333441 | 1.28506E-06 |
| Helium | 0 | 0 | 0 * | 0 | 0 |
| Oxygen | 0 | 0 | 0 * | 0 | 0 |
| Argon | 0 | 0 | 0 * | 0 | 0 |
| N2 | 0.891395 | 0.000633073 | 3.43622 * | 0.000389094 | 3.85362 |
| CO2 | 34.8485 | 97.1119 | 10.7242 * | 59.7493 | 0.044731 |
| C1 | 36.6375 | 0.0922862 | 49.5955 * | 0.0567215 | 55.5517 |
| C2 | 12.4059 | 0.0482248 | 14.3257 * | 0.0296404 | 16.0281 |
| C3 | 6.92061 | 0.0224931 | 10.9604 * | 0.0138248 | 12.2533 |
| iC4 | 0.905357 | 0.00241728 | 1.9706 * | 0.00148569 | 2.19891 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH1 Amine Treating | |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH1 Dry Inlet Gas Composition % | R8 % | To RH1 TEG Dehy % |
|---|---|---|---|---|---|
| nC4 | 2.62788 | 0.00952737 | 4.47303 * | 0.00585572 | 4.98278 |
| iC5 | 0.315221 | 0.000493015 | 1.32312 * | 0.000303011 | 1.46781 |
| nC5 | 0.428383 | 0.000908053 | 1.36861 * | 0.000558099 | 1.51428 |
| Neopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 * | 0 | 0 |
| 2,3-Dimethylbutane | 0.00751335 | 1.31932E-05 | 0.032121 * | 8.10857E-06 | 0.0351873 |
| Cyclopentane | 0.0234391 | 0.000174016 | 0.0261413 * | 0.000106963 | 0.0287502 |
| 2-Methylpentane | 0 | 0 | 0 * | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 * | 0 | 0 |
| Benzene | 0.152109 | 0.0381945 | 0.0592291 * | 0.0235643 | 0.0594212 |
| Cyclohexane | 0.14169 | 0.0015557 | 0.14914 * | 0.000956235 | 0.160535 |
| Methylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| C6 | 0.231218 | 0.000402901 | 1.05247 * | 0.000247625 | 1.1436 |
| 3-Methylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,4-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| Ethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,4-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 * | 0 | 0 |
| 3-3-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 3-Ethylpentane | 0 | 0 | 0 * | 0 | 0 |
| Cycloheptane | 0 | 0 | 0 * | 0 | 0 |
| Methylcyclohexane | 0.0416767 | 0.000195741 | 0.0945271 * | 0.000120308 | 0.0988117 |
| 2,2-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| n-Heptane | 0.0250557 | 2.22823E-05 | 0.257817 * | 1.36947E-05 | 0.270247 |
| Toluene | 0.0842647 | 0.0210127 | 0.0396424 * | 0.0129515 | 0.0386691 |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylpentane | 0.00064475 | 7.18733E-07 | 0.00583921 * | 4.41733E-07 | 0.00599739 |
| 2,3,4-Trimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| 3,3-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 3-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| Cyclooctane | 0 | 0 | 0 * | 0 | 0 |
| Ethylbenzene | 0.0030259 | 0.000585841 | 0.001809 * | 0.0003609 | 0.00166553 |
| Ethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| m-Xylene | 0.00290203 | 0.000726912 | 0.001809 * | 0.000448327 | 0.00163253 |
| p-Xylene | 0.00295193 | 0.000740605 | 0.001809 * | 0.000456772 | 0.00163677 |
| n-Octane | 0.00683662 | 7.49968E-06 | 0.0739633 * | 4.60931E-06 | 0.0717109 |
| o-Xylene | 0.0014192 | 0.00035525 | 0.000904502 * | 0.000219103 | 0.000805556 |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| 2,3,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH1 Amine Treating | |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH1 Dry Inlet Gas Composition % | R8 % | To RH1 TEG Dehy % |
|---|---|---|---|---|---|
| 2,5-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| Isopropylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| n-Nonane | 0.000342448 | 1.65988E-07 | 0.0114734 * | 1.02016E-07 | 0.00937553 |
| Propylbenzene | 0 | 0 | 0 * | 0 | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,2-Diethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 | 0 |
| n-Decane | 7.76245E-05 | 1.06794E-08 | 0.0133343 * | 6.56354E-09 | 0.00858575 |
| nC11 | 0 | 0 | 0 * | 0 | 0 |
| nC12 | 0 | 0 | 0 * | 0 | 0 |
| nC13 | 0 | 0 | 0 * | 0 | 0 |
| nC14 | 0 | 0 | 0 * | 0 | 0 |
| nC15 | 0 | 0 | 0 * | 0 | 0 |
| H2O | 3.28875 | 2.64174 | 0 * | 40.0862 | 0.168068 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 0.0037407 | 8.66291E-10 | 0 * | 0.00858151 | 4.41462E-06 |
| Piperazine | 0.000244272 | 8.95304E-10 | 0 * | 0.00438952 | 2.2712E-05 |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH1 Dry Inlet Gas Composition lb/h | R8 lb/h | To RH1 TEG Dehy lb/h |
|---|---|---|---|---|---|
| H2S | 0.00382005 | 0.896304 | 0.898637 * | 0.899253 | 0.00173481 |
| Helium | 0 | 0 | 0 * | 0 | 0 |
| Oxygen | 0 | 0 | 0 * | 0 | 0 |
| Argon | 0 | 0 | 0 * | 0 | 0 |
| N2 | 2.47914 | 0.104932 | 5205.5 * | 0.104934 | 5202.33 |
| CO2 | 96.9202 | 16096.3 | 16246.1 * | 16113.7 | 60.3861 |
| C1 | 101.896 | 15.2964 | 75131.9 * | 15.2972 | 74993.9 |
| C2 | 34.5032 | 7.99325 | 21701.8 * | 7.9937 | 21637.6 |
| C3 | 19.2475 | 3.72823 | 16603.8 * | 3.72839 | 16541.8 |
| iC4 | 2.51797 | 0.400664 | 2985.25 * | 0.400674 | 2968.5 |
| nC4 | 7.30863 | 1.57916 | 6776.16 * | 1.57922 | 6726.67 |
| iC5 | 0.87669 | 0.0817171 | 2004.39 * | 0.0817187 | 1981.52 |
| nC5 | 1.19141 | 0.150509 | 2073.3 * | 0.150513 | 2044.26 |
| Neopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 * | 0 | 0 |
| 2,3-Dimethylbutane | 0.020896 | 0.00218676 | 48.6599 * | 0.00218679 | 47.5023 |
| Cyclopentane | 0.0651886 | 0.028843 | 39.6013 * | 0.0288468 | 38.8123 |
| 2-Methylpentane | 0 | 0 | 0 * | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 * | 0 | 0 |
| Benzene | 0.423043 | 6.33072 | 89.7257 * | 6.35504 | 80.2176 |
| Cyclohexane | 0.394067 | 0.257857 | 225.931 * | 0.257886 | 216.719 |
| Methylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| C6 | 0.643059 | 0.0667807 | 1594.38 * | 0.0667817 | 1543.85 |
| 3-Methylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,4-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| Ethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,4-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 * | 0 | 0 |
| 3-3-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH1 Amine Treating | |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH1 Dry Inlet Gas Composition lb/h | R8 lb/h | To RH1 TEG Dehy lb/h |
|---|---|---|---|---|---|
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 3-Ethylpentane | 0 | 0 | 0 * | 0 | 0 |
| Cycloheptane | 0 | 0 | 0 * | 0 | 0 |
| Methylcyclohexane | 0.115911 | 0.0324441 | 143.198 * | 0.0324458 | 133.394 |
| 2,2-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| n-Heptane | 0.0696845 | 0.00369329 | 390.565 * | 0.00369332 | 364.829 |
| Toluene | 0.234356 | 3.48284 | 60.054 * | 3.49289 | 52.2026 |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylpentane | 0.00179317 | 0.00011913 | 8.84577 * | 0.000119131 | 8.09637 |
| 2,3,4-Trimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| 3,3-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 3-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| Cyclooctane | 0 | 0 | 0 * | 0 | 0 |
| Ethylbenzene | 0.00841559 | 0.097103 | 2.74045 * | 0.0973309 | 2.24844 |
| Ethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| m-Xylene | 0.00807109 | 0.120485 | 2.74045 * | 0.120909 | 2.20389 |
| p-Xylene | 0.00820988 | 0.122755 | 2.74045 * | 0.123187 | 2.20961 |
| n-Octane | 0.0190139 | 0.00124307 | 112.046 * | 0.00124308 | 96.8086 |
| o-Xylene | 0.00394706 | 0.0588826 | 1.37022 * | 0.0590896 | 1.08749 |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| 2,3,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| Isopropylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| n-Nonane | 0.000952414 | 2.75124E-05 | 17.381 * | 2.75125E-05 | 12.6568 |
| Propylbenzene | 0 | 0 | 0 * | 0 | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,2-Diethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 | 0 |
| n-Decane | 0.000215888 | 1.77011E-06 | 20.2 * | 1.77011E-06 | 11.5906 |
| nC11 | 0 | 0 | 0 * | 0 | 0 |
| nC12 | 0 | 0 | 0 * | 0 | 0 |
| nC13 | 0 | 0 | 0 * | 0 | 0 |
| nC14 | 0 | 0 | 0 * | 0 | 0 |
| nC15 | 0 | 0 | 0 * | 0 | 0 |
| H2O | 9.14664 | 437.868 | 0 * | 10810.8 | 226.889 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH1 Amine Treating | |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH1 Dry Inlet Gas Composition lb/h | R8 lb/h | To RH1 TEG Dehy lb/h |
|---|---|---|---|---|---|
| MDEA | 0.0104036 | 1.43587E-07 | 0 * | 2.31434 | 0.00595967 |
| Piperazine | 0.000679366 | 1.48396E-07 | 0 * | 1.18381 | 0.0306609 |

## Stream Properties

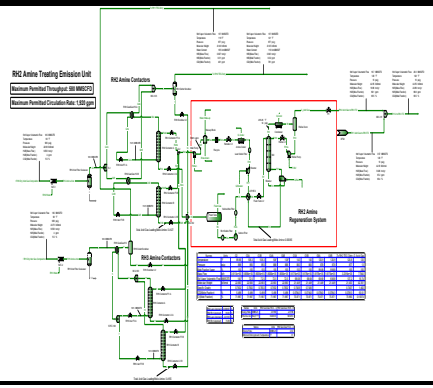
| Property | Units | Flash Gas | G_Acid Gas | RH1 Dry Inlet Gas Composition | R8 | To RH1 TEG Dehy |
|---|---|---|---|---|---|---|
| Temperature | °F | 172.308 | 120.001 | 90 * | 222.255 | 114.138 |
| Pressure | psig | 105 | 13 | 850 * | 14 | 827 |
| Molecular Weight | lb/lbmol | 25.386 | 42.3318 | 22.981 | 27.8672 | 21.7001 |
| Mass Density | lb/ft^3 | 0.456241 | 0.190112 | 4.187 | 0.110401 | 3.52315 |
| Mass Flow | lb/h | 278.119 | 16575 | 151489 | 26968.9 | 134998 |
| Std Vapor Volumetric Flow | MMSCFD | 0.0997795 | 3.56608 | 60.0369 | 8.81403 | 56.6593 |
| Std Liquid Volumetric Flow | sgpm | 1.25615 | 40.4481 | 795.443 | 61.2349 | 753.966 |
| Specific Gravity | | 0.876512 | 1.46161 | | 0.962182 | 0.749249 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 943.929 | 8.99678 | 1195.21 | 33.7017 | 1261.66 |

**Remarks**


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# RH2 Amine Treating
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |





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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

## Connections

| | Flash Gas | G_Acid Gas | RH2 Dry Inlet Gas Composition | RH3 Dry Inlet Gas Composition | R8 |
|---|---|---|---|---|---|
| From Block | Flash Tank | Reflux Drum | -- | -- | Still |
| To Block | -- | PV | SAT-1 | SAT-2 | Condenser |

## Stream Composition

| Mole Fraction | Flash Gas % | G_Acid Gas % | RH2 Dry Inlet Gas Composition % | RH3 Dry Inlet Gas Composition % | R8 % |
|---|---|---|---|---|---|
| H2S | 0.00123405 | 0.00691125 | 0.0004 * | 0.0004 * | 0.00446408 |
| Helium | 0 | 0 | 0 * | 0 * | 0 |
| Oxygen | 0 | 0 | 0 * | 0 * | 0 |
| Argon | 0 | 0 | 0 * | 0 * | 0 |
| N2 | 0.594189 | 0.00057018 | 2.45338 * | 2.042 * | 0.000367651 |
| CO2 | 24.5917 | 93.5068 | 5.5 * | 5.5 * | 60.3353 |
| C1 | 54.5414 | 0.183736 | 72.0099 * | 72.1965 * | 0.118474 |
| C2 | 9.69029 | 0.0504158 | 10.8928 * | 11.0015 * | 0.0325084 |
| C3 | 3.5341 | 0.0153902 | 5.61433 * | 5.57214 * | 0.00992362 |
| iC4 | 0.336961 | 0.00120309 | 0.741693 * | 0.75475 * | 0.000775749 |
| nC4 | 0.984534 | 0.00480587 | 1.6605 * | 1.69951 * | 0.00309883 |
| iC5 | 0.0896968 | 0.000191526 | 0.372465 * | 0.403442 * | 0.000123495 |
| nC5 | 0.120392 | 0.000346998 | 0.378447 * | 0.407753 * | 0.000223744 |
| Neopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3-Dimethylbutane | 0.00174374 | 4.13064E-06 | 0.00691384 * | 0.00852548 * | 2.66341E-06 |
| Cyclopentane | 0.00725508 | 7.36472E-05 | 0.00691384 * | 0.00852548 * | 4.74894E-05 |
| 2-Methylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Methylpentane | 0 | 0 | 0 * | 0 * | 0 |
| Benzene | 0.053416 | 0.0183216 | 0.0155929 * | 0.016365 * | 0.0118306 |
| Cyclohexane | 0.0353899 | 0.000525994 | 0.032853 * | 0.0364538 * | 0.000339171 |
| Methylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| C6 | 0.0515609 | 0.000121356 | 0.22644 * | 0.257332 * | 7.82495E-05 |
| 3-Methylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| Ethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 3-3-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Ethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| Cycloheptane | 0 | 0 | 0 * | 0 * | 0 |
| Methylcyclohexane | 0.00826757 | 5.29452E-05 | 0.0172601 * | 0.0187169 * | 3.41393E-05 |
| 2,2-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| n-Heptane | 0.00462749 | 5.61065E-06 | 0.0455038 * | 0.0509569 * | 3.61771E-06 |
| Toluene | 0.0244746 | 0.00833487 | 0.00833583 * | 0.00891746 * | 0.00538007 |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,3-Trimethylpentane | 0.000108291 | 1.63888E-07 | 0.000882617 * | 0.00107793 * | 1.05674E-07 |
| 2,3,4-Trimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 4-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 3,3-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

## Stream Composition

| Mole Fraction | Flash Gas % | G_Acid Gas % | RH2 Dry Inlet Gas Composition % | RH3 Dry Inlet Gas Composition % | R8 % |
|---|---|---|---|---|---|
| Cyclooctane | 0 | 0 | 0 * | 0 * | 0 |
| Ethylbenzene | 0.000699049 | 0.000187086 | 0.000294206 * | 0.000293982 * | 0.000120738 |
| Ethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| m-Xylene | 0.000902849 | 0.000314368 | 0.000392274 * | 0.000391976 * | 0.000202969 |
| p-Xylene | 0.000916551 | 0.00031954 | 0.000392274 * | 0.000391976 * | 0.000206308 |
| n-Octane | 0.00113676 | 1.69743E-06 | 0.011474 * | 0.0118573 * | 1.09449E-06 |
| o-Xylene | 0.000333764 | 0.000116156 | 9.80686E-05 * | 0.000195988 * | 7.49951E-05 |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,3-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,5-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 * | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| Isopropylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 * | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 * | 0 |
| n-Nonane | 5.8789E-05 | 3.88753E-08 | 0.00147103 * | 0.00176389 * | 2.50665E-08 |
| Propylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,2-Diethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 * | 0 |
| n-Decane | 6.59854E-06 | 0 | 0.00127489 * | 0.000195988 * | 0 |
| nC11 | 0 | 0 | 0 * | 0 * | 0 |
| nC12 | 0 | 0 | 0 * | 0 * | 0 |
| nC13 | 0 | 0 | 0 * | 0 * | 0 |
| nC14 | 0 | 0 | 0 * | 0 * | 0 |
| nC15 | 0 | 0 | 0 * | 0 * | 0 |
| H2O | 5.32365 | 6.20125 | 0 * | 0 * | 39.456 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 * | 0 |
| MDEA | 0.00084726 | 2.51437E-08 | 0 * | 0 * | 0.0141728 |
| Piperazine | 7.22813E-05 | 2.45722E-08 | 0 * | 0 * | 0.00633736 |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH2 Dry Inlet Gas Composition % | RH3 Dry Inlet Gas Composition % | R8 % |
|---|---|---|---|---|---|
| H2S | 0.00160197 | 0.00556172 | 0.000600963 * | 0.000599843 * | 0.00450968 |
| Helium | 0 | 0 | 0 * | 0 * | 0 |
| Oxygen | 0 | 0 | 0 * | 0 * | 0 |
| Argon | 0 | 0 | 0 * | 0 * | 0 |
| N2 | 0.634016 | 0.000377155 | 3.02976 * | 2.51703 * | 0.000305285 |
| CO2 | 41.2235 | 97.1697 | 10.6705 * | 10.6507 * | 78.7084 |
| C1 | 33.3278 | 0.0695997 | 50.9261 * | 50.9629 * | 0.0563374 |
| C2 | 11.0986 | 0.0357954 | 14.4389 * | 14.5559 * | 0.0289746 |
| C3 | 5.93586 | 0.0160244 | 10.9137 * | 10.8115 * | 0.0129709 |
| iC4 | 0.745987 | 0.00165113 | 1.90039 * | 1.93025 * | 0.00133649 |
| nC4 | 2.17963 | 0.00659562 | 4.25459 * | 4.34644 * | 0.0053388 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH2 Dry Inlet Gas Composition % | RH3 Dry Inlet Gas Composition % | R8 % |
|---|---|---|---|---|---|
| iC5 | 0.246499 | 0.000326286 | 1.18465 * | 1.28079 * | 0.000264109 |
| nC5 | 0.330853 | 0.00059115 | 1.20368 * | 1.29447 * | 0.000478501 |
| Neopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3-Dimethylbutane | 0.00572368 | 8.40507E-06 | 0.0262651 * | 0.0323273 * | 6.80339E-06 |
| Cyclopentane | 0.0193809 | 0.000121961 | 0.0213756 * | 0.0263092 * | 9.87239E-05 |
| 2-Methylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Methylpentane | 0 | 0 | 0 * | 0 * | 0 |
| Benzene | 0.158927 | 0.0337926 | 0.0536934 * | 0.0562471 * | 0.0273922 |
| Cyclohexane | 0.113447 | 0.00104526 | 0.121886 * | 0.134994 * | 0.000846106 |
| Methylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| C6 | 0.169244 | 0.000246936 | 0.860229 * | 0.975764 * | 0.000199879 |
| 3-Methylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| Ethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 3-3-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Ethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| Cycloheptane | 0 | 0 | 0 * | 0 * | 0 |
| Methylcyclohexane | 0.0309198 | 0.000122749 | 0.0747085 * | 0.0808631 * | 9.93591E-05 |
| 2,2-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| n-Heptane | 0.0176616 | 1.32749E-05 | 0.201002 * | 0.224671 * | 1.07452E-05 |
| Toluene | 0.0858946 | 0.0181335 | 0.0338584 * | 0.0361534 * | 0.0146937 |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,3-Trimethylpentane | 0.000471167 | 4.42042E-07 | 0.00444451 * | 0.00541794 * | 3.57805E-07 |
| 2,3,4-Trimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 4-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 3,3-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| Cyclooctane | 0 | 0 | 0 * | 0 * | 0 |
| Ethylbenzene | 0.00282683 | 0.000468991 | 0.00137692 * | 0.00137331 * | 0.000379951 |
| Ethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| m-Xylene | 0.00365095 | 0.000788064 | 0.0018359 * | 0.00183108 * | 0.000638726 |
| p-Xylene | 0.00370636 | 0.000801029 | 0.0018359 * | 0.00183108 * | 0.000649235 |
| n-Octane | 0.00494598 | 4.57834E-06 | 0.0577787 * | 0.0595973 * | 3.70587E-06 |
| o-Xylene | 0.00134968 | 0.000291182 | 0.000458975 * | 0.000915542 * | 0.000236003 |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,3-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,5-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH2 Dry Inlet Gas Composition % | RH3 Dry Inlet Gas Composition % | R8 % |
|---|---|---|---|---|---|
| 2-Methyloctane | 0 | 0 | 0 * | 0 * | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| Isopropylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 * | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 * | 0 |
| n-Nonane | 0.000287197 | 1.17731E-07 | 0.00831712 * | 0.00995438 * | 9.52953E-08 |
| Propylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,2-Diethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 * | 0 |
| n-Decane | 3.57607E-05 | 0 | 0.00799649 * | 0.001227 * | 0 |
| nC11 | 0 | 0 | 0 * | 0 * | 0 |
| nC12 | 0 | 0 | 0 * | 0 * | 0 |
| nC13 | 0 | 0 | 0 * | 0 * | 0 |
| nC14 | 0 | 0 | 0 * | 0 * | 0 |
| nC15 | 0 | 0 | 0 * | 0 * | 0 |
| H2O | 3.65309 | 2.63792 | 0 * | 0 * | 21.0696 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 * | 0 |
| MDEA | 0.00384561 | 7.07472E-08 | 0 * | 0 * | 0.0500609 |
| Piperazine | 0.000237147 | 4.99767E-08 | 0 * | 0 * | 0.0161806 |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH2 Dry Inlet Gas Composition lb/h | RH3 Dry Inlet Gas Composition lb/h | R8 lb/h |
|---|---|---|---|---|---|
| H2S | 0.0244274 | 4.32924 | 2.16969 * | 2.16969 * | 4.33678 |
| Helium | 0 | 0 | 0 * | 0 * | 0 |
| Oxygen | 0 | 0 | 0 * | 0 * | 0 |
| Argon | 0 | 0 | 0 * | 0 * | 0 |
| N2 | 9.66768 | 0.293577 | 10938.5 * | 9104.32 * | 0.29358 |
| CO2 | 628.59 | 75636.9 | 38524.3 * | 38524.3 * | 75690.7 |
| C1 | 508.194 | 54.1764 | 183861 * | 184337 * | 54.1774 |
| C2 | 169.234 | 27.8632 | 52129.6 * | 52649.9 * | 27.8637 |
| C3 | 90.512 | 12.4734 | 39402.1 * | 39106 * | 12.4736 |
| iC4 | 11.3751 | 1.28524 | 6861.07 * | 6981.86 * | 1.28525 |
| nC4 | 33.2357 | 5.13403 | 15360.5 * | 15721.4 * | 5.1341 |
| iC5 | 3.7587 | 0.253981 | 4277.01 * | 4632.72 * | 0.253983 |
| nC5 | 5.04496 | 0.460151 | 4345.7 * | 4682.23 * | 0.460155 |
| Neopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3-Dimethylbutane | 0.0872765 | 0.00654251 | 94.8262 * | 116.931 * | 0.00654254 |
| Cyclopentane | 0.295526 | 0.0949341 | 77.1733 * | 95.1627 * | 0.0949387 |
| 2-Methylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Methylpentane | 0 | 0 | 0 * | 0 * | 0 |
| Benzene | 2.42337 | 26.3041 | 193.852 * | 203.451 * | 26.342 |
| Cyclohexane | 1.72987 | 0.813631 | 440.052 * | 488.283 * | 0.813666 |
| Methylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| C6 | 2.58069 | 0.192215 | 3105.73 * | 3529.42 * | 0.192216 |
| 3-Methylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| Ethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 3-3-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH2 Dry Inlet Gas Composition lb/h | RH3 Dry Inlet Gas Composition lb/h | R8 lb/h |
|---|---|---|---|---|---|
| 3-Ethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| Cycloheptane | 0 | 0 | 0 * | 0 * | 0 |
| Methylcyclohexane | 0.471476 | 0.0955477 | 269.723 * | 292.489 * | 0.0955496 |
| 2,2-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| n-Heptane | 0.269311 | 0.0103332 | 725.688 * | 812.653 * | 0.0103332 |
| Toluene | 1.30975 | 14.1151 | 122.241 * | 130.77 * | 14.1304 |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,3-Trimethylpentane | 0.00718451 | 0.000344086 | 16.0462 * | 19.5972 * | 0.000344087 |
| 2,3,4-Trimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 4-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 3,3-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| Cyclooctane | 0 | 0 | 0 * | 0 * | 0 |
| Ethylbenzene | 0.0431044 | 0.365062 | 4.97117 * | 4.96739 * | 0.365384 |
| Ethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| m-Xylene | 0.0556709 | 0.613429 | 6.62823 * | 6.62319 * | 0.614237 |
| p-Xylene | 0.0565158 | 0.623521 | 6.62823 * | 6.62319 * | 0.624343 |
| n-Octane | 0.0754179 | 0.00356378 | 208.601 * | 215.569 * | 0.00356379 |
| o-Xylene | 0.0205804 | 0.226656 | 1.65706 * | 3.31159 * | 0.226955 |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,3-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,5-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 * | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| Isopropylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 * | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 * | 0 |
| n-Nonane | 0.00437928 | 9.16416E-05 | 30.0277 * | 36.0058 * | 9.16417E-05 |
| Propylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,2-Diethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 * | 0 |
| n-Decane | 0.000545291 | 0 | 28.8701 * | 4.43818 * | 0 |
| nC11 | 0 | 0 | 0 * | 0 * | 0 |
| nC12 | 0 | 0 | 0 * | 0 * | 0 |
| nC13 | 0 | 0 | 0 * | 0 * | 0 |
| nC14 | 0 | 0 | 0 * | 0 * | 0 |
| nC15 | 0 | 0 | 0 * | 0 * | 0 |
| H2O | 55.7035 | 2053.36 | 0 * | 0 * | 20261.8 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 * | 0 |
| MDEA | 0.0586391 | 5.50696E-05 | 0 * | 0 * | 48.1416 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH2 Dry Inlet Gas Composition lb/h | RH3 Dry Inlet Gas Composition lb/h | R8 lb/h |
|---|---|---|---|---|---|
| Piperazine | 0.0036161 | 3.89019E-05 | 0 * | 0 * | 15.5602 |

## Stream Properties

| Property | Units | Flash Gas | G_Acid Gas | RH2 Dry Inlet Gas Composition | RH3 Dry Inlet Gas Composition | R8 |
|---|---|---|---|---|---|---|
| Temperature | °F | 170.556 | 119.999 | 90 * | 90 * | 205.251 |
| Pressure | psig | 85 | 13 | 900 * | 900 * | 14 |
| Molecular Weight | lb/lbmol | 26.2537 | 42.3505 | 22.6842 | 22.7265 | 33.7362 |
| Mass Density | lb/ft^3 | 0.393046 | 0.190198 | 4.40201 | 4.42693 | 0.136804 |
| Mass Flow | lb/h | 1524.83 | 77840 | 361035 | 361709 | 96166 |
| Std Vapor Volumetric Flow | MMSCFD | 0.528977 | 16.7397 | 144.954 | 144.954 | 25.9615 |
| Std Liquid Volumetric Flow | sgpm | 6.57401 | 189.84 | 1914.6 | 1920.7 | 226.507 |
| Specific Gravity | | 0.906471 | 1.46225 | 0.783225 | 0.784688 | 1.16482 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 873.895 | 7.65907 | 1187.92 | 1196.96 | 23.5493 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

## Connections

| | To RH2 TEG Dehy | To RH3 TEG Dehy | | | |
|---|---|---|---|---|---|
| From Block | RH2 Outlet Scrubber | RH3 Outlet Scrubber | | | |
| To Block | -- | -- | | | |

## Stream Composition

| Mole Fraction | To RH2 TEG Dehy % | To RH3 TEG Dehy % | | | |
|---|---|---|---|---|---|
| H2S | 1.92243E-06 | 1.22266E-06 | | | |
| Helium | 0 | 0 | | | |
| Oxygen | 0 | 0 | | | |
| Argon | 0 | 0 | | | |
| N2 | 2.5908 | 2.15745 | | | |
| CO2 | 0.0781324 | 0.0400714 | | | |
| C1 | 75.9648 | 76.1995 | | | |
| C2 | 11.4869 | 11.6074 | | | |
| C3 | 5.92395 | 5.88237 | | | |
| iC4 | 0.782908 | 0.797087 | | | |
| nC4 | 1.7522 | 1.79427 | | | |
| iC5 | 0.393343 | 0.426272 | | | |
| nC5 | 0.399597 | 0.430759 | | | |
| Neopentane | 0 | 0 | | | |
| 2,2-Dimethylbutane | 0 | 0 | | | |
| 2,3-Dimethylbutane | 0.00730145 | 0.00900799 | | | |
| Cyclopentane | 0.00728804 | 0.00899166 | | | |
| 2-Methylpentane | 0 | 0 | | | |
| 3-Methylpentane | 0 | 0 | | | |
| Benzene | 0.0152755 | 0.0160557 | | | |
| Cyclohexane | 0.0346149 | 0.0384287 | | | |
| Methylcyclopentane | 0 | 0 | | | |
| C6 | 0.239142 | 0.271903 | | | |
| 3-Methylhexane | 0 | 0 | | | |
| 2,2-Dimethylpentane | 0 | 0 | | | |
| 2,3-Dimethylpentane | 0 | 0 | | | |
| 2,4-Dimethylhexane | 0 | 0 | | | |
| Ethylcyclopentane | 0 | 0 | | | |
| 2,4-Dimethylpentane | 0 | 0 | | | |
| 2-Methylhexane | 0 | 0 | | | |
| 3-3-Dimethylpentane | 0 | 0 | | | |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | | | |
| 3-Ethylpentane | 0 | 0 | | | |
| Cycloheptane | 0 | 0 | | | |
| Methylcyclohexane | 0.0182174 | 0.019765 | | | |
| 2,2-Dimethylhexane | 0 | 0 | | | |
| n-Heptane | 0.0480676 | 0.0538549 | | | |
| Toluene | 0.00826567 | 0.00885612 | | | |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | | | |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | | | |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | | | |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | | | |
| 2,2,3-Trimethylpentane | 0.000932318 | 0.0011392 | | | |
| 2,3,4-Trimethylpentane | 0 | 0 | | | |
| 2,5-Dimethylhexane | 0 | 0 | | | |
| 2-Methylheptane | 0 | 0 | | | |
| 4-Methylheptane | 0 | 0 | | | |
| 3,3-Dimethylhexane | 0 | 0 | | | |
| 3-Methylheptane | 0 | 0 | | | |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | | | |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

## Stream Composition

| Mole Fraction | To RH2 TEG Dehy % | To RH3 TEG Dehy % | | | |
|---|---|---|---|---|---|
| Cyclooctane | 0 | 0 | | | |
| Ethylbenzene | 0.000297925 | 0.000298142 | | | |
| Ethylcyclohexane | 0 | 0 | | | |
| m-Xylene | 0.000393248 | 0.000393699 | | | |
| p-Xylene | 0.000392902 | 0.00039336 | | | |
| n-Octane | 0.0121204 | 0.0125316 | | | |
| o-Xylene | 9.83664E-05 | 0.000196954 | | | |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | | | |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | | | |
| 1,2,3-Trimethylbenzene | 0 | 0 | | | |
| 1,2,4-Trimethylbenzene | 0 | 0 | | | |
| tert-Butylbenzene | 0 | 0 | | | |
| 1,3,5-Trimethylbenzene | 0 | 0 | | | |
| 2,2,3-Trimethylhexane | 0 | 0 | | | |
| 2,2,4-Trimethylhexane | 0 | 0 | | | |
| 2,2-Dimethylheptane | 0 | 0 | | | |
| 2,3,4-Trimethylhexane | 0 | 0 | | | |
| 2,4,4-Trimethylhexane | 0 | 0 | | | |
| 2,5-Dimethylheptane | 0 | 0 | | | |
| 2-Methyloctane | 0 | 0 | | | |
| 3,4-Dimethylheptane | 0 | 0 | | | |
| Isopropylbenzene | 0 | 0 | | | |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | | | |
| m-Ethyltoluene | 0 | 0 | | | |
| p-Ethyltoluene | 0 | 0 | | | |
| n-Nonane | 0.00155409 | 0.00186442 | | | |
| Propylbenzene | 0 | 0 | | | |
| Propylcyclohexane | 0 | 0 | | | |
| 1,2-Diethylbenzene | 0 | 0 | | | |
| 4-Methylnonane | 0 | 0 | | | |
| n-Decane | 0.00134694 | 0.000207168 | | | |
| nC11 | 0 | 0 | | | |
| nC12 | 0 | 0 | | | |
| nC13 | 0 | 0 | | | |
| nC14 | 0 | 0 | | | |
| nC15 | 0 | 0 | | | |
| H2O | 0.231995 | 0.220872 | | | |
| CHEMTHERM 550 | 0 | 0 | | | |
| UCARSOL™ AP-814 | 0 | 0 | | | |
| MDEA | 1.17479E-06 | 1.16593E-06 | | | |
| Piperazine | 3.33342E-06 | 5.20338E-06 | | | |

| Mass Fraction | To RH2 TEG Dehy % | To RH3 TEG Dehy % | | | |
|---|---|---|---|---|---|
| H2S | 3.05409E-06 | 1.93908E-06 | | | |
| Helium | 0 | 0 | | | |
| Oxygen | 0 | 0 | | | |
| Argon | 0 | 0 | | | |
| N2 | 3.38313 | 2.81246 | | | |
| CO2 | 0.160286 | 0.0820657 | | | |
| C1 | 56.8071 | 56.8858 | | | |
| C2 | 16.1006 | 16.2419 | | | |
| C3 | 12.1766 | 12.0706 | | | |
| iC4 | 2.12115 | 2.1559 | | | |
| nC4 | 4.74729 | 4.85302 | | | |
| iC5 | 1.32288 | 1.43119 | | | |
| nC5 | 1.34391 | 1.44625 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

| Mass Fraction | To RH2 TEG Dehy % | To RH3 TEG Dehy % | | | |
|---|---|---|---|---|---|
| Neopentane | 0 | 0 | | | |
| 2,2-Dimethylbutane | 0 | 0 | | | |
| 2,3-Dimethylbutane | 0.02933 | 0.0361237 | | | |
| Cyclopentane | 0.023826 | 0.0293456 | | | |
| 2-Methylpentane | 0 | 0 | | | |
| 3-Methylpentane | 0 | 0 | | | |
| Benzene | 0.0556201 | 0.0583617 | | | |
| Cyclohexane | 0.135795 | 0.150501 | | | |
| Methylcyclopentane | 0 | 0 | | | |
| C6 | 0.960633 | 1.09038 | | | |
| 3-Methylhexane | 0 | 0 | | | |
| 2,2-Dimethylpentane | 0 | 0 | | | |
| 2,3-Dimethylpentane | 0 | 0 | | | |
| 2,4-Dimethylhexane | 0 | 0 | | | |
| Ethylcyclopentane | 0 | 0 | | | |
| 2,4-Dimethylpentane | 0 | 0 | | | |
| 2-Methylhexane | 0 | 0 | | | |
| 3-3-Dimethylpentane | 0 | 0 | | | |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | | | |
| 3-Ethylpentane | 0 | 0 | | | |
| Cycloheptane | 0 | 0 | | | |
| Methylcyclohexane | 0.0833786 | 0.0903084 | | | |
| 2,2-Dimethylhexane | 0 | 0 | | | |
| n-Heptane | 0.224516 | 0.25112 | | | |
| Toluene | 0.0355008 | 0.0379722 | | | |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | | | |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | | | |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | | | |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | | | |
| 2,2,3-Trimethylpentane | 0.0049643 | 0.0060556 | | | |
| 2,3,4-Trimethylpentane | 0 | 0 | | | |
| 2,5-Dimethylhexane | 0 | 0 | | | |
| 2-Methylheptane | 0 | 0 | | | |
| 4-Methylheptane | 0 | 0 | | | |
| 3,3-Dimethylhexane | 0 | 0 | | | |
| 3-Methylheptane | 0 | 0 | | | |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | | | |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | | | |
| Cyclooctane | 0 | 0 | | | |
| Ethylbenzene | 0.00147437 | 0.00147294 | | | |
| Ethylcyclohexane | 0 | 0 | | | |
| m-Xylene | 0.00194611 | 0.00194503 | | | |
| p-Xylene | 0.0019444 | 0.00194336 | | | |
| n-Octane | 0.0645375 | 0.0666132 | | | |
| o-Xylene | 0.000486796 | 0.00097303 | | | |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | | | |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | | | |
| 1,2,3-Trimethylbenzene | 0 | 0 | | | |
| 1,2,4-Trimethylbenzene | 0 | 0 | | | |
| tert-Butylbenzene | 0 | 0 | | | |
| 1,3,5-Trimethylbenzene | 0 | 0 | | | |
| 2,2,3-Trimethylhexane | 0 | 0 | | | |
| 2,2,4-Trimethylhexane | 0 | 0 | | | |
| 2,2-Dimethylheptane | 0 | 0 | | | |
| 2,3,4-Trimethylhexane | 0 | 0 | | | |
| 2,4,4-Trimethylhexane | 0 | 0 | | | |
| 2,5-Dimethylheptane | 0 | 0 | | | |
| 2-Methyloctane | 0 | 0 | | | |
| 3,4-Dimethylheptane | 0 | 0 | | | |
| Isopropylbenzene | 0 | 0 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

| Mass Fraction | To RH2 TEG Dehy % | To RH3 TEG Dehy % | | | |
|---|---|---|---|---|---|
| 1,1,3-Trimethylcyclopentane | 0 | 0 | | | |
| m-Ethyltoluene | 0 | 0 | | | |
| p-Ethyltoluene | 0 | 0 | | | |
| n-Nonane | 0.00929114 | 0.0111275 | | | |
| Propylbenzene | 0 | 0 | | | |
| Propylcyclohexane | 0 | 0 | | | |
| 1,2-Diethylbenzene | 0 | 0 | | | |
| 4-Methylnonane | 0 | 0 | | | |
| n-Decane | 0.00893343 | 0.00137168 | | | |
| nC11 | 0 | 0 | | | |
| nC12 | 0 | 0 | | | |
| nC13 | 0 | 0 | | | |
| nC14 | 0 | 0 | | | |
| nC15 | 0 | 0 | | | |
| H2O | 0.194823 | 0.185167 | | | |
| CHEMTHERM 550 | 0 | 0 | | | |
| UCARSOL™ AP-814 | 0 | 0 | | | |
| MDEA | 6.52557E-06 | 6.46535E-06 | | | |
| Piperazine | 1.33842E-05 | 2.08569E-05 | | | |

| Mass Flow | To RH2 TEG Dehy lb/h | To RH3 TEG Dehy lb/h | | | |
|---|---|---|---|---|---|
| H2S | 0.00986972 | 0.00627395 | | | |
| Helium | 0 | 0 | | | |
| Oxygen | 0 | 0 | | | |
| Argon | 0 | 0 | | | |
| N2 | 10933.1 | 9099.79 | | | |
| CO2 | 517.988 | 265.526 | | | |
| C1 | 183580 | 184056 | | | |
| C2 | 52031.4 | 52550.9 | | | |
| C3 | 39350.4 | 39054.7 | | | |
| iC4 | 6854.8 | 6975.47 | | | |
| nC4 | 15341.5 | 15702.1 | | | |
| iC5 | 4275.07 | 4630.64 | | | |
| nC5 | 4343.04 | 4679.38 | | | |
| Neopentane | 0 | 0 | | | |
| 2,2-Dimethylbutane | 0 | 0 | | | |
| 2,3-Dimethylbutane | 94.7839 | 116.879 | | | |
| Cyclopentane | 76.9972 | 94.9483 | | | |
| 2-Methylpentane | 0 | 0 | | | |
| 3-Methylpentane | 0 | 0 | | | |
| Benzene | 179.744 | 188.831 | | | |
| Cyclohexane | 438.842 | 486.95 | | | |
| Methylcyclopentane | 0 | 0 | | | |
| C6 | 3104.42 | 3527.95 | | | |
| 3-Methylhexane | 0 | 0 | | | |
| 2,2-Dimethylpentane | 0 | 0 | | | |
| 2,3-Dimethylpentane | 0 | 0 | | | |
| 2,4-Dimethylhexane | 0 | 0 | | | |
| Ethylcyclopentane | 0 | 0 | | | |
| 2,4-Dimethylpentane | 0 | 0 | | | |
| 2-Methylhexane | 0 | 0 | | | |
| 3-3-Dimethylpentane | 0 | 0 | | | |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | | | |
| 3-Ethylpentane | 0 | 0 | | | |
| Cycloheptane | 0 | 0 | | | |
| Methylcyclohexane | 269.45 | 292.195 | | | |
| 2,2-Dimethylhexane | 0 | 0 | | | |
| n-Heptane | 725.556 | 812.506 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

| Mass Flow | To RH2 TEG Dehy lb/h | To RH3 TEG Dehy lb/h | | | |
|---|---|---|---|---|---|
| Toluene | 114.726 | 122.86 | | | |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | | | |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | | | |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | | | |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | | | |
| 2,2,3-Trimethylpentane | 16.0428 | 19.593 | | | |
| 2,3,4-Trimethylpentane | 0 | 0 | | | |
| 2,5-Dimethylhexane | 0 | 0 | | | |
| 2-Methylheptane | 0 | 0 | | | |
| 4-Methylheptane | 0 | 0 | | | |
| 3,3-Dimethylhexane | 0 | 0 | | | |
| 3-Methylheptane | 0 | 0 | | | |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | | | |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | | | |
| Cyclooctane | 0 | 0 | | | |
| Ethylbenzene | 4.76465 | 4.76574 | | | |
| Ethylcyclohexane | 0 | 0 | | | |
| m-Xylene | 6.28912 | 6.2932 | | | |
| p-Xylene | 6.2836 | 6.28778 | | | |
| n-Octane | 208.562 | 215.529 | | | |
| o-Xylene | 1.57315 | 3.14826 | | | |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | | | |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | | | |
| 1,2,3-Trimethylbenzene | 0 | 0 | | | |
| 1,2,4-Trimethylbenzene | 0 | 0 | | | |
| tert-Butylbenzene | 0 | 0 | | | |
| 1,3,5-Trimethylbenzene | 0 | 0 | | | |
| 2,2,3-Trimethylhexane | 0 | 0 | | | |
| 2,2,4-Trimethylhexane | 0 | 0 | | | |
| 2,2-Dimethylheptane | 0 | 0 | | | |
| 2,3,4-Trimethylhexane | 0 | 0 | | | |
| 2,4,4-Trimethylhexane | 0 | 0 | | | |
| 2,5-Dimethylheptane | 0 | 0 | | | |
| 2-Methyloctane | 0 | 0 | | | |
| 3,4-Dimethylheptane | 0 | 0 | | | |
| Isopropylbenzene | 0 | 0 | | | |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | | | |
| m-Ethyltoluene | 0 | 0 | | | |
| p-Ethyltoluene | 0 | 0 | | | |
| n-Nonane | 30.0256 | 36.0034 | | | |
| Propylbenzene | 0 | 0 | | | |
| Propylcyclohexane | 0 | 0 | | | |
| 1,2-Diethylbenzene | 0 | 0 | | | |
| 4-Methylnonane | 0 | 0 | | | |
| n-Decane | 28.8696 | 4.43811 | | | |
| nC11 | 0 | 0 | | | |
| nC12 | 0 | 0 | | | |
| nC13 | 0 | 0 | | | |
| nC14 | 0 | 0 | | | |
| nC15 | 0 | 0 | | | |
| H2O | 629.597 | 599.112 | | | |
| CHEMTHERM 550 | 0 | 0 | | | |
| UCARSOL™ AP-814 | 0 | 0 | | | |
| MDEA | 0.0210883 | 0.0209188 | | | |
| Piperazine | 0.0432529 | 0.0674829 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

## Stream Properties

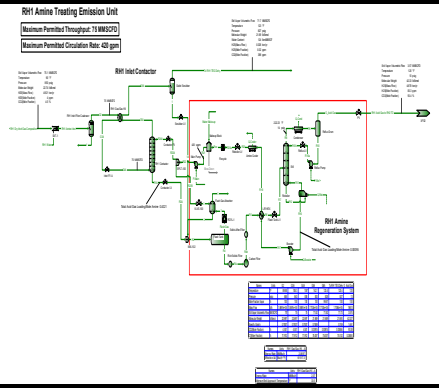
| Property | Units | To RH2 TEG Dehy | To RH3 TEG Dehy | | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 120.849 | 119.053 | | | |
| Pressure | psig | 877 | 877 | | | |
| Molecular Weight | lb/lbmol | 21.4526 | 21.4891 | | | |
| Mass Density | lb/ft^3 | 3.63606 | 3.67286 | | | |
| Mass Flow | lb/h | 323164 | 323553 | | | |
| Std Vapor Volumetric Flow | MMSCFD | 137.198 | 137.129 | | | |
| Std Liquid Volumetric Flow | sgpm | 1820.07 | 1825.48 | | | |
| Specific Gravity | | 0.740704 | 0.741964 | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1253.25 | 1263.4 | | | |

**Remarks**


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# RH1 Amine Treating
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH1 Amine Treating | |





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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH1 Amine Treating | |

## Connections

| | Flash Gas | G_Acid Gas | RH1 Dry Inlet Gas Composition | R8 | To RH1 TEG Dehy |
|---|---|---|---|---|---|
| From Block | Flash Tank | Reflux Drum | -- | Still | Outlet Scrubber |
| To Block | RCYL-1 | PV | SAT-1 | Condenser | -- |

## Stream Composition

| Mole Fraction | Flash Gas % | G_Acid Gas % | RH1 Dry Inlet Gas Composition % | R8 % | To RH1 TEG Dehy % |
|---|---|---|---|---|---|
| H2S | 0.00107522 | 0.00832749 | 0.0004 * | 0.00338302 | 2.1862E-06 |
| Helium | 0 | 0 | 0 * | 0 | 0 |
| Oxygen | 0 | 0 | 0 * | 0 | 0 |
| Argon | 0 | 0 | 0 * | 0 | 0 |
| N2 | 0.901907 | 0.00106423 | 2.85177 * | 0.000430935 | 2.98294 |
| CO2 | 14.8849 | 93.3829 | 4.5 * | 37.8533 | 0.0388405 |
| C1 | 62.8014 | 0.258036 | 71.8738 * | 0.104488 | 75.102 |
| C2 | 11.3142 | 0.0726714 | 11.0763 * | 0.0294275 | 11.5591 |
| C3 | 4.25551 | 0.0226897 | 5.77871 * | 0.00918786 | 6.02277 |
| iC4 | 0.412325 | 0.0017657 | 0.788236 * | 0.000714982 | 0.819356 |
| nC4 | 1.22245 | 0.00734467 | 1.7892 * | 0.0029741 | 1.85601 |
| iC5 | 0.124244 | 0.000340465 | 0.426354 * | 0.000137863 | 0.439695 |
| nC5 | 0.165136 | 0.000600855 | 0.441012 * | 0.000243303 | 0.453303 |
| Neopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 * | 0 | 0 |
| 2,3-Dimethylbutane | 0.00238675 | 7.09992E-06 | 0.00866574 * | 2.87492E-06 | 0.00879212 |
| Cyclopentane | 0.0092151 | 0.000120551 | 0.00866574 * | 4.88197E-05 | 0.00884529 |
| 2-Methylpentane | 0 | 0 | 0 * | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 * | 0 | 0 |
| Benzene | 0.0483141 | 0.0214348 | 0.0176286 * | 0.0087126 | 0.0165898 |
| Cyclohexane | 0.0439547 | 0.000811133 | 0.0411994 * | 0.000328479 | 0.0409164 |
| Methylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| C6 | 0.0730288 | 0.00021549 | 0.283939 * | 8.72568E-05 | 0.285064 |
| 3-Methylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,4-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| Ethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,4-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 * | 0 | 0 |
| 3-3-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 3-Ethylpentane | 0 | 0 | 0 * | 0 | 0 |
| Cycloheptane | 0 | 0 | 0 * | 0 | 0 |
| Methylcyclohexane | 0.0113125 | 9.10448E-05 | 0.0223824 * | 3.68676E-05 | 0.0213885 |
| 2,2-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| n-Heptane | 0.00687386 | 1.06024E-05 | 0.0598184 * | 4.29312E-06 | 0.0573365 |
| Toluene | 0.0223045 | 0.00993531 | 0.0100027 * | 0.00403457 | 0.00902671 |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylpentane | 0.000150427 | 2.84426E-07 | 0.00118844 * | 1.1517E-07 | 0.00110993 |
| 2,3,4-Trimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| 3,3-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 3-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH1 Amine Treating | |

## Stream Composition

| Mole Fraction | Flash Gas % | G_Acid Gas % | RH1 Dry Inlet Gas Composition % | R8 % | To RH1 TEG Dehy % |
|---|---|---|---|---|---|
| cis-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| Cyclooctane | 0 | 0 | 0 * | 0 | 0 |
| Ethylbenzene | 0.000680925 | 0.000246499 | 0.000396148 * | 0.000100046 | 0.000328533 |
| Ethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| m-Xylene | 0.000649405 | 0.000311234 | 0.000396148 * | 0.000126466 | 0.000321459 |
| p-Xylene | 0.000660979 | 0.000317323 | 0.000396148 * | 0.00012894 | 0.000322599 |
| n-Octane | 0.0015602 | 2.90065E-06 | 0.0150536 * | 1.17453E-06 | 0.0130719 |
| o-Xylene | 0.000316116 | 0.000151361 | 0.000198074 * | 6.15038E-05 | 0.000158104 |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| 2,3,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| Isopropylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| n-Nonane | 6.7225E-05 | 5.56121E-08 | 0.00207978 * | 2.25184E-08 | 0.00146339 |
| Propylbenzene | 0 | 0 | 0 * | 0 | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,2-Diethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 | 0 |
| n-Decane | 1.38219E-05 | 3.41174E-09 | 0.00217881 * | 1.38148E-09 | 0.00115789 |
| nC11 | 0 | 0 | 0 * | 0 | 0 |
| nC12 | 0 | 0 | 0 * | 0 | 0 |
| nC13 | 0 | 0 | 0 * | 0 | 0 |
| nC14 | 0 | 0 | 0 * | 0 | 0 |
| nC15 | 0 | 0 | 0 * | 0 | 0 |
| H2O | 3.69473 | 6.21063 | 0 * | 61.9786 | 0.260085 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 0.000538081 | 3.09681E-10 | 0 * | 0.00201088 | 1.36752E-06 |
| Piperazine | 4.61359E-05 | 4.4286E-10 | 0 * | 0.00142242 | 7.18067E-06 |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH1 Dry Inlet Gas Composition % | R8 % | To RH1 TEG Dehy % |
|---|---|---|---|---|---|
| H2S | 0.001516 | 0.0067052 | 0.000599595 * | 0.00413649 | 3.43463E-06 |
| Helium | 0 | 0 | 0 * | 0 | 0 |
| Oxygen | 0 | 0 | 0 * | 0 | 0 |
| Argon | 0 | 0 | 0 * | 0 | 0 |
| N2 | 1.04525 | 0.000704347 | 3.51373 * | 0.000433105 | 3.85203 |
| CO2 | 27.101 | 97.0957 | 8.71057 * | 59.7676 | 0.078797 |
| C1 | 41.6805 | 0.0977998 | 50.7142 * | 0.0601388 | 55.5394 |
| C2 | 14.0746 | 0.0516261 | 14.6488 * | 0.031746 | 16.0223 |
| C3 | 7.76318 | 0.023638 | 11.2076 * | 0.0145353 | 12.2425 |
| iC4 | 0.991456 | 0.00242463 | 2.01505 * | 0.00149091 | 2.1953 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH1 Amine Treating | |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH1 Dry Inlet Gas Composition % | R8 % | To RH1 TEG Dehy % |
|---|---|---|---|---|---|
| nC4 | 2.93945 | 0.0100856 | 4.57392 * | 0.00620174 | 4.9728 |
| iC5 | 0.370848 | 0.000580347 | 1.35297 * | 0.000356855 | 1.46238 |
| nC5 | 0.492906 | 0.0010242 | 1.39948 * | 0.000629784 | 1.50764 |
| Neopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 * | 0 | 0 |
| 2,3-Dimethylbutane | 0.00850906 | 1.44552E-05 | 0.0328455 * | 8.88842E-06 | 0.0349265 |
| Cyclopentane | 0.0267371 | 0.000199747 | 0.026731 * | 0.000122838 | 0.0285965 |
| 2-Methylpentane | 0 | 0 | 0 * | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 * | 0 | 0 |
| Benzene | 0.156129 | 0.039557 | 0.060565 * | 0.0244163 | 0.0597361 |
| Cyclohexane | 0.153038 | 0.0016128 | 0.152504 * | 0.000991806 | 0.158737 |
| Methylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| C6 | 0.260357 | 0.000438729 | 1.07621 * | 0.000269773 | 1.13241 |
| 3-Methylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,4-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| Ethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,4-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 * | 0 | 0 |
| 3-3-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 3-Ethylpentane | 0 | 0 | 0 * | 0 | 0 |
| Cycloheptane | 0 | 0 | 0 * | 0 | 0 |
| Methylcyclohexane | 0.0459516 | 0.000211199 | 0.0966592 * | 0.00012987 | 0.0968077 |
| 2,2-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| n-Heptane | 0.028495 | 2.50996E-05 | 0.263632 * | 1.54335E-05 | 0.264842 |
| Toluene | 0.0850208 | 0.0216276 | 0.0405366 * | 0.0133368 | 0.0383397 |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylpentane | 0.000710875 | 7.67591E-07 | 0.00597091 * | 4.71985E-07 | 0.0058445 |
| 2,3,4-Trimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| 3,3-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 3-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| Cyclooctane | 0 | 0 | 0 * | 0 | 0 |
| Ethylbenzene | 0.0029907 | 0.000618277 | 0.00184981 * | 0.000381061 | 0.00160783 |
| Ethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| m-Xylene | 0.00285226 | 0.000780649 | 0.00184981 * | 0.000481695 | 0.00157321 |
| p-Xylene | 0.00290309 | 0.00079592 | 0.00184981 * | 0.000491118 | 0.00157879 |
| n-Octane | 0.00737305 | 7.82809E-06 | 0.0756316 * | 4.81343E-06 | 0.0688322 |
| o-Xylene | 0.00138842 | 0.000379649 | 0.000924903 * | 0.000234261 | 0.000773753 |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| 2,3,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH1 Amine Treating | |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH1 Dry Inlet Gas Composition % | R8 % | To RH1 TEG Dehy % |
|---|---|---|---|---|---|
| 2,5-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| Isopropylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| n-Nonane | 0.000356695 | 1.68512E-07 | 0.0117322 * | 1.03616E-07 | 0.00865192 |
| Propylbenzene | 0 | 0 | 0 * | 0 | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,2-Diethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 | 0 |
| n-Decane | 8.13597E-05 | 1.14686E-08 | 0.013635 * | 7.05193E-09 | 0.0075944 |
| nC11 | 0 | 0 | 0 * | 0 | 0 |
| nC12 | 0 | 0 | 0 * | 0 | 0 |
| nC13 | 0 | 0 | 0 * | 0 | 0 |
| nC14 | 0 | 0 | 0 * | 0 | 0 |
| nC15 | 0 | 0 | 0 * | 0 | 0 |
| H2O | 2.7537 | 2.6434 | 0 * | 40.0589 | 0.215991 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 0.00265264 | 8.71847E-10 | 0 * | 0.00859688 | 7.51193E-06 |
| Piperazine | 0.000164404 | 9.0123E-10 | 0 * | 0.00439567 | 2.85119E-05 |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH1 Dry Inlet Gas Composition lb/h | R8 lb/h | To RH1 TEG Dehy lb/h |
|---|---|---|---|---|---|
| H2S | 0.00363112 | 1.11374 | 1.12361 * | 1.1174 | 0.00586786 |
| Helium | 0 | 0 | 0 * | 0 | 0 |
| Oxygen | 0 | 0 | 0 * | 0 | 0 |
| Argon | 0 | 0 | 0 * | 0 | 0 |
| N2 | 2.50358 | 0.116993 | 6584.56 * | 0.116996 | 6580.96 |
| CO2 | 64.9123 | 16127.7 | 16323.2 * | 16145.2 | 134.62 |
| C1 | 99.8332 | 16.2447 | 95036 * | 16.2455 | 94885.7 |
| C2 | 33.7115 | 8.57516 | 27451.1 * | 8.57564 | 27373.1 |
| C3 | 18.5944 | 3.92631 | 21002.6 * | 3.92647 | 20915.6 |
| iC4 | 2.37474 | 0.402734 | 3776.11 * | 0.402745 | 3750.53 |
| nC4 | 7.04058 | 1.67523 | 8571.32 * | 1.67529 | 8495.73 |
| iC5 | 0.888255 | 0.0963963 | 2535.4 * | 0.0963983 | 2498.38 |
| nC5 | 1.18061 | 0.170121 | 2622.56 * | 0.170125 | 2575.7 |
| Neopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 * | 0 | 0 |
| 2,3-Dimethylbutane | 0.0203809 | 0.00240102 | 61.551 * | 0.00240105 | 59.6699 |
| Cyclopentane | 0.0640407 | 0.0331782 | 50.0926 * | 0.0331826 | 48.8554 |
| 2-Methylpentane | 0 | 0 | 0 * | 0 | 0 |
| 3-Methylpentane | 0 | 0 | 0 * | 0 | 0 |
| Benzene | 0.37396 | 6.57046 | 113.496 * | 6.59565 | 102.056 |
| Cyclohexane | 0.366558 | 0.267889 | 285.785 * | 0.267919 | 271.193 |
| Methylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| C6 | 0.623607 | 0.0728734 | 2016.76 * | 0.0728744 | 1934.66 |
| 3-Methylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,4-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| Ethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,4-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylhexane | 0 | 0 | 0 * | 0 | 0 |
| 3-3-Dimethylpentane | 0 | 0 | 0 * | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH1 Amine Treating | |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH1 Dry Inlet Gas Composition lb/h | R8 lb/h | To RH1 TEG Dehy lb/h |
|---|---|---|---|---|---|
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 3-Ethylpentane | 0 | 0 | 0 * | 0 | 0 |
| Cycloheptane | 0 | 0 | 0 * | 0 | 0 |
| Methylcyclohexane | 0.110063 | 0.0350804 | 181.135 * | 0.0350822 | 165.39 |
| 2,2-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| n-Heptane | 0.0682513 | 0.00416907 | 494.034 * | 0.0041691 | 452.466 |
| Toluene | 0.203642 | 3.59237 | 75.9637 * | 3.60272 | 65.5011 |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylpentane | 0.00170269 | 0.000127498 | 11.1892 * | 0.000127499 | 9.98498 |
| 2,3,4-Trimethylpentane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| 3,3-Dimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 3-Methylheptane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| Cyclooctane | 0 | 0 | 0 * | 0 | 0 |
| Ethylbenzene | 0.00716333 | 0.102697 | 3.46645 * | 0.102937 | 2.74687 |
| Ethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| m-Xylene | 0.00683174 | 0.129667 | 3.46645 * | 0.130122 | 2.68773 |
| p-Xylene | 0.00695349 | 0.132203 | 3.46645 * | 0.132667 | 2.69726 |
| n-Octane | 0.01766 | 0.00130025 | 141.73 * | 0.00130026 | 117.596 |
| o-Xylene | 0.00332554 | 0.0630602 | 1.73323 * | 0.0632814 | 1.32191 |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 2,2,3-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,2-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| 2,3,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 | 0 |
| 2,5-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 | 0 |
| Isopropylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | 0 * | 0 | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 | 0 |
| n-Nonane | 0.000854358 | 2.799E-05 | 21.9856 * | 2.79901E-05 | 14.7813 |
| Propylbenzene | 0 | 0 | 0 * | 0 | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 | 0 |
| 1,2-Diethylbenzene | 0 | 0 | 0 * | 0 | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 | 0 |
| n-Decane | 0.000194873 | 1.90495E-06 | 25.5514 * | 1.90496E-06 | 12.9746 |
| nC11 | 0 | 0 | 0 * | 0 | 0 |
| nC12 | 0 | 0 | 0 * | 0 | 0 |
| nC13 | 0 | 0 | 0 * | 0 | 0 |
| nC14 | 0 | 0 | 0 * | 0 | 0 |
| nC15 | 0 | 0 | 0 * | 0 | 0 |
| H2O | 6.59566 | 439.072 | 0 * | 10821.2 | 369.007 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH1 Amine Treating | |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH1 Dry Inlet Gas Composition lb/h | R8 lb/h | To RH1 TEG Dehy lb/h |
|---|---|---|---|---|---|
| MDEA | 0.00635361 | 1.44815E-07 | 0 * | 2.3223 | 0.0128337 |
| Piperazine | 0.000393782 | 1.49695E-07 | 0 * | 1.18741 | 0.0487109 |

## Stream Properties

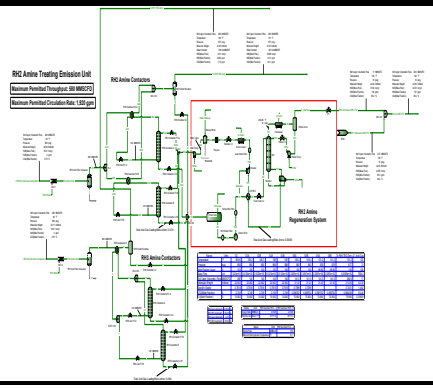
| Property | Units | Flash Gas | G_Acid Gas | RH1 Dry Inlet Gas Composition | R8 | To RH1 TEG Dehy |
|---|---|---|---|---|---|---|
| Temperature | °F | 162.578 | 120.02 | 90 * | 222.231 | 123.351 |
| Pressure | psig | 105 | 13 | 850 * | 14 | 827 |
| Molecular Weight | lb/lbmol | 24.1717 | 42.3266 | 22.7359 | 27.873 | 21.6931 |
| Mass Density | lb/ft^3 | 0.441419 | 0.190083 | 4.13904 | 0.110428 | 3.42631 |
| Mass Flow | lb/h | 239.52 | 16610.1 | 187395 | 27013.3 | 170844 |
| Std Vapor Volumetric Flow | MMSCFD | 0.0902483 | 3.57408 | 75.0673 | 8.82669 | 71.7271 |
| Std Liquid Volumetric Flow | sgpm | 1.15027 | 40.5398 | 995.834 | 61.345 | 953.921 |
| Specific Gravity | | 0.834588 | 1.46143 | | 0.962384 | 0.749006 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1018.27 | 9.33228 | 1209.14 | 33.8244 | 1260.29 |

**Remarks**


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# RH2 Amine Treating
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |






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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

## Connections

| | Flash Gas | G_Acid Gas | RH2 Dry Inlet Gas Composition | RH3 Dry Inlet Gas Composition | R8 |
|---|---|---|---|---|---|
| From Block | Flash Tank | Reflux Drum | -- | -- | Still |
| To Block | -- | PV | SAT-1 | SAT-2 | Condenser |

## Stream Composition

| Mole Fraction | Flash Gas % | G_Acid Gas % | RH2 Dry Inlet Gas Composition % | RH3 Dry Inlet Gas Composition % | R8 % |
|---|---|---|---|---|---|
| H2S | 0.00146324 | 0.0135805 | 0.0004 * | 0.0004 * | 0.00881439 |
| Helium | 0 | 0 | 0 * | 0 * | 0 |
| Oxygen | 0 | 0 | 0 * | 0 * | 0 |
| Argon | 0 | 0 | 0 * | 0 * | 0 |
| N2 | 0.822304 | 0.000792989 | 2.52478 * | 2.10142 * | 0.000513812 |
| CO2 | 9.62663 | 93.4444 | 2.75 * | 2.75 * | 60.5886 |
| C1 | 68.6002 | 0.218487 | 74.1055 * | 74.2975 * | 0.141569 |
| C2 | 12.133 | 0.0625698 | 11.2098 * | 11.3217 * | 0.0405421 |
| C3 | 4.26627 | 0.0181083 | 5.77771 * | 5.73429 * | 0.0117332 |
| iC4 | 0.378925 | 0.00124104 | 0.763277 * | 0.776714 * | 0.000804125 |
| nC4 | 1.1641 | 0.00564405 | 1.70882 * | 1.74897 * | 0.00365705 |
| iC5 | 0.124307 | 0.000316665 | 0.383304 * | 0.415182 * | 0.000205181 |
| nC5 | 0.157211 | 0.000509747 | 0.38946 * | 0.419619 * | 0.000330288 |
| Neopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3-Dimethylbutane | 0.00220139 | 5.69766E-06 | 0.00711503 * | 0.00877358 * | 3.69175E-06 |
| Cyclopentane | 0.00931973 | 0.000114972 | 0.00711503 * | 0.00877358 * | 7.44983E-05 |
| 2-Methylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Methylpentane | 0 | 0 | 0 * | 0 * | 0 |
| Benzene | 0.0496658 | 0.0209519 | 0.0160467 * | 0.0168412 * | 0.0135948 |
| Cyclohexane | 0.0395045 | 0.000629196 | 0.033809 * | 0.0375146 * | 0.000407697 |
| Methylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| C6 | 0.0642797 | 0.000165112 | 0.23303 * | 0.264821 * | 0.000106983 |
| 3-Methylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| Ethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 3-3-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Ethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| Cycloheptane | 0 | 0 | 0 * | 0 * | 0 |
| Methylcyclohexane | 0.0100353 | 7.30243E-05 | 0.0177624 * | 0.0192615 * | 4.73161E-05 |
| 2,2-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| n-Heptane | 0.00605532 | 8.57179E-06 | 0.046828 * | 0.0524398 * | 5.554E-06 |
| Toluene | 0.0222478 | 0.00974358 | 0.00857841 * | 0.00917696 * | 0.00631997 |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,3-Trimethylpentane | 0.000129895 | 2.12486E-07 | 0.000908302 * | 0.0011093 * | 1.37678E-07 |
| 2,3,4-Trimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 4-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 3,3-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

## Stream Composition

| Mole Fraction | Flash Gas % | G_Acid Gas % | RH2 Dry Inlet Gas Composition % | RH3 Dry Inlet Gas Composition % | R8 % |
|---|---|---|---|---|---|
| Cyclooctane | 0 | 0 | 0 * | 0 * | 0 |
| Ethylbenzene | 0.000631609 | 0.000248954 | 0.000302767 * | 0.000302537 * | 0.000161446 |
| Ethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| m-Xylene | 0.000805752 | 0.000446455 | 0.00040369 * | 0.000403383 * | 0.000289651 |
| p-Xylene | 0.000817216 | 0.000453461 | 0.00040369 * | 0.000403383 * | 0.000294197 |
| n-Octane | 0.00133032 | 2.14225E-06 | 0.0118079 * | 0.0122023 * | 1.38805E-06 |
| o-Xylene | 0.000295682 | 0.000163625 | 0.000100922 * | 0.000201692 * | 0.000106157 |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,3-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,5-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 * | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| Isopropylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 * | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 * | 0 |
| n-Nonane | 7.01633E-05 | 5.18859E-08 | 0.00151384 * | 0.00181522 * | 3.36189E-08 |
| Propylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,2-Diethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 * | 0 |
| n-Decane | 9.68644E-06 | 2.53742E-09 | 0.00131199 * | 0.000201692 * | 1.64409E-09 |
| nC11 | 0 | 0 | 0 * | 0 * | 0 |
| nC12 | 0 | 0 | 0 * | 0 * | 0 |
| nC13 | 0 | 0 | 0 * | 0 * | 0 |
| nC14 | 0 | 0 | 0 * | 0 * | 0 |
| nC15 | 0 | 0 | 0 * | 0 * | 0 |
| H2O | 2.51795 | 6.20132 | 0 * | 0 * | 39.1616 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 * | 0 |
| MDEA | 0.000228973 | 2.512E-08 | 0 * | 0 * | 0.0140472 |
| Piperazine | 1.62454E-05 | 2.43897E-08 | 0 * | 0 * | 0.00623879 |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH2 Dry Inlet Gas Composition % | RH3 Dry Inlet Gas Composition % | R8 % |
|---|---|---|---|---|---|
| H2S | 0.00219368 | 0.0109312 | 0.000617867 * | 0.000616649 * | 0.00888607 |
| Helium | 0 | 0 | 0 * | 0 * | 0 |
| Oxygen | 0 | 0 | 0 * | 0 * | 0 |
| Argon | 0 | 0 | 0 * | 0 * | 0 |
| N2 | 1.01332 | 0.000524659 | 3.20563 * | 2.66285 * | 0.000425771 |
| CO2 | 18.6367 | 97.1279 | 5.48533 * | 5.47452 * | 78.8757 |
| C1 | 48.411 | 0.0827829 | 53.8822 * | 53.9153 * | 0.0671806 |
| C2 | 16.0485 | 0.0444353 | 15.2771 * | 15.3991 * | 0.0360606 |
| C3 | 8.27544 | 0.018859 | 11.5472 * | 11.4378 * | 0.0153045 |
| iC4 | 0.968819 | 0.00170362 | 2.0107 * | 2.04207 * | 0.00138252 |
| nC4 | 2.97633 | 0.00774778 | 4.50155 * | 4.59823 * | 0.00628751 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH2 Dry Inlet Gas Composition % | RH3 Dry Inlet Gas Composition % | R8 % |
|---|---|---|---|---|---|
| iC5 | 0.394523 | 0.000539602 | 1.25342 * | 1.35498 * | 0.000437897 |
| nC5 | 0.498951 | 0.000868617 | 1.27355 * | 1.36947 * | 0.0007049 |
| Neopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3-Dimethylbutane | 0.00834503 | 1.15964E-05 | 0.0277897 * | 0.0342001 * | 9.41068E-06 |
| Cyclopentane | 0.0287523 | 0.00019044 | 0.0226164 * | 0.0278334 * | 0.000154552 |
| 2-Methylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Methylpentane | 0 | 0 | 0 * | 0 * | 0 |
| Benzene | 0.170656 | 0.0386531 | 0.0568101 * | 0.0595056 * | 0.031412 |
| Cyclohexane | 0.14625 | 0.00125064 | 0.128961 * | 0.142814 * | 0.00101496 |
| Methylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| C6 | 0.243671 | 0.000336052 | 0.910162 * | 1.03229 * | 0.000272711 |
| 3-Methylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| Ethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 3-3-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Ethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| Cycloheptane | 0 | 0 | 0 * | 0 * | 0 |
| Methylcyclohexane | 0.043344 | 0.000169341 | 0.079045 * | 0.0855476 * | 0.000137425 |
| 2,2-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| n-Heptane | 0.0266908 | 2.02858E-05 | 0.21267 * | 0.237686 * | 1.64622E-05 |
| Toluene | 0.0901729 | 0.0212033 | 0.0358238 * | 0.0382478 * | 0.0172251 |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,3-Trimethylpentane | 0.000652699 | 5.73257E-07 | 0.0047025 * | 0.00573181 * | 4.65207E-07 |
| 2,3,4-Trimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 4-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 3,3-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| Cyclooctane | 0 | 0 | 0 * | 0 * | 0 |
| Ethylbenzene | 0.0029497 | 0.000624229 | 0.00145685 * | 0.00145287 * | 0.00050701 |
| Ethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| m-Xylene | 0.00376296 | 0.00111945 | 0.00194247 * | 0.00193716 * | 0.000909626 |
| p-Xylene | 0.0038165 | 0.00113701 | 0.00194247 * | 0.00193716 * | 0.000923901 |
| n-Octane | 0.00668464 | 5.77949E-06 | 0.0611325 * | 0.0630499 * | 4.69014E-06 |
| o-Xylene | 0.00138087 | 0.000410276 | 0.000485616 * | 0.000968581 * | 0.000333377 |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,3-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,5-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

| Mass Fraction | Flash Gas % | G_Acid Gas % | RH2 Dry Inlet Gas Composition % | RH3 Dry Inlet Gas Composition % | R8 % |
|---|---|---|---|---|---|
| 2-Methyloctane | 0 | 0 | 0 * | 0 * | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| Isopropylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 * | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 * | 0 |
| n-Nonane | 0.000395851 | 1.5717E-07 | 0.0087999 * | 0.0105311 * | 1.27545E-07 |
| Propylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,2-Diethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 * | 0 |
| n-Decane | 6.06262E-05 | 8.5268E-09 | 0.00846066 * | 0.00129809 * | 6.9196E-09 |
| nC11 | 0 | 0 | 0 * | 0 * | 0 |
| nC12 | 0 | 0 | 0 * | 0 * | 0 |
| nC13 | 0 | 0 | 0 * | 0 * | 0 |
| nC14 | 0 | 0 | 0 * | 0 * | 0 |
| nC15 | 0 | 0 | 0 * | 0 * | 0 |
| H2O | 1.99542 | 2.63857 | 0 * | 0 * | 20.8693 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 * | 0 |
| MDEA | 0.00120025 | 7.06972E-08 | 0 * | 0 * | 0.0495149 |
| Piperazine | 6.15548E-05 | 4.96173E-08 | 0 * | 0 * | 0.0158961 |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH2 Dry Inlet Gas Composition lb/h | RH3 Dry Inlet Gas Composition lb/h | R8 lb/h |
|---|---|---|---|---|---|
| H2S | 0.0220418 | 8.64033 | 4.33937 * | 4.33937 * | 8.65516 |
| Helium | 0 | 0 | 0 * | 0 * | 0 |
| Oxygen | 0 | 0 | 0 * | 0 * | 0 |
| Argon | 0 | 0 | 0 * | 0 * | 0 |
| N2 | 10.1817 | 0.414704 | 22513.6 * | 18738.5 * | 0.414708 |
| CO2 | 187.259 | 76772.3 | 38524.3 * | 38524.3 * | 76826.1 |
| C1 | 486.428 | 65.4337 | 378423 * | 379403 * | 65.4349 |
| C2 | 161.254 | 35.1228 | 107293 * | 108364 * | 35.1235 |
| C3 | 83.1507 | 14.9066 | 81097.5 * | 80488 * | 14.9068 |
| iC4 | 9.73459 | 1.34658 | 14121.5 * | 14370.1 * | 1.3466 |
| nC4 | 29.9059 | 6.12404 | 31615.1 * | 32357.9 * | 6.12413 |
| iC5 | 3.96412 | 0.426515 | 8802.94 * | 9535.06 * | 0.426518 |
| nC5 | 5.0134 | 0.686577 | 8944.33 * | 9636.97 * | 0.686583 |
| Neopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylbutane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3-Dimethylbutane | 0.0838499 | 0.00916609 | 195.171 * | 240.667 * | 0.00916614 |
| Cyclopentane | 0.2889 | 0.150528 | 158.838 * | 195.864 * | 0.150536 |
| 2-Methylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Methylpentane | 0 | 0 | 0 * | 0 * | 0 |
| Benzene | 1.71473 | 30.5524 | 398.986 * | 418.742 * | 30.5958 |
| Cyclohexane | 1.46951 | 0.988539 | 905.715 * | 1004.99 * | 0.988581 |
| Methylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| C6 | 2.44838 | 0.265624 | 6392.21 * | 7264.26 * | 0.265625 |
| 3-Methylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| Ethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 3-3-Dimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH2 Dry Inlet Gas Composition lb/h | RH3 Dry Inlet Gas Composition lb/h | R8 lb/h |
|---|---|---|---|---|---|
| 3-Ethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| Cycloheptane | 0 | 0 | 0 * | 0 * | 0 |
| Methylcyclohexane | 0.435516 | 0.133851 | 555.145 * | 602 * | 0.133854 |
| 2,2-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| n-Heptane | 0.268186 | 0.0160344 | 1493.61 * | 1672.6 * | 0.0160344 |
| Toluene | 0.906048 | 16.7596 | 251.596 * | 269.151 * | 16.7775 |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,3-Trimethylpentane | 0.00655825 | 0.000453117 | 33.0264 * | 40.3349 * | 0.000453118 |
| 2,3,4-Trimethylpentane | 0 | 0 | 0 * | 0 * | 0 |
| 2,5-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 4-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 3,3-Dimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 3-Methylheptane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| Cyclooctane | 0 | 0 | 0 * | 0 * | 0 |
| Ethylbenzene | 0.0296382 | 0.493406 | 10.2317 * | 10.2239 * | 0.493835 |
| Ethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| m-Xylene | 0.0378098 | 0.884838 | 13.6422 * | 13.6319 * | 0.885989 |
| p-Xylene | 0.0383478 | 0.898724 | 13.6422 * | 13.6319 * | 0.899893 |
| n-Octane | 0.0671665 | 0.00456825 | 429.343 * | 443.684 * | 0.00456827 |
| o-Xylene | 0.0138749 | 0.324292 | 3.41056 * | 6.81593 * | 0.324714 |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| tert-Butylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,3-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,2-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 2,3,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 * | 0 * | 0 |
| 2,5-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| 2-Methyloctane | 0 | 0 | 0 * | 0 * | 0 |
| 3,4-Dimethylheptane | 0 | 0 | 0 * | 0 * | 0 |
| Isopropylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | 0 * | 0 * | 0 |
| m-Ethyltoluene | 0 | 0 | 0 * | 0 * | 0 |
| p-Ethyltoluene | 0 | 0 | 0 * | 0 * | 0 |
| n-Nonane | 0.00397747 | 0.000124231 | 61.803 * | 74.1073 * | 0.000124231 |
| Propylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| Propylcyclohexane | 0 | 0 | 0 * | 0 * | 0 |
| 1,2-Diethylbenzene | 0 | 0 | 0 * | 0 * | 0 |
| 4-Methylnonane | 0 | 0 | 0 * | 0 * | 0 |
| n-Decane | 0.000609166 | 6.73979E-06 | 59.4205 * | 9.13466 * | 6.7398E-06 |
| nC11 | 0 | 0 | 0 * | 0 * | 0 |
| nC12 | 0 | 0 | 0 * | 0 * | 0 |
| nC13 | 0 | 0 | 0 * | 0 * | 0 |
| nC14 | 0 | 0 | 0 * | 0 * | 0 |
| nC15 | 0 | 0 | 0 * | 0 * | 0 |
| H2O | 20.0498 | 2085.59 | 0 * | 0 * | 20327 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 * | 0 |
| MDEA | 0.01206 | 5.58808E-05 | 0 * | 0 * | 48.2282 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

| Mass Flow | Flash Gas lb/h | G_Acid Gas lb/h | RH2 Dry Inlet Gas Composition lb/h | RH3 Dry Inlet Gas Composition lb/h | R8 lb/h |
|---|---|---|---|---|---|
| Piperazine | 0.000618496 | 3.92187E-05 | 0 * | 0 * | 15.483 |

## Stream Properties

| Property | Units | Flash Gas | G_Acid Gas | RH2 Dry Inlet Gas Composition | RH3 Dry Inlet Gas Composition | R8 |
|---|---|---|---|---|---|---|
| Temperature | °F | 139.818 | 120 | 90 * | 90 * | 204.886 |
| Pressure | psig | 85 | 13 | 900 * | 900 * | 14 |
| Molecular Weight | lb/lbmol | 22.7328 | 42.3405 | 22.0636 | 22.1072 | 33.806 |
| Mass Density | lb/ft^3 | 0.358307 | 0.190152 | 4.27223 | 4.29726 | 0.13716 |
| Mass Flow | lb/h | 1004.79 | 79042.5 | 702315 | 703702 | 97401.5 |
| Std Vapor Volumetric Flow | MMSCFD | 0.402557 | 17.0024 | 289.908 | 289.908 | 26.2408 |
| Std Liquid Volumetric Flow | sgpm | 5.18483 | 192.842 | 3840.89 | 3853.45 | 229.575 |
| Specific Gravity | | 0.784904 | 1.46191 | 0.761798 | 0.763303 | 1.16723 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1087.01 | 8.56662 | 1222.49 | 1231.79 | 23.9954 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

## Connections

| | To RH2 TEG Dehy | To RH3 TEG Dehy | | | |
|---|---|---|---|---|---|
| From Block | RH2 Outlet Scrubber | RH3 Outlet Scrubber | | | |
| To Block | -- | -- | | | |

## Stream Composition

| Mole Fraction | To RH2 TEG Dehy % | To RH3 TEG Dehy % | | | |
|---|---|---|---|---|---|
| H2S | 1.2491E-06 | 2.20061E-07 | | | |
| Helium | 0 | 0 | | | |
| Oxygen | 0 | 0 | | | |
| Argon | 0 | 0 | | | |
| N2 | 2.58934 | 2.15563 | | | |
| CO2 | 0.00640857 | 0.000115103 | | | |
| C1 | 75.9646 | 76.1778 | | | |
| C2 | 11.4889 | 11.6061 | | | |
| C3 | 5.92338 | 5.88014 | | | |
| iC4 | 0.782691 | 0.796642 | | | |
| nC4 | 1.75198 | 1.79353 | | | |
| iC5 | 0.393111 | 0.425899 | | | |
| nC5 | 0.399398 | 0.430421 | | | |
| Neopentane | 0 | 0 | | | |
| 2,2-Dimethylbutane | 0 | 0 | | | |
| 2,3-Dimethylbutane | 0.00729728 | 0.00900027 | | | |
| Cyclopentane | 0.00728972 | 0.00899112 | | | |
| 2-Methylpentane | 0 | 0 | | | |
| 3-Methylpentane | 0 | 0 | | | |
| Benzene | 0.0158057 | 0.0166042 | | | |
| Cyclohexane | 0.0346376 | 0.0384428 | | | |
| Methylcyclopentane | 0 | 0 | | | |
| C6 | 0.239002 | 0.271667 | | | |
| 3-Methylhexane | 0 | 0 | | | |
| 2,2-Dimethylpentane | 0 | 0 | | | |
| 2,3-Dimethylpentane | 0 | 0 | | | |
| 2,4-Dimethylhexane | 0 | 0 | | | |
| Ethylcyclopentane | 0 | 0 | | | |
| 2,4-Dimethylpentane | 0 | 0 | | | |
| 2-Methylhexane | 0 | 0 | | | |
| 3-3-Dimethylpentane | 0 | 0 | | | |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | | | |
| 3-Ethylpentane | 0 | 0 | | | |
| Cycloheptane | 0 | 0 | | | |
| Methylcyclohexane | 0.0182122 | 0.0197538 | | | |
| 2,2-Dimethylhexane | 0 | 0 | | | |
| n-Heptane | 0.0480335 | 0.0538014 | | | |
| Toluene | 0.00849793 | 0.00910022 | | | |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | | | |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | | | |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | | | |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | | | |
| 2,2,3-Trimethylpentane | 0.000931679 | 0.0011381 | | | |
| 2,3,4-Trimethylpentane | 0 | 0 | | | |
| 2,5-Dimethylhexane | 0 | 0 | | | |
| 2-Methylheptane | 0 | 0 | | | |
| 4-Methylheptane | 0 | 0 | | | |
| 3,3-Dimethylhexane | 0 | 0 | | | |
| 3-Methylheptane | 0 | 0 | | | |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | | | |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

## Stream Composition

| Mole Fraction | To RH2 TEG Dehy % | To RH3 TEG Dehy % | | | |
|---|---|---|---|---|---|
| Cyclooctane | 0 | 0 | | | |
| Ethylbenzene | 0.00030252 | 0.00030261 | | | |
| Ethylcyclohexane | 0 | 0 | | | |
| m-Xylene | 0.000399842 | 0.00040016 | | | |
| p-Xylene | 0.00039962 | 0.000399944 | | | |
| n-Octane | 0.012112 | 0.0125193 | | | |
| o-Xylene | 0.000100019 | 0.000200191 | | | |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | | | |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | | | |
| 1,2,3-Trimethylbenzene | 0 | 0 | | | |
| 1,2,4-Trimethylbenzene | 0 | 0 | | | |
| tert-Butylbenzene | 0 | 0 | | | |
| 1,3,5-Trimethylbenzene | 0 | 0 | | | |
| 2,2,3-Trimethylhexane | 0 | 0 | | | |
| 2,2,4-Trimethylhexane | 0 | 0 | | | |
| 2,2-Dimethylheptane | 0 | 0 | | | |
| 2,3,4-Trimethylhexane | 0 | 0 | | | |
| 2,4,4-Trimethylhexane | 0 | 0 | | | |
| 2,5-Dimethylheptane | 0 | 0 | | | |
| 2-Methyloctane | 0 | 0 | | | |
| 3,4-Dimethylheptane | 0 | 0 | | | |
| Isopropylbenzene | 0 | 0 | | | |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | | | |
| m-Ethyltoluene | 0 | 0 | | | |
| p-Ethyltoluene | 0 | 0 | | | |
| n-Nonane | 0.0015529 | 0.00186246 | | | |
| Propylbenzene | 0 | 0 | | | |
| Propylcyclohexane | 0 | 0 | | | |
| 1,2-Diethylbenzene | 0 | 0 | | | |
| 4-Methylnonane | 0 | 0 | | | |
| n-Decane | 0.00134588 | 0.000206945 | | | |
| nC11 | 0 | 0 | | | |
| nC12 | 0 | 0 | | | |
| nC13 | 0 | 0 | | | |
| nC14 | 0 | 0 | | | |
| nC15 | 0 | 0 | | | |
| H2O | 0.30425 | 0.289232 | | | |
| CHEMTHERM 550 | 0 | 0 | | | |
| UCARSOL™ AP-814 | 0 | 0 | | | |
| MDEA | 2.93214E-06 | 2.64147E-06 | | | |
| Piperazine | 3.66309E-05 | 7.68449E-05 | | | |

| Mass Fraction | To RH2 TEG Dehy % | To RH3 TEG Dehy % | | | |
|---|---|---|---|---|---|
| H2S | 1.98612E-06 | 3.49192E-07 | | | |
| Helium | 0 | 0 | | | |
| Oxygen | 0 | 0 | | | |
| Argon | 0 | 0 | | | |
| N2 | 3.38417 | 2.81158 | | | |
| CO2 | 0.0131585 | 0.000235855 | | | |
| C1 | 56.8565 | 56.8998 | | | |
| C2 | 16.1174 | 16.2486 | | | |
| C3 | 12.186 | 12.0724 | | | |
| iC4 | 2.12242 | 2.15584 | | | |
| nC4 | 4.75082 | 4.85357 | | | |
| iC5 | 1.32325 | 1.43069 | | | |
| nC5 | 1.34441 | 1.44589 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

| Mass Fraction | To RH2 TEG Dehy % | To RH3 TEG Dehy % | | | |
|---|---|---|---|---|---|
| Neopentane | 0 | 0 | | | |
| 2,2-Dimethylbutane | 0 | 0 | | | |
| 2,3-Dimethylbutane | 0.0293388 | 0.0361119 | | | |
| Cyclopentane | 0.0238523 | 0.0293594 | | | |
| 2-Methylpentane | 0 | 0 | | | |
| 3-Methylpentane | 0 | 0 | | | |
| Benzene | 0.0576007 | 0.0603874 | | | |
| Cyclohexane | 0.136003 | 0.150636 | | | |
| Methylcyclopentane | 0 | 0 | | | |
| C6 | 0.960912 | 1.09001 | | | |
| 3-Methylhexane | 0 | 0 | | | |
| 2,2-Dimethylpentane | 0 | 0 | | | |
| 2,3-Dimethylpentane | 0 | 0 | | | |
| 2,4-Dimethylhexane | 0 | 0 | | | |
| Ethylcyclopentane | 0 | 0 | | | |
| 2,4-Dimethylpentane | 0 | 0 | | | |
| 2-Methylhexane | 0 | 0 | | | |
| 3-3-Dimethylpentane | 0 | 0 | | | |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | | | |
| 3-Ethylpentane | 0 | 0 | | | |
| Cycloheptane | 0 | 0 | | | |
| Methylcyclohexane | 0.0834277 | 0.0903048 | | | |
| 2,2-Dimethylhexane | 0 | 0 | | | |
| n-Heptane | 0.224553 | 0.251004 | | | |
| Toluene | 0.0365302 | 0.0390395 | | | |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | | | |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | | | |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | | | |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | | | |
| 2,2,3-Trimethylpentane | 0.00496522 | 0.00605293 | | | |
| 2,3,4-Trimethylpentane | 0 | 0 | | | |
| 2,5-Dimethylhexane | 0 | 0 | | | |
| 2-Methylheptane | 0 | 0 | | | |
| 4-Methylheptane | 0 | 0 | | | |
| 3,3-Dimethylhexane | 0 | 0 | | | |
| 3-Methylheptane | 0 | 0 | | | |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | | | |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | | | |
| Cyclooctane | 0 | 0 | | | |
| Ethylbenzene | 0.00149842 | 0.00149581 | | | |
| Ethylcyclohexane | 0 | 0 | | | |
| m-Xylene | 0.00198047 | 0.001978 | | | |
| p-Xylene | 0.00197937 | 0.00197693 | | | |
| n-Octane | 0.0645488 | 0.0665831 | | | |
| o-Xylene | 0.000495408 | 0.000989546 | | | |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | | | |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | | | |
| 1,2,3-Trimethylbenzene | 0 | 0 | | | |
| 1,2,4-Trimethylbenzene | 0 | 0 | | | |
| tert-Butylbenzene | 0 | 0 | | | |
| 1,3,5-Trimethylbenzene | 0 | 0 | | | |
| 2,2,3-Trimethylhexane | 0 | 0 | | | |
| 2,2,4-Trimethylhexane | 0 | 0 | | | |
| 2,2-Dimethylheptane | 0 | 0 | | | |
| 2,3,4-Trimethylhexane | 0 | 0 | | | |
| 2,4,4-Trimethylhexane | 0 | 0 | | | |
| 2,5-Dimethylheptane | 0 | 0 | | | |
| 2-Methyloctane | 0 | 0 | | | |
| 3,4-Dimethylheptane | 0 | 0 | | | |
| Isopropylbenzene | 0 | 0 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

| Mass Fraction | To RH2 TEG Dehy % | To RH3 TEG Dehy % | | | |
|---|---|---|---|---|---|
| 1,1,3-Trimethylcyclopentane | 0 | 0 | | | |
| m-Ethyltoluene | 0 | 0 | | | |
| p-Ethyltoluene | 0 | 0 | | | |
| n-Nonane | 0.00929215 | 0.0111218 | | | |
| Propylbenzene | 0 | 0 | | | |
| Propylcyclohexane | 0 | 0 | | | |
| 1,2-Diethylbenzene | 0 | 0 | | | |
| 4-Methylnonane | 0 | 0 | | | |
| n-Decane | 0.00893412 | 0.00137093 | | | |
| nC11 | 0 | 0 | | | |
| nC12 | 0 | 0 | | | |
| nC13 | 0 | 0 | | | |
| nC14 | 0 | 0 | | | |
| nC15 | 0 | 0 | | | |
| H2O | 0.255723 | 0.242604 | | | |
| CHEMTHERM 550 | 0 | 0 | | | |
| UCARSOL™ AP-814 | 0 | 0 | | | |
| MDEA | 1.63012E-05 | 1.46553E-05 | | | |
| Piperazine | 0.000147207 | 0.000308183 | | | |

| Mass Flow | To RH2 TEG Dehy lb/h | To RH3 TEG Dehy lb/h | | | |
|---|---|---|---|---|---|
| H2S | 0.0132095 | 0.00232669 | | | |
| Helium | 0 | 0 | | | |
| Oxygen | 0 | 0 | | | |
| Argon | 0 | 0 | | | |
| N2 | 22507.8 | 18733.7 | | | |
| CO2 | 87.5158 | 1.57152 | | | |
| C1 | 378147 | 379127 | | | |
| C2 | 107195 | 108266 | | | |
| C3 | 81048.2 | 80439.2 | | | |
| iC4 | 14116 | 14364.5 | | | |
| nC4 | 31597.2 | 32339.7 | | | |
| iC5 | 8800.82 | 9532.8 | | | |
| nC5 | 8941.57 | 9634.03 | | | |
| Neopentane | 0 | 0 | | | |
| 2,2-Dimethylbutane | 0 | 0 | | | |
| 2,3-Dimethylbutane | 195.129 | 240.616 | | | |
| Cyclopentane | 158.639 | 195.623 | | | |
| 2-Methylpentane | 0 | 0 | | | |
| 3-Methylpentane | 0 | 0 | | | |
| Benzene | 383.097 | 402.365 | | | |
| Cyclohexane | 904.544 | 1003.7 | | | |
| Methylcyclopentane | 0 | 0 | | | |
| C6 | 6390.93 | 7262.83 | | | |
| 3-Methylhexane | 0 | 0 | | | |
| 2,2-Dimethylpentane | 0 | 0 | | | |
| 2,3-Dimethylpentane | 0 | 0 | | | |
| 2,4-Dimethylhexane | 0 | 0 | | | |
| Ethylcyclopentane | 0 | 0 | | | |
| 2,4-Dimethylpentane | 0 | 0 | | | |
| 2-Methylhexane | 0 | 0 | | | |
| 3-3-Dimethylpentane | 0 | 0 | | | |
| 1,cis-3-Dimethylcyclopentane | 0 | 0 | | | |
| 3-Ethylpentane | 0 | 0 | | | |
| Cycloheptane | 0 | 0 | | | |
| Methylcyclohexane | 554.87 | 601.706 | | | |
| 2,2-Dimethylhexane | 0 | 0 | | | |
| n-Heptane | 1493.48 | 1672.45 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

| Mass Flow | To RH2 TEG Dehy lb/h | To RH3 TEG Dehy lb/h | | | |
|---|---|---|---|---|---|
| Toluene | 242.959 | 260.122 | | | |
| trans-1,2-Dimethylcyclopentane | 0 | 0 | | | |
| cis-1,2-Dimethylcyclopentane | 0 | 0 | | | |
| trans-1,3-Dimethylcyclopentane | 0 | 0 | | | |
| 1-Ethyl-1-Methylcyclopentane | 0 | 0 | | | |
| 2,2,3-Trimethylpentane | 33.0232 | 40.3311 | | | |
| 2,3,4-Trimethylpentane | 0 | 0 | | | |
| 2,5-Dimethylhexane | 0 | 0 | | | |
| 2-Methylheptane | 0 | 0 | | | |
| 4-Methylheptane | 0 | 0 | | | |
| 3,3-Dimethylhexane | 0 | 0 | | | |
| 3-Methylheptane | 0 | 0 | | | |
| cis-1,2-Dimethylcyclohexane | 0 | 0 | | | |
| cis-1,3-Dimethylcyclohexane | 0 | 0 | | | |
| Cyclooctane | 0 | 0 | | | |
| Ethylbenzene | 9.96584 | 9.96667 | | | |
| Ethylcyclohexane | 0 | 0 | | | |
| m-Xylene | 13.1719 | 13.1795 | | | |
| p-Xylene | 13.1646 | 13.1724 | | | |
| n-Octane | 429.307 | 443.647 | | | |
| o-Xylene | 3.29491 | 6.59341 | | | |
| trans-1,3-Dimethylcyclohexane | 0 | 0 | | | |
| 1,1,2-Trimethylcyclohexane | 0 | 0 | | | |
| 1,2,3-Trimethylbenzene | 0 | 0 | | | |
| 1,2,4-Trimethylbenzene | 0 | 0 | | | |
| tert-Butylbenzene | 0 | 0 | | | |
| 1,3,5-Trimethylbenzene | 0 | 0 | | | |
| 2,2,3-Trimethylhexane | 0 | 0 | | | |
| 2,2,4-Trimethylhexane | 0 | 0 | | | |
| 2,2-Dimethylheptane | 0 | 0 | | | |
| 2,3,4-Trimethylhexane | 0 | 0 | | | |
| 2,4,4-Trimethylhexane | 0 | 0 | | | |
| 2,5-Dimethylheptane | 0 | 0 | | | |
| 2-Methyloctane | 0 | 0 | | | |
| 3,4-Dimethylheptane | 0 | 0 | | | |
| Isopropylbenzene | 0 | 0 | | | |
| 1,1,3-Trimethylcyclopentane | 0 | 0 | | | |
| m-Ethyltoluene | 0 | 0 | | | |
| p-Ethyltoluene | 0 | 0 | | | |
| n-Nonane | 61.8012 | 74.105 | | | |
| Propylbenzene | 0 | 0 | | | |
| Propylcyclohexane | 0 | 0 | | | |
| 1,2-Diethylbenzene | 0 | 0 | | | |
| 4-Methylnonane | 0 | 0 | | | |
| n-Decane | 59.42 | 9.13459 | | | |
| nC11 | 0 | 0 | | | |
| nC12 | 0 | 0 | | | |
| nC13 | 0 | 0 | | | |
| nC14 | 0 | 0 | | | |
| nC15 | 0 | 0 | | | |
| H2O | 1700.79 | 1616.49 | | | |
| CHEMTHERM 550 | 0 | 0 | | | |
| UCARSOL™ AP-814 | 0 | 0 | | | |
| MDEA | 0.108418 | 0.0976492 | | | |
| Piperazine | 0.979058 | 2.05344 | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Red Hills South Amine Treating |
| Location: | Red Hills South | |
| Flowsheet: | RH2 Amine Treating | |

## Stream Properties

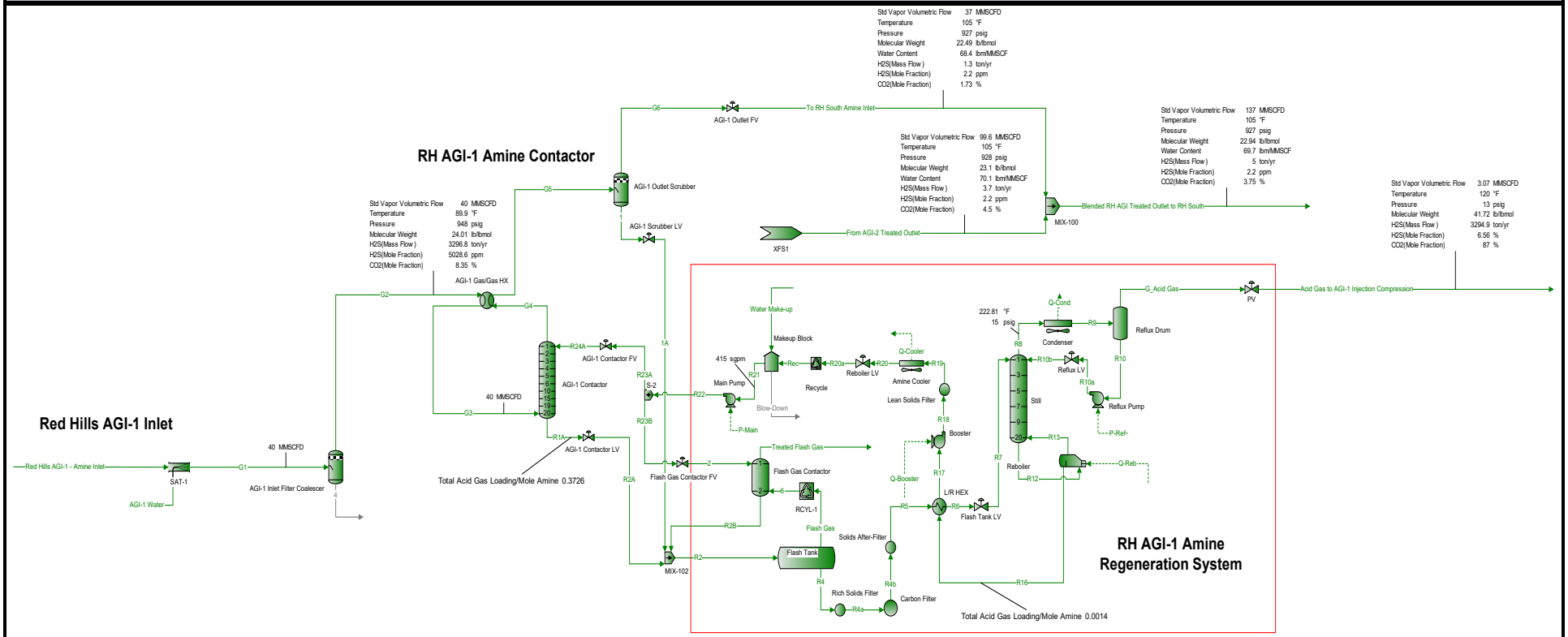
| Property | Units | To RH2 TEG Dehy | To RH3 TEG Dehy | | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 131.158 | 129.21 | | | |
| Pressure | psig | 877 | 877 | | | |
| Molecular Weight | lb/lbmol | 21.4339 | 21.4778 | | | |
| Mass Density | lb/ft^3 | 3.52504 | 3.56182 | | | |
| Mass Flow | lb/h | 665090 | 666306 | | | |
| Std Vapor Volumetric Flow | MMSCFD | 282.607 | 282.546 | | | |
| Std Liquid Volumetric Flow | sgpm | 3747.5 | 3759.67 | | | |
| Specific Gravity | | 0.740058 | 0.741571 | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1253.29 | 1263.09 | | | |

**Remarks**


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# RH AGI-1 Amine Treating
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | KM | Job: |
| Location: | | |
| Flowsheet: | RH AGI-1 Amine Treating | |




| Names | Units | G1 | G2 | G6 | G3 | G4 | G5 | To RH South Amine Inlet | G_Acid Gas |
|---|---|---|---|---|---|---|---|---|---|
| Temperature | °F | 90 | 89.85 | 105.2 | 108* | 125.2 | 105.3 | 104.9 | 120 |
| Pressure | psig | 950 | 948 | 932 | 943 | 938 | 933 | 927 | 14 |
| Mole Fraction Vapor | % | 100 | 100 | 100 | 100 | 100 | 99.93 | 100 | 100 |
| Mass Flow | lb/h | 1.0543e+05 | 1.0543e+05 | 91483 | 1.0543e+05 | 91537 | 91537 | 91483 | 14041 |
| Std Vapor Volumetric Flow | MMSCFD | 40 | 40* | 37.04 | 40 | 37.07 | 37.07 | 37.04 | 3.065 |
| Molecular Weight | lb/lbmol | 24.006 | 24.006 | 22.495 | 24.006 | 22.492 | 22.492 | 22.495 | 41.72 |
| Specific Gravity | | 0.8289 | 0.8289 | 0.7767 | 0.8289 | 0.7766 | | | 1.44 |
| CO2(Mole Fraction) | % | 8.347 | 8.347 | 1.732 | 8.347 | 1.731 | 1.731 | 1.732 | 87.04 |
| C1(Mole Fraction) | % | 68.054 | 68.054 | 73.288 | 68.054 | 73.235 | 73.235 | 73.288 | 0.26518 |

| Names | Units | AGI-1 Gas/Gas HX - A |
|---|---|---|
| Energy Rate | MMBtu/h | 1.1766 |
| Effective UA | Btu/(h*°F) | 72491.2 |

| Names | Units | AGI-1 Gas/Gas HX - A |
|---|---|---|
| Energy Rate | MMBtu/h | 1.18 |
| Minimum End Approach Temperature | °F | 15.4 |

* User Specified Values
? Extrapolated or Approximate Values

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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-1 Amine Treating | | |

## Connections

| | Acid Gas to AGI-1 Injection Compression | Blended RH AGI Treated Outlet to RH South | From AGI-2 Treated Outlet | Red Hills AGI-1 - Amine Inlet | R8 |
|---|---|---|---|---|---|
| From Block | PV | MIX-100 | XFS1 | -- | Still |
| To Block | -- | -- | MIX-100 | SAT-1 | Condenser |

## Stream Composition

| Mole Fraction | Acid Gas to AGI-1 Injection Compression % | Blended RH AGI Treated Outlet to RH South % | From AGI-2 Treated Outlet % | Red Hills AGI-1 - Amine Inlet % | R8 % |
|---|---|---|---|---|---|
| H2S | 6.55869 | 0.000223035 | 0.00022395 | 0.50302 * | 3.16219 |
| CO2 | 87.0428 | 3.74696 | 4.49646 | 8.35012 * | 41.879 |
| N2 | 0.000439262 | 1.48417 | 1.47215 | 1.40582 * | 0.000211061 |
| C1 | 0.265183 | 71.7795 | 71.2183 | 68.0757 * | 0.12742 |
| C2 | 0.0877538 | 11.2755 | 11.189 | 10.699 * | 0.0421656 |
| C3 | 0.0319293 | 6.74596 | 6.6932 | 6.39637 * | 0.0153419 |
| iC4 | 0.00321186 | 1.15942 | 1.15023 | 1.09877 * | 0.00154326 |
| nC4 | 0.0132938 | 2.63605 | 2.61539 | 2.49918 * | 0.00638758 |
| iC5 | 0.000512749 | 0.545985 | 0.541583 | 0.517159 * | 0.000246369 |
| nC5 | 0.000587619 | 0.359899 | 0.357014 | 0.34096 * | 0.000282344 |
| C6 | 5.16951E-05 | 0.0473277 | 0.0469465 | 0.0448271 * | 2.48387E-05 |
| n-Heptane | 2.89395E-06 | 0.0114601 | 0.0113669 | 0.0108514 * | 1.39049E-06 |
| n-Octane | 6.70552E-07 | 0.00212476 | 0.00210749 | 0.0020119 * | 3.22188E-07 |
| Methylcyclopentane | 5.22724E-05 | 0.00764204 | 0.00758221 | 0.00724564 * | 2.5117E-05 |
| Benzene | 0.00500865 | 0.00260112 | 0.00263871 | 0.00270759 * | 0.00241359 |
| Cyclohexane | 0.000115742 | 0.00417418 | 0.00414343 | 0.00396465 * | 5.56163E-05 |
| Methylcyclohexane | 1.91989E-06 | 0.00034373 | 0.000341018 | 0.000325793 * | 9.22504E-07 |
| Toluene | 0.000921087 | 0.000538379 | 0.000545227 | 0.000553347 * | 0.000443535 |
| 2,2-Dimethylpropane | 5.64266E-06 | 0.00696285 | 0.00690672 | 0.00659506 * | 2.71121E-06 |
| 2-Methylpentane | 2.19821E-05 | 0.0191706 | 0.0190164 | 0.0181582 * | 1.0562E-05 |
| 3-Methylpentane | 1.32648E-05 | 0.0116248 | 0.0115312 | 0.0110108 * | 6.37354E-06 |
| 2,3-Dimethylbutane | 3.95597E-06 | 0.00336228 | 0.00333523 | 0.00318475 * | 1.90078E-06 |
| 1,1-Dimethylcyclopentane | 2.89266E-06 | 0.000867473 | 0.000860567 | 0.000822001 * | 1.38991E-06 |
| 2,3-Dimethylpentane | 7.82588E-08 | 0.000284778 | 0.000282463 | 0.000269656 * | 3.76019E-08 |
| 2-Methylhexane | 1.65739E-07 | 0.000621434 | 0.000616382 | 0.000588433 * | 7.96348E-08 |
| cis-1,3-Dimethylcyclopentane | 6.05628E-07 | 0.000166083 | 0.000164762 | 0.000157383 * | 2.91001E-07 |
| trans-1,3-Dimethylcyclopentane | 6.03459E-07 | 0.000145973 | 0.000144814 | 0.000138337 * | 2.89961E-07 |
| 2,2,4-Trimethylpentane | 5.35497E-08 | 0.000159858 | 0.00015856 | 0.000151369 * | 2.57296E-08 |
| 2-Methylheptane | 1.23845E-08 | 3.28182E-05 | 3.25516E-05 | 3.10757E-05 * | 5.95051E-09 |
| cis-1,2-Dimethylcyclohexane | 5.50285E-08 | 1.58708E-05 | 1.57442E-05 | 1.50366E-05 * | 2.64407E-08 |
| m-Xylene | 6.95731E-05 | 4.9373E-05 | 4.97774E-05 | 5.0122E-05 * | 3.35178E-05 |
| p-Xylene | 7.35639E-05 | 5.12872E-05 | 5.17224E-05 | 5.21269E-05 * | 3.54405E-05 |
| Ethylcyclohexane | 5.4981E-07 | 0.00010155 | 0.000100746 | 9.62343E-05 * | 2.64181E-07 |
| H2O | 5.98929 | 0.146523 | 0.147479 | 0 * | 54.7331 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 * | 0 |
| MDEA | 3.17042E-08 | 2.52539E-08 | 1.63841E-08 | 0 * | 0.0291215 |
| Piperazine | 0 | 0 | 0 | 0 * | 0 |

| Mass Fraction | Acid Gas to AGI-1 Injection Compression % | Blended RH AGI Treated Outlet to RH South % | From AGI-2 Treated Outlet % | Red Hills AGI-1 - Amine Inlet % | R8 % |
|---|---|---|---|---|---|
| H2S | 5.35777 | 0.000331416 | 0.000330413 | 0.714059 * | 3.65933 |
| CO2 | 91.8195 | 7.18976 | 8.56668 | 15.3066 * | 62.5813 |
| N2 | 0.000294948 | 1.81275 | 1.78531 | 1.64034 * | 0.000200759 |
| C1 | 0.10197 | 50.2066 | 49.4605 | 45.4885 * | 0.0694081 |
| C2 | 0.0632472 | 14.7824 | 14.5648 | 13.4 * | 0.0430507 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-1 Amine Treating | | |

| Mass Fraction | Acid Gas to AGI-1 Injection Compression % | Blended RH AGI Treated Outlet to RH South % | From AGI-2 Treated Outlet % | Red Hills AGI-1 - Amine Inlet % | R8 % |
|---|---|---|---|---|---|
| C3 | 0.0337474 | 12.9696 | 12.7769 | 11.7481 * | 0.0229708 |
| iC4 | 0.0044746 | 2.93815 | 2.89417 | 2.66005 * | 0.00304568 |
| nC4 | 0.0185202 | 6.68012 | 6.58073 | 6.05033 * | 0.0126061 |
| iC5 | 0.000886726 | 1.71751 | 1.69157 | 1.55415 * | 0.000603556 |
| nC5 | 0.0010162 | 1.13214 | 1.11509 | 1.02464 * | 0.000691687 |
| C6 | 0.00010678 | 0.177823 | 0.175139 | 0.160902 * | 7.26798E-05 |
| n-Heptane | 6.9506E-06 | 0.0500674 | 0.0493077 | 0.0452899 * | 4.73093E-06 |
| n-Octane | 1.83596E-06 | 0.0105822 | 0.0104216 | 0.00957236 * | 1.24964E-06 |
| Methylcyclopentane | 0.000105446 | 0.0280415 | 0.0276245 | 0.0253991 * | 7.17751E-05 |
| Benzene | 0.00937764 | 0.00885861 | 0.00892286 | 0.00880925 * | 0.0064015 |
| Cyclohexane | 0.000233479 | 0.0153166 | 0.0150959 | 0.0138978 * | 0.000158931 |
| Methylcyclohexane | 4.51837E-06 | 0.00147149 | 0.00144951 | 0.00133239 * | 3.07553E-06 |
| Toluene | 0.00203422 | 0.00216281 | 0.00217477 | 0.00212362 * | 0.00138762 |
| 2,2-Dimethylpropane | 9.75818E-06 | 0.0219031 | 0.0215723 | 0.0198192 * | 6.64193E-06 |
| 2-Methylpentane | 4.54054E-05 | 0.0720292 | 0.0709424 | 0.0651771 * | 3.09053E-05 |
| 3-Methylpentane | 2.73994E-05 | 0.0436773 | 0.0430182 | 0.0395222 * | 1.86494E-05 |
| 2,3-Dimethylbutane | 8.17131E-06 | 0.012633 | 0.0124424 | 0.0114314 * | 5.56183E-06 |
| 1,1-Dimethylcyclopentane | 6.80773E-06 | 0.0037136 | 0.00365788 | 0.00336172 * | 4.6338E-06 |
| 2,3-Dimethylpentane | 1.8796E-07 | 0.00124415 | 0.00122527 | 0.00112545 * | 1.27935E-07 |
| 2-Methylhexane | 3.98068E-07 | 0.00271494 | 0.00267375 | 0.0024559 * | 2.70945E-07 |
| cis-1,3-Dimethylcyclopentane | 1.42532E-06 | 0.000710991 | 0.000700331 | 0.000643645 * | 9.70168E-07 |
| trans-1,3-Dimethylcyclopentane | 1.42021E-06 | 0.000624901 | 0.000615539 | 0.000565752 * | 9.66699E-07 |
| 2,2,4-Trimethylpentane | 1.46618E-07 | 0.000796157 | 0.000784088 | 0.000720193 * | 9.97953E-08 |
| 2-Methylheptane | 3.39084E-08 | 0.000163447 | 0.000160969 | 0.000147854 * | 2.30797E-08 |
| cis-1,2-Dimethylcyclohexane | 1.48008E-07 | 7.76479E-05 | 7.64819E-05 | 7.02798E-05 * | 1.00743E-07 |
| m-Xylene | 0.000177043 | 0.000228539 | 0.000228775 | 0.00022164 * | 0.000120826 |
| p-Xylene | 0.000187198 | 0.000237399 | 0.000237714 | 0.000230506 * | 0.000127757 |
| Ethylcyclohexane | 1.4788E-06 | 0.000496833 | 0.000489403 | 0.00044979 * | 1.00657E-06 |
| H2O | 2.58626 | 0.115089 | 0.115018 | 0 * | 33.4806 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 * | 0 |
| MDEA | 9.05546E-08 | 1.31207E-07 | 8.45193E-08 | 0 * | 0.11783 |
| Piperazine | 0 | 0 | 0 | 0 * | 0 |

| Mass Flow | Acid Gas to AGI-1 Injection Compression lb/h | Blended RH AGI Treated Outlet to RH South lb/h | From AGI-2 Treated Outlet lb/h | Red Hills AGI-1 - Amine Inlet lb/h | R8 lb/h |
|---|---|---|---|---|---|
| H2S | 752.268 | 1.14029 | 0.834574 | 752.686 * | 754.865 |
| CO2 | 12892.1 | 24737.7 | 21638.2 | 16134.6 * | 12909.6 |
| N2 | 0.0414128 | 6237.08 | 4509.43 | 1729.08 * | 0.0414136 |
| C1 | 14.3173 | 172745 | 124930 | 47949.2 * | 14.3179 |
| C2 | 8.88035 | 50861.3 | 36788.5 | 14124.8 * | 8.88073 |
| C3 | 4.73838 | 44624.4 | 32272.5 | 12383.6 * | 4.73853 |
| iC4 | 0.628265 | 10109.2 | 7310.23 | 2803.94 * | 0.628278 |
| nC4 | 2.60037 | 22984.2 | 16621.9 | 6377.62 * | 2.60045 |
| iC5 | 0.124503 | 5909.4 | 4272.65 | 1638.22 * | 0.124505 |
| nC5 | 0.142682 | 3895.32 | 2816.55 | 1080.07 * | 0.142685 |
| C6 | 0.0149926 | 611.831 | 442.374 | 169.606 * | 0.0149928 |
| n-Heptane | 0.000975914 | 172.266 | 124.544 | 47.7398 * | 0.00097592 |
| n-Octane | 0.000257781 | 36.4098 | 26.3235 | 10.0902 * | 0.000257783 |
| Methylcyclopentane | 0.0148054 | 96.4818 | 69.7753 | 26.773 * | 0.0148061 |
| Benzene | 1.31669 | 30.4796 | 22.5378 | 9.28577 * | 1.32054 |
| Cyclohexane | 0.0327822 | 52.6996 | 38.1299 | 14.6496 * | 0.032785 |
| Methylcyclohexane | 0.000634411 | 5.06291 | 3.66125 | 1.40446 * | 0.000634437 |
| Toluene | 0.285618 | 7.44153 | 5.49314 | 2.2385 * | 0.286246 |
| 2,2-Dimethylpropane | 0.00137012 | 75.3614 | 54.4883 | 20.8913 * | 0.00137013 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-1 Amine Treating | | |

| Mass Flow | Acid Gas to AGI-1 Injection Compression lb/h | Blended RH AGI Treated Outlet to RH South lb/h | From AGI-2 Treated Outlet lb/h | Red Hills AGI-1 - Amine Inlet lb/h | R8 lb/h |
|---|---|---|---|---|---|
| 2-Methylpentane | 0.00637524 | 247.829 | 179.19 | 68.7027 * | 0.00637531 |
| 3-Methylpentane | 0.00384706 | 150.28 | 108.658 | 41.6601 * | 0.00384711 |
| 2,3-Dimethylbutane | 0.00114731 | 43.4661 | 31.4277 | 12.0497 * | 0.00114732 |
| 1,1-Dimethylcyclopentane | 0.000955853 | 12.7773 | 9.23926 | 3.54356 * | 0.000955884 |
| 2,3-Dimethylpentane | 2.63909E-05 | 4.28071 | 3.09486 | 1.18633 * | 2.6391E-05 |
| 2-Methylhexane | 5.58916E-05 | 9.34124 | 6.7535 | 2.58875 * | 5.5892E-05 |
| cis-1,3-Dimethylcyclopentane | 0.000200124 | 2.44629 | 1.76893 | 0.678463 * | 0.000200131 |
| trans-1,3-Dimethylcyclopentane | 0.000199408 | 2.15008 | 1.55476 | 0.596356 * | 0.000199416 |
| 2,2,4-Trimethylpentane | 2.05862E-05 | 2.73932 | 1.98049 | 0.759151 * | 2.05863E-05 |
| 2-Methylheptane | 4.76098E-06 | 0.56237 | 0.406584 | 0.155852 * | 4.761E-06 |
| cis-1,2-Dimethylcyclohexane | 2.07814E-05 | 0.267161 | 0.193182 | 0.0740815 * | 2.07819E-05 |
| m-Xylene | 0.0248581 | 0.786329 | 0.577851 | 0.23363 * | 0.0249246 |
| p-Xylene | 0.026284 | 0.816814 | 0.600431 | 0.242975 * | 0.0263543 |
| Ethylcyclohexane | 0.000207634 | 1.70944 | 1.23616 | 0.474121 * | 0.000207641 |
| H2O | 363.129 | 395.985 | 290.519 | 0 * | 6906.55 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 * | 0 |
| MDEA | 1.27145E-05 | 0.00045144 | 0.000213483 | 0 * | 24.3065 |
| Piperazine | 0 | 0 | 0 | 0 * | 0 |

## Stream Properties

| Property | Units | Acid Gas to AGI-1 Injection Compression | Blended RH AGI Treated Outlet to RH South | From AGI-2 Treated Outlet | Red Hills AGI-1 - Amine Inlet | R8 |
|---|---|---|---|---|---|---|
| Temperature | °F | 119.872 | 105.244 | 105.461 | 90 * | 222.814 |
| Pressure | psia | 27.6959 | 941.696 | 942.696 | 964.696 * | 29.6959 |
| Molecular Weight | lb/lbmol | 41.72 | 22.9356 | 23.0996 | 24.0083 | 29.4509 |
| Mass Density | lb/ft^3 | 0.187427 | 4.46749 | 4.50351 | 5.12951 | 0.120585 |
| Mass Flow | lb/h | 14040.7 | 344068 | 252585 | 105409 | 20628.5 |
| Std Vapor Volumetric Flow | MMSCFD | 3.06513 | 136.627 | 99.5882 | 39.9874 | 6.37933 |
| Std Liquid Volumetric Flow | sgpm | 34.3269 | 1840.08 | 1339.95 | 535.091 | 47.5035 |
| Specific Gravity | | 1.44048 | 0.791908 | 0.79757 | 0.828944 | 1.01686 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 50.6642 | 1260.01 | 1250.18 | 1198.1 | 51.6387 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-1 Amine Treating | | |

## Connections

| | Treated Flash Gas | | | | |
|---|---|---|---|---|---|
| From Block | Flash Gas Contactor | | | | |
| To Block | -- | | | | |

## Stream Composition

| Mole Fraction | Treated Flash Gas % | | | | |
|---|---|---|---|---|---|
| H2S | 0.0301107 | | | | |
| CO2 | 24.2457 | | | | |
| N2 | 0.369792 | | | | |
| C1 | 55.8122 | | | | |
| C2 | 10.7052 | | | | |
| C3 | 4.56421 | | | | |
| iC4 | 0.556115 | | | | |
| nC4 | 1.64282 | | | | |
| iC5 | 0.139001 | | | | |
| nC5 | 0.119252 | | | | |
| C6 | 0.011613 | | | | |
| n-Heptane | 0.00126135 | | | | |
| n-Octane | 0.000233625 | | | | |
| Methylcyclopentane | 0.0045882 | | | | |
| Benzene | 0.00260437 | | | | |
| Cyclohexane | 0.00418546 | | | | |
| Methylcyclohexane | 0.00016446 | | | | |
| Toluene | 0.000364073 | | | | |
| 2,2-Dimethylpropane | 0.00174237 | | | | |
| 2-Methylpentane | 0.00492247 | | | | |
| 3-Methylpentane | 0.00297178 | | | | |
| 2,3-Dimethylbutane | 0.000881831 | | | | |
| 1,1-Dimethylcyclopentane | 0.000347663 | | | | |
| 2,3-Dimethylpentane | 3.38136E-05 | | | | |
| 2-Methylhexane | 7.18489E-05 | | | | |
| cis-1,3-Dimethylcyclopentane | 6.8512E-05 | | | | |
| trans-1,3-Dimethylcyclopentane | 6.34371E-05 | | | | |
| 2,2,4-Trimethylpentane | 1.94426E-05 | | | | |
| 2-Methylheptane | 4.03793E-06 | | | | |
| cis-1,2-Dimethylcyclohexane | 5.40225E-06 | | | | |
| m-Xylene | 2.06792E-05 | | | | |
| p-Xylene | 2.1635E-05 | | | | |
| Ethylcyclohexane | 4.17334E-05 | | | | |
| H2O | 1.77902 | | | | |
| CHEMTHERM 550 | 0 | | | | |
| UCARSOL™ AP-814 | 0 | | | | |
| MDEA | 0.000302975 | | | | |
| Piperazine | 0 | | | | |

| Mass Fraction | Treated Flash Gas % | | | | |
|---|---|---|---|---|---|
| H2S | 0.0383115 | | | | |
| CO2 | 39.8361 | | | | |
| N2 | 0.386741 | | | | |
| C1 | 33.427 | | | | |
| C2 | 12.0175 | | | | |
| C3 | 7.51376 | | | | |
| iC4 | 1.20671 | | | | |
| nC4 | 3.56475 | | | | |
| iC5 | 0.374406 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-1 Amine Treating | | |

| Mass Fraction | Treated Flash Gas % | | | | |
|---|---|---|---|---|---|
| nC5 | 0.321212 | | | | |
| C6 | 0.0373614 | | | | |
| n-Heptane | 0.00471854 | | | | |
| n-Octane | 0.000996303 | | | | |
| Methylcyclopentane | 0.0144159 | | | | |
| Benzene | 0.00759481 | | | | |
| Cyclohexane | 0.0131505 | | | | |
| Methylcyclohexane | 0.000602847 | | | | |
| Toluene | 0.00125235 | | | | |
| 2,2-Dimethylpropane | 0.00469316 | | | | |
| 2-Methylpentane | 0.0158366 | | | | |
| 3-Methylpentane | 0.00956084 | | | | |
| 2,3-Dimethylbutane | 0.00283704 | | | | |
| 1,1-Dimethylcyclopentane | 0.0012744 | | | | |
| 2,3-Dimethylpentane | 0.000126492 | | | | |
| 2-Methylhexane | 0.000268778 | | | | |
| cis-1,3-Dimethylcyclopentane | 0.000251138 | | | | |
| trans-1,3-Dimethylcyclopentane | 0.000232536 | | | | |
| 2,2,4-Trimethylpentane | 8.29138E-05 | | | | |
| 2-Methylheptane | 1.72199E-05 | | | | |
| cis-1,2-Dimethylcyclohexane | 2.26315E-05 | | | | |
| m-Xylene | 8.1962E-05 | | | | |
| p-Xylene | 8.57504E-05 | | | | |
| Ethylcyclohexane | 0.000174833 | | | | |
| H2O | 1.19652 | | | | |
| CHEMTHERM 550 | 0 | | | | |
| UCARSOL™ AP-814 | 0 | | | | |
| MDEA | 0.00134785 | | | | |
| Piperazine | 0 | | | | |

| Mass Flow | Treated Flash Gas lb/h | | | | |
|---|---|---|---|---|---|
| H2S | 0.137487 | | | | |
| CO2 | 142.958 | | | | |
| N2 | 1.38788 | | | | |
| C1 | 119.958 | | | | |
| C2 | 43.1267 | | | | |
| C3 | 26.9644 | | | | |
| iC4 | 4.33048 | | | | |
| nC4 | 12.7927 | | | | |
| iC5 | 1.34362 | | | | |
| nC5 | 1.15272 | | | | |
| C6 | 0.134078 | | | | |
| n-Heptane | 0.0169333 | | | | |
| n-Octane | 0.0035754 | | | | |
| Methylcyclopentane | 0.0517338 | | | | |
| Benzene | 0.0272552 | | | | |
| Cyclohexane | 0.0471928 | | | | |
| Methylcyclohexane | 0.00216341 | | | | |
| Toluene | 0.00449427 | | | | |
| 2,2-Dimethylpropane | 0.0168422 | | | | |
| 2-Methylpentane | 0.0568323 | | | | |
| 3-Methylpentane | 0.0343106 | | | | |
| 2,3-Dimethylbutane | 0.0101812 | | | | |
| 1,1-Dimethylcyclopentane | 0.00457339 | | | | |
| 2,3-Dimethylpentane | 0.000453938 | | | | |
| 2-Methylhexane | 0.000964553 | | | | |
| cis-1,3-Dimethylcyclopentane | 0.000901251 | | | | |
| trans-1,3-Dimethylcyclopentane | 0.000834493 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-1 Amine Treating | | |

| Mass Flow | Treated Flash Gas lb/h | | | | |
|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.00029755 | | | | |
| 2-Methylheptane | 6.17964E-05 | | | | |
| cis-1,2-Dimethylcyclohexane | 8.12169E-05 | | | | |
| m-Xylene | 0.000294134 | | | | |
| p-Xylene | 0.000307729 | | | | |
| Ethylcyclohexane | 0.000627416 | | | | |
| H2O | 4.29391 | | | | |
| CHEMTHERM 550 | 0 | | | | |
| UCARSOL™ AP-814 | 0 | | | | |
| MDEA | 0.00483699 | | | | |
| Piperazine | 0 | | | | |

## Stream Properties

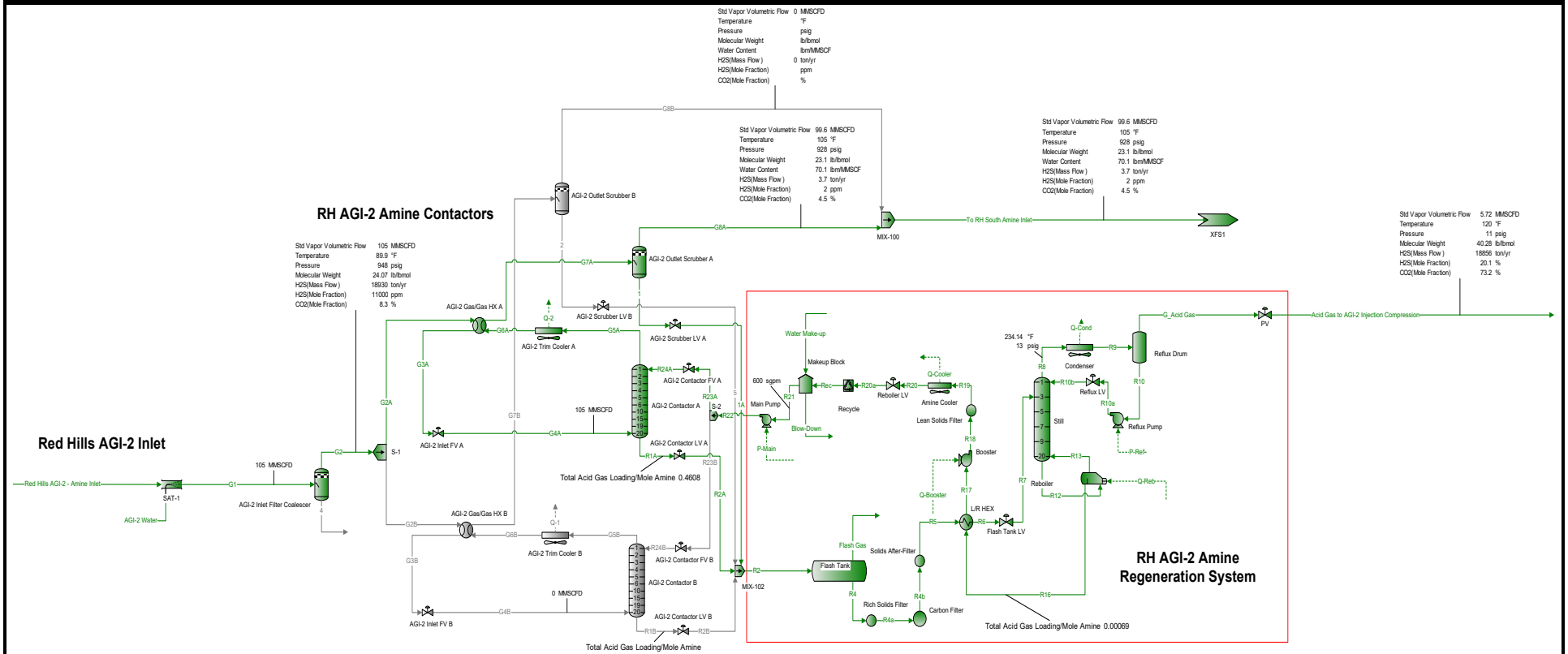
| Property | Units | Treated Flash Gas | | | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 129.108 | | | | |
| Pressure | psia | 109.696 | | | | |
| Molecular Weight | lb/lbmol | 26.7857 | | | | |
| Mass Density | lb/ft^3 | 0.475579 | | | | |
| Mass Flow | lb/h | 358.866 | | | | |
| Std Vapor Volumetric Flow | MMSCFD | 0.122021 | | | | |
| Std Liquid Volumetric Flow | sgpm | 1.57837 | | | | |
| Specific Gravity | | 0.924841 | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 952.788 | | | | |

**Remarks**


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# RH AGI-2 Amine Treating
# Plant Schematic

| | |
|---|---|
| Client Name: | KM |
| Location: | |
| Flowsheet: | RH AGI-2 Amine Treating |




| Names | Units | G1 | G2 | G3A | G3B | G4A | G4B | G5A | G5B | G7A | G7B | G8A | G_Acid Gas |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Temperature | °F | 90 | 89.85 | 108.3 | | 108* | 108* | 140.5 | | 105.5 | | 105.5 | 120 |
| Pressure | psig | 950 | 948 | 943 | 943 | 938 | 938 | 936 | | 929 | | 928 | 12 |
| Mole Fraction Vapor | % | 100 | 100 | 100 | | 100 | | 100 | | 99.81 | | 100 | 100 |
| Mass Flow | lb/h | 2.7746e+05 | 2.7746e+05 | 2.7746e+05 | 0 | 2.7746e+05 | 0 | 2.5296e+05 | 0 | 2.5296e+05 | 0 | 2.5259e+05 | 25300 |
| Std Vapor Volumetric Flow | MMSCFD | 105 | 105* | 105 | 0 | 105 | 0 | 99.78 | 0 | 99.78 | 0 | 99.59 | 5.72 |
| Molecular Weight | lb/lbmol | 24.067 | 24.067 | 24.067 | 24.067 | 24.067 | 24.067 | 23.091 | | 23.091 | | 23.1 | 40.283 |
| Specific Gravity | | 0.831 | 0.831 | 0.831 | | 0.831 | | 0.7973 | | | | 0.7976 | 1.391 |
| CO2(Mole Fraction) | % | 8.297 | 8.297 | 8.297 | 8.297 | 8.297 | 8.297 | 4.489 | | 4.489 | | 4.496 | 73.18 |
| C1(Mole Fraction) | % | 67.646 | 67.646 | 67.646 | 67.646 | 67.646 | 67.646 | 71.085 | | 71.085 | | 71.218 | 0.18203 |

| Names | Units | AGI-2 Gas/Gas HX A - A | AGI-2 Gas/Gas HX B - B |
|---|---|---|---|
| Energy Rate | MMBtu/h | 3.1484 | 0 |
| Effective UA | Btu/(h*°F) | 193910 | |

| Names | Units | AGI-2 Gas/Gas HX A - A |
|---|---|---|
| Energy Rate | MMBtu/h | 3.15 |
| Minimum End Approach Temperature | °F | 15.7 |

* User Specified Values
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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-2 Amine Treating | | |

## Connections

| | Acid Gas to AGI-2 Injection Compression | Flash Gas | Red Hills AGI-2 - Amine Inlet | R8 | To RH South Amine Inlet |
|---|---|---|---|---|---|
| From Block | PV | Flash Tank | -- | Still | MIX-100 |
| To Block | -- | -- | SAT-1 | Condenser | XFS1 |

## Stream Composition

| Mole Fraction | Acid Gas to AGI-2 Injection Compression % | Flash Gas % | Red Hills AGI-2 - Amine Inlet % | R8 % | To RH South Amine Inlet % |
|---|---|---|---|---|---|
| H2S | 20.1122 | 2.36618 | 1.1003 * | 4.5083 | 0.00022395 |
| CO2 | 73.1764 | 26.8876 | 8.3 * | 16.3165 | 4.49646 |
| N2 | 0.000372368 | 0.375301 | 1.39738 * | 8.27995E-05 | 1.47215 |
| C1 | 0.182029 | 51.3443 | 67.6671 * | 0.0404781 | 71.2183 |
| C2 | 0.0542177 | 9.45843 | 10.6348 * | 0.0120566 | 11.189 |
| C3 | 0.0187378 | 3.91654 | 6.35797 * | 0.00416669 | 6.6932 |
| iC4 | 0.00176156 | 0.459274 | 1.09218 * | 0.0003917 | 1.15023 |
| nC4 | 0.00760847 | 1.3943 | 2.48418 * | 0.00169187 | 2.61539 |
| iC5 | 0.000309369 | 0.119974 | 0.514055 * | 6.87902E-05 | 0.541583 |
| nC5 | 0.000344555 | 0.101691 | 0.338913 * | 7.66148E-05 | 0.357014 |
| C6 | 2.57076E-05 | 0.00915508 | 0.044558 * | 5.71618E-06 | 0.0469465 |
| n-Heptane | 1.48188E-06 | 0.00099868 | 0.0107863 * | 3.29496E-07 | 0.0113669 |
| n-Octane | 3.15176E-07 | 0.000176414 | 0.00199982 * | 7.00791E-08 | 0.00210749 |
| Methylcyclopentane | 3.04396E-05 | 0.0039625 | 0.00720214 * | 6.76912E-06 | 0.00758221 |
| Benzene | 0.00320557 | 0.00765946 | 0.00269134 * | 0.000719014 | 0.00263871 |
| Cyclohexane | 6.321E-05 | 0.00366539 | 0.00394085 * | 1.40582E-05 | 0.00414343 |
| Methylcyclohexane | 1.04968E-06 | 0.00013803 | 0.000323837 * | 2.33421E-07 | 0.000341018 |
| Toluene | 0.000559937 | 0.00129467 | 0.000550025 * | 0.000125322 | 0.000545227 |
| 2,2-Dimethylpropane | 3.17064E-06 | 0.00144802 | 0.00655547 * | 7.05002E-07 | 0.00690672 |
| 2-Methylpentane | 1.09777E-05 | 0.00388902 | 0.0180492 * | 2.44092E-06 | 0.0190164 |
| 3-Methylpentane | 6.62257E-06 | 0.0023473 | 0.0109447 * | 1.47255E-06 | 0.0115312 |
| 2,3-Dimethylbutane | 1.97434E-06 | 0.000697613 | 0.00316564 * | 4.39001E-07 | 0.00333523 |
| 1,1-Dimethylcyclopentane | 1.64375E-06 | 0.00029537 | 0.000817067 * | 3.65516E-07 | 0.000860567 |
| 2,3-Dimethylpentane | 4.02331E-08 | 2.68702E-05 | 0.000268038 * | 8.94582E-09 | 0.000282463 |
| 2-Methylhexane | 8.50896E-08 | 5.70216E-05 | 0.0005849 * | 1.89197E-08 | 0.000616382 |
| cis-1,3-Dimethylcyclopentane | 3.4365E-07 | 5.82331E-05 | 0.000156438 * | 7.64171E-08 | 0.000164762 |
| trans-1,3-Dimethylcyclopentane | 3.49412E-07 | 5.46288E-05 | 0.000137506 * | 7.76997E-08 | 0.000144814 |
| 2,2,4-Trimethylpentane | 2.12812E-08 | 1.34882E-05 | 0.00015046 * | 4.73184E-09 | 0.00015856 |
| 2-Methylheptane | 5.60465E-09 | 3.00297E-06 | 3.08891E-05 * | 1.24619E-09 | 3.25516E-05 |
| cis-1,2-Dimethylcyclohexane | 2.73406E-08 | 4.29423E-06 | 1.49463E-05 * | 6.07952E-09 | 1.57442E-05 |
| m-Xylene | 4.46955E-05 | 9.2473E-05 | 4.98211E-05 * | 1.00178E-05 | 4.97774E-05 |
| p-Xylene | 4.72394E-05 | 9.76141E-05 | 5.1814E-05 * | 1.0588E-05 | 5.17224E-05 |
| Ethylcyclohexane | 2.75063E-07 | 3.36048E-05 | 9.56566E-05 * | 6.11651E-08 | 0.000100746 |
| H2O | 6.44195 | 3.53977 | 0 * | 79.1015 | 0.147479 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 3.8944E-09 | 0.000509955 | 0 * | 0.0138503 | 1.63841E-08 |
| Piperazine | 0 | 0 | 0 * | 0 | 0 |

| Mass Fraction | Acid Gas to AGI-2 Injection Compression % | Flash Gas % | Red Hills AGI-2 - Amine Inlet % | R8 % | To RH South Amine Inlet % |
|---|---|---|---|---|---|
| H2S | 17.0159 | 2.93683 | 1.558 * | 6.68084 | 0.000330413 |
| CO2 | 79.9467 | 43.094 | 15.1765 * | 31.2234 | 8.56668 |
| N2 | 0.000258953 | 0.382882 | 1.6264 * | 0.000100856 | 1.78531 |
| C1 | 0.0724928 | 29.9973 | 45.1019 * | 0.0282357 | 49.4605 |
| C2 | 0.040471 | 10.3576 | 13.2861 * | 0.0157635 | 14.5648 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-2 Amine Treating | | |

| Mass Fraction | Acid Gas to AGI-2 Injection Compression % | Flash Gas % | Red Hills AGI-2 - Amine Inlet % | R8 % | To RH South Amine Inlet % |
|---|---|---|---|---|---|
| C3 | 0.0205115 | 6.28952 | 11.6482 * | 0.00798902 | 12.7769 |
| iC4 | 0.00254169 | 0.97215 | 2.63744 * | 0.000989927 | 2.89417 |
| nC4 | 0.010978 | 2.95133 | 5.9989 * | 0.00427579 | 6.58073 |
| iC5 | 0.000554101 | 0.315234 | 1.54094 * | 0.000215806 | 1.69157 |
| nC5 | 0.000617121 | 0.267197 | 1.01593 * | 0.000240353 | 1.11509 |
| C6 | 5.49956E-05 | 0.0287319 | 0.159535 * | 2.14188E-05 | 0.175139 |
| n-Heptane | 3.68614E-06 | 0.00364436 | 0.0449049 * | 1.4356E-06 | 0.0493077 |
| n-Octane | 8.93738E-07 | 0.000733883 | 0.009491 * | 3.48073E-07 | 0.0104216 |
| Methylcyclopentane | 6.35952E-05 | 0.0121448 | 0.0251832 * | 2.4771E-05 | 0.0276245 |
| Benzene | 0.00621592 | 0.0217888 | 0.00873437 * | 0.00244209 | 0.00892286 |
| Cyclohexane | 0.00013206 | 0.0112342 | 0.0137797 * | 5.14445E-05 | 0.0150959 |
| Methylcyclohexane | 2.55853E-06 | 0.000493564 | 0.00132106 * | 9.96547E-07 | 0.00144951 |
| Toluene | 0.00128075 | 0.00434431 | 0.00210557 * | 0.000502082 | 0.00217477 |
| 2,2-Dimethylpropane | 5.67882E-06 | 0.00380471 | 0.0196507 * | 2.2117E-06 | 0.0215723 |
| 2-Methylpentane | 2.34843E-05 | 0.0122051 | 0.064623 * | 9.14628E-06 | 0.0709424 |
| 3-Methylpentane | 1.41675E-05 | 0.00736667 | 0.0391862 * | 5.51773E-06 | 0.0430182 |
| 2,3-Dimethylbutane | 4.22365E-06 | 0.00218936 | 0.0113342 * | 1.64496E-06 | 0.0124424 |
| 1,1-Dimethylcyclopentane | 4.00652E-06 | 0.00105617 | 0.00333314 * | 1.5605E-06 | 0.00365788 |
| 2,3-Dimethylpentane | 1.00079E-07 | 9.80542E-05 | 0.00111588 * | 3.89766E-08 | 0.00122527 |
| 2-Methylhexane | 2.11658E-07 | 0.000208082 | 0.00243503 * | 8.24322E-08 | 0.00267375 |
| cis-1,3-Dimethylcyclopentane | 8.37624E-07 | 0.000208228 | 0.000638174 * | 3.26248E-07 | 0.000700331 |
| trans-1,3-Dimethylcyclopentane | 8.51669E-07 | 0.00019534 | 0.000560943 * | 3.31724E-07 | 0.000615539 |
| 2,2,4-Trimethylpentane | 6.03467E-08 | 5.61108E-05 | 0.000714071 * | 2.35024E-08 | 0.000784088 |
| 2-Methylheptane | 1.5893E-08 | 1.24924E-05 | 0.000146597 * | 6.18966E-09 | 0.000160969 |
| cis-1,2-Dimethylcyclohexane | 7.61609E-08 | 1.75487E-05 | 6.96824E-05 * | 2.96632E-08 | 7.64819E-05 |
| m-Xylene | 0.000117795 | 0.000357532 | 0.000219756 * | 4.62447E-05 | 0.000228775 |
| p-Xylene | 0.0001245 | 0.00037741 | 0.000228547 * | 4.88768E-05 | 0.000237714 |
| Ethylcyclohexane | 7.66225E-07 | 0.000137329 | 0.000445967 * | 2.98437E-07 | 0.000489403 |
| H2O | 2.88098 | 2.32239 | 0 * | 61.9631 | 0.115018 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 1.15203E-08 | 0.00221304 | 0 * | 0.0717639 | 8.45193E-08 |
| Piperazine | 0 | 0 | 0 * | 0 | 0 |

| Mass Flow | Acid Gas to AGI-2 Injection Compression lb/h | Flash Gas lb/h | Red Hills AGI-2 - Amine Inlet lb/h | R8 lb/h | To RH South Amine Inlet lb/h |
|---|---|---|---|---|---|
| H2S | 4305.05 | 15.9567 | 4321.84 * | 4340.12 | 0.834574 |
| CO2 | 20226.7 | 234.143 | 42099 * | 20283.9 | 21638.2 |
| N2 | 0.0655158 | 2.08031 | 4511.58 * | 0.0655197 | 4509.43 |
| C1 | 18.3409 | 162.984 | 125111 * | 18.343 | 124930 |
| C2 | 10.2393 | 56.2758 | 36855.1 * | 10.2406 | 36788.5 |
| C3 | 5.18946 | 34.1728 | 32311.8 * | 5.18997 | 32272.5 |
| iC4 | 0.643054 | 5.28199 | 7316.16 * | 0.643093 | 7310.23 |
| nC4 | 2.77745 | 16.0355 | 16640.7 * | 2.77771 | 16621.9 |
| iC5 | 0.140189 | 1.71276 | 4274.5 * | 0.140195 | 4272.65 |
| nC5 | 0.156133 | 1.45176 | 2818.16 * | 0.156142 | 2816.55 |
| C6 | 0.013914 | 0.156109 | 442.544 * | 0.0139145 | 442.374 |
| n-Heptane | 0.000932602 | 0.0198009 | 124.565 * | 0.00093262 | 124.544 |
| n-Octane | 0.000226118 | 0.00398741 | 26.3277 * | 0.000226121 | 26.3235 |
| Methylcyclopentane | 0.0160897 | 0.0659865 | 69.8574 * | 0.0160921 | 69.7753 |
| Benzene | 1.57264 | 0.118385 | 24.2288 * | 1.58647 | 22.5378 |
| Cyclohexane | 0.0334115 | 0.0610388 | 38.2244 * | 0.0334203 | 38.1299 |
| Methylcyclohexane | 0.000647314 | 0.00268168 | 3.66458 * | 0.000647394 | 3.66125 |
| Toluene | 0.324032 | 0.0236039 | 5.84078 * | 0.326171 | 5.49314 |
| 2,2-Dimethylpropane | 0.00143676 | 0.0206721 | 54.5105 * | 0.0014368 | 54.4883 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-2 Amine Treating | | |

| Mass Flow | Acid Gas to AGI-2 Injection Compression lb/h | Flash Gas lb/h | Red Hills AGI-2 - Amine Inlet lb/h | R8 lb/h | To RH South Amine Inlet lb/h |
|---|---|---|---|---|---|
| 2-Methylpentane | 0.00594157 | 0.0663142 | 179.262 * | 0.00594177 | 179.19 |
| 3-Methylpentane | 0.00358441 | 0.0400254 | 108.701 * | 0.00358452 | 108.658 |
| 2,3-Dimethylbutane | 0.00106859 | 0.0118954 | 31.4406 * | 0.00106863 | 31.4277 |
| 1,1-Dimethylcyclopentane | 0.00101366 | 0.00573852 | 9.24602 * | 0.00101376 | 9.23926 |
| 2,3-Dimethylpentane | 2.53202E-05 | 0.000532758 | 3.09542 * | 2.53206E-05 | 3.09486 |
| 2-Methylhexane | 5.355E-05 | 0.00113057 | 6.75469 * | 5.3551E-05 | 6.7535 |
| cis-1,3-Dimethylcyclopentane | 0.000211921 | 0.00113136 | 1.77027 * | 0.000211943 | 1.76893 |
| trans-1,3-Dimethylcyclopentane | 0.000215474 | 0.00106134 | 1.55604 * | 0.0002155 | 1.55476 |
| 2,2,4-Trimethylpentane | 1.52679E-05 | 0.000304867 | 1.98081 * | 1.5268E-05 | 1.98049 |
| 2-Methylheptane | 4.02097E-06 | 6.78748E-05 | 0.406656 * | 4.02103E-06 | 0.406584 |
| cis-1,2-Dimethylcyclohexane | 1.92689E-05 | 9.53477E-05 | 0.193296 * | 1.92703E-05 | 0.193182 |
| m-Xylene | 0.0298025 | 0.00194258 | 0.609596 * | 0.0300423 | 0.577851 |
| p-Xylene | 0.0314987 | 0.00205058 | 0.63398 * | 0.0317522 | 0.600431 |
| Ethylcyclohexane | 0.000193857 | 0.000746149 | 1.2371 * | 0.000193876 | 1.23616 |
| H2O | 728.896 | 12.6183 | 0 * | 40253.5 | 290.519 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 2.91465E-06 | 0.0120241 | 0 * | 46.6205 | 0.000213483 |
| Piperazine | 0 | 0 | 0 * | 0 | 0 |

## Stream Properties

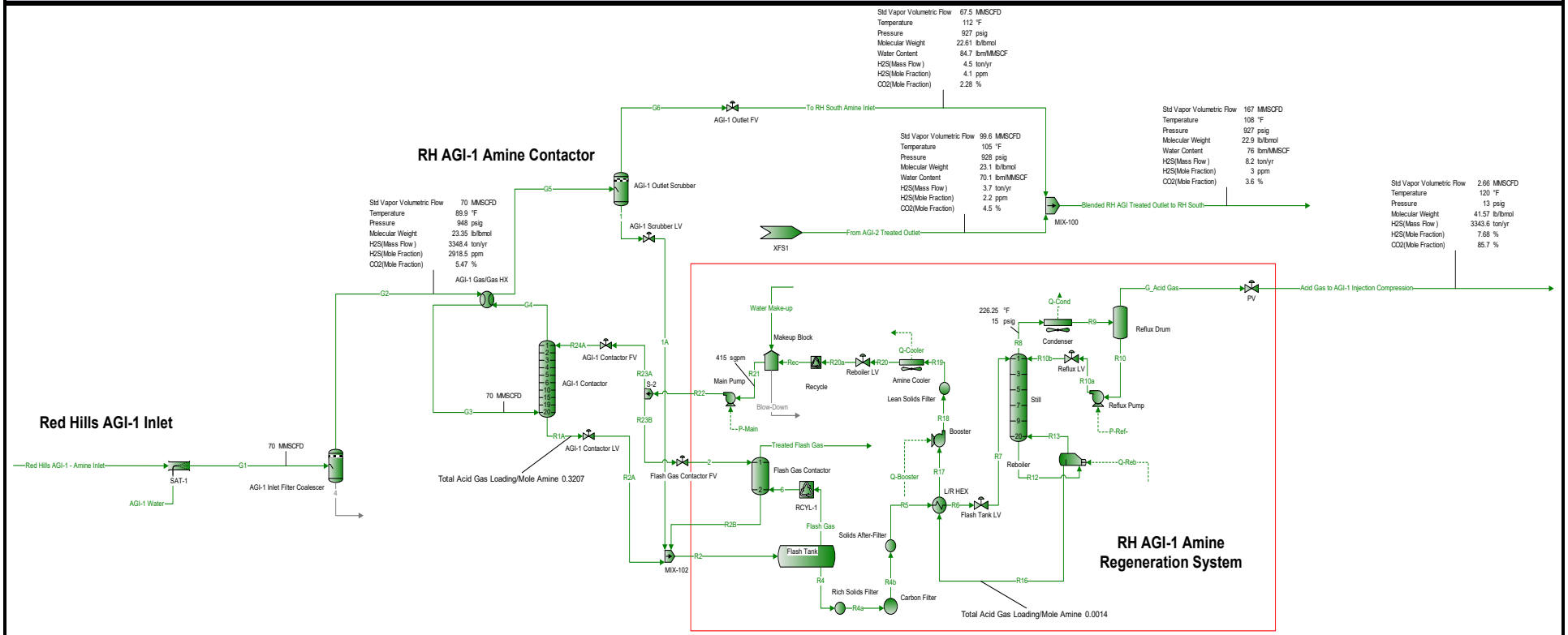
| Property | Units | Acid Gas to AGI-2 Injection Compression | Flash Gas | Red Hills AGI-2 - Amine Inlet | R8 | To RH South Amine Inlet |
|---|---|---|---|---|---|---|
| Temperature | °F | 119.888 | 157.921 | 90 * | 234.142 | 105.461 |
| Pressure | psia | 25.6959 | 109.696 | 964.696 * | 27.6959 | 942.696 |
| Molecular Weight | lb/lbmol | 40.2826 | 27.4588 | 24.0688 | 22.9981 | 23.0996 |
| Mass Density | lb/ft^3 | 0.167847 | 0.463384 | 5.15194 | 0.0865754 | 4.50351 |
| Mass Flow | lb/h | 25300.2 | 543.33 | 277397 | 64963.7 | 252585 |
| Std Vapor Volumetric Flow | MMSCFD | 5.72021 | 0.180214 | 104.967 | 25.7266 | 99.5882 |
| Std Liquid Volumetric Flow | sgpm | 61.9293 | 2.26551 | 1402.08 | 141.259 | 1339.95 |
| Specific Gravity | | 1.39085 | 0.94808 | 0.831032 | 0.794066 | 0.79757 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 135.134 | 872.302 | 1194.73 | 69.8952 | 1250.18 |

**Remarks**


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# RH AGI-1 Amine Treating
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | KM | Job: |
| Location: | | |
| Flowsheet: | RH AGI-1 Amine Treating | |




| Names | Units | G1 | G2 | G6 | G3 | G4 | G5 | To RH South Amine Inlet | G_Acid Gas |
|---|---|---|---|---|---|---|---|---|---|
| Temperature | °F | 90 | 89.86 | 112.7 | 108* | 131.9 | 112.8 | 112.4 | 120 |
| Pressure | psig | 950 | 948 | 932 | 943 | 938 | 933 | 927 | 14 |
| Mole Fraction Vapor | % | 100 | 100 | 100 | 100 | 100 | 99.92 | 100 | 100 |
| Mass Flow | lb/h | 1.7947e+05 | 1.7947e+05 | 1.6758e+05 | 1.7947e+05 | 1.677e+05 | 1.677e+05 | 1.6758e+05 | 12124 |
| Std Vapor Volumetric Flow | MMSCFD | 70 | 70* | 67.5 | 70 | 67.55 | 67.55 | 67.5 | 2.656 |
| Molecular Weight | lb/lbmol | 23.351 | 23.351 | 22.613 | 23.351 | 22.609 | 22.609 | 22.613 | 41.573 |
| Specific Gravity | | 0.8062 | 0.8062 | 0.7808 | 0.8062 | 0.7806 | | 0.7808 | 1.435 |
| CO2(Mole Fraction) | % | 5.467 | 5.467 | 2.28 | 5.467 | 2.278 | 2.278 | 2.28 | 85.73 |
| C1(Mole Fraction) | % | 70.363 | 70.363 | 72.854 | 70.363 | 72.794 | 72.794 | 72.854 | 0.37872 |

| Names | Units | AGI-1 Gas/Gas HX - A |
|---|---|---|
| Energy Rate | MMBtu/h | 2.059 |
| Effective UA | Btu/(h*°F) | 88188.9 |

| Names | Units | AGI-1 Gas/Gas HX - A |
|---|---|---|
| Energy Rate | MMBtu/h | 2.06 |
| Minimum End Approach Temperature | °F | 22.9 |

* User Specified Values
? Extrapolated or Approximate Values

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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-1 Amine Treating | | |

## Connections

| | Acid Gas to AGI-1 Injection Compression | Blended RH AGI Treated Outlet to RH South | From AGI-2 Treated Outlet | Red Hills AGI-1 - Amine Inlet | R8 |
|---|---|---|---|---|---|
| From Block | PV | MIX-100 | XFS1 | -- | Still |
| To Block | -- | -- | MIX-100 | SAT-1 | Condenser |

## Stream Composition

| Mole Fraction | Acid Gas to AGI-1 Injection Compression % | Blended RH AGI Treated Outlet to RH South % | From AGI-2 Treated Outlet % | Red Hills AGI-1 - Amine Inlet % | R8 % |
|---|---|---|---|---|---|
| H2S | 7.68069 | 0.000298104 | 0.00022395 | 0.29194 * | 3.4144 |
| CO2 | 85.7343 | 3.60091 | 4.49646 | 5.4691 * | 38.0198 |
| N2 | 0.000643874 | 1.48591 | 1.47215 | 1.45351 * | 0.000285086 |
| C1 | 0.378718 | 71.879 | 71.2183 | 70.3852 * | 0.167687 |
| C2 | 0.134258 | 11.2917 | 11.189 | 11.062 * | 0.0594467 |
| C3 | 0.0478264 | 6.75498 | 6.6932 | 6.61337 * | 0.0211763 |
| iC4 | 0.0046169 | 1.16089 | 1.15023 | 1.13605 * | 0.00204421 |
| nC4 | 0.0204368 | 2.63951 | 2.61539 | 2.58397 * | 0.00904885 |
| iC5 | 0.00098835 | 0.54661 | 0.541583 | 0.534704 * | 0.000437606 |
| nC5 | 0.00105711 | 0.360323 | 0.357014 | 0.352527 * | 0.000468052 |
| C6 | 9.25576E-05 | 0.047382 | 0.0469465 | 0.0463479 * | 4.0981E-05 |
| n-Heptane | 5.58136E-06 | 0.0114727 | 0.0113669 | 0.0112192 * | 2.4712E-06 |
| n-Octane | 1.20775E-06 | 0.00212717 | 0.00210749 | 0.00208027 * | 5.34744E-07 |
| Methylcyclopentane | 8.9599E-05 | 0.00765173 | 0.00758221 | 0.00749116 * | 3.96728E-05 |
| Benzene | 0.00684392 | 0.00263522 | 0.00263871 | 0.00279978 * | 0.0030405 |
| Cyclohexane | 0.000177029 | 0.00418077 | 0.00414343 | 0.00409932 * | 7.83888E-05 |
| Methylcyclohexane | 3.26882E-06 | 0.000344297 | 0.000341018 | 0.000337178 * | 1.44736E-06 |
| Toluene | 0.00130148 | 0.000543662 | 0.000545227 | 0.000571998 * | 0.00057771 |
| 2,2-Dimethylpropane | 9.45414E-06 | 0.00697092 | 0.00690672 | 0.00681882 * | 4.18594E-06 |
| 2-Methylpentane | 3.95533E-05 | 0.0191928 | 0.0190164 | 0.0187746 * | 1.75127E-05 |
| 3-Methylpentane | 2.38614E-05 | 0.0116383 | 0.0115312 | 0.0113848 * | 1.05649E-05 |
| 2,3-Dimethylbutane | 7.13945E-06 | 0.00336603 | 0.00333523 | 0.0032925 * | 3.16107E-06 |
| 1,1-Dimethylcyclopentane | 5.48016E-06 | 0.000868539 | 0.000860567 | 0.000849969 * | 2.42647E-06 |
| 2,3-Dimethylpentane | 1.52395E-07 | 0.000285165 | 0.000282463 | 0.000278974 * | 6.74744E-08 |
| 2-Methylhexane | 3.21335E-07 | 0.000622009 | 0.000616382 | 0.000608124 * | 1.42274E-07 |
| cis-1,3-Dimethylcyclopentane | 1.13672E-06 | 0.000166217 | 0.000164762 | 0.000162568 * | 5.0331E-07 |
| trans-1,3-Dimethylcyclopentane | 1.1869E-06 | 0.000146344 | 0.000144814 | 0.000143501 * | 5.2553E-07 |
| 2,2,4-Trimethylpentane | 6.76673E-08 | 0.000160057 | 0.00015856 | 0.000156547 * | 2.99602E-08 |
| 2-Methylheptane | 2.05457E-08 | 3.28474E-05 | 3.25516E-05 | 3.21122E-05 * | 9.09681E-09 |
| cis-1,2-Dimethylcyclohexane | 8.3952E-08 | 1.56832E-05 | 1.57442E-05 | 1.50526E-05 * | 3.71713E-08 |
| m-Xylene | 0.000111597 | 4.97392E-05 | 4.97774E-05 | 5.21823E-05 * | 4.95642E-05 |
| p-Xylene | 0.000117792 | 5.16401E-05 | 5.17224E-05 | 5.41893E-05 * | 5.23154E-05 |
| Ethylcyclohexane | 8.56599E-07 | 0.000101613 | 0.000100746 | 9.9347E-05 * | 3.79279E-07 |
| H2O | 5.98759 | 0.159878 | 0.147479 | 0 * | 58.2693 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 * | 0 |
| MDEA | 3.282E-08 | 4.63301E-08 | 1.63841E-08 | 0 * | 0.0319621 |
| Piperazine | 0 | 0 | 0 | 0 * | 0 |

| Mass Fraction | Acid Gas to AGI-1 Injection Compression % | Blended RH AGI Treated Outlet to RH South % | From AGI-2 Treated Outlet % | Red Hills AGI-1 - Amine Inlet % | R8 % |
|---|---|---|---|---|---|
| H2S | 6.29647 | 0.000443597 | 0.000330413 | 0.426061 * | 4.0836 |
| CO2 | 90.7586 | 6.91941 | 8.56668 | 10.307 * | 58.7183 |
| N2 | 0.000433864 | 1.81747 | 1.78531 | 1.74362 * | 0.000280258 |
| C1 | 0.146142 | 50.3481 | 49.4605 | 48.3526 * | 0.0944036 |
| C2 | 0.0971064 | 14.8248 | 14.5648 | 14.2437 * | 0.0627284 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-1 Amine Treating | | |

| Mass Fraction | Acid Gas to AGI-1 Injection Compression % | Blended RH AGI Treated Outlet to RH South % | From AGI-2 Treated Outlet % | Red Hills AGI-1 - Amine Inlet % | R8 % |
|---|---|---|---|---|---|
| C3 | 0.0507283 | 13.0056 | 12.7769 | 12.4878 * | 0.0327689 |
| iC4 | 0.00645475 | 2.94608 | 2.89417 | 2.82753 * | 0.00416951 |
| nC4 | 0.0285721 | 6.69847 | 6.58073 | 6.43128 * | 0.0184566 |
| iC5 | 0.00171525 | 1.72194 | 1.69157 | 1.652 * | 0.00110797 |
| nC5 | 0.00183457 | 1.13509 | 1.11509 | 1.08916 * | 0.00118506 |
| C6 | 0.000191859 | 0.178282 | 0.175139 | 0.171033 * | 0.000123932 |
| n-Heptane | 1.34525E-05 | 0.0501939 | 0.0493077 | 0.0481399 * | 8.68963E-06 |
| n-Octane | 3.31848E-06 | 0.0106093 | 0.0104216 | 0.0101756 * | 2.14357E-06 |
| Methylcyclopentane | 0.000181381 | 0.0281173 | 0.0276245 | 0.0269973 * | 0.000117169 |
| Benzene | 0.012859 | 0.0089876 | 0.00892286 | 0.00936502 * | 0.00833449 |
| Cyclohexane | 0.000358373 | 0.0153628 | 0.0150959 | 0.0147735 * | 0.000231512 |
| Methylcyclohexane | 7.72017E-06 | 0.00147602 | 0.00144951 | 0.00141768 * | 4.98704E-06 |
| Toluene | 0.00288446 | 0.00218716 | 0.00217477 | 0.00225685 * | 0.00186796 |
| 2,2-Dimethylpropane | 1.64073E-05 | 0.0219598 | 0.0215723 | 0.0210672 * | 1.05984E-05 |
| 2-Methylpentane | 8.19883E-05 | 0.0722158 | 0.0709424 | 0.0692821 * | 5.29606E-05 |
| 3-Methylpentane | 4.94612E-05 | 0.0437908 | 0.0430182 | 0.0420122 * | 3.19496E-05 |
| 2,3-Dimethylbutane | 1.47991E-05 | 0.0126652 | 0.0124424 | 0.01215 * | 9.5595E-06 |
| 1,1-Dimethylcyclopentane | 1.29428E-05 | 0.00372348 | 0.00365788 | 0.00357372 * | 8.36067E-06 |
| 2,3-Dimethylpentane | 3.67311E-07 | 0.00124762 | 0.00122527 | 0.00119704 * | 2.37264E-07 |
| 2-Methylhexane | 7.745E-07 | 0.00272134 | 0.00267375 | 0.00260937 * | 5.00287E-07 |
| cis-1,3-Dimethylcyclopentane | 2.68467E-06 | 0.000712583 | 0.000700331 | 0.000683522 * | 1.73422E-06 |
| trans-1,3-Dimethylcyclopentane | 2.80317E-06 | 0.000627386 | 0.000615539 | 0.000603356 * | 1.81077E-06 |
| 2,2,4-Trimethylpentane | 1.85926E-07 | 0.000798286 | 0.000784088 | 0.00076575 * | 1.20098E-07 |
| 2-Methylheptane | 5.64525E-08 | 0.000163827 | 0.000160969 | 0.000157077 * | 3.64654E-08 |
| cis-1,2-Dimethylcyclohexane | 2.266E-07 | 7.68399E-05 | 7.64819E-05 | 7.23304E-05 * | 1.46375E-07 |
| m-Xylene | 0.000284984 | 0.000230563 | 0.000228775 | 0.000237231 * | 0.000184657 |
| p-Xylene | 0.000300803 | 0.000239375 | 0.000237714 | 0.000246356 * | 0.000194907 |
| Ethylcyclohexane | 2.3121E-06 | 0.000497852 | 0.000489403 | 0.00047738 * | 1.49354E-06 |
| H2O | 2.59465 | 0.125759 | 0.115018 | 0 * | 36.8382 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 * | 0 |
| MDEA | 9.40727E-08 | 2.41052E-07 | 8.45193E-08 | 0 * | 0.133657 |
| Piperazine | 0 | 0 | 0 | 0 * | 0 |

| Mass Flow | Acid Gas to AGI-1 Injection Compression lb/h | Blended RH AGI Treated Outlet to RH South lb/h | From AGI-2 Treated Outlet lb/h | Red Hills AGI-1 - Amine Inlet lb/h | R8 lb/h |
|---|---|---|---|---|---|
| H2S | 763.39 | 1.86386 | 0.834574 | 764.469 * | 766.472 |
| CO2 | 11003.6 | 29073.2 | 21638.2 | 18493.5 * | 11021.1 |
| N2 | 0.052602 | 7636.46 | 4509.43 | 3128.53 * | 0.0526032 |
| C1 | 17.7183 | 211547 | 124930 | 86757.7 * | 17.7191 |
| C2 | 11.7733 | 62289.3 | 36788.5 | 25557 * | 11.7738 |
| C3 | 6.15034 | 54645.5 | 32272.5 | 22406.5 * | 6.15057 |
| iC4 | 0.782579 | 12378.5 | 7310.23 | 5073.36 * | 0.782598 |
| nC4 | 3.4641 | 28145 | 16621.9 | 11539.4 * | 3.46423 |
| iC5 | 0.207958 | 7235.05 | 4272.65 | 2964.14 * | 0.207962 |
| nC5 | 0.222425 | 4769.31 | 2816.55 | 1954.24 * | 0.22243 |
| C6 | 0.0232611 | 749.086 | 442.374 | 306.88 * | 0.0232614 |
| n-Heptane | 0.00163099 | 210.899 | 124.544 | 86.3761 * | 0.001631 |
| n-Octane | 0.000402336 | 44.5771 | 26.3235 | 18.2578 * | 0.000402338 |
| Methylcyclopentane | 0.0219908 | 118.14 | 69.7753 | 48.4405 * | 0.0219921 |
| Benzene | 1.55904 | 37.7632 | 22.5378 | 16.8034 * | 1.56434 |
| Cyclohexane | 0.0434494 | 64.5497 | 38.1299 | 26.5076 * | 0.0434538 |
| Methylcyclohexane | 0.000936 | 6.2018 | 3.66125 | 2.54369 * | 0.000936045 |
| Toluene | 0.349714 | 9.18977 | 5.49314 | 4.0494 * | 0.350608 |
| 2,2-Dimethylpropane | 0.00198924 | 92.2686 | 54.4883 | 37.8002 * | 0.00198926 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-1 Amine Treating | | |

| Mass Flow | Acid Gas to AGI-1 Injection Compression lb/h | Blended RH AGI Treated Outlet to RH South lb/h | From AGI-2 Treated Outlet lb/h | Red Hills AGI-1 - Amine Inlet lb/h | R8 lb/h |
|---|---|---|---|---|---|
| 2-Methylpentane | 0.00994033 | 303.429 | 179.19 | 124.311 * | 0.00994046 |
| 3-Methylpentane | 0.00599672 | 183.996 | 108.658 | 75.3812 * | 0.0059968 |
| 2,3-Dimethylbutane | 0.00179425 | 53.2152 | 31.4277 | 21.8004 * | 0.00179427 |
| 1,1-Dimethylcyclopentane | 0.0015692 | 15.645 | 9.23926 | 6.41223 * | 0.00156926 |
| 2,3-Dimethylpentane | 4.45331E-05 | 5.24211 | 3.09486 | 2.14781 * | 4.45334E-05 |
| 2-Methylhexane | 9.3901E-05 | 11.4342 | 6.7535 | 4.68192 * | 9.39016E-05 |
| cis-1,3-Dimethylcyclopentane | 0.000325491 | 2.99406 | 1.76893 | 1.22642 * | 0.000325504 |
| trans-1,3-Dimethylcyclopentane | 0.000339858 | 2.63609 | 1.55476 | 1.08258 * | 0.000339874 |
| 2,2,4-Trimethylpentane | 2.25418E-05 | 3.35416 | 1.98049 | 1.37396 * | 2.25419E-05 |
| 2-Methylheptane | 6.84435E-06 | 0.688352 | 0.406584 | 0.281838 * | 6.84439E-06 |
| cis-1,2-Dimethylcyclohexane | 2.74731E-05 | 0.322858 | 0.193182 | 0.12978 * | 2.74739E-05 |
| m-Xylene | 0.0345517 | 0.968757 | 0.577851 | 0.425657 * | 0.0346593 |
| p-Xylene | 0.0364697 | 1.00578 | 0.600431 | 0.442029 * | 0.0365832 |
| Ethylcyclohexane | 0.00028032 | 2.09182 | 1.23616 | 0.85655 * | 0.000280331 |
| H2O | 314.578 | 528.403 | 290.519 | 0 * | 6914.36 |
| CHEMTHERM 550 | 0 | 0 | 0 | 0 * | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 | 0 * | 0 |
| MDEA | 1.14054E-05 | 0.00101283 | 0.000213483 | 0 * | 25.0868 |
| Piperazine | 0 | 0 | 0 | 0 * | 0 |

## Stream Properties

| Property | Units | Acid Gas to AGI-1 Injection Compression | Blended RH AGI Treated Outlet to RH South | From AGI-2 Treated Outlet | Red Hills AGI-1 - Amine Inlet | R8 |
|---|---|---|---|---|---|---|
| Temperature | °F | 119.862 | 108.211 | 105.461 | 90 * | 226.255 |
| Pressure | psig | 13 | 927 | 928 | 950 * | 15 |
| Molecular Weight | lb/lbmol | 41.5732 | 22.9029 | 23.0996 | 23.3524 | 28.4959 |
| Mass Density | lb/ft^3 | 0.186774 | 4.41409 | 4.50351 | 4.97567 | 0.116127 |
| Mass Flow | lb/h | 12124.1 | 420170 | 252585 | 179427 | 18769.5 |
| Std Vapor Volumetric Flow | MMSCFD | 2.65607 | 167.086 | 99.5882 | 69.9779 | 5.99896 |
| Std Liquid Volumetric Flow | sgpm | 29.6872 | 2250.5 | 1339.95 | 940.506 | 42.9793 |
| Specific Gravity | | 1.43541 | | 0.79757 | 0.806299 | 0.98389 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 60.5964 | 1261.75 | 1250.18 | 1237.29 | 56.1475 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-1 Amine Treating | | |

## Connections

| | Treated Flash Gas | | | | |
|---|---|---|---|---|---|
| From Block | Flash Gas Contactor | | | | |
| To Block | -- | | | | |

## Stream Composition

| Mole Fraction | Treated Flash Gas % | | | | |
|---|---|---|---|---|---|
| H2S | 0.0185757 | | | | |
| CO2 | 10.7705 | | | | |
| N2 | 0.449209 | | | | |
| C1 | 65.9752 | | | | |
| C2 | 12.8046 | | | | |
| C3 | 5.37155 | | | | |
| iC4 | 0.638785 | | | | |
| nC4 | 1.92929 | | | | |
| iC5 | 0.182659 | | | | |
| nC5 | 0.150868 | | | | |
| C6 | 0.0145637 | | | | |
| n-Heptane | 0.00164325 | | | | |
| n-Octane | 0.000290423 | | | | |
| Methylcyclopentane | 0.00551075 | | | | |
| Benzene | 0.00209969 | | | | |
| Cyclohexane | 0.00456529 | | | | |
| Methylcyclohexane | 0.000194653 | | | | |
| Toluene | 0.000288504 | | | | |
| 2,2-Dimethylpropane | 0.00215901 | | | | |
| 2-Methylpentane | 0.0062068 | | | | |
| 3-Methylpentane | 0.00374603 | | | | |
| 2,3-Dimethylbutane | 0.00111416 | | | | |
| 1,1-Dimethylcyclopentane | 0.000438349 | | | | |
| 2,3-Dimethylpentane | 4.44438E-05 | | | | |
| 2-Methylhexane | 9.40546E-05 | | | | |
| cis-1,3-Dimethylcyclopentane | 8.56965E-05 | | | | |
| trans-1,3-Dimethylcyclopentane | 8.08644E-05 | | | | |
| 2,2,4-Trimethylpentane | 2.05225E-05 | | | | |
| 2-Methylheptane | 4.82669E-06 | | | | |
| cis-1,2-Dimethylcyclohexane | 5.92349E-06 | | | | |
| m-Xylene | 1.63232E-05 | | | | |
| p-Xylene | 1.70202E-05 | | | | |
| Ethylcyclohexane | 4.65014E-05 | | | | |
| H2O | 1.66528 | | | | |
| CHEMTHERM 550 | 0 | | | | |
| UCARSOL™ AP-814 | 0 | | | | |
| MDEA | 0.000244473 | | | | |
| Piperazine | 0 | | | | |

| Mass Fraction | Treated Flash Gas % | | | | |
|---|---|---|---|---|---|
| H2S | 0.0266607 | | | | |
| CO2 | 19.9617 | | | | |
| N2 | 0.529944 | | | | |
| C1 | 44.5725 | | | | |
| C2 | 16.2144 | | | | |
| C3 | 9.97493 | | | | |
| iC4 | 1.56355 | | | | |
| nC4 | 4.72232 | | | | |
| iC5 | 0.55499 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-1 Amine Treating | | |

| Mass Fraction | Treated Flash Gas % | | | | |
|---|---|---|---|---|---|
| nC5 | 0.458395 | | | | |
| C6 | 0.0528529 | | | | |
| n-Heptane | 0.00693419 | | | | |
| n-Octane | 0.00139708 | | | | |
| Methylcyclopentane | 0.0195312 | | | | |
| Benzene | 0.00690697 | | | | |
| Cyclohexane | 0.0161803 | | | | |
| Methylcyclohexane | 0.000804872 | | | | |
| Toluene | 0.00111946 | | | | |
| 2,2-Dimethylpropane | 0.00655992 | | | | |
| 2-Methylpentane | 0.022525 | | | | |
| 3-Methylpentane | 0.0135947 | | | | |
| 2,3-Dimethylbutane | 0.00404339 | | | | |
| 1,1-Dimethylcyclopentane | 0.00181253 | | | | |
| 2,3-Dimethylpentane | 0.000187544 | | | | |
| 2-Methylhexane | 0.000396891 | | | | |
| cis-1,3-Dimethylcyclopentane | 0.000354346 | | | | |
| trans-1,3-Dimethylcyclopentane | 0.000334366 | | | | |
| 2,2,4-Trimethylpentane | 9.87234E-05 | | | | |
| 2-Methylheptane | 2.32187E-05 | | | | |
| cis-1,2-Dimethylcyclohexane | 2.7992E-05 | | | | |
| m-Xylene | 7.29796E-05 | | | | |
| p-Xylene | 7.60958E-05 | | | | |
| Ethylcyclohexane | 0.000219747 | | | | |
| H2O | 1.26341 | | | | |
| CHEMTHERM 550 | 0 | | | | |
| UCARSOL™ AP-814 | 0 | | | | |
| MDEA | 0.00122683 | | | | |
| Piperazine | 0 | | | | |

| Mass Flow | Treated Flash Gas lb/h | | | | |
|---|---|---|---|---|---|
| H2S | 0.0731005 | | | | |
| CO2 | 54.7326 | | | | |
| N2 | 1.45304 | | | | |
| C1 | 122.212 | | | | |
| C2 | 44.4579 | | | | |
| C3 | 27.3501 | | | | |
| iC4 | 4.28707 | | | | |
| nC4 | 12.948 | | | | |
| iC5 | 1.52172 | | | | |
| nC5 | 1.25687 | | | | |
| C6 | 0.144916 | | | | |
| n-Heptane | 0.0190127 | | | | |
| n-Octane | 0.00383062 | | | | |
| Methylcyclopentane | 0.0535522 | | | | |
| Benzene | 0.0189381 | | | | |
| Cyclohexane | 0.0443644 | | | | |
| Methylcyclohexane | 0.00220686 | | | | |
| Toluene | 0.00306942 | | | | |
| 2,2-Dimethylpropane | 0.0179865 | | | | |
| 2-Methylpentane | 0.061761 | | | | |
| 3-Methylpentane | 0.037275 | | | | |
| 2,3-Dimethylbutane | 0.0110865 | | | | |
| 1,1-Dimethylcyclopentane | 0.00496974 | | | | |
| 2,3-Dimethylpentane | 0.000514223 | | | | |
| 2-Methylhexane | 0.00108823 | | | | |
| cis-1,3-Dimethylcyclopentane | 0.000971575 | | | | |
| trans-1,3-Dimethylcyclopentane | 0.000916792 | | | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-1 Amine Treating | | |

| Mass Flow | Treated Flash Gas lb/h | | | | |
|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.000270688 | | | | |
| 2-Methylheptane | 6.3663E-05 | | | | |
| cis-1,2-Dimethylcyclohexane | 7.67508E-05 | | | | |
| m-Xylene | 0.000200101 | | | | |
| p-Xylene | 0.000208646 | | | | |
| Ethylcyclohexane | 0.00060252 | | | | |
| H2O | 3.46411 | | | | |
| CHEMTHERM 550 | 0 | | | | |
| UCARSOL™ AP-814 | 0 | | | | |
| MDEA | 0.00336382 | | | | |
| Piperazine | 0 | | | | |

## Stream Properties

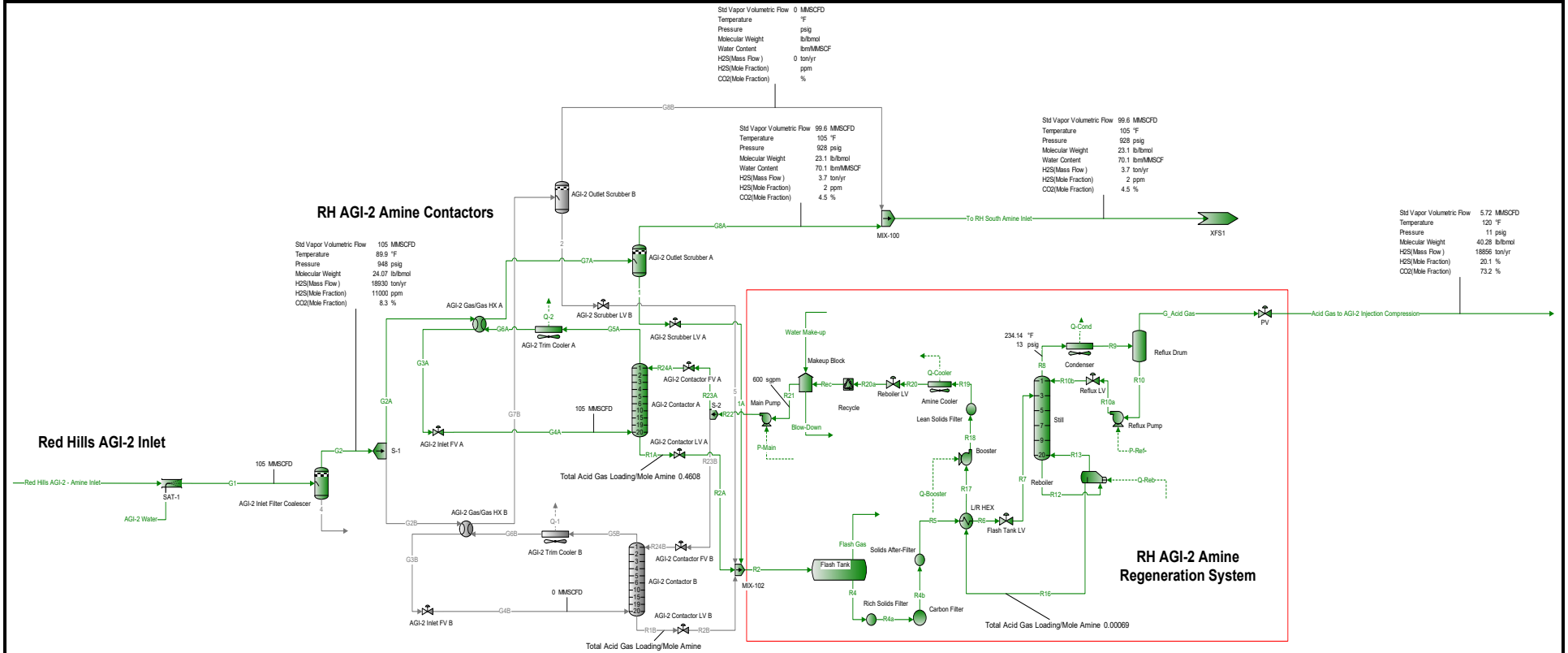
| Property | Units | Treated Flash Gas | | | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 127.022 | | | | |
| Pressure | psig | 95 | | | | |
| Molecular Weight | lb/lbmol | 23.7457 | | | | |
| Mass Density | lb/ft^3 | 0.422884 | | | | |
| Mass Flow | lb/h | 274.188 | | | | |
| Std Vapor Volumetric Flow | MMSCFD | 0.105164 | | | | |
| Std Liquid Volumetric Flow | sgpm | 1.38622 | | | | |
| Specific Gravity | | 0.819878 | | | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1128.15 | | | | |

**Remarks**


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# RH AGI-2 Amine Treating
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | KM | Job: |
| Location: | | |
| Flowsheet: | RH AGI-2 Amine Treating | |




| Names | Units | G1 | G2 | G3A | G3B | G4A | G4B | G5A | G5B | G7A | G7B | G8A | G_Acid Gas |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Temperature | °F | 90 | 89.85 | 108.3 | | 108* | 108* | 140.5 | | 105.5 | | 105.5 | 120 |
| Pressure | psig | 950 | 948 | 943 | 943 | 938 | 938 | 936 | | 929 | | 928 | 12 |
| Mole Fraction Vapor | % | 100 | 100 | 100 | | 100 | | 100 | | 99.81 | | 100 | 100 |
| Mass Flow | lb/h | 2.7746e+05 | 2.7746e+05 | 2.7746e+05 | 0 | 2.7746e+05 | 0 | 2.5296e+05 | 0 | 2.5296e+05 | 0 | 2.5296e+05 | 25300 |
| Std Vapor Volumetric Flow | MMSCFD | 105 | 105* | 105 | 0 | 105 | 0 | 99.78 | 0 | 99.78 | 0 | 99.59 | 5.72 |
| Molecular Weight | lb/lbmol | 24.067 | 24.067 | 24.067 | 24.067 | 24.067 | 24.067 | 23.091 | | 23.091 | | 23.1 | 40.282 |
| Specific Gravity | | 0.831 | 0.831 | 0.831 | | 0.831 | | 0.7973 | | | | 0.7976 | 1.391 |
| CO2(Mole Fraction) | % | 8.297 | 8.297 | 8.297 | 8.297 | 8.297 | 8.297 | 4.489 | | 4.489 | | 4.486 | 73.18 |
| C1(Mole Fraction) | % | 67.646 | 67.646 | 67.646 | 67.646 | 67.646 | 67.646 | 71.085 | | 71.085 | | 71.218 | 0.16203 |

| Names | Units | AGI-2 Gas/Gas HX A - A | AGI-2 Gas/Gas HX B - B |
|---|---|---|---|
| Energy Rate | MMBtu/h | 3.1484 | 0 |
| Effective UA | Btu/(h*°F) | 193910 | |

| Names | Units | AGI-2 Gas/Gas HX A - A |
|---|---|---|
| Energy Rate | MMBtu/h | 3.15 |
| Minimum End Approach Temperature | °F | 15.7 |

* User Specified Values
? Extrapolated or Approximate Values

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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-2 Amine Treating | | |

## Connections

| | Acid Gas to AGI-2 Injection Compression | Flash Gas | Red Hills AGI-2 - Amine Inlet | R8 | To RH South Amine Inlet |
|---|---|---|---|---|---|
| From Block | PV | Flash Tank | -- | Still | MIX-100 |
| To Block | -- | -- | SAT-1 | Condenser | XFS1 |

## Stream Composition

| Mole Fraction | Acid Gas to AGI-2 Injection Compression % | Flash Gas % | Red Hills AGI-2 - Amine Inlet % | R8 % | To RH South Amine Inlet % |
|---|---|---|---|---|---|
| H2S | 20.1122 | 2.36618 | 1.1003 * | 4.5083 | 0.00022395 |
| CO2 | 73.1764 | 26.8876 | 8.3 * | 16.3165 | 4.49646 |
| N2 | 0.000372368 | 0.375301 | 1.39738 * | 8.27995E-05 | 1.47215 |
| C1 | 0.182029 | 51.3443 | 67.6671 * | 0.0404781 | 71.2183 |
| C2 | 0.0542177 | 9.45843 | 10.6348 * | 0.0120566 | 11.189 |
| C3 | 0.0187378 | 3.91654 | 6.35797 * | 0.00416669 | 6.6932 |
| iC4 | 0.00176156 | 0.459274 | 1.09218 * | 0.0003917 | 1.15023 |
| nC4 | 0.00760847 | 1.3943 | 2.48418 * | 0.00169187 | 2.61539 |
| iC5 | 0.000309369 | 0.119974 | 0.514055 * | 6.87902E-05 | 0.541583 |
| nC5 | 0.000344555 | 0.101691 | 0.338913 * | 7.66148E-05 | 0.357014 |
| C6 | 2.57076E-05 | 0.00915508 | 0.044558 * | 5.71618E-06 | 0.0469465 |
| n-Heptane | 1.48188E-06 | 0.00099868 | 0.0107863 * | 3.29496E-07 | 0.0113669 |
| n-Octane | 3.15176E-07 | 0.000176414 | 0.00199982 * | 7.00791E-08 | 0.00210749 |
| Methylcyclopentane | 3.04396E-05 | 0.0039625 | 0.00720214 * | 6.76912E-06 | 0.00758221 |
| Benzene | 0.00320557 | 0.00765946 | 0.00269134 * | 0.000719014 | 0.00263871 |
| Cyclohexane | 6.321E-05 | 0.00366539 | 0.00394085 * | 1.40582E-05 | 0.00414343 |
| Methylcyclohexane | 1.04968E-06 | 0.00013803 | 0.000323837 * | 2.33421E-07 | 0.000341018 |
| Toluene | 0.000559937 | 0.00129467 | 0.000550025 * | 0.000125322 | 0.000545227 |
| 2,2-Dimethylpropane | 3.17064E-06 | 0.00144802 | 0.00655547 * | 7.05002E-07 | 0.00690672 |
| 2-Methylpentane | 1.09777E-05 | 0.00388902 | 0.0180492 * | 2.44092E-06 | 0.0190164 |
| 3-Methylpentane | 6.62257E-06 | 0.0023473 | 0.0109447 * | 1.47255E-06 | 0.0115312 |
| 2,3-Dimethylbutane | 1.97434E-06 | 0.000697613 | 0.00316564 * | 4.39001E-07 | 0.00333523 |
| 1,1-Dimethylcyclopentane | 1.64375E-06 | 0.00029537 | 0.000817067 * | 3.65516E-07 | 0.000860567 |
| 2,3-Dimethylpentane | 4.02331E-08 | 2.68702E-05 | 0.000268038 * | 8.94582E-09 | 0.000282463 |
| 2-Methylhexane | 8.50896E-08 | 5.70216E-05 | 0.0005849 * | 1.89197E-08 | 0.000616382 |
| cis-1,3-Dimethylcyclopentane | 3.4365E-07 | 5.82331E-05 | 0.000156438 * | 7.64171E-08 | 0.000164762 |
| trans-1,3-Dimethylcyclopentane | 3.49412E-07 | 5.46288E-05 | 0.000137506 * | 7.76997E-08 | 0.000144814 |
| 2,2,4-Trimethylpentane | 2.12812E-08 | 1.34882E-05 | 0.00015046 * | 4.73184E-09 | 0.00015856 |
| 2-Methylheptane | 5.60465E-09 | 3.00297E-06 | 3.08891E-05 * | 1.24619E-09 | 3.25516E-05 |
| cis-1,2-Dimethylcyclohexane | 2.73406E-08 | 4.29423E-06 | 1.49463E-05 * | 6.07952E-09 | 1.57442E-05 |
| m-Xylene | 4.46955E-05 | 9.2473E-05 | 4.98211E-05 * | 1.00178E-05 | 4.97774E-05 |
| p-Xylene | 4.72394E-05 | 9.76141E-05 | 5.1814E-05 * | 1.0588E-05 | 5.17224E-05 |
| Ethylcyclohexane | 2.75063E-07 | 3.36048E-05 | 9.56566E-05 * | 6.11651E-08 | 0.000100746 |
| H2O | 6.44195 | 3.53977 | 0 * | 79.1015 | 0.147479 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 3.8944E-09 | 0.000509955 | 0 * | 0.0138503 | 1.63841E-08 |
| Piperazine | 0 | 0 | 0 * | 0 | 0 |

| Mass Fraction | Acid Gas to AGI-2 Injection Compression % | Flash Gas % | Red Hills AGI-2 - Amine Inlet % | R8 % | To RH South Amine Inlet % |
|---|---|---|---|---|---|
| H2S | 17.0159 | 2.93683 | 1.558 * | 6.68084 | 0.000330413 |
| CO2 | 79.9467 | 43.094 | 15.1765 * | 31.2234 | 8.56668 |
| N2 | 0.000258953 | 0.382882 | 1.6264 * | 0.000100856 | 1.78531 |
| C1 | 0.0724928 | 29.9973 | 45.1019 * | 0.0282357 | 49.4605 |
| C2 | 0.040471 | 10.3576 | 13.2861 * | 0.0157635 | 14.5648 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-2 Amine Treating | | |

| Mass Fraction | Acid Gas to AGI-2 Injection Compression % | Flash Gas % | Red Hills AGI-2 - Amine Inlet % | R8 % | To RH South Amine Inlet % |
|---|---|---|---|---|---|
| C3 | 0.0205115 | 6.28952 | 11.6482 * | 0.00798902 | 12.7769 |
| iC4 | 0.00254169 | 0.97215 | 2.63744 * | 0.000989927 | 2.89417 |
| nC4 | 0.010978 | 2.95133 | 5.9989 * | 0.00427579 | 6.58073 |
| iC5 | 0.000554101 | 0.315234 | 1.54094 * | 0.000215806 | 1.69157 |
| nC5 | 0.000617121 | 0.267197 | 1.01593 * | 0.000240353 | 1.11509 |
| C6 | 5.49956E-05 | 0.0287319 | 0.159535 * | 2.14188E-05 | 0.175139 |
| n-Heptane | 3.68614E-06 | 0.00364436 | 0.0449049 * | 1.4356E-06 | 0.0493077 |
| n-Octane | 8.93738E-07 | 0.000733883 | 0.009491 * | 3.48073E-07 | 0.0104216 |
| Methylcyclopentane | 6.35952E-05 | 0.0121448 | 0.0251832 * | 2.4771E-05 | 0.0276245 |
| Benzene | 0.00621592 | 0.0217888 | 0.00873437 * | 0.00244209 | 0.00892286 |
| Cyclohexane | 0.00013206 | 0.0112342 | 0.0137797 * | 5.14445E-05 | 0.0150959 |
| Methylcyclohexane | 2.55853E-06 | 0.000493564 | 0.00132106 * | 9.96547E-07 | 0.00144951 |
| Toluene | 0.00128075 | 0.00434431 | 0.00210557 * | 0.000502082 | 0.00217477 |
| 2,2-Dimethylpropane | 5.67882E-06 | 0.00380471 | 0.0196507 * | 2.2117E-06 | 0.0215723 |
| 2-Methylpentane | 2.34843E-05 | 0.0122051 | 0.064623 * | 9.14628E-06 | 0.0709424 |
| 3-Methylpentane | 1.41675E-05 | 0.00736667 | 0.0391862 * | 5.51773E-06 | 0.0430182 |
| 2,3-Dimethylbutane | 4.22365E-06 | 0.00218936 | 0.0113342 * | 1.64496E-06 | 0.0124424 |
| 1,1-Dimethylcyclopentane | 4.00652E-06 | 0.00105617 | 0.00333314 * | 1.5605E-06 | 0.00365788 |
| 2,3-Dimethylpentane | 1.00079E-07 | 9.80542E-05 | 0.00111588 * | 3.89766E-08 | 0.00122527 |
| 2-Methylhexane | 2.11658E-07 | 0.000208082 | 0.00243503 * | 8.24322E-08 | 0.00267375 |
| cis-1,3-Dimethylcyclopentane | 8.37624E-07 | 0.000208228 | 0.000638174 * | 3.26248E-07 | 0.000700331 |
| trans-1,3-Dimethylcyclopentane | 8.51669E-07 | 0.00019534 | 0.000560943 * | 3.31724E-07 | 0.000615539 |
| 2,2,4-Trimethylpentane | 6.03467E-08 | 5.61108E-05 | 0.000714071 * | 2.35024E-08 | 0.000784088 |
| 2-Methylheptane | 1.5893E-08 | 1.24924E-05 | 0.000146597 * | 6.18966E-09 | 0.000160969 |
| cis-1,2-Dimethylcyclohexane | 7.61609E-08 | 1.75487E-05 | 6.96824E-05 * | 2.96632E-08 | 7.64819E-05 |
| m-Xylene | 0.000117795 | 0.000357532 | 0.000219756 * | 4.62447E-05 | 0.000228775 |
| p-Xylene | 0.0001245 | 0.00037741 | 0.000228547 * | 4.88768E-05 | 0.000237714 |
| Ethylcyclohexane | 7.66225E-07 | 0.000137329 | 0.000445967 * | 2.98437E-07 | 0.000489403 |
| H2O | 2.88098 | 2.32239 | 0 * | 61.9631 | 0.115018 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 1.15203E-08 | 0.00221304 | 0 * | 0.0717639 | 8.45193E-08 |
| Piperazine | 0 | 0 | 0 * | 0 | 0 |

| Mass Flow | Acid Gas to AGI-2 Injection Compression lb/h | Flash Gas lb/h | Red Hills AGI-2 - Amine Inlet lb/h | R8 lb/h | To RH South Amine Inlet lb/h |
|---|---|---|---|---|---|
| H2S | 4305.05 | 15.9567 | 4321.84 * | 4340.12 | 0.834574 |
| CO2 | 20226.7 | 234.143 | 42099 * | 20283.9 | 21638.2 |
| N2 | 0.0655158 | 2.08031 | 4511.58 * | 0.0655197 | 4509.43 |
| C1 | 18.3409 | 162.984 | 125111 * | 18.343 | 124930 |
| C2 | 10.2393 | 56.2758 | 36855.1 * | 10.2406 | 36788.5 |
| C3 | 5.18946 | 34.1728 | 32311.8 * | 5.18997 | 32272.5 |
| iC4 | 0.643054 | 5.28199 | 7316.16 * | 0.643093 | 7310.23 |
| nC4 | 2.77745 | 16.0355 | 16640.7 * | 2.77771 | 16621.9 |
| iC5 | 0.140189 | 1.71276 | 4274.5 * | 0.140195 | 4272.65 |
| nC5 | 0.156133 | 1.45176 | 2818.16 * | 0.156142 | 2816.55 |
| C6 | 0.013914 | 0.156109 | 442.544 * | 0.0139145 | 442.374 |
| n-Heptane | 0.000932602 | 0.0198009 | 124.565 * | 0.00093262 | 124.544 |
| n-Octane | 0.000226118 | 0.00398741 | 26.3277 * | 0.000226121 | 26.3235 |
| Methylcyclopentane | 0.0160897 | 0.0659865 | 69.8574 * | 0.0160921 | 69.7753 |
| Benzene | 1.57264 | 0.118385 | 24.2288 * | 1.58647 | 22.5378 |
| Cyclohexane | 0.0334115 | 0.0610388 | 38.2244 * | 0.0334203 | 38.1299 |
| Methylcyclohexane | 0.000647314 | 0.00268168 | 3.66458 * | 0.000647394 | 3.66125 |
| Toluene | 0.324032 | 0.0236039 | 5.84078 * | 0.326171 | 5.49314 |
| 2,2-Dimethylpropane | 0.00143676 | 0.0206721 | 54.5105 * | 0.0014368 | 54.4883 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-2 Amine Treating | | |

| Mass Flow | Acid Gas to AGI-2 Injection Compression lb/h | Flash Gas lb/h | Red Hills AGI-2 - Amine Inlet lb/h | R8 lb/h | To RH South Amine Inlet lb/h |
|---|---|---|---|---|---|
| 2-Methylpentane | 0.00594157 | 0.0663142 | 179.262 * | 0.00594177 | 179.19 |
| 3-Methylpentane | 0.00358441 | 0.0400254 | 108.701 * | 0.00358452 | 108.658 |
| 2,3-Dimethylbutane | 0.00106859 | 0.0118954 | 31.4406 * | 0.00106863 | 31.4277 |
| 1,1-Dimethylcyclopentane | 0.00101366 | 0.00573852 | 9.24602 * | 0.00101376 | 9.23926 |
| 2,3-Dimethylpentane | 2.53202E-05 | 0.000532758 | 3.09542 * | 2.53206E-05 | 3.09486 |
| 2-Methylhexane | 5.355E-05 | 0.00113057 | 6.75469 * | 5.3551E-05 | 6.7535 |
| cis-1,3-Dimethylcyclopentane | 0.000211921 | 0.00113136 | 1.77027 * | 0.000211943 | 1.76893 |
| trans-1,3-Dimethylcyclopentane | 0.000215474 | 0.00106134 | 1.55604 * | 0.0002155 | 1.55476 |
| 2,2,4-Trimethylpentane | 1.52679E-05 | 0.000304867 | 1.98081 * | 1.5268E-05 | 1.98049 |
| 2-Methylheptane | 4.02097E-06 | 6.78748E-05 | 0.406656 * | 4.02103E-06 | 0.406584 |
| cis-1,2-Dimethylcyclohexane | 1.92689E-05 | 9.53477E-05 | 0.193296 * | 1.92703E-05 | 0.193182 |
| m-Xylene | 0.0298025 | 0.00194258 | 0.609596 * | 0.0300423 | 0.577851 |
| p-Xylene | 0.0314987 | 0.00205058 | 0.63398 * | 0.0317522 | 0.600431 |
| Ethylcyclohexane | 0.000193857 | 0.000746149 | 1.2371 * | 0.000193876 | 1.23616 |
| H2O | 728.896 | 12.6183 | 0 * | 40253.5 | 290.519 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 2.91465E-06 | 0.0120241 | 0 * | 46.6205 | 0.000213483 |
| Piperazine | 0 | 0 | 0 * | 0 | 0 |

## Stream Properties

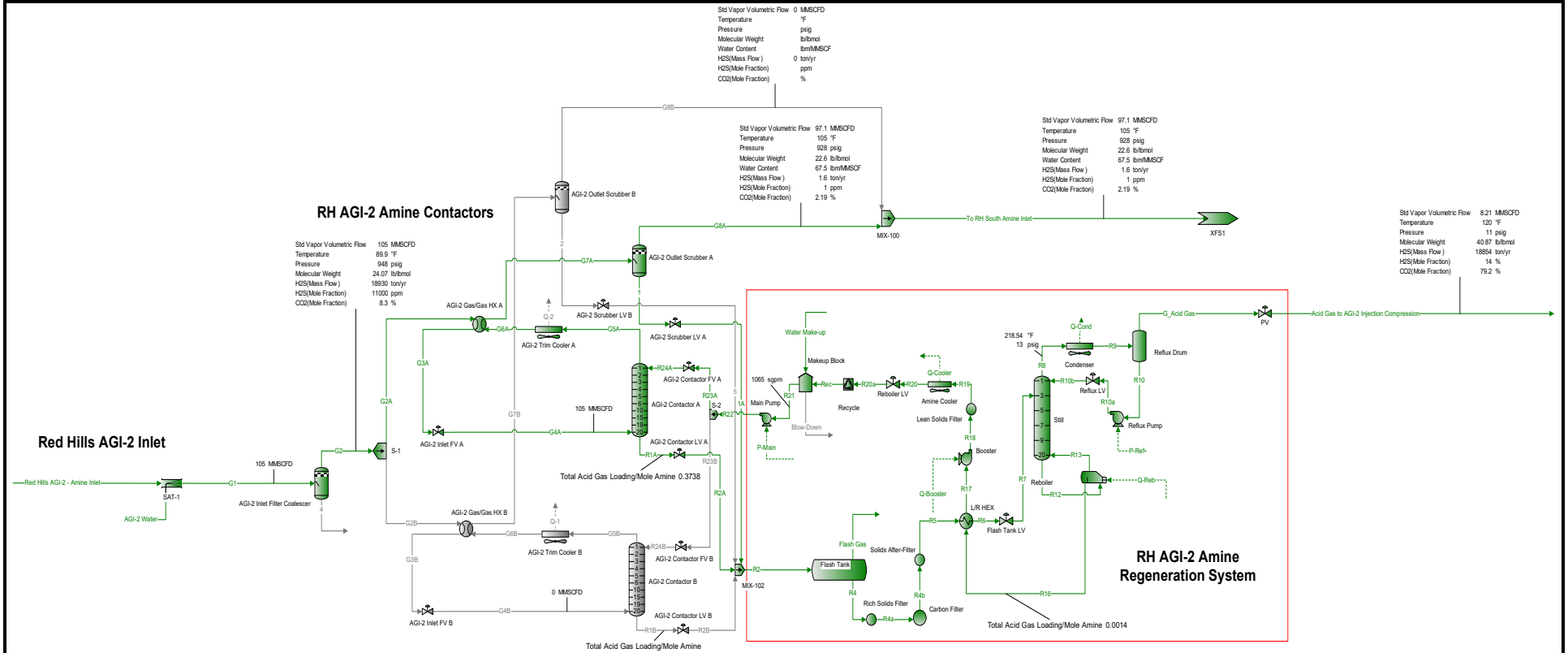
| Property | Units | Acid Gas to AGI-2 Injection Compression | Flash Gas | Red Hills AGI-2 - Amine Inlet | R8 | To RH South Amine Inlet |
|---|---|---|---|---|---|---|
| Temperature | °F | 119.888 | 157.921 | 90 * | 234.142 | 105.461 |
| Pressure | psig | 11 | 95 | 950 * | 13 | 928 |
| Molecular Weight | lb/lbmol | 40.2826 | 27.4588 | 24.0688 | 22.9981 | 23.0996 |
| Mass Density | lb/ft^3 | 0.167847 | 0.463384 | 5.15194 | 0.0865754 | 4.50351 |
| Mass Flow | lb/h | 25300.2 | 543.33 | 277397 | 64963.7 | 252585 |
| Std Vapor Volumetric Flow | MMSCFD | 5.72021 | 0.180214 | 104.967 | 25.7266 | 99.5882 |
| Std Liquid Volumetric Flow | sgpm | 61.9293 | 2.26551 | 1402.08 | 141.259 | 1339.95 |
| Specific Gravity | | 1.39085 | 0.94808 | 0.831032 | 0.794066 | 0.79757 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 135.134 | 872.302 | 1194.73 | 69.8952 | 1250.18 |

**Remarks**


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# RH AGI-2 Amine Treating
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | KM | Job: |
| Location: | | |
| Flowsheet: | RH AGI-2 Amine Treating | |




| Names | Units | G1 | G2 | G3A | G3B | G4A | G4B | G5A | G5B | G7A | G7B | G8A | G_Acid Gas |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Temperature | °F | 90 | 89.85 | 108.3 | | 108* | 108* | 125.1 | | 104.6 | | 104.5 | 120 |
| Pressure | psig | 950 | 948 | 943 | 943 | 938 | 938 | 936 | | 929 | | 928 | 12 |
| Mole Fraction Vapor | % | 100 | 100 | 100 | | 100 | | 100 | | 99.93 | | 100 | 100 |
| Mass Flow | lb/h | 2.7746e+05 | 2.7746e+05 | 2.7746e+05 | 0 | 2.7746e+05 | 0 | 2.4102e+05 | 0 | 2.4087e+05 | 0 | 2.4087e+05 | 38629 |
| Std Vapor Volumetric Flow | MMSCFD | 105 | 105* | 105 | 0 | 105 | 0 | 97.16 | 0 | 97.16 | 0 | 97.09 | 8.208 |
| Molecular Weight | lb/lbmol | 24.067 | 24.067 | 24.067 | 24.067 | 24.067 | 24.067 | 22.592 | | 22.592 | | 22.595 | 40.866 |
| Specific Gravity | | 0.831 | 0.831 | 0.831 | | 0.831 | | 0.78 | | | | 0.7801 | 1.411 |
| CO2(Mole Fraction) | % | 8.297 | 8.297 | 8.297 | 8.297 | 8.297 | 8.297 | 2.188 | | 2.188 | | 2.19 | 79.16 |
| C1(Mole Fraction) | % | 67.646 | 67.646 | 67.646 | 67.646 | 67.646 | 67.646 | 72.693 | | 72.693 | | 72.948 | 0.25073 |

| Names | Units | AGI-2 Gas/Gas HX A - A | AGI-2 Gas/Gas HX B - B |
|---|---|---|---|
| Energy Rate | MMBtu/h | 3.1484 | 0 |
| Effective UA | Btu/(h*°F) | 201576 | |

| Names | Units | AGI-2 Gas/Gas HX A - A |
|---|---|---|
| Energy Rate | MMBtu/h | 3.15 |
| Minimum End Approach Temperature | °F | 14.8 |

* User Specified Values
? Extrapolated or Approximate Values

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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-2 Amine Treating | | |

## Connections

| | Acid Gas to AGI-2 Injection Compression | Flash Gas | Red Hills AGI-2 - Amine Inlet | R8 | To RH South Amine Inlet |
|---|---|---|---|---|---|
| From Block | PV | Flash Tank | -- | Still | MIX-100 |
| To Block | -- | -- | SAT-1 | Condenser | XFS1 |

## Stream Composition

| Mole Fraction | Acid Gas to AGI-2 Injection Compression % | Flash Gas % | Red Hills AGI-2 - Amine Inlet % | R8 % | To RH South Amine Inlet % |
|---|---|---|---|---|---|
| H2S | 14.0151 | 1.30569 | 1.1003 * | 6.20878 | 9.95084E-05 |
| CO2 | 79.1615 | 25.5831 | 8.3 * | 35.0005 | 2.18954 |
| N2 | 0.000423892 | 0.345076 | 1.39738 * | 0.000187224 | 1.50945 |
| C1 | 0.250728 | 51.9417 | 67.6671 * | 0.110743 | 72.948 |
| C2 | 0.0821833 | 10.0381 | 10.6348 * | 0.0362994 | 11.4544 |
| C3 | 0.0297853 | 4.2676 | 6.35797 * | 0.0131557 | 6.85584 |
| iC4 | 0.00298087 | 0.517673 | 1.09218 * | 0.00131658 | 1.17866 |
| nC4 | 0.0123663 | 1.54098 | 2.48418 * | 0.00546197 | 2.6791 |
| iC5 | 0.000479848 | 0.130646 | 0.514055 * | 0.000211937 | 0.555239 |
| nC5 | 0.00054811 | 0.111972 | 0.338913 * | 0.000242088 | 0.365954 |
| C6 | 4.74775E-05 | 0.0108598 | 0.044558 * | 2.09696E-05 | 0.0481291 |
| n-Heptane | 2.66995E-06 | 0.00117846 | 0.0107863 * | 1.17924E-06 | 0.0116567 |
| n-Octane | 6.10819E-07 | 0.00021646 | 0.00199982 * | 2.69781E-07 | 0.00216119 |
| Methylcyclopentane | 4.8499E-05 | 0.00435409 | 0.00720214 * | 2.14216E-05 | 0.00776658 |
| Benzene | 0.00479135 | 0.00802707 | 0.00269134 * | 0.00212292 | 0.00247581 |
| Cyclohexane | 0.00010601 | 0.00408367 | 0.00394085 * | 4.68257E-05 | 0.00423688 |
| Methylcyclohexane | 1.76913E-06 | 0.000156132 | 0.000323837 * | 7.81406E-07 | 0.000349394 |
| Toluene | 0.000882523 | 0.00137163 | 0.000550025 * | 0.000390714 | 0.000515115 |
| 2,2-Dimethylpropane | 5.25497E-06 | 0.00162429 | 0.00655547 * | 2.32098E-06 | 0.0070809 |
| 2-Methylpentane | 2.02236E-05 | 0.00460257 | 0.0180492 * | 8.93224E-06 | 0.0194949 |
| 3-Methylpentane | 1.22032E-05 | 0.00277855 | 0.0109447 * | 5.38982E-06 | 0.0118214 |
| 2,3-Dimethylbutane | 3.63346E-06 | 0.000824826 | 0.00316564 * | 1.6048E-06 | 0.00341913 |
| 1,1-Dimethylcyclopentane | 2.67788E-06 | 0.00032941 | 0.000817067 * | 1.18278E-06 | 0.00088193 |
| 2,3-Dimethylpentane | 7.22219E-08 | 3.15994E-05 | 0.000268038 * | 3.18984E-08 | 0.000289658 |
| 2-Methylhexane | 1.52944E-07 | 6.71382E-05 | 0.0005849 * | 6.75511E-08 | 0.000632087 |
| cis-1,3-Dimethylcyclopentane | 5.60301E-07 | 6.4967E-05 | 0.000156438 * | 2.47477E-07 | 0.000168846 |
| trans-1,3-Dimethylcyclopentane | 5.5828E-07 | 6.03686E-05 | 0.000137506 * | 2.46585E-07 | 0.000148396 |
| 2,2,4-Trimethylpentane | 4.84245E-08 | 1.78157E-05 | 0.00015046 * | 2.13877E-08 | 0.000162595 |
| 2-Methylheptane | 1.13051E-08 | 3.75161E-06 | 3.08891E-05 * | 4.99315E-09 | 3.338E-05 |
| cis-1,2-Dimethylcyclohexane | 5.03738E-08 | 5.09442E-06 | 1.49463E-05 * | 2.22491E-08 | 1.61361E-05 |
| m-Xylene | 6.72807E-05 | 9.79714E-05 | 4.98211E-05 * | 2.98023E-05 | 4.78232E-05 |
| p-Xylene | 7.11357E-05 | 0.000103452 | 5.1814E-05 * | 3.15099E-05 | 4.96321E-05 |
| Ethylcyclohexane | 5.02636E-07 | 3.95983E-05 | 9.56566E-05 * | 2.22006E-07 | 0.000103231 |
| H2O | 6.43787 | 4.17588 | 0 * | 58.6086 | 0.142064 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 5.5807E-09 | 0.000779024 | 0 * | 0.0117543 | 3.62259E-08 |
| Piperazine | 0 | 0 | 0 * | 0 | 0 |

| Mass Fraction | Acid Gas to AGI-2 Injection Compression % | Flash Gas % | Red Hills AGI-2 - Amine Inlet % | R8 % | To RH South Amine Inlet % |
|---|---|---|---|---|---|
| H2S | 11.6876 | 1.63642 | 1.558 * | 7.52143 | 0.000150092 |
| CO2 | 85.2474 | 41.404 | 15.1765 * | 54.7525 | 4.26468 |
| N2 | 0.000290564 | 0.355487 | 1.6264 * | 0.000186427 | 1.87142 |
| C1 | 0.0984226 | 30.6429 | 45.1019 * | 0.0631497 | 51.793 |
| C2 | 0.0604677 | 11.0997 | 13.2861 * | 0.0387974 | 15.2434 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-2 Amine Treating | | |

| Mass Fraction | Acid Gas to AGI-2 Injection Compression % | Flash Gas % | Red Hills AGI-2 - Amine Inlet % | R8 % | To RH South Amine Inlet % |
|---|---|---|---|---|---|
| C3 | 0.032138 | 6.92025 | 11.6482 * | 0.0206202 | 13.3796 |
| iC4 | 0.00423941 | 1.10647 | 2.63744 * | 0.00272003 | 3.03191 |
| nC4 | 0.0175874 | 3.29368 | 5.9989 * | 0.0112843 | 6.89157 |
| iC5 | 0.000847136 | 0.34663 | 1.54094 * | 0.000543524 | 1.77295 |
| nC5 | 0.000967648 | 0.297087 | 1.01593 * | 0.000620847 | 1.16854 |
| C6 | 0.000100113 | 0.0344149 | 0.159535 * | 6.42326E-05 | 0.18356 |
| n-Heptane | 6.54636E-06 | 0.00434244 | 0.0449049 * | 4.20012E-06 | 0.0516938 |
| n-Octane | 1.70729E-06 | 0.000909275 | 0.009491 * | 1.09539E-06 | 0.0109259 |
| Methylcyclopentane | 9.98749E-05 | 0.0134755 | 0.0251832 * | 6.40823E-05 | 0.0289281 |
| Benzene | 0.0091579 | 0.0230577 | 0.00873437 * | 0.00589432 | 0.00855896 |
| Cyclohexane | 0.000218309 | 0.0126385 | 0.0137797 * | 0.000140078 | 0.0157811 |
| Methylcyclohexane | 4.25042E-06 | 0.000563746 | 0.00132106 * | 2.72715E-06 | 0.00151828 |
| Toluene | 0.0019897 | 0.00464752 | 0.00210557 * | 0.00127963 | 0.00210054 |
| 2,2-Dimethylpropane | 9.27726E-06 | 0.00430958 | 0.0196507 * | 5.95228E-06 | 0.0226102 |
| 2-Methylpentane | 4.26445E-05 | 0.0145857 | 0.064623 * | 2.73606E-05 | 0.0743519 |
| 3-Methylpentane | 2.57322E-05 | 0.00880529 | 0.0391862 * | 1.65097E-05 | 0.0450858 |
| 2,3-Dimethylbutane | 7.66168E-06 | 0.0026139 | 0.0113342 * | 4.91573E-06 | 0.0130402 |
| 1,1-Dimethylcyclopentane | 6.43371E-06 | 0.00118941 | 0.00333314 * | 4.12796E-06 | 0.0038324 |
| 2,3-Dimethylpentane | 1.77079E-07 | 0.000116439 | 0.00111588 * | 1.13613E-07 | 0.00128455 |
| 2-Methylhexane | 3.74999E-07 | 0.000247394 | 0.00243503 * | 2.40598E-07 | 0.00280311 |
| cis-1,3-Dimethylcyclopentane | 1.34615E-06 | 0.000234577 | 0.000638174 * | 8.63708E-07 | 0.000733718 |
| trans-1,3-Dimethylcyclopentane | 1.34129E-06 | 0.000217974 | 0.000560943 * | 8.60597E-07 | 0.000644849 |
| 2,2,4-Trimethylpentane | 1.35351E-07 | 7.48376E-05 | 0.000714071 * | 8.68402E-08 | 0.000821996 |
| 2-Methylheptane | 3.15988E-08 | 1.57592E-05 | 0.000146597 * | 2.02737E-08 | 0.000168752 |
| cis-1,2-Dimethylcyclohexane | 1.38314E-07 | 2.10223E-05 | 6.96824E-05 * | 8.87437E-08 | 8.01359E-05 |
| m-Xylene | 0.00017478 | 0.000382493 | 0.000219756 * | 0.000112464 | 0.000224702 |
| p-Xylene | 0.000184795 | 0.00040389 | 0.000228547 * | 0.000118908 | 0.000233202 |
| Ethylcyclohexane | 1.38012E-06 | 0.000163403 | 0.000445967 * | 8.85503E-07 | 0.00051267 |
| H2O | 2.83795 | 2.76651 | 0 * | 37.5306 | 0.113269 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 1.62723E-08 | 0.00341375 | 0 * | 0.0497871 | 1.91049E-07 |
| Piperazine | 0 | 0 | 0 * | 0 | 0 |

| Mass Flow | Acid Gas to AGI-2 Injection Compression lb/h | Flash Gas lb/h | Red Hills AGI-2 - Amine Inlet lb/h | R8 lb/h | To RH South Amine Inlet lb/h |
|---|---|---|---|---|---|
| H2S | 4304.49 | 17.0086 | 4321.84 * | 4317.54 | 0.361534 |
| CO2 | 31396.1 | 430.345 | 42099 * | 31429.7 | 10272.5 |
| N2 | 0.107013 | 3.69486 | 4511.58 * | 0.107015 | 4507.78 |
| C1 | 36.2484 | 318.497 | 125111 * | 36.2499 | 124756 |
| C2 | 22.2699 | 115.369 | 36855.1 * | 22.2709 | 36717.4 |
| C3 | 11.8362 | 71.9278 | 32311.8 * | 11.8367 | 32228.1 |
| iC4 | 1.56135 | 11.5005 | 7316.16 * | 1.56138 | 7303.1 |
| nC4 | 6.47733 | 34.2339 | 16640.7 * | 6.47755 | 16600 |
| iC5 | 0.311995 | 3.60281 | 4274.5 * | 0.312 | 4270.59 |
| nC5 | 0.356379 | 3.08786 | 2818.16 * | 0.356386 | 2814.71 |
| C6 | 0.0368712 | 0.357702 | 442.544 * | 0.0368716 | 442.149 |
| n-Heptane | 0.00241099 | 0.0451345 | 124.565 * | 0.002411 | 124.517 |
| n-Octane | 0.000628786 | 0.00945083 | 26.3277 * | 0.00062879 | 26.3176 |
| Methylcyclopentane | 0.0367833 | 0.140061 | 69.8574 * | 0.0367853 | 69.6805 |
| Benzene | 3.3728 | 0.239658 | 24.2288 * | 3.38353 | 20.6164 |
| Cyclohexane | 0.0804017 | 0.131363 | 38.2244 * | 0.0804094 | 38.0126 |
| Methylcyclohexane | 0.0015654 | 0.00585947 | 3.66458 * | 0.00156547 | 3.65715 |
| Toluene | 0.732795 | 0.0483054 | 5.84078 * | 0.734546 | 5.05968 |
| 2,2-Dimethylpropane | 0.00341676 | 0.044793 | 54.5105 * | 0.0034168 | 54.4622 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | KM | Job: | |
| Location: | | | |
| Flowsheet: | RH AGI-2 Amine Treating | | |

| Mass Flow | Acid Gas to AGI-2 Injection Compression lb/h | Flash Gas lb/h | Red Hills AGI-2 - Amine Inlet lb/h | R8 lb/h | To RH South Amine Inlet lb/h |
|---|---|---|---|---|---|
| 2-Methylpentane | 0.0157057 | 0.151601 | 179.262 * | 0.0157059 | 179.095 |
| 3-Methylpentane | 0.00947701 | 0.0915206 | 108.701 * | 0.00947712 | 108.6 |
| 2,3-Dimethylbutane | 0.00282175 | 0.0271684 | 31.4406 * | 0.00282178 | 31.4106 |
| 1,1-Dimethylcyclopentane | 0.0023695 | 0.0123625 | 9.24602 * | 0.00236958 | 9.23128 |
| 2,3-Dimethylpentane | 6.5217E-05 | 0.00121024 | 3.09542 * | 6.52174E-05 | 3.09414 |
| 2-Methylhexane | 0.00013811 | 0.00257136 | 6.75469 * | 0.000138111 | 6.75198 |
| cis-1,3-Dimethylcyclopentane | 0.000495778 | 0.00243815 | 1.77027 * | 0.000495796 | 1.76734 |
| trans-1,3-Dimethylcyclopentane | 0.000493989 | 0.00226558 | 1.55604 * | 0.00049401 | 1.55328 |
| 2,2,4-Trimethylpentane | 4.98489E-05 | 0.000777848 | 1.98081 * | 4.98491E-05 | 1.97998 |
| 2-Methylheptane | 1.16377E-05 | 0.000163799 | 0.406656 * | 1.16377E-05 | 0.406481 |
| cis-1,2-Dimethylcyclohexane | 5.09404E-05 | 0.000218501 | 0.193296 * | 5.09417E-05 | 0.193027 |
| m-Xylene | 0.0643705 | 0.00397556 | 0.609596 * | 0.064558 | 0.54125 |
| p-Xylene | 0.0680588 | 0.00419796 | 0.63398 * | 0.068257 | 0.561723 |
| Ethylcyclohexane | 0.000508289 | 0.00169838 | 1.2371 * | 0.000508307 | 1.23489 |
| H2O | 1045.2 | 28.7546 | 0 * | 21543.8 | 272.836 |
| CHEMTHERM 550 | 0 | 0 | 0 * | 0 | 0 |
| UCARSOL™ AP-814 | 0 | 0 | 0 * | 0 | 0 |
| MDEA | 5.99298E-06 | 0.0354819 | 0 * | 28.5794 | 0.000460188 |
| Piperazine | 0 | 0 | 0 * | 0 | 0 |

## Stream Properties

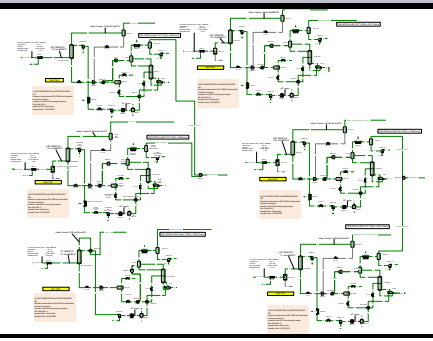
| Property | Units | Acid Gas to AGI-2 Injection Compression | Flash Gas | Red Hills AGI-2 - Amine Inlet | R8 | To RH South Amine Inlet |
|---|---|---|---|---|---|---|
| Temperature | °F | 119.876 | 164.792 | 90 * | 218.538 | 104.544 |
| Pressure | psig | 11 | 95 | 950 * | 13 | 928 |
| Molecular Weight | lb/lbmol | 40.8676 | 27.193 | 24.0688 | 28.1331 | 22.595 |
| Mass Density | lb/ft^3 | 0.170262 | 0.453573 | 5.15194 | 0.10812 | 4.41446 |
| Mass Flow | lb/h | 36829.4 | 1039.38 | 277397 | 57403.2 | 240875 |
| Std Vapor Volumetric Flow | MMSCFD | 8.20768 | 0.348115 | 104.967 | 18.5833 | 97.0919 |
| Std Liquid Volumetric Flow | sgpm | 90.1201 | 4.39913 | 1402.08 | 131.268 | 1310.26 |
| Specific Gravity | | 1.41105 | 0.938903 | 0.831032 | 0.971362 | 0.780147 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 98.0442 | 898.744 | 1194.73 | 71.9375 | 1280.48 |

**Remarks**


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# TEG Dehydration
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | TEG Dehydration | |





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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Connections

| | RH1 BTEX to RH1 Flare | RH1 Dehy Inlet | RH2 BTEX to RH2 TO | RH2 Dehy Inlet | RH3 BTEX to RH2 TO |
|---|---|---|---|---|---|
| From Block | VSSL-108 | -- | V-2503 TEG Vent Condensate Drum | -- | VSSL-103 |
| To Block | -- | SAT-2 | MIX-103 | SAT-1 | MIX-103 |

## Stream Composition

| Mole Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| Helium | 0.000292367 | 0.0119 * | 0.00043681 | 0.0153 * | 0.000408705 |
| N2 | 0.0128097 | 1.3712 * | 0.0193801 | 1.7549 * | 0.0355374 |
| CO2 | 14.3419 | 2.6057 * | 0.128668 | 0.0181 * | 0.0315257 |
| O2 | 4.398E-05 | 0.0046 * | 7.54639E-05 | 0.00660001 * | 0.000996417 |
| Argon | 0.00141279 | 0.0046 * | 0.00218367 | 0.00660001 * | 0.0312376 |
| H2S | 0.114823 | 0.0032 * | 0 | 0 * | 0 |
| C1 | 8.37489 | 70.6627 * | 10.2161 | 76.9461 * | 9.81784 |
| C2 | 12.6434 | 13.7856 * | 12.2761 | 11.7531 * | 11.7611 |
| C3 | 15.8826 | 7.29061 * | 14.8266 | 5.70721 * | 15.1516 |
| iC4 | 2.82922 | 0.976701 * | 2.7235 | 0.774202 * | 2.99494 |
| nC4 | 10.8516 | 2.1735 * | 11.2224 | 1.7588 * | 11.9773 |
| iC5 | 3.05191 | 0.42 * | 3.72406 | 0.398301 * | 4.34554 |
| nC5 | 3.67341 | 0.4024 * | 4.82059 | 0.411701 * | 5.17219 |
| Neo-Pentane | 0 | 0 * | 0 | 0 * | 0 |
| 2,2-Dimethylbutane | 0.0350929 | 0.003474 * | 0.0545085 | 0.00424701 * | 0.0604512 |
| 2,3-Dimethylbutane | 0.1195 | 0.00833901 * | 0.200461 | 0.010966 * | 0.200125 |
| Cyclopentane | 0.414229 | 0.00833901 * | 0.757552 | 0.010966 * | 0.737829 |
| i-Hexane | 0.829943 | 0.0663961 * | 1.33144 | 0.0858192 * | 1.4061 |
| 3-Methylpentane | 0.489054 | 0.030507 * | 0.847046 | 0.0421871 * | 0.896789 |
| Benzene | 4.52948 | 0.012031 * | 8.53704 | 0.018662 * | 7.11472 |
| Cyclohexane | 1.42761 | 0.024287 * | 2.89845 | 0.0421331 * | 2.64257 |
| Methylcyclopentane | 1.50378 | 0.02713 * | 2.90679 | 0.0417911 * | 2.67516 |
| C6 | 0.996259 | 0.0613201 * | 1.78885 | 0.0916422 * | 1.74168 |
| 1,1-Dimethylcyclopentane | 0.182461 | 0.0028415 * | 0.40235 | 0.00596051 * | 0.379177 |
| 3-Methylhexane | 0.0708336 | 0.0028415 * | 0.144819 | 0.00596051 * | 0.138001 |
| 2,2-Dimethylpentane | 0.00734699 | 0.000521001 * | 0.014571 | 0.000958002 * | 0.0131238 |
| 2,3-Dimethylpentane | 0.0346337 | 0.00124 * | 0.0666988 | 0.002347 * | 0.0779512 |
| 2,4-Dimethylhexane | 0.00746368 | 0.0002895 * | 0.0140864 | 0.000724001 * | 0.0145909 |
| Ethylcyclopentane | 0.0256768 | 0.0002895 * | 0.0544998 | 0.000724001 * | 0.0551555 |
| 2,4-Dimethylpentane | 0.00152992 | 0.000108 * | 0.00298587 | 0.000199 * | 0.00286229 |
| i-Heptane | 0.0876556 | 0.004576 * | 0.179355 | 0.00949902 * | 0.173792 |
| 3,3-Dimethylpentane | 0.00650344 | 0.000252 * | 0.0137135 | 0.000499001 * | 0.0138327 |
| cis-1,3-Dimethylcyclopentane | 0.0785269 | 0.0011595 * | 0.158523 | 0.0023075 * | 0.139869 |
| 3-Ethylpentane | 0.0349716 | 0.0011595 * | 0.0677675 | 0.0023075 * | 0.0597936 |
| Cycloheptane | 0 | 0 * | 0.00473233 | 6.10001E-05 * | 0.00350913 |
| Methylcyclohexane | 0.189487 | 0.00310234 * | 0.388494 | 0.00705568 * | 0.367728 |
| 2,2-Dimethylhexane | 0.0654608 | 0.00310234 * | 0.117489 | 0.00705568 * | 0.11597 |
| i-Octane | 0.0728992 | 0.00310234 * | 0.154826 | 0.00705568 * | 0.149596 |
| n-Heptane | 0.195575 | 0.00751001 * | 0.40357 | 0.017506 * | 0.381167 |
| Toluene | 2.4713 | 0.004283 * | 4.16805 | 0.00929402 * | 4.68145 |
| trans-1,2-Dimethylcyclopentane | 0.0194295 | 0.000273 * | 0.0400967 | 0.000562501 * | 0.0332882 |
| cis-1,2-Dimethylcyclopentane | 0.0231095 | 0.000273 * | 0.0433679 | 0.000562501 * | 0.0358314 |
| trans-1,3-Dimethylcyclopentane | 0.139388 | 0.001913 * | 0.278852 | 0.00388101 * | 0.229521 |
| 1-Ethyl-1-Methylcyclopentane | 0.0160099 | 0.000164 * | 0.0195651 | 0.000330001 * | 0.0212907 |
| 2,2,3-Trimethylpentane | 0.015991 | 0.000432 * | 0.0312158 | 0.001088 * | 0.0272619 |
| 2,3,4-Trimethylpentane | 0.0232214 | 0.000546001 * | 0.0419794 | 0.001364 * | 0.0386752 |
| 2,5-Dimethylhexane | 0 | 0 * | 0 | 0 * | 0 |
| 2-Methylheptane | 0.0183 | 0.000638501 * | 0.0293247 | 0.001588 * | 0.0356878 |
| 4-Methylheptane | 0.0212099 | 0.000638501 * | 0.0335458 | 0.001588 * | 0.0403722 |
| 3,3-Dimethylhexane | 0.00514877 | 0.000154 * | 0.00740754 | 0.000301001 * | 0.0105682 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH1 BTEX to RH1 Flare % | | RH1 Dehy Inlet % | | RH2 BTEX to RH2 TO % | | RH2 Dehy Inlet % | | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|---|---|---|---|
| 3-Methylheptane | 0.0108389 | | 0.000314 | * | 0.0165239 | | 0.000770002 | * | 0.0201343 |
| cis-1,2-Dimethylcyclohexane | 0.0542061 | | 0.000866001 | * | 0.0608024 | | 0.001875 | * | 0.0589649 |
| cis-1,3-Dimethylcyclohexane | 0.00497661 | | 0.0001 | * | 0.00975871 | | 0.000309001 | * | 0.0121413 |
| Cyclooctane | 0 | | 0 | * | 0.0248765 | | 4.90001E-05 | * | 0.0155091 |
| Ethylbenzene | 0.12064 | | 0.000155 | * | 0.102384 | | 0.000349001 | * | 0.14798 |
| Ethylcyclohexane | 0.0168863 | | 0.000191 | * | 0.024833 | | 0.000579001 | * | 0.028809 |
| m-Xylene | 0.125954 | | 0.0001685 | * | 0.123726 | | 0.000444501 | * | 0.153596 |
| p-Xylene | 0.118792 | | 0.0001685 | * | 0.118917 | | 0.000444501 | * | 0.147169 |
| n-Octane | 0.0289235 | | 0.000783001 | * | 0.0462178 | | 0.002356 | * | 0.0500183 |
| o-Xylene | 0.126535 | | 0.000128 | * | 0.0909059 | | 0.000244001 | * | 0.11689 |
| trans-1,3-Dimethylcyclohexane | 0.0068996 | | 0.000123 | * | 0.0111764 | | 0.000344001 | * | 0.0108733 |
| 1,1,2-Trimethylcyclohexane | 0.00323646 | | 6.80001E-05 | * | 0.000785534 | | 3.80001E-05 | * | 0.00100832 |
| 1,2,3-Trimethylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 1,2,4-Trimethylbenzene | 0.0294539 | | 2.7E-05 | * | 0.00742371 | | 4.40001E-05 | * | 0.00884354 |
| tert-Butylbenzene | 0.0178023 | | 2.7E-05 | * | 0.00423396 | | 4.40001E-05 | * | 0.00519757 |
| 1,3,5-Trimethylbenzene | 0.0786869 | | 8.50001E-05 | * | 0.0299007 | | 0.000191 | * | 0.00906683 |
| 2,2,3-Trimethylhexane | 0 | | 0 | * | 0.000722863 | | 6.30001E-05 | * | 0.000792992 |
| 2,2,4-Trimethylhexane | 0.00271617 | | 0.000163 | * | 0.00461585 | | 0.000398001 | * | 0.00506785 |
| 2,2-Dimethylheptane | 0.0025669 | | 7.50001E-05 | * | 0.00104169 | | 6.00001E-05 | * | 0.00192453 |
| 2,3,4-Trimethylhexane | 0.00264186 | | 5.20001E-05 | * | 0.00328123 | | 0.00014 | * | 0.00458662 |
| 2,4,4-Trimethylhexane | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 2,5-Dimethylheptane | 0.00281288 | | 7.30001E-05 | * | 0.00611928 | | 0.000321001 | * | 0.00825486 |
| Isononane | 0 | | 0 | * | 0 | | 0 | * | 0.000698525 |
| 3,4-Dimethylheptane | 0 | | 0 | * | 0.00162429 | | 7.10001E-05 | * | 0.0020866 |
| Isopropylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0.0112837 |
| 1,1,3-Trimethylcyclopentane | 0 | | 0 | * | 0 | | 0 | * | 0.00191484 |
| Methylcyclopropane | 0 | | 0 | * | 0 | | 0 | * | 0 |
| m-Ethyltoluene | 0.0179129 | | 2.3E-05 | * | 0.00690612 | | 4.50001E-05 | * | 0.00847043 |
| p-Ethyltoluene | 0.0227469 | | 2.3E-05 | * | 0.00809202 | | 4.50001E-05 | * | 0.0096806 |
| n-Nonane | 0.00561687 | | 0.000108 | * | 0.00319054 | | 0.000204 | * | 0.00426168 |
| Propylbenzene | 0.0350927 | | 4.4E-05 | * | 0.0181906 | | 0.000115 | * | 0.011824 |
| Propylcyclohexane | 0.00383201 | | 2.9E-05 | * | 0.0024247 | | 7.30001E-05 | * | 0 |
| 1,2,3,4-Tetramethylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 1,2-Diethylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 1,3-Diethylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 1,4-Diethylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 1-Methyl-2-Propylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 2-Methylnonane | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 3-Ethyloctane | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 3-Methylnonane | 0 | | 0 | * | 0 | | 0 | * | 0 |
| 4-Methylnonane | 0.00264734 | | 3.6E-05 | * | 0 | | 0 | * | 0 |
| Butylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| Butylcyclohexane | 0 | | 0 | * | 0 | | 0 | * | 0 |
| Isobutylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| Naphthalene | 0.0621172 | | 4.4E-05 | * | 0.00411534 | | 4.80001E-05 | * | 1.803E-05 |
| n-Decane | 0.00337714 | | 5.00001E-05 | * | 0.000332142 | | 3.80001E-05 | * | 0 |
| sec-Butylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| Undecane | 0.00399048 | | 4.6E-05 | * | 0.000240347 | | 3.70001E-05 | * | 0.00035325 |
| Pentylbenzene | 0 | | 0 | * | 0 | | 0 | * | 0 |
| Dodecane | 0 | | 0 | * | 0.000233188 | | 5.80001E-05 | * | 0 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| n-Tridecane | 0.00464923 | 5.40001E-05 * | 0.00014412 | 5.00001E-05 * | 0.000121129 |
| n-Tetradecane | 0.00230217 | 3.9E-05 * | 9.6126E-05 | 5.60001E-05 * | 0 |
| n-Pentadecane | 0 | 0 * | 0 | 0 * | 0 |
| H2O | 13.1343 | 0 * | 13.0997 | 0 * | 13.0975 |
| MDEA | 0.00946427 | 0 * | 0.00230214 | 0 * | 0.00927459 |
| Piperazine | 0 | 0 * | 0 | 0 * | 8.78608E-09 |
| TEG | 6.98813E-11 | 0 * | 4.52123E-11 | 0 * | 5.45255E-11 |

| Mass Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| Helium | 2.50071E-05 | 0.00207921 * | 3.38224E-05 | 0.0028676 * | 3.15292E-05 |
| N2 | 0.00766829 | 1.67678 * | 0.0105025 | 2.30199 * | 0.0191872 |
| CO2 | 13.488 | 5.00588 * | 0.109544 | 0.0373 * | 0.0267406 |
| O2 | 3.00734E-05 | 0.00642541 * | 4.67135E-05 | 0.00988922 * | 0.000614518 |
| Argon | 0.00120605 | 0.00802163 * | 0.00168753 | 0.0123459 * | 0.024051 |
| H2S | 0.0836242 | 0.0047607 * | 0 | 0 * | 0 |
| C1 | 2.87106 | 49.4846 * | 3.1705 | 57.8017 * | 3.03562 |
| C2 | 8.12412 | 18.0948 * | 7.14085 | 16.5484 * | 6.81599 |
| C3 | 14.9661 | 14.0336 * | 12.6476 | 11.7843 * | 12.8769 |
| iC4 | 3.514 | 2.47807 * | 3.06224 | 2.10707 * | 3.35498 |
| nC4 | 13.4781 | 5.51457 * | 12.6182 | 4.78677 * | 13.4171 |
| iC5 | 4.70536 | 1.32278 * | 5.19775 | 1.34562 * | 6.04272 |
| nC5 | 5.66358 | 1.26735 * | 6.7282 | 1.39089 * | 7.19223 |
| Neo-Pentane | 0 | 0 * | 0 | 0 * | 0 |
| 2,2-Dimethylbutane | 0.0646242 | 0.0130684 * | 0.0908692 | 0.0171376 * | 0.100403 |
| 2,3-Dimethylbutane | 0.220061 | 0.0313694 * | 0.334182 | 0.0442502 * | 0.332387 |
| Cyclopentane | 0.620805 | 0.0255297 * | 1.02779 | 0.0360126 * | 0.997326 |
| i-Hexane | 1.52836 | 0.249767 * | 2.2196 | 0.346299 * | 2.33539 |
| 3-Methylpentane | 0.900602 | 0.11476 * | 1.41208 | 0.170234 * | 1.48948 |
| Benzene | 7.56064 | 0.0410231 * | 12.9001 | 0.0682589 * | 10.7111 |
| Cyclohexane | 2.56747 | 0.089225 * | 4.71888 | 0.166039 * | 4.28637 |
| Methylcyclopentane | 2.70446 | 0.0996695 * | 4.73245 | 0.164691 * | 4.33923 |
| C6 | 1.83463 | 0.230672 * | 2.98213 | 0.369796 * | 2.89275 |
| 1,1-Dimethylcyclopentane | 0.382836 | 0.0121789 * | 0.764229 | 0.0274042 * | 0.717549 |
| 3-Methylhexane | 0.151673 | 0.0124289 * | 0.280718 | 0.0279668 * | 0.266513 |
| 2,2-Dimethylpentane | 0.0157318 | 0.00227889 * | 0.0282445 | 0.00449496 * | 0.0253451 |
| 2,3-Dimethylpentane | 0.0741596 | 0.00542385 * | 0.12929 | 0.0110122 * | 0.150542 |
| 2,4-Dimethylhexane | 0.0182188 | 0.00144355 * | 0.0311276 | 0.00387255 * | 0.0321231 |
| Ethylcyclopentane | 0.0538746 | 0.00124082 * | 0.103518 | 0.00332869 * | 0.104375 |
| 2,4-Dimethylpentane | 0.00327595 | 0.0004724 * | 0.00578785 | 0.000933713 * | 0.00552776 |
| i-Heptane | 0.187693 | 0.0200157 * | 0.347663 | 0.0445696 * | 0.335633 |
| 3,3-Dimethylpentane | 0.0139255 | 0.00110227 * | 0.0265824 | 0.00234132 * | 0.0267143 |
| cis-1,3-Dimethylcyclopentane | 0.164764 | 0.0049697 * | 0.301101 | 0.010609 * | 0.264686 |
| 3-Ethylpentane | 0.0748832 | 0.00507173 * | 0.131361 | 0.0108269 * | 0.115476 |
| Cycloheptane | 0 | 0 * | 0.00898865 | 0.000280456 * | 0.00664064 |
| Methylcyclohexane | 0.397579 | 0.0132968 * | 0.73791 | 0.0324394 * | 0.695884 |
| 2,2-Dimethylhexane | 0.15979 | 0.0154694 * | 0.259623 | 0.0377396 * | 0.255316 |
| i-Octane | 0.177947 | 0.0154694 * | 0.342128 | 0.0377396 * | 0.329348 |
| n-Heptane | 0.418777 | 0.0328493 * | 0.782285 | 0.0821386 * | 0.736125 |
| Toluene | 4.86586 | 0.0172266 * | 7.42922 | 0.0400985 * | 8.31344 |
| trans-1,2-Dimethylcyclopentane | 0.0407665 | 0.0011701 * | 0.0761602 | 0.00258617 * | 0.062994 |
| cis-1,2-Dimethylcyclopentane | 0.0484878 | 0.0011701 * | 0.0823735 | 0.00258617 * | 0.0678068 |
| trans-1,3-Dimethylcyclopentane | 0.29246 | 0.00819926 * | 0.529654 | 0.0178434 * | 0.434343 |
| 1-Ethyl-1-Methylcyclopentane | 0.0383905 | 0.000803332 * | 0.0424712 | 0.00173396 * | 0.046046 |
| 2,2,3-Trimethylpentane | 0.0390341 | 0.00215411 * | 0.0689792 | 0.00581953 * | 0.0600192 |
| 2,3,4-Trimethylpentane | 0.0566833 | 0.00272256 * | 0.0927641 | 0.00729581 * | 0.0851464 |
| 2,5-Dimethylhexane | 0 | 0 * | 0 | 0 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| 2-Methylheptane | 0.0446704 | 0.0031838 * | 0.0648004 | 0.00849394 * | 0.0785694 |
| 4-Methylheptane | 0.0517732 | 0.0031838 * | 0.074128 | 0.00849394 * | 0.0888827 |
| 3,3-Dimethylhexane | 0.0125681 | 0.0007679 * | 0.0163688 | 0.00161 * | 0.0232668 |
| 3-Methylheptane | 0.0264578 | 0.00156572 * | 0.0365138 | 0.0041186 * | 0.0443273 |
| cis-1,2-Dimethylcyclohexane | 0.129982 | 0.00424199 * | 0.131987 | 0.00985207 * | 0.127525 |
| cis-1,3-Dimethylcyclohexane | 0.0119335 | 0.000489837 * | 0.0211838 | 0.00162362 * | 0.0262584 |
| Cyclooctane | 0 | 0 * | 0.0540007 | 0.000257467 * | 0.0335419 |
| Ethylbenzene | 0.273695 | 0.000718328 * | 0.210273 | 0.00173497 * | 0.302792 |
| Ethylcyclohexane | 0.040492 | 0.000935588 * | 0.0539064 | 0.00304232 * | 0.0623061 |
| m-Xylene | 0.28575 | 0.000780892 * | 0.254105 | 0.00220972 * | 0.314283 |
| p-Xylene | 0.269502 | 0.000780892 * | 0.244228 | 0.00220972 * | 0.301133 |
| n-Octane | 0.0706023 | 0.00390433 * | 0.10213 | 0.0126018 * | 0.110119 |
| o-Xylene | 0.287067 | 0.0005932 * | 0.186699 | 0.00121299 * | 0.239177 |
| trans-1,3-Dimethylcyclohexane | 0.0165447 | 0.000602499 * | 0.0242612 | 0.00180753 * | 0.023516 |
| 1,1,2-Trimethylcyclohexane | 0.00873088 | 0.000374725 * | 0.00191835 | 0.000224627 * | 0.00245331 |
| 1,2,3-Trimethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4-Trimethylbenzene | 0.0756502 | 0.00014166 * | 0.0172609 | 0.000247634 * | 0.0204861 |
| tert-Butylbenzene | 0.05106 | 0.000158192 * | 0.0109933 | 0.000276534 * | 0.0134453 |
| 1,3,5-Trimethylbenzene | 0.202101 | 0.000445967 * | 0.0695225 | 0.00107496 * | 0.0210034 |
| 2,2,3-Trimethylhexane | 0 | 0 * | 0.00179349 | 0.000378355 * | 0.00196021 |
| 2,2,4-Trimethylhexane | 0.00744431 | 0.000912582 * | 0.0114524 | 0.00239024 * | 0.0125273 |
| 2,2-Dimethylheptane | 0.00703519 | 0.0004199 * | 0.00258453 | 0.000360338 * | 0.00475728 |
| 2,3,4-Trimethylhexane | 0.00724064 | 0.00029113 * | 0.00814105 | 0.000840789 * | 0.0113378 |
| 2,4,4-Trimethylhexane | 0 | 0 * | 0 | 0 * | 0 |
| 2,5-Dimethylheptane | 0.00770936 | 0.000408702 * | 0.0151825 | 0.00192781 * | 0.0204054 |
| Isononane | 0 | 0 * | 0 | 0 * | 0.0017267 |
| 3,4-Dimethylheptane | 0 | 0 * | 0.00403003 | 0.0004264 * | 0.0051579 |
| Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0.0261388 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 * | 0 | 0 * | 0.00414128 |
| Methylcyclopropane | 0 | 0 * | 0 | 0 * | 0 |
| m-Ethyltoluene | 0.0460078 | 0.000120673 * | 0.0160575 | 0.000253263 * | 0.0196218 |
| p-Ethyltoluene | 0.0584237 | 0.000120673 * | 0.0188148 | 0.000253263 * | 0.0224252 |
| n-Nonane | 0.0153944 | 0.000604656 * | 0.00791606 | 0.00122515 * | 0.0105345 |
| Propylbenzene | 0.090133 | 0.000230853 * | 0.0422952 | 0.000647226 * | 0.0273903 |
| Propylcyclohexane | 0.0103375 | 0.000159809 * | 0.00592137 | 0.000431521 * | 0 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 2-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Ethyloctane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 4-Methylnonane | 0.00804917 | 0.000223595 * | 0 | 0 * | 0 |
| Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Butylcyclohexane | 0 | 0 * | 0 | 0 * | 0 |
| Isobutylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Naphthalene | 0.170135 | 0.000246179 * | 0.0102038 | 0.00028808 * | 4.45394E-05 |
| n-Decane | 0.0102681 | 0.000310548 * | 0.000914201 | 0.000253173 * | 0 |
| sec-Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Undecane | 0.0133291 | 0.00031387 * | 0.000726759 | 0.000270812 * | 0.0010642 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| Pentylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Dodecane | 0 | 0 * | 0.000768385 | 0.000462611 * | 0 |
| n-Tridecane | 0.0183165 | 0.000434584 * | 0.000514002 | 0.000431643 * | 0.000430405 |
| n-Tetradecane | 0.00975991 | 0.000337746 * | 0.000368915 | 0.000520221 * | 0 |
| n-Pentadecane | 0 | 0 * | 0 | 0 * | 0 |
| H2O | 5.05637 | 0 * | 4.56532 | 0 * | 4.54767 |
| MDEA | 0.0241001 | 0 * | 0.00530689 | 0 * | 0.0213007 |
| Piperazine | 0 | 0 * | 0 | 0 * | 1.45861E-08 |
| TEG | 2.24257E-10 | 0 * | 1.31346E-10 | 0 * | 1.57816E-10 |

| Mass Flow | RH1 BTEX to RH1 Flare lb/h | RH1 Dehy Inlet lb/h | RH2 BTEX to RH2 TO lb/h | RH2 Dehy Inlet lb/h | RH3 BTEX to RH2 TO lb/h |
|---|---|---|---|---|---|
| Helium | 2.25686E-05 | 3.91282 * | 5.07857E-05 | 20.1255 * | 6.93482E-05 |
| N2 | 0.00692053 | 3155.49 * | 0.0157699 | 16155.9 * | 0.0422021 |
| CO2 | 12.1727 | 9420.45 * | 0.164484 | 261.781 * | 0.0588157 |
| O2 | 2.71408E-05 | 12.0918 * | 7.01421E-05 | 69.405 * | 0.00135163 |
| Argon | 0.00108844 | 15.0957 * | 0.00253389 | 86.6468 * | 0.0528999 |
| H2S | 0.0754698 | 8.95904 * | 0 | 0 * | 0 |
| C1 | 2.5911 | 93123.9 * | 4.76062 | 405667 * | 6.67682 |
| C2 | 7.33191 | 34052.3 * | 10.7223 | 116141 * | 14.9917 |
| C3 | 13.5067 | 26409.4 * | 18.9908 | 82705 * | 28.3227 |
| iC4 | 3.17134 | 4663.41 * | 4.59807 | 14788 * | 7.37925 |
| nC4 | 12.1638 | 10377.7 * | 18.9467 | 33594.8 * | 29.5109 |
| iC5 | 4.24652 | 2489.31 * | 7.80462 | 9443.93 * | 13.2909 |
| nC5 | 5.11131 | 2385 * | 10.1027 | 9761.65 * | 15.8193 |
| Neo-Pentane | 0 | 0 * | 0 | 0 * | 0 |
| 2,2-Dimethylbutane | 0.0583224 | 24.5931 * | 0.136444 | 120.276 * | 0.220836 |
| 2,3-Dimethylbutane | 0.198602 | 59.0334 * | 0.501788 | 310.559 * | 0.731082 |
| Cyclopentane | 0.560268 | 48.0437 * | 1.54326 | 252.745 * | 2.19361 |
| i-Hexane | 1.37932 | 470.03 * | 3.33282 | 2430.41 * | 5.13666 |
| 3-Methylpentane | 0.812781 | 215.965 * | 2.12029 | 1194.74 * | 3.27609 |
| Benzene | 6.82337 | 77.2003 * | 19.37 | 479.058 * | 23.559 |
| Cyclohexane | 2.31711 | 167.91 * | 7.08558 | 1165.3 * | 9.42784 |
| Methylcyclopentane | 2.44074 | 187.566 * | 7.10595 | 1155.84 * | 9.54411 |
| C6 | 1.65573 | 434.096 * | 4.47779 | 2595.32 * | 6.36259 |
| 1,1-Dimethylcyclopentane | 0.345504 | 22.9191 * | 1.14752 | 192.329 * | 1.57824 |
| 3-Methylhexane | 0.136883 | 23.3897 * | 0.42151 | 196.278 * | 0.586193 |
| 2,2-Dimethylpentane | 0.0141977 | 4.28859 * | 0.0424103 | 31.5468 * | 0.0557464 |
| 2,3-Dimethylpentane | 0.0669281 | 10.207 * | 0.194133 | 77.2863 * | 0.331117 |
| 2,4-Dimethylhexane | 0.0164423 | 2.71659 * | 0.0467393 | 27.1786 * | 0.0706545 |
| Ethylcyclopentane | 0.0486211 | 2.33507 * | 0.155436 | 23.3616 * | 0.229573 |
| 2,4-Dimethylpentane | 0.0029565 | 0.888997 * | 0.00869067 | 6.55304 * | 0.0121583 |
| i-Heptane | 0.169391 | 37.6671 * | 0.52203 | 312.8 * | 0.738222 |
| 3,3-Dimethylpentane | 0.0125676 | 2.07433 * | 0.0399145 | 16.432 * | 0.0587579 |
| cis-1,3-Dimethylcyclopentane | 0.148697 | 9.35236 * | 0.452115 | 74.4569 * | 0.582175 |
| 3-Ethylpentane | 0.0675811 | 9.54437 * | 0.197244 | 75.9856 * | 0.253988 |
| Cycloheptane | 0 | 0 * | 0.0134968 | 1.96831 * | 0.014606 |
| Methylcyclohexane | 0.35881 | 25.023 * | 1.108 | 227.668 * | 1.53059 |
| 2,2-Dimethylhexane | 0.144208 | 29.1114 * | 0.389833 | 264.866 * | 0.561567 |
| i-Octane | 0.160595 | 29.1114 * | 0.513719 | 264.866 * | 0.724399 |
| n-Heptane | 0.377941 | 61.8182 * | 1.17463 | 576.47 * | 1.6191 |
| Toluene | 4.39138 | 32.4182 * | 11.1553 | 281.421 * | 18.2853 |
| trans-1,2-Dimethylcyclopentane | 0.0367912 | 2.20198 * | 0.114357 | 18.1504 * | 0.138555 |
| cis-1,2-Dimethylcyclopentane | 0.0437596 | 2.20198 * | 0.123687 | 18.1504 * | 0.149141 |
| trans-1,3-Dimethylcyclopentane | 0.263942 | 15.43 * | 0.795297 | 125.23 * | 0.955334 |
| 1-Ethyl-1-Methylcyclopentane | 0.0346469 | 1.51177 * | 0.0637721 | 12.1694 * | 0.101278 |
| 2,2,3-Trimethylpentane | 0.0352278 | 4.05377 * | 0.103575 | 40.8429 * | 0.132012 |
| 2,3,4-Trimethylpentane | 0.0511559 | 5.12351 * | 0.139289 | 51.2038 * | 0.187279 |
| 2,5-Dimethylhexane | 0 | 0 * | 0 | 0 * | 0 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Flow | RH1 BTEX to RH1 Flare lb/h | RH1 Dehy Inlet lb/h | RH2 BTEX to RH2 TO lb/h | RH2 Dehy Inlet lb/h | RH3 BTEX to RH2 TO lb/h |
|---|---|---|---|---|---|
| 2-Methylheptane | 0.0403144 | 5.99151 * | 0.0973003 | 59.6126 * | 0.172813 |
| 4-Methylheptane | 0.0467247 | 5.99151 * | 0.111306 | 59.6126 * | 0.195497 |
| 3,3-Dimethylhexane | 0.0113426 | 1.44509 * | 0.0245784 | 11.2994 * | 0.0511752 |
| 3-Methylheptane | 0.0238778 | 2.94649 * | 0.0548268 | 28.9054 * | 0.0974976 |
| cis-1,2-Dimethylcyclohexane | 0.117307 | 7.98289 * | 0.198184 | 69.1443 * | 0.28049 |
| cis-1,3-Dimethylcyclohexane | 0.0107698 | 0.921812 * | 0.0318083 | 11.395 * | 0.0577551 |
| Cyclooctane | 0 | 0 * | 0.0810842 | 1.80697 * | 0.0737752 |
| Ethylbenzene | 0.247006 | 1.3518 * | 0.315733 | 12.1764 * | 0.665989 |
| Ethylcyclohexane | 0.0365435 | 1.76066 * | 0.0809426 | 21.3518 * | 0.137042 |
| m-Xylene | 0.257886 | 1.46954 * | 0.381548 | 15.5084 * | 0.691262 |
| p-Xylene | 0.243222 | 1.46954 * | 0.366718 | 15.5084 * | 0.662339 |
| n-Octane | 0.0637176 | 7.34745 * | 0.153352 | 88.4429 * | 0.242207 |
| o-Xylene | 0.259074 | 1.11633 * | 0.280336 | 8.51304 * | 0.526068 |
| trans-1,3-Dimethylcyclohexane | 0.0149314 | 1.13383 * | 0.0364291 | 12.6857 * | 0.0517233 |
| 1,1,2-Trimethylcyclohexane | 0.0078795 | 0.705186 * | 0.00288048 | 1.57649 * | 0.00539604 |
| 1,2,3-Trimethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4-Trimethylbenzene | 0.0682733 | 0.266587 * | 0.025918 | 1.73796 * | 0.0450591 |
| tert-Butylbenzene | 0.046081 | 0.297698 * | 0.0165069 | 1.94078 * | 0.0295729 |
| 1,3,5-Trimethylbenzene | 0.182394 | 0.839254 * | 0.104391 | 7.54433 * | 0.0461968 |
| 2,2,3-Trimethylhexane | 0 | 0 * | 0.002693 | 2.65539 * | 0.00431147 |
| 2,2,4-Trimethylhexane | 0.00671839 | 1.71737 * | 0.0171962 | 16.7753 * | 0.0275538 |
| 2,2-Dimethylheptane | 0.00634916 | 0.790199 * | 0.00388078 | 2.52894 * | 0.0104636 |
| 2,3,4-Trimethylhexane | 0.00653458 | 0.547871 * | 0.0122241 | 5.90087 * | 0.0249373 |
| 2,4,4-Trimethylhexane | 0 | 0 * | 0 | 0 * | 0 |
| 2,5-Dimethylheptane | 0.0069576 | 0.769127 * | 0.0227972 | 13.5299 * | 0.0448814 |
| Isononane | 0 | 0 * | 0 | 0 * | 0.00379786 |
| 3,4-Dimethylheptane | 0 | 0 * | 0.00605125 | 2.99258 * | 0.0113448 |
| Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0.0574922 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 * | 0 | 0 * | 0.00910871 |
| Methylcyclopropane | 0 | 0 * | 0 | 0 * | 0 |
| m-Ethyltoluene | 0.0415215 | 0.227092 * | 0.0241109 | 1.77746 * | 0.043158 |
| p-Ethyltoluene | 0.0527266 | 0.227092 * | 0.0282512 | 1.77746 * | 0.049324 |
| n-Nonane | 0.0138932 | 1.13789 * | 0.0118863 | 8.59841 * | 0.0231706 |
| Propylbenzene | 0.0813438 | 0.434438 * | 0.0635079 | 4.5424 * | 0.0602448 |
| Propylcyclohexane | 0.00932942 | 0.300741 * | 0.00889117 | 3.02852 * | 0 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 2-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Ethyloctane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 4-Methylnonane | 0.00726427 | 0.420777 * | 0 | 0 * | 0 |
| Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Butylcyclohexane | 0 | 0 * | 0 | 0 * | 0 |
| Isobutylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Naphthalene | 0.153544 | 0.463278 * | 0.0153215 | 2.02182 * | 9.79641E-05 |
| n-Decane | 0.00926685 | 0.584413 * | 0.00137271 | 1.77683 * | 0 |
| sec-Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Undecane | 0.0120293 | 0.590664 * | 0.00109126 | 1.90063 * | 0.0023407 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Flow | RH1 BTEX to RH1 Flare lb/h | RH1 Dehy Inlet lb/h | RH2 BTEX to RH2 TO lb/h | RH2 Dehy Inlet lb/h | RH3 BTEX to RH2 TO lb/h |
|---|---|---|---|---|---|
| Pentylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Dodecane | 0 | 0 * | 0.00115376 | 3.24672 * | 0 |
| n-Tridecane | 0.0165304 | 0.817833 * | 0.000771794 | 3.02938 * | 0.000946672 |
| n-Tetradecane | 0.00880819 | 0.635595 * | 0.00055394 | 3.65104 * | 0 |
| n-Pentadecane | 0 | 0 * | 0 | 0 * | 0 |
| H2O | 4.56331 | 0 * | 6.855 | 0 * | 10.0026 |
| MDEA | 0.02175 | 0 * | 0.00796851 | 0 * | 0.0468506 |
| Piperazine | 0 | 0 * | 0 | 0 * | 3.20819E-08 |
| TEG | 2.02389E-10 | 0 * | 1.97221E-10 | 0 * | 3.47115E-10 |

## Stream Properties

| Property | Units | RH1 BTEX to RH1 Flare | RH1 Dehy Inlet | RH2 BTEX to RH2 TO | RH2 Dehy Inlet | RH3 BTEX to RH2 TO |
|---|---|---|---|---|---|---|
| Temperature | °F | 120 | 120 * | 120 | 120 * | 120 |
| Pressure | psig | 0 | 825 * | 0 | 875 * | 0 |
| Molecular Weight | lb/lbmol | 46.7958 | 22.9082 | 51.6928 | 21.3558 | 51.8848 |
| Mass Density | lb/ft^3 | 0.0982175 | 3.72007 | 0.108945 | 3.61748 | 0.109363 |
| Mass Flow | lb/h | 90.2487 | 188188 | 150.154 | 701825 | 219.949 |
| Std Vapor Volumetric Flow | MMSCFD | 0.0175647 | 74.8181 | 0.0264553 | 299.308 | 0.038609 |
| Std Liquid Volumetric Flow | sgpm | 0.297155 | 1020.49 | 0.488953 | 3989.22 | 0.71822 |
| Specific Gravity | | 1.61574 | 0.79096 | 1.78482 | 0.737362 | 1.79145 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 2100.84 | 1290.38 | 2681.63 | 1265.35 | 2698.74 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Connections

| | RH3 Dehy Inlet | RH4 BTEX to RH4 TO | RH4 Dehy Inlet | RH5 BTEX to RH5 TO | RH5 Dehy Inlet |
|---|---|---|---|---|---|
| From Block | -- | VSSL-117 | -- | VSSL-111 | -- |
| To Block | SAT-4 | -- | SAT-3 | MIX-108 | SAT-5 |

## Stream Composition

| Mole Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| Helium | 0.0151001 * | 0.000551622 | 0.0182 * | 0.00035858 | 0.0169 * |
| N2 | 3.45391 * | 0.0299526 | 2.54171 * | 0.0140121 | 1.7982 * |
| CO2 | 0.00450002 * | 0.11377 | 0.015 * | 0.227789 | 0.0421 * |
| O2 | 0.0944004 * | 0.000182602 | 0.0149 * | 4.23926E-05 | 0.00535 * |
| Argon | 0.0944004 * | 0.00525421 | 0.0149 * | 0.00134951 | 0.00535 * |
| H2S | 0 * | 0 | 0 * | 0 | 0 * |
| C1 | 75.8439 * | 10.9409 | 76.972 * | 6.82948 | 70.5279 * |
| C2 | 11.0407 * | 12.957 | 11.5347 * | 10.9609 | 13.9686 * |
| C3 | 5.58842 * | 15.3308 | 5.47181 * | 16.5949 | 8.355 * |
| iC4 | 0.803003 * | 2.74486 | 0.720602 * | 3.16337 | 1.1613 * |
| nC4 | 1.78711 * | 11.1362 | 1.61 * | 13.1054 | 2.6314 * |
| iC5 | 0.438602 * | 3.67554 | 0.359001 * | 4.15992 | 0.5463 * |
| nC5 | 0.413202 * | 4.71764 | 0.366801 * | 5.31287 | 0.5425 * |
| Neo-Pentane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,2-Dimethylbutane | 0.00436702 * | 0.0483328 | 0.00339201 * | 0.0484743 | 0.00435 * |
| 2,3-Dimethylbutane | 0.010338 * | 0.190972 | 0.00933053 * | 0.203506 | 0.012517 * |
| Cyclopentane | 0.010338 * | 0.71469 | 0.00933053 * | 0.771452 | 0.012517 * |
| i-Hexane | 0.0844903 * | 1.24796 | 0.0716822 * | 1.25548 | 0.089686 * |
| 3-Methylpentane | 0.0423132 * | 0.777135 | 0.0343491 * | 0.759923 | 0.041517 * |
| Benzene | 0.0158311 * | 8.05335 | 0.015423 * | 9.55059 | 0.020012 * |
| Cyclohexane | 0.0375281 * | 2.67045 | 0.0336081 * | 2.59939 | 0.036446 * |
| Methylcyclopentane | 0.0370371 * | 2.51229 | 0.0317701 * | 2.47639 | 0.036497 * |
| C6 | 0.0840843 * | 1.64293 | 0.0740432 * | 1.56115 | 0.084619 * |
| 1,1-Dimethylcyclopentane | 0.00540502 * | 0.359319 | 0.00451401 * | 0.297863 | 0.0038855 * |
| 3-Methylhexane | 0.00540502 * | 0.130903 | 0.00451401 * | 0.109023 | 0.0038855 * |
| 2,2-Dimethylpentane | 0.000793003 * | 0.0133157 | 0.000757002 * | 0.0101318 | 0.000651 * |
| 2,3-Dimethylpentane | 0.00263901 * | 0.0668112 | 0.00198101 * | 0.060158 | 0.001889 * |
| 2,4-Dimethylhexane | 0.000710503 * | 0.0136751 | 0.000564502 * | 0.0113126 | 0.0004075 * |
| Ethylcyclopentane | 0.000710503 * | 0.0520257 | 0.000564502 * | 0.0418889 | 0.0004075 * |
| 2,4-Dimethylpentane | 0.000175001 * | 0.00304689 | 0.000175 * | 0.00272698 | 0.000175 * |
| i-Heptane | 0.00859403 * | 0.160809 | 0.00718502 * | 0.133657 | 0.006275 * |
| 3,3-Dimethylpentane | 0.000483002 * | 0.0111427 | 0.000345001 * | 0.00927142 | 0.000314 * |
| cis-1,3-Dimethylcyclopentane | 0.00196501 * | 0.134755 | 0.001651 * | 0.11619 | 0.0014445 * |
| 3-Ethylpentane | 0.00196501 * | 0.0580746 | 0.001651 * | 0.0495145 | 0.0014445 * |
| Cycloheptane | 4.70002E-05 * | 0.00392067 | 4.00001E-05 * | 0.00283257 | 2.3E-05 * |
| Methylcyclohexane | 0.00650369 * | 0.355814 | 0.00533401 * | 0.302757 | 0.004273 * |
| 2,2-Dimethylhexane | 0.00650369 * | 0.109546 | 0.00533401 * | 0.0970414 | 0.004273 * |
| i-Octane | 0.00650369 * | 0.14072 | 0.00533401 * | 0.111259 | 0.004273 * |
| n-Heptane | 0.0157131 * | 0.370695 | 0.013235 * | 0.30154 | 0.010424 * |
| Toluene | 0.010873 * | 4.08541 | 0.00748502 * | 4.54197 | 0.006816 * |
| trans-1,2-Dimethylcyclopentane | 0.000451002 * | 0.0329275 | 0.000388001 * | 0.0301265 | 0.0003565 * |
| cis-1,2-Dimethylcyclopentane | 0.000451002 * | 0.0362184 | 0.000388001 * | 0.0354036 | 0.0003565 * |
| trans-1,3-Dimethylcyclopentane | 0.00309201 * | 0.228114 | 0.00265801 * | 0.209921 | 0.002434 * |
| 1-Ethyl-1-Methylcyclopentane | 0.000358001 * | 0.0204568 | 0.000269001 * | 0.016302 | 0.000156 * |
| 2,2,3-Trimethylpentane | 0.000927004 * | 0.0273991 | 0.000767002 * | 0.0210401 | 0.000518 * |
| 2,3,4-Trimethylpentane | 0.001236 * | 0.0385855 | 0.000996003 * | 0.0309589 | 0.00067 * |
| 2,5-Dimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylheptane | 0.00183701 * | 0.032408 | 0.0013765 * | 0.0245435 | 0.0008175 * |
| 4-Methylheptane | 0.00183701 * | 0.0371715 | 0.0013765 * | 0.0284855 | 0.0008175 * |
| 3,3-Dimethylhexane | 0.000415002 * | 0.00931432 | 0.000302001 * | 0.00665905 | 0.000184 * |
| 3-Methylheptane | 0.000904003 * | 0.0189072 | 0.000687002 * | 0.0132751 | 0.000368 * |
| cis-1,2-Dimethylcyclohexane | 0.00178101 * | 0.061602 | 0.001454 * | 0.0532731 | 0.000834 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| cis-1,3-Dimethylcyclohexane | 0.000374001 * | 0.0102818 | 0.000255001 * | 0.00531049 | 0.0001 * |
| Cyclooctane | 3.70001E-05 * | 0.0650731 | 0.0001 * | 0 | 0 * |
| Ethylbenzene | 0.000528002 * | 0.120017 | 0.000315001 * | 0.125527 | 0.000175 * |
| Ethylcyclohexane | 0.000676003 * | 0.0279293 | 0.000496001 * | 0.0191508 | 0.000216 * |
| m-Xylene | 0.000583502 * | 0.131501 | 0.000364501 * | 0.138454 | 0.000201 * |
| p-Xylene | 0.000583502 * | 0.126342 | 0.000364501 * | 0.131171 | 0.000201 * |
| n-Octane | 0.00245801 * | 0.0481703 | 0.00187801 * | 0.033449 | 0.000898 * |
| o-Xylene | 0.000336001 * | 0.100455 | 0.000209001 * | 0.11896 | 0.000129 * |
| trans-1,3-Dimethylcyclohexane | 0.000327001 * | 0.0115239 | 0.000275001 * | 0.0085201 | 0.000145 * |
| 1,1,2-Trimethylcyclohexane | 4.60002E-05 * | 0.00120617 | 4.40001E-05 * | 0.00180899 | 3.9E-05 * |
| 1,2,3-Trimethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4-Trimethylbenzene | 5.70002E-05 * | 0.0070494 | 3.00001E-05 * | 0 | 0 * |
| tert-Butylbenzene | 5.70002E-05 * | 0.00405128 | 3.00001E-05 * | 0 | 0 * |
| 1,3,5-Trimethylbenzene | 6.20002E-05 * | 0.0111126 | 5.10001E-05 * | 0 | 0 * |
| 2,2,3-Trimethylhexane | 6.30002E-05 * | 0.000776423 | 5.30001E-05 * | 0 | 0 * |
| 2,2,4-Trimethylhexane | 0.000396002 * | 0.00439793 | 0.000302001 * | 0.00291461 | 0.000167 * |
| 2,2-Dimethylheptane | 0.000105 * | 0.00148215 | 6.50002E-05 * | 0 | 0 * |
| 2,3,4-Trimethylhexane | 0.000191001 * | 0.00370426 | 0.000119 * | 0.00229001 | 4.6E-05 * |
| 2,4,4-Trimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,5-Dimethylheptane | 0.000414002 * | 0.00582817 | 0.000232001 * | 0.00272438 | 7.1E-05 * |
| Isononane | 3.80001E-05 * | 0 | 0 * | 0 | 0 * |
| 3,4-Dimethylheptane | 8.90003E-05 * | 0.00180216 | 5.90002E-05 * | 0 | 0 * |
| Isopropylbenzene | 7.35003E-05 * | 0.0216944 | 9.80003E-05 * | 0 | 0 * |
| 1,1,3-Trimethylcyclopentane | 7.35003E-05 * | 0.00286777 | 9.80003E-05 * | 0 | 0 * |
| Methylcyclopropane | 0 * | 0 | 0 * | 0 | 0 * |
| m-Ethyltoluene | 5.75002E-05 * | 0.00584351 | 2.75001E-05 * | 0 | 0 * |
| p-Ethyltoluene | 5.75002E-05 * | 0.006855 | 2.75001E-05 * | 0 | 0 * |
| n-Nonane | 0.000262001 * | 0.0041731 | 0.000194001 * | 0 | 0 * |
| Propylbenzene | 7.90003E-05 * | 0.0242959 | 0.000111 * | 0.0241388 | 4.3E-05 * |
| Propylcyclohexane | 0 * | 0 | 0 * | 0.00198328 | 1.9E-05 * |
| 1,2,3,4-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,3,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-3-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-4-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Dimethyl-2-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Dimethyl-2-ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Propylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-3-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-4-isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Ethyloctane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 4-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Butylcyclohexane | 0 * | 0 | 0 * | 0 | 0 * |
| Isobutylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Naphthalene | 0 * | 0.00683017 | 5.80002E-05 * | 0 | 0 * |
| n-Decane | 0 * | 0 | 0 * | 0 | 0 * |
| sec-Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Undecane | 5.10002E-05 * | 0.000404621 | 4.20001E-05 * | 0 | 0 * |
| Pentylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Dodecane | 0 * | 0.00039407 | 6.50002E-05 * | 0 | 0 * |
| n-Tridecane | 4.10002E-05 * | 0.000505705 | 0.000114 * | 0.00080228 | 4.4E-05 * |
| n-Tetradecane | 0 * | 0 | 0 * | 0.000440495 | 4.1E-05 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| n-Pentadecane | 0 * | 0 | 0 * | 0 | 0 * |
| H2O | 0 * | 13.1034 | 0 * | 13.0932 | 0 * |
| MDEA | 0 * | 0.0161275 | 0 * | 0.0232483 | 0 * |
| Piperazine | 0 * | 2.2916E-08 | 0 * | 1.16056E-08 | 0 * |
| TEG | 0 * | 4.54314E-11 | 0 * | 5.47556E-11 | 0 * |

| Mass Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| Helium | 0.00281298 * | 4.35724E-05 | 0.00344307 * | 2.70383E-05 | 0.00293284 * |
| N2 | 4.50322 * | 0.0165588 | 3.36529 * | 0.0073947 | 2.18405 * |
| CO2 | 0.00921736 * | 0.0988101 | 0.0312011 * | 0.188856 | 0.0803317 * |
| O2 | 0.14059 * | 0.00011531 | 0.0225347 * | 2.55549E-05 | 0.00742243 * |
| Argon | 0.175515 * | 0.00414219 | 0.0281328 * | 0.0010156 | 0.00926632 * |
| H2S | 0 * | 0 | 0 * | 0 | 0 * |
| C1 | 56.6288 * | 3.4638 | 58.3626 * | 2.064 | 49.0558 * |
| C2 | 15.4513 * | 7.68867 | 16.393 * | 6.20894 | 18.2109 * |
| C3 | 11.4691 * | 13.341 | 11.404 * | 13.7855 | 15.9735 * |
| iC4 | 2.17223 * | 3.1484 | 1.97956 * | 3.46372 | 2.92648 * |
| nC4 | 4.83435 * | 12.7734 | 4.42283 * | 14.3497 | 6.63113 * |
| iC5 | 1.4728 * | 5.23333 | 1.22421 * | 5.65411 | 1.70891 * |
| nC5 | 1.38751 * | 6.7171 | 1.25081 * | 7.22119 | 1.69702 * |
| Neo-Pentane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,2-Dimethylbutane | 0.0175152 * | 0.0821964 | 0.0138156 * | 0.0786947 | 0.0162529 * |
| 2,3-Dimethylbutane | 0.0414636 * | 0.324774 | 0.0380032 * | 0.330379 | 0.0467673 * |
| Cyclopentane | 0.0337447 * | 0.989161 | 0.0309285 * | 1.01925 | 0.038061 * |
| i-Hexane | 0.338872 * | 2.12233 | 0.291961 * | 2.03818 | 0.335094 * |
| 3-Methylpentane | 0.169709 * | 1.32162 | 0.139904 * | 1.23368 | 0.15512 * |
| Benzene | 0.0575536 * | 12.4143 | 0.05694 * | 14.0539 | 0.0677744 * |
| Cyclohexane | 0.146996 * | 4.43522 | 0.133683 * | 4.12121 | 0.132988 * |
| Methylcyclopentane | 0.145073 * | 4.17255 | 0.126372 * | 3.9262 | 0.133174 * |
| C6 | 0.337244 * | 2.79403 | 0.301578 * | 2.53442 | 0.316162 * |
| 1,1-Dimethylcyclopentane | 0.0246998 * | 0.696237 | 0.020948 * | 0.550957 | 0.0165408 * |
| 3-Methylhexane | 0.0252069 * | 0.258853 | 0.0213781 * | 0.205799 | 0.0168804 * |
| 2,2-Dimethylpentane | 0.00369826 * | 0.026331 | 0.00358512 * | 0.0191255 | 0.00282824 * |
| 2,3-Dimethylpentane | 0.0123073 * | 0.132115 | 0.00938194 * | 0.113559 | 0.00820667 * |
| 2,4-Dimethylhexane | 0.00377734 * | 0.0308271 | 0.00304769 * | 0.0243437 | 0.00201818 * |
| Ethylcyclopentane | 0.00324684 * | 0.100808 | 0.00261966 * | 0.0774818 | 0.00173475 * |
| 2,4-Dimethylpentane | 0.000816135 * | 0.00602506 | 0.000828793 * | 0.00514764 | 0.000760279 * |
| i-Heptane | 0.0400792 * | 0.317991 | 0.0340279 * | 0.252302 | 0.0272614 * |
| 3,3-Dimethylpentane | 0.00225253 * | 0.0220341 | 0.00163391 * | 0.0175014 | 0.00136416 * |
| cis-1,3-Dimethylcyclopentane | 0.00897966 * | 0.26111 | 0.00766176 * | 0.214916 | 0.0061493 * |
| 3-Ethylpentane | 0.00916402 * | 0.114839 | 0.00781907 * | 0.0934672 | 0.00627556 * |
| Cycloheptane | 0.000214781 * | 0.00759693 | 0.000185627 * | 0.0052394 | 9.79121E-05 * |
| Methylcyclohexane | 0.0297205 * | 0.689447 | 0.0247534 * | 0.560008 | 0.0181904 * |
| 2,2-Dimethylhexane | 0.0345765 * | 0.246945 | 0.0287978 * | 0.208825 | 0.0211625 * |
| i-Octane | 0.0345765 * | 0.317218 | 0.0287978 * | 0.23942 | 0.0211625 * |
| n-Heptane | 0.0732796 * | 0.733029 | 0.0626804 * | 0.56921 | 0.0452865 * |
| Toluene | 0.046627 * | 7.42855 | 0.032596 * | 7.88381 | 0.0272288 * |
| trans-1,2-Dimethylcyclopentane | 0.00206098 * | 0.0638023 | 0.00180058 * | 0.0557249 | 0.00151764 * |
| cis-1,2-Dimethylcyclopentane | 0.00206098 * | 0.070179 | 0.00180058 * | 0.065486 | 0.00151764 * |
| trans-1,3-Dimethylcyclopentane | 0.0141298 * | 0.442007 | 0.0123349 * | 0.38829 | 0.0103617 * |
| 1-Ethyl-1-Methylcyclopentane | 0.0018697 * | 0.0453009 | 0.00142668 * | 0.0344615 | 0.000758971 * |
| 2,2,3-Trimethylpentane | 0.00492835 * | 0.0617644 | 0.00414097 * | 0.0452764 | 0.00256545 * |
| 2,3,4-Trimethylpentane | 0.00657114 * | 0.0869813 | 0.00537732 * | 0.066621 | 0.00331824 * |
| 2,5-Dimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylheptane | 0.00976633 * | 0.0730557 | 0.00743161 * | 0.0528155 | 0.00404875 * |
| 4-Methylheptane | 0.00976633 * | 0.0837939 | 0.00743161 * | 0.0612984 | 0.00404875 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| 3,3-Dimethylhexane | 0.00220633 * | 0.0209968 | 0.00163047 * | 0.0143297 | 0.000911278 * |
| 3-Methylheptane | 0.00480608 * | 0.0426217 | 0.00370905 * | 0.0285669 | 0.00182256 * |
| cis-1,2-Dimethylcyclohexane | 0.00930151 * | 0.136416 | 0.00771149 * | 0.112616 | 0.00405757 * |
| cis-1,3-Dimethylcyclohexane | 0.00195326 * | 0.0227688 | 0.00135243 * | 0.0112261 | 0.00048652 * |
| Cyclooctane | 0.000193237 * | 0.144102 | 0.000530364 * | 0 | 0 * |
| Ethylbenzene | 0.00260893 * | 0.251451 | 0.00158061 * | 0.251055 | 0.000805523 * |
| Ethylcyclohexane | 0.0035305 * | 0.0618486 | 0.0026306 * | 0.0404837 | 0.00105088 * |
| m-Xylene | 0.00288317 * | 0.275511 | 0.00182899 * | 0.27691 | 0.000925201 * |
| p-Xylene | 0.00288317 * | 0.264702 | 0.00182899 * | 0.262343 | 0.000925201 * |
| n-Octane | 0.0130678 * | 0.108588 | 0.0101392 * | 0.0719793 | 0.00444743 * |
| o-Xylene | 0.00166023 * | 0.210466 | 0.00104872 * | 0.23792 | 0.000593786 * |
| trans-1,3-Dimethylcyclohexane | 0.0017078 * | 0.0255192 | 0.0014585 * | 0.018011 | 0.000705454 * |
| 1,1,2-Trimethylcyclohexane | 0.000270271 * | 0.00300492 | 0.00026253 * | 0.00430211 | 0.000213461 * |
| 1,2,3-Trimethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4-Trimethylbenzene | 0.000318857 * | 0.0167207 | 0.000170423 * | 0 | 0 * |
| tert-Butylbenzene | 0.000356069 * | 0.0107308 | 0.000190311 * | 0 | 0 * |
| 1,3,5-Trimethylbenzene | 0.000346827 * | 0.0263584 | 0.000289718 * | 0 | 0 * |
| 2,2,3-Trimethylhexane | 0.000376065 * | 0.00196517 | 0.000321279 * | 0 | 0 * |
| 2,2,4-Trimethylhexane | 0.00236384 * | 0.0111314 | 0.00183068 * | 0.00704215 | 0.000928645 * |
| 2,2-Dimethylheptane | 0.000626775 * | 0.0037514 | 0.000394021 * | 0 | 0 * |
| 2,3,4-Trimethylhexane | 0.00114013 * | 0.0093757 | 0.000721362 * | 0.00553303 | 0.000255794 * |
| 2,4,4-Trimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,5-Dimethylheptane | 0.00247128 * | 0.0147514 | 0.00140635 * | 0.00658254 | 0.000394813 * |
| Isononane | 0.000226833 * | 0 | 0 * | 0 | 0 * |
| 3,4-Dimethylheptane | 0.000531266 * | 0.00456138 | 0.00035765 * | 0 | 0 * |
| Isopropylbenzene | 0.000411158 * | 0.0514576 | 0.000556714 * | 0 | 0 * |
| 1,1,3-Trimethylcyclopentane | 0.000383863 * | 0.0063506 | 0.000519756 * | 0 | 0 * |
| Methylcyclopropane | 0 * | 0 | 0 * | 0 | 0 * |
| m-Ethyltoluene | 0.000321654 * | 0.0138604 | 0.000156221 * | 0 | 0 * |
| p-Ethyltoluene | 0.000321654 * | 0.0162596 | 0.000156221 * | 0 | 0 * |
| n-Nonane | 0.00156395 * | 0.0105624 | 0.001176 * | 0 | 0 * |
| Propylbenzene | 0.000441925 * | 0.0576281 | 0.000630564 * | 0.0546564 | 0.000224079 * |
| Propylcyclohexane | 0 * | 0 | 0 * | 0.0047166 | 0.000103994 * |
| 1,2,3,4-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,3,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-3-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-4-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Dimethyl-2-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Dimethyl-2-ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Propylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-3-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-4-isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Ethyloctane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 4-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Butylcyclohexane | 0 * | 0 | 0 * | 0 | 0 * |
| Isobutylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Naphthalene | 0 * | 0.0172762 | 0.000351357 * | 0 | 0 * |
| n-Decane | 0 * | 0 | 0 * | 0 | 0 * |
| sec-Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Undecane | 0.000371022 * | 0.00124813 | 0.000310287 * | 0 | 0 * |
| Pentylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Dodecane | 0 * | 0.00132466 | 0.000523298 * | 0 | 0 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions | |
| Location: | New Mexico | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| n-Tridecane | 0.000351805 * | 0.0018399 | 0.00099336 * | 0.00278642 | 0.000351707 * |
| n-Tetradecane | 0 * | 0 | 0 * | 0.00164629 | 0.000352661 * |
| n-Pentadecane | 0 * | 0 | 0 * | 0 | 0 * |
| H2O | 0 * | 4.65858 | 0 * | 4.44362 | 0 * |
| MDEA | 0 * | 0.0379257 | 0 * | 0.0521893 | 0 * |
| Piperazine | 0 * | 3.89537E-08 | 0 * | 1.88322E-08 | 0 * |
| TEG | 0 * | 1.3464E-10 | 0 * | 1.54907E-10 | 0 * |

| Mass Flow | RH3 Dehy Inlet lb/h | RH4 BTEX to RH4 TO lb/h | RH4 Dehy Inlet lb/h | RH5 BTEX to RH5 TO lb/h | RH5 Dehy Inlet lb/h |
|---|---|---|---|---|---|
| Helium | 19.8624 * | 6.07917E-05 | 23.9401 * | 7.39661E-05 | 22.2306 * |
| N2 | 31797.1 * | 0.0231026 | 23399.3 * | 0.020229 | 16554.9 * |
| CO2 | 65.0835 * | 0.137859 | 216.945 * | 0.516635 | 608.906 * |
| O2 | 992.699 * | 0.000160879 | 156.687 * | 6.99081E-05 | 56.2613 * |
| Argon | 1239.31 * | 0.00577913 | 195.611 * | 0.00277827 | 70.2378 * |
| H2S | 0 * | 0 | 0 * | 0 | 0 * |
| C1 | 399855 * | 4.83265 | 405803 * | 5.64628 | 371838 * |
| C2 | 109101 * | 10.7271 | 113983 * | 16.9852 | 138037 * |
| C3 | 80983.2 * | 18.6132 | 79293.6 * | 37.7116 | 121078 * |
| iC4 | 15338 * | 4.3926 | 13764.1 * | 9.47536 | 22182.4 * |
| nC4 | 34135.2 * | 17.8213 | 30752.5 * | 39.2551 | 50263.3 * |
| iC5 | 10399.4 * | 7.30147 | 8512.08 * | 15.4674 | 12953.4 * |
| nC5 | 9797.19 * | 9.3716 | 8697.02 * | 19.7543 | 12863.2 * |
| Neo-Pentane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,2-Dimethylbutane | 123.674 * | 0.114679 | 96.0619 * | 0.215278 | 123.195 * |
| 2,3-Dimethylbutane | 292.773 * | 0.45312 | 264.241 * | 0.903785 | 354.491 * |
| Cyclopentane | 238.271 * | 1.38006 | 215.05 * | 2.78827 | 288.499 * |
| i-Hexane | 2392.77 * | 2.96104 | 2030.04 * | 5.57565 | 2539.98 * |
| 3-Methylpentane | 1198.31 * | 1.84391 | 972.769 * | 3.37487 | 1175.79 * |
| Benzene | 406.385 * | 17.3202 | 395.911 * | 38.446 | 513.723 * |
| Cyclohexane | 1037.94 * | 6.18796 | 929.519 * | 11.274 | 1008.03 * |
| Methylcyclopentane | 1024.36 * | 5.82148 | 878.684 * | 10.7405 | 1009.44 * |
| C6 | 2381.27 * | 3.89819 | 2096.91 * | 6.93317 | 2396.48 * |
| 1,1-Dimethylcyclopentane | 174.404 * | 0.971381 | 145.654 * | 1.5072 | 125.377 * |
| 3-Methylhexane | 177.985 * | 0.361149 | 148.645 * | 0.562985 | 127.951 * |
| 2,2-Dimethylpentane | 26.1133 * | 0.0367367 | 24.9278 * | 0.0523197 | 21.4377 * |
| 2,3-Dimethylpentane | 86.9016 * | 0.184326 | 65.2338 * | 0.310651 | 62.2057 * |
| 2,4-Dimethylhexane | 26.6717 * | 0.0430095 | 21.191 * | 0.0665947 | 15.2976 * |
| Ethylcyclopentane | 22.9259 * | 0.140646 | 18.2149 * | 0.21196 | 13.1492 * |
| 2,4-Dimethylpentane | 5.7627 * | 0.00840608 | 5.76271 * | 0.0140819 | 5.76283 * |
| i-Heptane | 282.998 * | 0.443657 | 236.6 * | 0.690197 | 206.639 * |
| 3,3-Dimethylpentane | 15.9051 * | 0.0307417 | 11.3608 * | 0.047877 | 10.3402 * |
| cis-1,3-Dimethylcyclopentane | 63.4051 * | 0.364297 | 53.2733 * | 0.587925 | 46.6111 * |
| 3-Ethylpentane | 64.7069 * | 0.160222 | 54.367 * | 0.255689 | 47.5681 * |
| Cycloheptane | 1.51656 * | 0.0105991 | 1.29069 * | 0.0143329 | 0.742164 * |
| Methylcyclohexane | 209.855 * | 0.961908 | 172.114 * | 1.53196 | 137.881 * |
| 2,2-Dimethylhexane | 244.143 * | 0.344535 | 200.235 * | 0.571263 | 160.409 * |
| i-Octane | 244.143 * | 0.442578 | 200.235 * | 0.654959 | 160.409 * |
| n-Heptane | 517.425 * | 1.02271 | 435.825 * | 1.55713 | 343.267 * |
| Toluene | 329.232 * | 10.3642 | 226.644 * | 21.567 | 206.392 * |
| trans-1,2-Dimethylcyclopentane | 14.5525 * | 0.0890161 | 12.5197 * | 0.152441 | 11.5035 * |
| cis-1,2-Dimethylcyclopentane | 14.5525 * | 0.0979128 | 12.5197 * | 0.179144 | 11.5035 * |
| trans-1,3-Dimethylcyclopentane | 99.7703 * | 0.616682 | 85.7664 * | 1.06221 | 78.5403 * |
| 1-Ethyl-1-Methylcyclopentane | 13.2019 * | 0.0632032 | 9.91988 * | 0.094273 | 5.75292 * |
| 2,2,3-Trimethylpentane | 34.799 * | 0.0861729 | 28.7927 * | 0.123858 | 19.4458 * |
| 2,3,4-Trimethylpentane | 46.3986 * | 0.121355 | 37.3892 * | 0.182249 | 25.1519 * |
| 2,5-Dimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylheptane | 68.9598 * | 0.101926 | 51.6729 * | 0.144482 | 30.6891 * |
| 4-Methylheptane | 68.9598 * | 0.116908 | 51.6729 * | 0.167688 | 30.6891 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Flow | RH3 Dehy Inlet lb/h | RH4 BTEX to RH4 TO lb/h | RH4 Dehy Inlet lb/h | RH5 BTEX to RH5 TO lb/h | RH5 Dehy Inlet lb/h |
|---|---|---|---|---|---|
| 3,3-Dimethylhexane | 15.5788 * | 0.0292945 | 11.3369 * | 0.0392004 | 6.9074 * |
| 3-Methylheptane | 33.9356 * | 0.0594652 | 25.7895 * | 0.0781477 | 13.8148 * |
| cis-1,2-Dimethylcyclohexane | 65.6777 * | 0.190325 | 53.619 * | 0.308073 | 30.756 * |
| cis-1,3-Dimethylcyclohexane | 13.7919 * | 0.0317668 | 9.4036 * | 0.0307101 | 3.68777 * |
| Cyclooctane | 1.36444 * | 0.20105 | 3.68769 * | 0 | 0 * |
| Ethylbenzene | 18.4216 * | 0.350821 | 10.9902 * | 0.686786 | 6.10578 * |
| Ethylcyclohexane | 24.9288 * | 0.0862904 | 18.2909 * | 0.110747 | 7.96558 * |
| m-Xylene | 20.358 * | 0.384389 | 12.7172 * | 0.757516 | 7.01293 * |
| p-Xylene | 20.358 * | 0.369308 | 12.7172 * | 0.717668 | 7.01293 * |
| n-Octane | 92.2717 * | 0.151501 | 70.4989 * | 0.196907 | 33.7111 * |
| o-Xylene | 11.7228 * | 0.293639 | 7.29189 * | 0.650856 | 4.50083 * |
| trans-1,3-Dimethylcyclohexane | 12.0587 * | 0.0356041 | 10.1411 * | 0.0492709 | 5.34727 * |
| 1,1,2-Trimethylcyclohexane | 1.90838 * | 0.00419242 | 1.82541 * | 0.0117689 | 1.61801 * |
| 1,2,3-Trimethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4-Trimethylbenzene | 2.25144 * | 0.0233285 | 1.18497 * | 0 | 0 * |
| tert-Butylbenzene | 2.51419 * | 0.0149714 | 1.32326 * | 0 | 0 * |
| 1,3,5-Trimethylbenzene | 2.44894 * | 0.0367749 | 2.01445 * | 0 | 0 * |
| 2,2,3-Trimethylhexane | 2.65538 * | 0.00274178 | 2.2339 * | 0 | 0 * |
| 2,2,4-Trimethylhexane | 16.691 * | 0.0155304 | 12.729 * | 0.0192645 | 7.03903 * |
| 2,2-Dimethylheptane | 4.42564 * | 0.0052339 | 2.73968 * | 0 | 0 * |
| 2,3,4-Trimethylhexane | 8.05045 * | 0.0130809 | 5.01573 * | 0.0151362 | 1.9389 * |
| 2,4,4-Trimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,5-Dimethylheptane | 17.4497 * | 0.020581 | 9.77856 * | 0.0180072 | 2.99264 * |
| Isononane | 1.60166 * | 0 | 0 * | 0 | 0 * |
| 3,4-Dimethylheptane | 3.75126 * | 0.00636397 | 2.48679 * | 0 | 0 * |
| Isopropylbenzene | 2.90318 * | 0.0717929 | 3.8709 * | 0 | 0 * |
| 1,1,3-Trimethylcyclopentane | 2.71045 * | 0.00886027 | 3.61393 * | 0 | 0 * |
| Methylcyclopropane | 0 * | 0 | 0 * | 0 | 0 * |
| m-Ethyltoluene | 2.27119 * | 0.0193379 | 1.08622 * | 0 | 0 * |
| p-Ethyltoluene | 2.27119 * | 0.0226851 | 1.08622 * | 0 | 0 * |
| n-Nonane | 11.043 * | 0.0147365 | 8.1769 * | 0 | 0 * |
| Propylbenzene | 3.12042 * | 0.0804019 | 4.38439 * | 0.149518 | 1.6985 * |
| Propylcyclohexane | 0 * | 0 | 0 * | 0.0129028 | 0.788261 * |
| 1,2,3,4-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,3,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-3-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-4-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Dimethyl-2-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Dimethyl-2-ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Propylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-3-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-4-isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Ethyloctane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 4-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Butylcyclohexane | 0 * | 0 | 0 * | 0 | 0 * |
| Isobutylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Naphthalene | 0 * | 0.0241035 | 2.44303 * | 0 | 0 * |
| n-Decane | 0 * | 0 | 0 * | 0 | 0 * |
| sec-Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Undecane | 2.61978 * | 0.00174137 | 2.15746 * | 0 | 0 * |
| Pentylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Dodecane | 0 * | 0.00184815 | 3.63856 * | 0 | 0 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Flow | RH3 Dehy Inlet lb/h | RH4 BTEX to RH4 TO lb/h | RH4 Dehy Inlet lb/h | RH5 BTEX to RH5 TO lb/h | RH5 Dehy Inlet lb/h |
|---|---|---|---|---|---|
| n-Tridecane | 2.48408 * | 0.00256701 | 6.90697 * | 0.00762254 | 2.6659 * |
| n-Tetradecane | 0 * | 0 | 0 * | 0.00450361 | 2.67314 * |
| n-Pentadecane | 0 * | 0 | 0 * | 0 | 0 * |
| H2O | 0 * | 6.49959 | 0 * | 12.156 | 0 * |
| MDEA | 0 * | 0.0529134 | 0 * | 0.142769 | 0 * |
| Piperazine | 0 * | 5.43477E-08 | 0 * | 5.15175E-08 | 0 * |
| TEG | 0 * | 1.87849E-10 | 0 * | 4.23764E-10 | 0 * |

## Stream Properties

| Property | Units | RH3 Dehy Inlet | RH4 BTEX to RH4 TO | RH4 Dehy Inlet | RH5 BTEX to RH5 TO | RH5 Dehy Inlet |
|---|---|---|---|---|---|---|
| Temperature | °F | 120 * | 120 | 120 * | 120 | 120 * |
| Pressure | psig | 875 * | 0 | 875 * | 0 | 875 * |
| Molecular Weight | lb/lbmol | 21.4859 | 50.6725 | 21.1577 | 53.0823 | 23.0644 |
| Mass Density | lb/ft^3 | 3.61622 | 0.106734 | 3.55616 | 0.111968 | 4.06875 |
| Mass Flow | lb/h | 706097 | 139.519 | 695313 | 273.56 | 757990 |
| Std Vapor Volumetric Flow | MMSCFD | 299.307 | 0.0250765 | 299.307 | 0.0469365 | 299.315 |
| Std Liquid Volumetric Flow | sgpm | 3950.58 | 0.459608 | 3955.67 | 0.878544 | 4139.4 |
| Specific Gravity | | 0.741853 | 1.74959 | 0.730522 | 1.83279 | 0.796353 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1240.92 | 2631.26 | 1241.56 | 2746.79 | 1355.85 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Connections

| | RH6 BTEX to RH5 TO | RH6 Dehy Inlet | 30 | 62 | 96 |
|---|---|---|---|---|---|
| From Block | VSSL-2811 | -- | PCV-2101B | VLVE-102 | VLVE-108 |
| To Block | MIX-108 | SAT-6 | -- | -- | -- |

## Stream Composition

| Mole Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|---|
| Helium | 0.000261623 | 0.0139 | * | 0.00570849 | 0.00569994 | 0.00447727 |
| N2 | 0.0128919 | 1.82301 | * | 0.38189 | 0.753095 | 0.295965 |
| CO2 | 19.5628 | 3.76381 | * | 0.0775393 | 0.0191855 | 8.16398 |
| O2 | 2.52844E-05 | 0.00350001 | * | 0.0014332 | 0.0204311 | 0.000982593 |
| Argon | 0.00082567 | 0.00350001 | * | 0.00777734 | 0.113765 | 0.00516048 |
| H2S | 0.00441806 | 0.0001 | * | 0 | 0 | 0.0138337 |
| C1 | 6.76369 | 74.4862 | * | 54.534 | 54.6531 | 48.5349 |
| C2 | 8.66127 | 11.2202 | * | 19.8425 | 19.1677 | 20.6102 |
| C3 | 10.7722 | 5.33162 | * | 12.9521 | 13.0867 | 13.4776 |
| iC4 | 1.99976 | 0.705002 | * | 1.80868 | 1.94044 | 1.78018 |
| nC4 | 8.20894 | 1.57881 | * | 5.0953 | 5.30137 | 4.56037 |
| iC5 | 2.84917 | 0.353901 | * | 1.14614 | 1.28711 | 0.821125 |
| nC5 | 3.75347 | 0.361101 | * | 1.28807 | 1.3169 | 0.829114 |
| Neo-Pentane | 0 | 0 | * | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0.0429827 | 0.00361601 | * | 0.0121669 | 0.0129108 | 0.00671652 |
| 2,3-Dimethylbutane | 0.157186 | 0.00916703 | * | 0.0340804 | 0.0327313 | 0.0165742 |
| Cyclopentane | 0.585668 | 0.00916703 | * | 0.054031 | 0.0497 | 0.0219083 |
| i-Hexane | 1.0346 | 0.0698692 | * | 0.252134 | 0.25446 | 0.127128 |
| 3-Methylpentane | 0.639254 | 0.0333551 | * | 0.132539 | 0.134937 | 0.0602144 |
| Benzene | 8.03981 | 0.0174661 | * | 0.111221 | 0.0876441 | 0.0308961 |
| Cyclohexane | 2.41569 | 0.0341291 | * | 0.178258 | 0.154336 | 0.0536146 |
| Methylcyclopentane | 2.18741 | 0.0315801 | * | 0.188949 | 0.162731 | 0.0633277 |
| C6 | 1.37679 | 0.0716463 | * | 0.281723 | 0.262152 | 0.117147 |
| 1,1-Dimethylcyclopentane | 0.324679 | 0.00435352 | * | 0.0244228 | 0.0213525 | 0.00583919 |
| 3-Methylhexane | 0.118978 | 0.00435352 | * | 0.0189134 | 0.0169972 | 0.00501106 |
| 2,2-Dimethylpentane | 0.0102924 | 0.000641002 | * | 0.00274138 | 0.0023056 | 0.000911515 |
| 2,3-Dimethylpentane | 0.0587751 | 0.00188701 | * | 0.00773237 | 0.00859101 | 0.00225599 |
| 2,4-Dimethylhexane | 0.0134815 | 0.000539002 | * | 0.00204919 | 0.00199831 | 0.000450476 |
| Ethylcyclopentane | 0.0499631 | 0.000539002 | * | 0.00283889 | 0.00267005 | 0.00055499 |
| 2,4-Dimethylpentane | 0.00230704 | 0.000144001 | * | 0.000569452 | 0.000508055 | 0.00018738 |
| i-Heptane | 0.145893 | 0.00690002 | * | 0.0282315 | 0.0256125 | 0.00787711 |
| 3,3-Dimethylpentane | 0.0106483 | 0.000363001 | * | 0.00163883 | 0.00157371 | 0.00046523 |
| cis-1,3-Dimethylcyclopentane | 0.121051 | 0.00156401 | * | 0.00935469 | 0.00767725 | 0.00235224 |
| 3-Ethylpentane | 0.0515941 | 0.00156401 | * | 0.00758568 | 0.00636652 | 0.00208106 |
| Cycloheptane | 0.00373666 | 3.80001E-05 | * | 0.000230894 | 0.000171019 | 0 |
| Methylcyclohexane | 0.346018 | 0.00530302 | * | 0.0259859 | 0.0232173 | 0.0058646 |
| 2,2-Dimethylhexane | 0.11159 | 0.00530302 | * | 0.0192522 | 0.0177842 | 0.00479241 |
| i-Octane | 0.133584 | 0.00530302 | * | 0.0206325 | 0.0188011 | 0.00500553 |
| n-Heptane | 0.346592 | 0.01267 | * | 0.0539701 | 0.047945 | 0.0127411 |
| Toluene | 4.5556 | 0.00827003 | * | 0.0476232 | 0.051427 | 0.00917522 |
| trans-1,2-Dimethylcyclopentane | 0.0312213 | 0.000386501 | * | 0.00229926 | 0.00177175 | 0.000552394 |
| cis-1,2-Dimethylcyclopentane | 0.0354145 | 0.000386501 | * | 0.00226491 | 0.00173945 | 0.000536937 |
| trans-1,3-Dimethylcyclopentane | 0.213036 | 0.00259601 | * | 0.0159715 | 0.0122015 | 0.0038614 |
| 1-Ethyl-1-Methylcyclopentane | 0.0200545 | 0.000243001 | * | 0.00111064 | 0.00116169 | 0.000273557 |
| 2,2,3-Trimethylpentane | 0.0259061 | 0.000719003 | * | 0.00332896 | 0.00279038 | 0.000705975 |
| 2,3,4-Trimethylpentane | 0.0364595 | 0.000918003 | * | 0.00420195 | 0.00372954 | 0.000883481 |
| 2,5-Dimethylhexane | 0 | 0 | * | 0 | 0 | 0 |
| 2-Methylheptane | 0.0316028 | 0.0012415 | * | 0.00436622 | 0.00500326 | 0.000950474 |
| 4-Methylheptane | 0.0361488 | 0.0012415 | * | 0.00452865 | 0.00515564 | 0.000964329 |
| 3,3-Dimethylhexane | 0.00803825 | 0.000253001 | * | 0.000888593 | 0.00120849 | 0.000244312 |
| 3-Methylheptane | 0.0176255 | 0.000591002 | * | 0.0021909 | 0.00253019 | 0.000472498 |
| cis-1,2-Dimethylcyclohexane | 0.0645688 | 0.001342 | * | 0.00535667 | 0.00496709 | 0.00128341 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|
| cis-1,3-Dimethylcyclohexane | 0.00912238 | 0.000209001 * | 0.000898439 | 0.00106637 | 0.000153974 |
| Cyclooctane | 0.0599667 | 8.70003E-05 * | 0.000210497 | 0.000134417 | 0 |
| Ethylbenzene | 0.151457 | 0.000337001 * | 0.00153763 | 0.00213208 | 0.000278748 |
| Ethylcyclohexane | 0.0284936 | 0.000446002 * | 0.00173779 | 0.00195193 | 0.000286507 |
| m-Xylene | 0.164073 | 0.000384001 * | 0.00182278 | 0.00220102 | 0.000285323 |
| p-Xylene | 0.156649 | 0.000384001 * | 0.00183035 | 0.00221398 | 0.000288206 |
| n-Octane | 0.0468186 | 0.00161701 * | 0.00649774 | 0.00665428 | 0.0011297 |
| o-Xylene | 0.140034 | 0.000249001 * | 0.00100498 | 0.00125845 | 0.000212109 |
| trans-1,3-Dimethylcyclohexane | 0.00932461 | 0.000201001 * | 0.000997445 | 0.000926247 | 0.000186257 |
| 1,1,2-Trimethylcyclohexane | 0.00178123 | 5.30002E-05 * | 9.31076E-05 | 0.000112739 | 9.33393E-05 |
| 1,2,3-Trimethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0.0110266 | 3.80001E-05 * | 0.000161671 | 0.000188234 | 3.87334E-05 |
| tert-Butylbenzene | 0.00659595 | 3.80001E-05 * | 0.000139912 | 0.000166409 | 3.51794E-05 |
| 1,3,5-Trimethylbenzene | 0 | 0 * | 0.000658544 | 0.000194151 | 0.000117174 |
| 2,2,3-Trimethylhexane | 0.00182968 | 0.000111 * | 0.000137812 | 0.000140239 | 0 |
| 2,2,4-Trimethylhexane | 0.00429572 | 0.000270001 * | 0.000882449 | 0.000895602 | 0.000216723 |
| 2,2-Dimethylheptane | 0 | 0 * | 0.000151977 | 0.000260633 | 9.86075E-05 |
| 2,3,4-Trimethylhexane | 0.00445592 | 0.000123 * | 0.000364525 | 0.000484978 | 6.96075E-05 |
| 2,4,4-Trimethylhexane | 0 | 0 * | 0 | 0 | 0 |
| 2,5-Dimethylheptane | 0.00759468 | 0.000260001 * | 0.000807904 | 0.00102257 | 9.62757E-05 |
| Isononane | 0 | 0 * | 0 | 9.17627E-05 | 0 |
| 3,4-Dimethylheptane | 0.00201644 | 5.60002E-05 * | 0.0001842 | 0.000224578 | 0 |
| Isopropylbenzene | 0.0251839 | 9.25003E-05 * | 0 | 0.000245224 | 0 |
| 1,1,3-Trimethylcyclopentane | 0.00270575 | 9.25003E-05 * | 0 | 0.000210013 | 0 |
| Methylcyclopropane | 0 | 0 * | 0 | 0 | 0 |
| m-Ethyltoluene | 0 | 0 * | 0.000157756 | 0.00018512 | 3.3104E-05 |
| p-Ethyltoluene | 0 | 0 * | 0.000162333 | 0.00018761 | 3.27721E-05 |
| n-Nonane | 0.00523235 | 0.000190001 * | 0.000491276 | 0.000609918 | 0.000128245 |
| Propylbenzene | 0.0193322 | 7.10003E-05 * | 0.000408441 | 0.000256364 | 6.32992E-05 |
| Propylcyclohexane | 0.003015 | 5.30002E-05 * | 0.000200767 | 0 | 3.85233E-05 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,3-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,4-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 2-Methylnonane | 0 | 0 * | 0 | 0 | 0 |
| 3-Ethyloctane | 0 | 0 * | 0 | 0 | 0 |
| 3-Methylnonane | 0 | 0 * | 0 | 0 | 0 |
| 4-Methylnonane | 0 | 0 * | 0 | 0 | 3.79935E-05 |
| Butylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Butylcyclohexane | 0 | 0 * | 0 | 0 | 0 |
| Isobutylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Naphthalene | 0 | 0 * | 0.000116654 | 5.53654E-07 | 3.01329E-05 |
| n-Decane | 0 | 0 * | 7.73329E-05 | 0 | 4.90188E-05 |
| sec-Butylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Undecane | 0.000624824 | 4.40002E-05 * | 6.72291E-05 | 8.81528E-05 | 3.83533E-05 |
| Pentylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Dodecane | 0.00044855 | 5.10002E-05 * | 8.27187E-05 | 0 | 0 |
| n-Tridecane | 0.000480468 | 7.80003E-05 * | 6.16424E-05 | 4.75211E-05 | 2.90989E-05 |
| n-Tetradecane | 0.000347398 | 9.80003E-05 * | 5.18732E-05 | 0 | 1.57277E-05 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|---|
| n-Pentadecane | 0.000143168 | 6.50002E-05 | * | 0 | 0 | 0 |
| H2O | 13.1338 | 0 | * | 1.27108 | 0.861129 | 0.32415 |
| MDEA | 0.00920105 | 0 | * | 6.01769E-06 | 2.42075E-05 | 1.40066E-06 |
| Piperazine | 7.6823E-09 | 0 | * | 0 | 4.7068E-06 | 0 |
| TEG | 5.57197E-11 | 0 | * | 0.000415703 | 0.000356021 | 0.000108079 |

| Mass Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|---|
| Helium | 2.05101E-05 | 0.00252859 | * | 0.000816964 | 0.000811419 | 0.000616962 |
| N2 | 0.00707347 | 2.321 | * | 0.382511 | 0.750322 | 0.285436 |
| CO2 | 16.8627 | 7.52826 | * | 0.122014 | 0.0300298 | 12.3695 |
| O2 | 1.58466E-05 | 0.00509007 | * | 0.00163976 | 0.0232519 | 0.00108245 |
| Argon | 0.000646029 | 0.00635455 | * | 0.0111088 | 0.161635 | 0.00709721 |
| H2S | 0.00294913 | 0.000154893 | * | 0 | 0 | 0.0162312 |
| C1 | 2.12523 | 54.3084 | * | 31.2808 | 31.183 | 26.8057 |
| C2 | 5.10096 | 15.3335 | * | 21.3332 | 20.4985 | 21.3355 |
| C3 | 9.30356 | 10.685 | * | 20.4209 | 20.5237 | 20.4602 |
| iC4 | 2.27651 | 1.86231 | * | 3.75874 | 4.01119 | 3.56212 |
| nC4 | 9.34501 | 4.17053 | * | 10.5889 | 10.9588 | 9.12524 |
| iC5 | 4.02622 | 1.16046 | * | 2.9567 | 3.30275 | 2.03958 |
| nC5 | 5.3041 | 1.18407 | * | 3.32282 | 3.3792 | 2.05942 |
| Neo-Pentane | 0 | 0 | * | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0.0725483 | 0.0141623 | * | 0.037489 | 0.0395704 | 0.0199264 |
| 2,3-Dimethylbutane | 0.265307 | 0.0359031 | * | 0.105009 | 0.100318 | 0.049172 |
| Cyclopentane | 0.804496 | 0.0292194 | * | 0.135489 | 0.123968 | 0.0528972 |
| i-Hexane | 1.74625 | 0.273646 | * | 0.776882 | 0.779892 | 0.377162 |
| 3-Methylpentane | 1.07896 | 0.130637 | * | 0.408383 | 0.413569 | 0.178643 |
| Benzene | 12.3002 | 0.0620058 | * | 0.310629 | 0.243485 | 0.083085 |
| Cyclohexane | 3.98195 | 0.130541 | * | 0.536402 | 0.461958 | 0.155342 |
| Methylcyclopentane | 3.60565 | 0.120792 | * | 0.568575 | 0.487087 | 0.183485 |
| C6 | 2.32382 | 0.280606 | * | 0.86805 | 0.803467 | 0.347548 |
| 1,1-Dimethylcyclopentane | 0.624387 | 0.0194272 | * | 0.0857402 | 0.0745641 | 0.0197381 |
| 3-Methylhexane | 0.233503 | 0.0198261 | * | 0.0677619 | 0.060574 | 0.0172865 |
| 2,2-Dimethylpentane | 0.0201996 | 0.00291915 | * | 0.00982166 | 0.0082166 | 0.00314444 |
| 2,3-Dimethylpentane | 0.115351 | 0.00859349 | * | 0.0277031 | 0.0306163 | 0.00778244 |
| 2,4-Dimethylhexane | 0.0301623 | 0.00279824 | * | 0.00836945 | 0.00811839 | 0.00177153 |
| Ethylcyclopentane | 0.0960837 | 0.00240525 | * | 0.00996641 | 0.00932397 | 0.00187602 |
| 2,4-Dimethylpentane | 0.00452774 | 0.000655783 | * | 0.0020402 | 0.00181059 | 0.000646401 |
| i-Heptane | 0.286327 | 0.031423 | * | 0.101146 | 0.0912768 | 0.0271735 |
| 3,3-Dimethylpentane | 0.020898 | 0.00165312 | * | 0.0058715 | 0.00560831 | 0.0016049 |
| cis-1,3-Dimethylcyclopentane | 0.232792 | 0.00697924 | * | 0.0328412 | 0.0268094 | 0.00795121 |
| 3-Ethylpentane | 0.101257 | 0.00712254 | * | 0.0271775 | 0.0226887 | 0.00717898 |
| Cycloheptane | 0.00718595 | 0.000169572 | * | 0.000810591 | 0.000597209 | 0 |
| Methylcyclohexane | 0.665426 | 0.0236643 | * | 0.0912278 | 0.0810763 | 0.019824 |
| 2,2-Dimethylhexane | 0.249662 | 0.0275307 | * | 0.078631 | 0.0722506 | 0.0188465 |
| i-Octane | 0.298868 | 0.0275307 | * | 0.0842685 | 0.076382 | 0.0196846 |
| n-Heptane | 0.680214 | 0.0576998 | * | 0.193361 | 0.170864 | 0.0439528 |
| Toluene | 8.22124 | 0.0346312 | * | 0.156891 | 0.168525 | 0.0291045 |
| trans-1,2-Dimethylcyclopentane | 0.0600415 | 0.00172473 | * | 0.00807193 | 0.00618707 | 0.00186725 |
| cis-1,2-Dimethylcyclopentane | 0.0681053 | 0.00172473 | * | 0.00795133 | 0.00607425 | 0.001815 |
| trans-1,3-Dimethylcyclopentane | 0.409688 | 0.0115845 | * | 0.0560705 | 0.0426084 | 0.0130526 |
| 1-Ethyl-1-Methylcyclopentane | 0.0440762 | 0.00123928 | * | 0.00445612 | 0.00463624 | 0.0010568 |
| 2,2,3-Trimethylpentane | 0.0579599 | 0.00373272 | * | 0.0135964 | 0.0113363 | 0.0027763 |
| 2,3,4-Trimethylpentane | 0.081571 | 0.00476583 | * | 0.0171619 | 0.0151517 | 0.00347436 |
| 2,5-Dimethylhexane | 0 | 0 | * | 0 | 0 | 0 |
| 2-Methylheptane | 0.0707051 | 0.0064453 | * | 0.0178328 | 0.0203264 | 0.00373781 |
| 4-Methylheptane | 0.0808759 | 0.0064453 | * | 0.0184962 | 0.0209454 | 0.0037923 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Fraction | RH6 BTEX to RH5 TO<br>% | RH6 Dehy Inlet<br>% | 30<br>% | 62<br>% | 96<br>% |
|---|---|---|---|---|---|
| 3,3-Dimethylhexane | 0.017984 | 0.00131346 * | 0.00362925 | 0.00490962 | 0.000960776 |
| 3-Methylheptane | 0.0394335 | 0.0030682 * | 0.00894823 | 0.0102792 | 0.00185813 |
| cis-1,2-Dimethylcyclohexane | 0.141911 | 0.0068441 * | 0.021492 | 0.0198233 | 0.00495803 |
| cis-1,3-Dimethylcyclohexane | 0.0200494 | 0.00106588 * | 0.00360471 | 0.0042558 | 0.000594827 |
| Cyclooctane | 0.131796 | 0.000443693 * | 0.000844554 | 0.000536449 | 0 |
| Ethylbenzene | 0.314935 | 0.00162605 * | 0.00583678 | 0.00805039 | 0.00101882 |
| Ethylcyclohexane | 0.0626239 | 0.00227457 * | 0.00697236 | 0.00779 | 0.00110683 |
| m-Xylene | 0.341169 | 0.00185282 * | 0.00691921 | 0.00831071 | 0.00104285 |
| p-Xylene | 0.325731 | 0.00185282 * | 0.00694794 | 0.00835963 | 0.00105339 |
| n-Octane | 0.104748 | 0.00839472 * | 0.0265385 | 0.0270338 | 0.00444262 |
| o-Xylene | 0.291182 | 0.00120144 * | 0.00381486 | 0.00475171 | 0.000775252 |
| trans-1,3-Dimethylcyclohexane | 0.0204938 | 0.00102508 * | 0.00400194 | 0.00369659 | 0.000719545 |
| 1,1,2-Trimethylcyclohexane | 0.00440418 | 0.000304083 * | 0.000420261 | 0.000506176 | 0.000405659 |
| 1,2,3-Trimethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0.0259576 | 0.000207577 * | 0.000694778 | 0.000804645 | 0.000160274 |
| tert-Butylbenzene | 0.0173396 | 0.000231802 * | 0.000671438 | 0.000794366 | 0.000162556 |
| 1,3,5-Trimethylbenzene | 0 | 0 * | 0.00283008 | 0.00082994 | 0.000484851 |
| 2,2,3-Trimethylhexane | 0.0045962 | 0.000647022 * | 0.000631978 | 0.0006397 | 0 |
| 2,2,4-Trimethylhexane | 0.010791 | 0.00157384 * | 0.00404673 | 0.00408528 | 0.000956934 |
| 2,2-Dimethylheptane | 0 | 0 * | 0.000696937 | 0.00118888 | 0.000435399 |
| 2,3,4-Trimethylhexane | 0.0111934 | 0.000716971 * | 0.00167163 | 0.00221222 | 0.00030735 |
| 2,4,4-Trimethylhexane | 0 | 0 * | 0 | 0 | 0 |
| 2,5-Dimethylheptane | 0.0190781 | 0.00151555 * | 0.00370488 | 0.00466446 | 0.000425103 |
| Isononane | 0 | 0 * | 0 | 0.000418574 | 0 |
| 3,4-Dimethylheptane | 0.00506536 | 0.000326426 * | 0.000844701 | 0.00102441 | 0 |
| Isopropylbenzene | 0.0592854 | 0.000505286 * | 0 | 0.00104826 | 0 |
| 1,1,3-Trimethylcyclopentane | 0.00594676 | 0.000471743 * | 0 | 0.000838148 | 0 |
| Methylcyclopropane | 0 | 0 * | 0 | 0 | 0 |
| m-Ethyltoluene | 0 | 0 * | 0.000677954 | 0.000791333 | 0.00013698 |
| p-Ethyltoluene | 0 | 0 * | 0.000697622 | 0.000801976 | 0.000135607 |
| n-Nonane | 0.0131438 | 0.00110752 * | 0.00225289 | 0.00278213 | 0.000566264 |
| Propylbenzene | 0.0455099 | 0.000387841 * | 0.00175527 | 0.00109588 | 0.000261924 |
| Propylcyclohexane | 0.00745474 | 0.000304083 * | 0.000906203 | 0 | 0.000167425 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,3-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,4-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 2-Methylnonane | 0 | 0 * | 0 | 0 | 0 |
| 3-Ethyloctane | 0 | 0 * | 0 | 0 | 0 |
| 3-Methylnonane | 0 | 0 * | 0 | 0 | 0 |
| 4-Methylnonane | 0 | 0 * | 0 | 0 | 0.000186106 |
| Butylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Butylcyclohexane | 0 | 0 * | 0 | 0 | 0 |
| Isobutylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Naphthalene | 0 | 0 * | 0.000534596 | 2.52382E-06 | 0.000132963 |
| n-Decane | 0 | 0 * | 0.000393417 | 0 | 0.000240112 |
| sec-Butylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Undecane | 0.00191289 | 0.000312577 * | 0.000375733 | 0.000490061 | 0.000206389 |
| Pentylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Dodecane | 0.00149646 | 0.000394817 * | 0.000503787 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|---|
| n-Tridecane | 0.00173494 | 0.000653561 | * | 0.00040634 | 0.000311594 | 0.000184693 |
| n-Tetradecane | 0.00134987 | 0.000883615 | * | 0.000367958 | 0 | 0.00010742 |
| n-Pentadecane | 0.000595634 | 0.000627508 | * | 0 | 0 | 0 |
| H2O | 4.63428 | 0 | * | 0.818752 | 0.551748 | 0.201043 |
| MDEA | 0.0214747 | 0 | * | 2.56394E-05 | 0.000102594 | 5.74611E-06 |
| Piperazine | 1.29606E-08 | 0 | * | 0 | 1.44192E-05 | 0 |
| TEG | 1.63889E-10 | 0 | * | 0.00223211 | 0.00190151 | 0.000558773 |

| Mass Flow | RH6 BTEX to RH5 TO lb/h | RH6 Dehy Inlet lb/h | | 30 lb/h | 62 lb/h | 96 lb/h |
|---|---|---|---|---|---|---|
| Helium | 6.24744E-05 | 18.2834 | * | 0.00172639 | 0.00236968 | 0.000479669 |
| N2 | 0.021546 | 16782.3 | * | 0.808312 | 2.19125 | 0.221918 |
| CO2 | 51.3643 | 54434.2 | * | 0.257836 | 0.0876993 | 9.6169 |
| O2 | 4.82692E-05 | 36.8045 | * | 0.0034651 | 0.0679051 | 0.000841576 |
| Argon | 0.00196782 | 45.9475 | * | 0.0234747 | 0.47204 | 0.00551787 |
| H2S | 0.00898312 | 1.11998 | * | 0 | 0 | 0.0126193 |
| C1 | 6.47349 | 392684 | * | 66.1017 | 91.0673 | 20.8407 |
| C2 | 15.5377 | 110871 | * | 45.0808 | 59.8642 | 16.5877 |
| C3 | 28.3389 | 77259.5 | * | 43.1528 | 59.9378 | 15.9072 |
| iC4 | 6.93433 | 13465.7 | * | 7.94287 | 11.7143 | 2.76945 |
| nC4 | 28.4652 | 30155.6 | * | 22.3762 | 32.0042 | 7.0946 |
| iC5 | 12.264 | 8390.89 | * | 6.24802 | 9.6454 | 1.58571 |
| nC5 | 16.1564 | 8561.6 | * | 7.0217 | 9.86868 | 1.60114 |
| Neo-Pentane | 0 | 0 | * | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0.220984 | 102.402 | * | 0.0792206 | 0.115562 | 0.0154922 |
| 2,3-Dimethylbutane | 0.808132 | 259.603 | * | 0.221902 | 0.29297 | 0.0382297 |
| Cyclopentane | 2.45052 | 211.275 | * | 0.286312 | 0.362038 | 0.041126 |
| i-Hexane | 5.31913 | 1978.64 | * | 1.64168 | 2.27761 | 0.293232 |
| 3-Methylpentane | 3.28655 | 944.589 | * | 0.862983 | 1.20779 | 0.13889 |
| Benzene | 37.4668 | 448.341 | * | 0.656412 | 0.711076 | 0.0645961 |
| Cyclohexane | 12.1291 | 943.898 | * | 1.13351 | 1.34911 | 0.120774 |
| Methylcyclopentane | 10.9829 | 873.401 | * | 1.2015 | 1.42249 | 0.142654 |
| C6 | 7.07841 | 2028.96 | * | 1.83434 | 2.34646 | 0.270208 |
| 1,1-Dimethylcyclopentane | 1.9019 | 140.471 | * | 0.181184 | 0.217758 | 0.0153458 |
| 3-Methylhexane | 0.711256 | 143.355 | * | 0.143193 | 0.176901 | 0.0134398 |
| 2,2-Dimethylpentane | 0.0615285 | 21.1073 | * | 0.0207548 | 0.0239959 | 0.00244471 |
| 2,3-Dimethylpentane | 0.351361 | 62.1365 | * | 0.0585414 | 0.0894122 | 0.00605062 |
| 2,4-Dimethylhexane | 0.0918751 | 20.2331 | * | 0.0176861 | 0.0237091 | 0.00137731 |
| Ethylcyclopentane | 0.292674 | 17.3915 | * | 0.0210607 | 0.0272299 | 0.00145855 |
| 2,4-Dimethylpentane | 0.0137916 | 4.74173 | * | 0.0043113 | 0.00528766 | 0.000502558 |
| i-Heptane | 0.872159 | 227.208 | * | 0.213739 | 0.266566 | 0.0211266 |
| 3,3-Dimethylpentane | 0.063656 | 11.9531 | * | 0.0124075 | 0.0163786 | 0.00124776 |
| cis-1,3-Dimethylcyclopentane | 0.709092 | 50.4644 | * | 0.0693991 | 0.0782947 | 0.00618183 |
| 3-Ethylpentane | 0.308433 | 51.5005 | * | 0.0574308 | 0.0662605 | 0.00558144 |
| Cycloheptane | 0.0218886 | 1.22612 | * | 0.00171292 | 0.0017441 | 0 |
| Methylcyclohexane | 2.0269 | 171.108 | * | 0.19278 | 0.236776 | 0.0154125 |
| 2,2-Dimethylhexane | 0.760476 | 199.065 | * | 0.166161 | 0.211002 | 0.0146526 |
| i-Octane | 0.910359 | 199.065 | * | 0.178074 | 0.223067 | 0.0153042 |
| n-Heptane | 2.07195 | 417.207 | * | 0.408605 | 0.498995 | 0.034172 |
| Toluene | 25.0421 | 250.406 | * | 0.331538 | 0.492162 | 0.0226279 |
| trans-1,2-Dimethylcyclopentane | 0.182888 | 12.4709 | * | 0.0170574 | 0.0180688 | 0.00145173 |
| cis-1,2-Dimethylcyclopentane | 0.207451 | 12.4709 | * | 0.0168025 | 0.0177393 | 0.00141111 |
| trans-1,3-Dimethylcyclopentane | 1.24792 | 83.7632 | * | 0.118487 | 0.124434 | 0.010148 |
| 1-Ethyl-1-Methylcyclopentane | 0.134257 | 8.9608 | * | 0.00941654 | 0.0135397 | 0.000821631 |
| 2,2,3-Trimethylpentane | 0.176547 | 26.9899 | * | 0.0287314 | 0.0331066 | 0.00215849 |
| 2,3,4-Trimethylpentane | 0.248468 | 34.46 | * | 0.036266 | 0.0442492 | 0.00270121 |
| 2,5-Dimethylhexane | 0 | 0 | * | 0 | 0 | 0 |
| 2-Methylheptane | 0.21537 | 46.6036 | * | 0.0376838 | 0.0593614 | 0.00290604 |
| 4-Methylheptane | 0.24635 | 46.6036 | * | 0.0390857 | 0.0611693 | 0.0029484 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Flow | RH6 BTEX to RH5 TO lb/h | RH6 Dehy Inlet lb/h | 30 lb/h | 62 lb/h | 96 lb/h |
|---|---|---|---|---|---|
| 3,3-Dimethylhexane | 0.0547798 | 9.49716 * | 0.00766923 | 0.0143381 | 0.000746975 |
| 3-Methylheptane | 0.120116 | 22.1851 * | 0.0189091 | 0.0300196 | 0.00144464 |
| cis-1,2-Dimethylcyclohexane | 0.432263 | 49.4872 * | 0.0454163 | 0.0578923 | 0.00385472 |
| cis-1,3-Dimethylcyclohexane | 0.0610709 | 7.70702 * | 0.00761737 | 0.0124287 | 0.00046246 |
| Cyclooctane | 0.401454 | 3.20819 * | 0.00178469 | 0.00156665 | 0 |
| Ethylbenzene | 0.959299 | 11.7574 * | 0.0123341 | 0.0235105 | 0.000792099 |
| Ethylcyclohexane | 0.190754 | 16.4466 * | 0.0147338 | 0.02275 | 0.000860525 |
| m-Xylene | 1.03921 | 13.3971 * | 0.0146215 | 0.0242707 | 0.000810784 |
| p-Xylene | 0.992185 | 13.3971 * | 0.0146822 | 0.0244136 | 0.000818977 |
| n-Octane | 0.319064 | 60.6992 * | 0.0560805 | 0.07895 | 0.00345401 |
| o-Xylene | 0.886949 | 8.68719 * | 0.00806145 | 0.0138769 | 0.000602735 |
| trans-1,3-Dimethylcyclohexane | 0.0624247 | 7.41202 * | 0.00845679 | 0.0107956 | 0.000559425 |
| 1,1,2-Trimethylcyclohexane | 0.0134153 | 2.19871 * | 0.000888084 | 0.00147824 | 0.000315388 |
| 1,2,3-Trimethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0.0790676 | 1.50092 * | 0.00146818 | 0.0023499 | 0.000124608 |
| tert-Butylbenzene | 0.0528169 | 1.67608 * | 0.00141886 | 0.00231988 | 0.000126382 |
| 1,3,5-Trimethylbenzene | 0 | 0 * | 0.00598044 | 0.00242377 | 0.000376958 |
| 2,2,3-Trimethylhexane | 0.0140002 | 4.67839 * | 0.00133548 | 0.00186819 | 0 |
| 2,2,4-Trimethylhexane | 0.0328696 | 11.3799 * | 0.00855143 | 0.0119307 | 0.000743988 |
| 2,2-Dimethylheptane | 0 | 0 * | 0.00147275 | 0.00347201 | 0.00033851 |
| 2,3,4-Trimethylhexane | 0.0340955 | 5.18416 * | 0.00353245 | 0.00646061 | 0.000238956 |
| 2,4,4-Trimethylhexane | 0 | 0 * | 0 | 0 | 0 |
| 2,5-Dimethylheptane | 0.0581123 | 10.9584 * | 0.00782905 | 0.0136221 | 0.000330505 |
| Isononane | 0 | 0 * | 0 | 0.00122241 | 0 |
| 3,4-Dimethylheptane | 0.0154292 | 2.36027 * | 0.001785 | 0.0029917 | 0 |
| Isopropylbenzene | 0.180585 | 3.65354 * | 0 | 0.00306136 | 0 |
| 1,1,3-Trimethylcyclopentane | 0.018114 | 3.411 * | 0 | 0.00244774 | 0 |
| Methylcyclopropane | 0 | 0 * | 0 | 0 | 0 |
| m-Ethyltoluene | 0 | 0 * | 0.00143263 | 0.00231102 | 0.000106498 |
| p-Ethyltoluene | 0 | 0 * | 0.00147419 | 0.0023421 | 0.00010543 |
| n-Nonane | 0.0400365 | 8.00805 * | 0.00476074 | 0.00812498 | 0.000440254 |
| Propylbenzene | 0.138624 | 2.80434 * | 0.00370918 | 0.00320043 | 0.000203638 |
| Propylcyclohexane | 0.0227073 | 2.19871 * | 0.00191496 | 0 | 0.000130168 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,3-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,4-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 2-Methylnonane | 0 | 0 * | 0 | 0 | 0 |
| 3-Ethyloctane | 0 | 0 * | 0 | 0 | 0 |
| 3-Methylnonane | 0 | 0 * | 0 | 0 | 0 |
| 4-Methylnonane | 0 | 0 * | 0 | 0 | 0.000144692 |
| Butylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Butylcyclohexane | 0 | 0 * | 0 | 0 | 0 |
| Isobutylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Naphthalene | 0 | 0 * | 0.00112969 | 7.3706E-06 | 0.000103375 |
| n-Decane | 0 | 0 * | 0.000831357 | 0 | 0.00018668 |
| sec-Butylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Undecane | 0.00582672 | 2.26013 * | 0.000793988 | 0.00143118 | 0.000160462 |
| Pentylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Dodecane | 0.00455826 | 2.85478 * | 0.00106459 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Flow | RH6 BTEX to RH5 TO lb/h | RH6 Dehy Inlet lb/h | 30 lb/h | 62 lb/h | 96 lb/h |
|---|---|---|---|---|---|
| n-Tridecane | 0.00528468 | 4.72567 * | 0.000858666 | 0.000909982 | 0.000143593 |
| n-Tetradecane | 0.00411175 | 6.38911 * | 0.000777559 | 0 | 8.35155E-05 |
| n-Pentadecane | 0.00181432 | 4.53729 * | 0 | 0 | 0 |
| H2O | 14.1161 | 0 * | 1.73016 | 1.61133 | 0.156305 |
| MDEA | 0.0654124 | 0 * | 5.41805E-05 | 0.000299616 | 4.46743E-06 |
| Piperazine | 3.94783E-08 | 0 * | 0 | 4.21099E-05 | 0 |
| TEG | 4.99212E-10 | 0 * | 0.00471682 | 0.0055532 | 0.00043443 |

## Stream Properties

| Property | Units | RH6 BTEX to RH5 TO | RH6 Dehy Inlet | 30 | 62 | 96 |
|---|---|---|---|---|---|---|
| Temperature | °F | 120 | 120 * | 147.438 | 141.93 | 124.761 |
| Pressure | psig | 0 | 875 * | 60 | 60 | 110 |
| Molecular Weight | lb/lbmol | 51.0563 | 22.0029 | 27.9679 | 28.1169 | 29.0467 |
| Mass Density | lb/ft^3 | 0.107326 | 3.71668 | 0.320157 | 0.325048 | 0.593589 |
| Mass Flow | lb/h | 304.603 | 723064 | 211.317 | 292.041 | 77.747 |
| Std Vapor Volumetric Flow | MMSCFD | 0.0543364 | 299.298 | 0.0688146 | 0.0945982 | 0.0243777 |
| Std Liquid Volumetric Flow | sgpm | 0.920609 | 3954.02 | 1.0464 | 1.44006 | 0.367232 |
| Specific Gravity | | 1.76284 | 0.759703 | 0.96566 | 0.970805 | 1.00291 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 2162.03 | 1205.12 | 1626.19 | 1631.23 | 1494.25 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Connections

| | 132 | 158 | 232 | | |
|---|---|---|---|---|---|
| From Block | VLVE-113 | VLVE-120 | VLVE-125 | | |
| To Block | -- | -- | -- | | |

## Stream Composition

| Mole Fraction | 132 % | 158 % | 232 % | | |
|---|---|---|---|---|---|
| Helium | 0.00606521 | 0.0068575 | 0.00455397 | | |
| N2 | 0.361305 | 0.561129 | 0.34216 | | |
| CO2 | 0.167368 | 0.0650938 | 14.5459 | | |
| O2 | 0.0010589 | 0.00329138 | 0.000650705 | | |
| Argon | 0.00595058 | 0.0178026 | 0.00369726 | | |
| H2S | 0 | 0 | 0.000702459 | | |
| C1 | 46.187 | 55.4915 | 46.6501 | | |
| C2 | 21.6585 | 19.8705 | 17.2794 | | |
| C3 | 17.2985 | 12.6866 | 11.2783 | | |
| iC4 | 2.45066 | 1.72274 | 1.55327 | | |
| nC4 | 6.87223 | 4.76649 | 4.3248 | | |
| iC5 | 1.40534 | 1.05677 | 0.973494 | | |
| nC5 | 1.51759 | 1.17277 | 1.08678 | | |
| Neo-Pentane | 0 | 0 | 0 | | |
| 2,2-Dimethylbutane | 0.0111898 | 0.00994351 | 0.0101798 | | |
| 2,3-Dimethylbutane | 0.0346117 | 0.0296535 | 0.0278096 | | |
| Cyclopentane | 0.0544111 | 0.0467508 | 0.0426553 | | |
| i-Hexane | 0.234833 | 0.215523 | 0.201334 | | |
| 3-Methylpentane | 0.115655 | 0.110357 | 0.102128 | | |
| Benzene | 0.0998929 | 0.0934446 | 0.0931149 | | |
| Cyclohexane | 0.133202 | 0.145009 | 0.136115 | | |
| Methylcyclopentane | 0.142519 | 0.146407 | 0.134208 | | |
| C6 | 0.229397 | 0.23293 | 0.214543 | | |
| 1,1-Dimethylcyclopentane | 0.0134925 | 0.0188901 | 0.0166286 | | |
| 3-Methylhexane | 0.0105303 | 0.0146741 | 0.0131674 | | |
| 2,2-Dimethylpentane | 0.00162758 | 0.00222024 | 0.00178268 | | |
| 2,3-Dimethylpentane | 0.00532204 | 0.00668175 | 0.00591568 | | |
| 2,4-Dimethylhexane | 0.000972779 | 0.00164126 | 0.00146052 | | |
| Ethylcyclopentane | 0.00133558 | 0.00226344 | 0.00196012 | | |
| 2,4-Dimethylpentane | 0.000436291 | 0.000513374 | 0.000399688 | | |
| i-Heptane | 0.0160634 | 0.0218896 | 0.0197451 | | |
| 3,3-Dimethylpentane | 0.000886955 | 0.00115971 | 0.00113872 | | |
| cis-1,3-Dimethylcyclopentane | 0.00494881 | 0.00683861 | 0.00591213 | | |
| 3-Ethylpentane | 0.00404491 | 0.00555764 | 0.00488312 | | |
| Cycloheptane | 7.30358E-05 | 0.000154864 | 0.000134172 | | |
| Methylcyclohexane | 0.013331 | 0.0200815 | 0.0183523 | | |
| 2,2-Dimethylhexane | 0.00990449 | 0.0149544 | 0.0139552 | | |
| i-Octane | 0.010562 | 0.0159962 | 0.0147507 | | |
| n-Heptane | 0.0272932 | 0.0418295 | 0.0372086 | | |
| Toluene | 0.0283753 | 0.0391423 | 0.0374886 | | |
| trans-1,2-Dimethylcyclopentane | 0.00122857 | 0.00162026 | 0.00146799 | | |
| cis-1,2-Dimethylcyclopentane | 0.00120289 | 0.00159678 | 0.00144172 | | |
| trans-1,3-Dimethylcyclopentane | 0.00841401 | 0.0111775 | 0.00990087 | | |
| 1-Ethyl-1-Methylcyclopentane | 0.000434868 | 0.000928073 | 0.000764339 | | |
| 2,2,3-Trimethylpentane | 0.00133272 | 0.00240792 | 0.00209082 | | |
| 2,3,4-Trimethylpentane | 0.0017263 | 0.00314861 | 0.00267717 | | |
| 2,5-Dimethylhexane | 0 | 0 | 0 | | |
| 2-Methylheptane | 0.00188081 | 0.0038907 | 0.0032611 | | |
| 4-Methylheptane | 0.00194147 | 0.00403419 | 0.00336056 | | |
| 3,3-Dimethylhexane | 0.000456237 | 0.000915332 | 0.000711266 | | |
| 3-Methylheptane | 0.000871382 | 0.00200893 | 0.00159613 | | |
| cis-1,2-Dimethylcyclohexane | 0.00198256 | 0.00426927 | 0.0036229 | | |
| cis-1,3-Dimethylcyclohexane | 0.000243918 | 0.000761348 | 0.000577326 | | |
| Cyclooctane | 0 | 0.000442026 | 0.000285879 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | 132 % | 158 % | 232 % | | |
|---|---|---|---|---|---|
| Ethylbenzene | 0.000607871 | 0.00142158 | 0.00129611 | | |
| Ethylcyclohexane | 0.000533881 | 0.00152705 | 0.00124955 | | |
| m-Xylene | 0.000651024 | 0.00153232 | 0.00138066 | | |
| p-Xylene | 0.000654663 | 0.00153852 | 0.00139013 | | |
| n-Octane | 0.0020469 | 0.00532704 | 0.0042253 | | |
| o-Xylene | 0.00041578 | 0.000882505 | 0.000884294 | | |
| trans-1,3-Dimethylcyclohexane | 0.000351121 | 0.000818856 | 0.00055147 | | |
| 1,1,2-Trimethylcyclohexane | 8.0487E-05 | 0.000110899 | 0.000126687 | | |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 | | |
| 1,2,4-Trimethylbenzene | 0 | 0.00011336 | 0.000118003 | | |
| tert-Butylbenzene | 0 | 9.83099E-05 | 0.00010545 | | |
| 1,3,5-Trimethylbenzene | 0 | 0.000180951 | 0 | | |
| 2,2,3-Trimethylhexane | 0 | 0.000119468 | 0.000238795 | | |
| 2,2,4-Trimethylhexane | 0.000314289 | 0.00068977 | 0.0005892 | | |
| 2,2-Dimethylheptane | 0 | 0.000169641 | 0 | | |
| 2,3,4-Trimethylhexane | 9.73331E-05 | 0.000319065 | 0.000301805 | | |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 | | |
| 2,5-Dimethylheptane | 0.000145819 | 0.000601505 | 0.000620007 | | |
| Isononane | 0 | 0 | 0 | | |
| 3,4-Dimethylheptane | 0 | 0.000157669 | 0.000136455 | | |
| Isopropylbenzene | 0 | 0.000366299 | 0.000293642 | | |
| 1,1,3-Trimethylcyclopentane | 0 | 0.000283697 | 0.000256869 | | |
| Methylcyclopropane | 0 | 0 | 0 | | |
| m-Ethyltoluene | 0 | 9.9167E-05 | 0 | | |
| p-Ethyltoluene | 0 | 0.000102023 | 0 | | |
| n-Nonane | 0 | 0.000482261 | 0.000425919 | | |
| Propylbenzene | 0.000117556 | 0.00040542 | 0.000218654 | | |
| Propylcyclohexane | 4.18965E-05 | 0 | 0.000135 | | |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2-Diethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 | 0 | | |
| 1,3-Diethylbenzene | 0 | 0 | 0 | | |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 | 0 | | |
| 1,4-Diethylbenzene | 0 | 0 | 0 | | |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Propylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-4-isopropylbenzene | 0 | 0 | 0 | | |
| 2-Methylnonane | 0 | 0 | 0 | | |
| 3-Ethyloctane | 0 | 0 | 0 | | |
| 3-Methylnonane | 0 | 0 | 0 | | |
| 4-Methylnonane | 0 | 0 | 0 | | |
| Butylbenzene | 0 | 0 | 0 | | |
| Butylcyclohexane | 0 | 0 | 0 | | |
| Isobutylbenzene | 0 | 0 | 0 | | |
| Naphthalene | 0 | 0.000145611 | 0 | | |
| n-Decane | 0 | 0 | 0 | | |
| sec-Butylbenzene | 0 | 0 | 0 | | |
| Undecane | 0 | 7.93747E-05 | 7.27328E-05 | | |
| Pentylbenzene | 0 | 0 | 0 | | |
| Dodecane | 0 | 9.67474E-05 | 6.53777E-05 | | |
| n-Tridecane | 3.78139E-05 | 0.000147542 | 8.55424E-05 | | |
| n-Tetradecane | 2.57376E-05 | 0 | 8.02569E-05 | | |
| n-Pentadecane | 0 | 0 | 4.62352E-05 | | |
| H2O | 0.835313 | 1.2785 | 0.752236 | | |
| MDEA | 1.89114E-05 | 3.97431E-05 | 1.41266E-05 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | 132<br>% | 158<br>% | 232<br>% | | |
|---|---|---|---|---|---|
| Piperazine | 6.11185E-06 | 1.56441E-05 | 3.85774E-06 | | |
| TEG | 0.000350729 | 0.000413176 | 0.000336233 | | |

| Mass Fraction | 132<br>% | 158<br>% | 232<br>% | | |
|---|---|---|---|---|---|
| Helium | 0.000796653 | 0.00100103 | 0.000602618 | | |
| N2 | 0.33214 | 0.573282 | 0.316887 | | |
| CO2 | 0.241714 | 0.104478 | 21.164 | | |
| O2 | 0.00111191 | 0.00384107 | 0.000688379 | | |
| Argon | 0.00780074 | 0.025937 | 0.00488298 | | |
| H2S | 0 | 0 | 0.000791483 | | |
| C1 | 24.3149 | 32.4666 | 24.7419 | | |
| C2 | 21.3712 | 21.7905 | 17.1774 | | |
| C3 | 25.0314 | 20.4024 | 16.4418 | | |
| iC4 | 4.6742 | 3.65175 | 2.98469 | | |
| nC4 | 13.1075 | 10.1037 | 8.31032 | | |
| iC5 | 3.3273 | 2.78068 | 2.32205 | | |
| nC5 | 3.59307 | 3.0859 | 2.59226 | | |
| Neo-Pentane | 0 | 0 | 0 | | |
| 2,2-Dimethylbutane | 0.0316437 | 0.0312509 | 0.0290023 | | |
| 2,3-Dimethylbutane | 0.0978787 | 0.0931963 | 0.0792295 | | |
| Cyclopentane | 0.125225 | 0.119578 | 0.0989018 | | |
| i-Hexane | 0.664086 | 0.677356 | 0.5736 | | |
| 3-Methylpentane | 0.327062 | 0.346836 | 0.290962 | | |
| Benzene | 0.256055 | 0.266202 | 0.240462 | | |
| Cyclohexane | 0.367871 | 0.445079 | 0.378719 | | |
| Methylcyclopentane | 0.393602 | 0.44937 | 0.373414 | | |
| C6 | 0.648714 | 0.732065 | 0.611234 | | |
| 1,1-Dimethylcyclopentane | 0.0434734 | 0.0676433 | 0.0539777 | | |
| 3-Methylhexane | 0.0346258 | 0.0536251 | 0.04362 | | |
| 2,2-Dimethylpentane | 0.00535179 | 0.00811366 | 0.00590553 | | |
| 2,3-Dimethylpentane | 0.0174999 | 0.0244178 | 0.0195971 | | |
| 2,4-Dimethylhexane | 0.00364645 | 0.00683744 | 0.00551558 | | |
| Ethylcyclopentane | 0.00430329 | 0.0081051 | 0.0063627 | | |
| 2,4-Dimethylpentane | 0.00143461 | 0.00187608 | 0.00132406 | | |
| i-Heptane | 0.0528197 | 0.0799934 | 0.0654103 | | |
| 3,3-Dimethylpentane | 0.00291648 | 0.00423805 | 0.00377227 | | |
| cis-1,3-Dimethylcyclopentane | 0.0159453 | 0.0244882 | 0.0191913 | | |
| 3-Ethylpentane | 0.0133005 | 0.0203099 | 0.0161764 | | |
| Cycloheptane | 0.000235325 | 0.000554551 | 0.000435535 | | |
| Methylcyclohexane | 0.0429531 | 0.0719096 | 0.0595732 | | |
| 2,2-Dimethylhexane | 0.0371269 | 0.0622992 | 0.0527011 | | |
| i-Octane | 0.0395916 | 0.0666394 | 0.0557054 | | |
| n-Heptane | 0.0897455 | 0.152862 | 0.123262 | | |
| Toluene | 0.0857953 | 0.131531 | 0.114196 | | |
| trans-1,2-Dimethylcyclopentane | 0.0039585 | 0.00580195 | 0.0047652 | | |
| cis-1,2-Dimethylcyclopentane | 0.00387578 | 0.00571787 | 0.00467994 | | |
| trans-1,3-Dimethylcyclopentane | 0.0271103 | 0.0400253 | 0.032139 | | |
| 1-Ethyl-1-Methylcyclopentane | 0.00160133 | 0.00379808 | 0.00283555 | | |
| 2,2,3-Trimethylpentane | 0.00499569 | 0.0100313 | 0.0078959 | | |
| 2,3,4-Trimethylpentane | 0.006471 | 0.013117 | 0.0101102 | | |
| 2,5-Dimethylhexane | 0 | 0 | 0 | | |
| 2-Methylheptane | 0.0070502 | 0.0162085 | 0.0123154 | | |
| 4-Methylheptane | 0.00727758 | 0.0168063 | 0.012691 | | |
| 3,3-Dimethylhexane | 0.0017102 | 0.00381323 | 0.00268606 | | |
| 3-Methylheptane | 0.00326636 | 0.00836911 | 0.00602773 | | |
| cis-1,2-Dimethylcyclohexane | 0.00730046 | 0.0174717 | 0.0134403 | | |
| cis-1,3-Dimethylcyclohexane | 0.000898187 | 0.00311577 | 0.00214177 | | |
| Cyclooctane | 0 | 0.00180896 | 0.00106055 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Fraction | 132<br>% | 158<br>% | 232<br>% | | |
|---|---|---|---|---|---|
| Ethylbenzene | 0.00211775 | 0.00550417 | 0.00454918 | | |
| Ethylcyclohexane | 0.00196593 | 0.00624935 | 0.00463559 | | |
| m-Xylene | 0.00226809 | 0.00593294 | 0.00484593 | | |
| p-Xylene | 0.00228077 | 0.00595694 | 0.00487917 | | |
| n-Octane | 0.00767279 | 0.0221922 | 0.0159566 | | |
| o-Xylene | 0.00144853 | 0.00341695 | 0.00310376 | | |
| trans-1,3-Dimethylcyclohexane | 0.00129294 | 0.00335112 | 0.00204585 | | |
| 1,1,2-Trimethylcyclohexane | 0.000333427 | 0.000510579 | 0.000528733 | | |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 | | |
| 1,2,4-Trimethylbenzene | 0 | 0.000496906 | 0.000468895 | | |
| tert-Butylbenzene | 0 | 0.000481225 | 0.000467917 | | |
| 1,3,5-Trimethylbenzene | 0 | 0.000793188 | 0 | | |
| 2,2,3-Trimethylhexane | 0 | 0.000558815 | 0.00101253 | | |
| 2,2,4-Trimethylhexane | 0.00132277 | 0.00322641 | 0.00249832 | | |
| 2,2-Dimethylheptane | 0 | 0.000793495 | 0 | | |
| 2,3,4-Trimethylhexane | 0.000409654 | 0.00149243 | 0.00127971 | | |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 | | |
| 2,5-Dimethylheptane | 0.000613721 | 0.00281355 | 0.00262894 | | |
| Isononane | 0 | 0 | 0 | | |
| 3,4-Dimethylheptane | 0 | 0.0007375 | 0.000578593 | | |
| Isopropylbenzene | 0 | 0.00160565 | 0.00116681 | | |
| 1,1,3-Trimethylcyclopentane | 0 | 0.00116101 | 0.000952933 | | |
| Methylcyclopropane | 0 | 0 | 0 | | |
| m-Ethyltoluene | 0 | 0.000434691 | 0 | | |
| p-Ethyltoluene | 0 | 0.000447209 | 0 | | |
| n-Nonane | 0 | 0.00225578 | 0.00180597 | | |
| Propylbenzene | 0.00046366 | 0.00177713 | 0.000868844 | | |
| Propylcyclohexane | 0.000173562 | 0 | 0.000563426 | | |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2-Diethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 | 0 | | |
| 1,3-Diethylbenzene | 0 | 0 | 0 | | |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 | 0 | | |
| 1,4-Diethylbenzene | 0 | 0 | 0 | | |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Propylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-4-isopropylbenzene | 0 | 0 | 0 | | |
| 2-Methylnonane | 0 | 0 | 0 | | |
| 3-Ethyloctane | 0 | 0 | 0 | | |
| 3-Methylnonane | 0 | 0 | 0 | | |
| 4-Methylnonane | 0 | 0 | 0 | | |
| Butylbenzene | 0 | 0 | 0 | | |
| Butylcyclohexane | 0 | 0 | 0 | | |
| Isobutylbenzene | 0 | 0 | 0 | | |
| Naphthalene | 0 | 0.000680647 | 0 | | |
| n-Decane | 0 | 0 | 0 | | |
| sec-Butylbenzene | 0 | 0 | 0 | | |
| Undecane | 0 | 0.000452485 | 0.000375856 | | |
| Pentylbenzene | 0 | 0 | 0 | | |
| Dodecane | 0 | 0.000601011 | 0.000368165 | | |
| n-Tridecane | 0.000228772 | 0.000992033 | 0.000521388 | | |
| n-Tetradecane | 0.000167558 | 0 | 0.00052639 | | |
| n-Pentadecane | 0 | 0 | 0.000324688 | | |
| H2O | 0.493823 | 0.840004 | 0.448027 | | |
| MDEA | 7.3951E-05 | 0.000172719 | 5.56525E-05 | | |
| Piperazine | 1.72757E-05 | 4.91443E-05 | 1.09857E-05 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions | |
| Location: | New Mexico | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Fraction | 132<br>% | 158<br>% | 232<br>% | | |
|---|---|---|---|---|---|
| TEG | 0.0017284 | 0.00226291 | 0.00166933 | | |

| Mass Flow | 132<br>lb/h | 158<br>lb/h | 232<br>lb/h | | |
|---|---|---|---|---|---|
| Helium | 0.00286804 | 0.00202295 | 0.00252849 | | |
| N2 | 1.19574 | 1.15853 | 1.32961 | | |
| CO2 | 0.870194 | 0.211137 | 88.8007 | | |
| O2 | 0.00400298 | 0.00776228 | 0.00288833 | | |
| Argon | 0.0280835 | 0.0524152 | 0.0204882 | | |
| H2S | 0 | 0 | 0.00332094 | | |
| C1 | 87.5361 | 65.6107 | 103.813 | | |
| C2 | 76.9386 | 44.0358 | 72.0738 | | |
| C3 | 90.1157 | 41.2305 | 68.9871 | | |
| iC4 | 16.8276 | 7.3797 | 12.5233 | | |
| nC4 | 47.1885 | 20.4182 | 34.8688 | | |
| iC5 | 11.9786 | 5.61938 | 9.74297 | | |
| nC5 | 12.9354 | 6.23619 | 10.8767 | | |
| Neo-Pentane | 0 | 0 | 0 | | |
| 2,2-Dimethylbutane | 0.113921 | 0.0631539 | 0.121689 | | |
| 2,3-Dimethylbutane | 0.352373 | 0.188337 | 0.332434 | | |
| Cyclopentane | 0.450823 | 0.241651 | 0.414976 | | |
| i-Hexane | 2.39078 | 1.36885 | 2.40674 | | |
| 3-Methylpentane | 1.17746 | 0.700909 | 1.22083 | | |
| Benzene | 0.921824 | 0.537959 | 1.00894 | | |
| Cyclohexane | 1.32437 | 0.899445 | 1.58905 | | |
| Methylcyclopentane | 1.41701 | 0.908116 | 1.56679 | | |
| C6 | 2.33544 | 1.47941 | 2.56464 | | |
| 1,1-Dimethylcyclopentane | 0.156509 | 0.136698 | 0.226482 | | |
| 3-Methylhexane | 0.124656 | 0.108369 | 0.183023 | | |
| 2,2-Dimethylpentane | 0.019267 | 0.0163966 | 0.0247787 | | |
| 2,3-Dimethylpentane | 0.0630015 | 0.0493451 | 0.0822262 | | |
| 2,4-Dimethylhexane | 0.0131276 | 0.0138175 | 0.0231425 | | |
| Ethylcyclopentane | 0.0154923 | 0.0163793 | 0.0266969 | | |
| 2,4-Dimethylpentane | 0.00516474 | 0.0037913 | 0.00555553 | | |
| i-Heptane | 0.190156 | 0.161656 | 0.274451 | | |
| 3,3-Dimethylpentane | 0.0104996 | 0.00856453 | 0.0158278 | | |
| cis-1,3-Dimethylcyclopentane | 0.0574047 | 0.0494875 | 0.0805236 | | |
| 3-Ethylpentane | 0.047883 | 0.0410435 | 0.0678738 | | |
| Cycloheptane | 0.000847193 | 0.00112067 | 0.00182744 | | |
| Methylcyclohexane | 0.154636 | 0.14532 | 0.24996 | | |
| 2,2-Dimethylhexane | 0.133661 | 0.125898 | 0.221126 | | |
| i-Octane | 0.142534 | 0.134669 | 0.233731 | | |
| n-Heptane | 0.323093 | 0.308913 | 0.517187 | | |
| Toluene | 0.308872 | 0.265806 | 0.479147 | | |
| trans-1,2-Dimethylcyclopentane | 0.014251 | 0.011725 | 0.019994 | | |
| cis-1,2-Dimethylcyclopentane | 0.0139532 | 0.0115551 | 0.0196363 | | |
| trans-1,3-Dimethylcyclopentane | 0.0975999 | 0.0808859 | 0.13485 | | |
| 1-Ethyl-1-Methylcyclopentane | 0.00576495 | 0.00767541 | 0.0118975 | | |
| 2,2,3-Trimethylpentane | 0.017985 | 0.0202719 | 0.03313 | | |
| 2,3,4-Trimethylpentane | 0.0232963 | 0.0265077 | 0.0424208 | | |
| 2,5-Dimethylhexane | 0 | 0 | 0 | | |
| 2-Methylheptane | 0.0253815 | 0.0327552 | 0.0516734 | | |
| 4-Methylheptane | 0.0262 | 0.0339632 | 0.0532494 | | |
| 3,3-Dimethylhexane | 0.00615689 | 0.00770603 | 0.0112703 | | |
| 3-Methylheptane | 0.0117592 | 0.0169129 | 0.0252914 | | |
| cis-1,2-Dimethylcyclohexane | 0.0262824 | 0.035308 | 0.0563933 | | |
| cis-1,3-Dimethylcyclohexane | 0.00323357 | 0.00629655 | 0.00898652 | | |
| Cyclooctane | 0 | 0.00365567 | 0.00444992 | | |
| Ethylbenzene | 0.00762411 | 0.0111232 | 0.0190877 | | |
| Ethylcyclohexane | 0.00707755 | 0.0126291 | 0.0194502 | | |
| m-Xylene | 0.00816535 | 0.0119897 | 0.0203328 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Flow | 132<br>lb/h | 158<br>lb/h | 232<br>lb/h | | |
|---|---|---|---|---|---|
| p-Xylene | 0.00821099 | 0.0120382 | 0.0204722 | | |
| n-Octane | 0.0276228 | 0.0448475 | 0.0669516 | | |
| o-Xylene | 0.00521485 | 0.0069052 | 0.0130229 | | |
| trans-1,3-Dimethylcyclohexane | 0.00465473 | 0.00677216 | 0.00858405 | | |
| 1,1,2-Trimethylcyclohexane | 0.00120037 | 0.00103181 | 0.00221848 | | |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 | | |
| 1,2,4-Trimethylbenzene | 0 | 0.00100418 | 0.00196741 | | |
| tert-Butylbenzene | 0 | 0.000972492 | 0.00196331 | | |
| 1,3,5-Trimethylbenzene | 0 | 0.00160293 | 0 | | |
| 2,2,3-Trimethylhexane | 0 | 0.00112929 | 0.00424843 | | |
| 2,2,4-Trimethylhexane | 0.00476212 | 0.00652014 | 0.0104825 | | |
| 2,2-Dimethylheptane | 0 | 0.00160355 | 0 | | |
| 2,3,4-Trimethylhexane | 0.0014748 | 0.003016 | 0.00536946 | | |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 | | |
| 2,5-Dimethylheptane | 0.00220946 | 0.0056858 | 0.0110306 | | |
| Isononane | 0 | 0 | 0 | | |
| 3,4-Dimethylheptane | 0 | 0.00149039 | 0.00242768 | | |
| Isopropylbenzene | 0 | 0.00324479 | 0.00489577 | | |
| 1,1,3-Trimethylcyclopentane | 0 | 0.00234625 | 0.00399836 | | |
| Methylcyclopropane | 0 | 0 | 0 | | |
| m-Ethyltoluene | 0 | 0.000878453 | 0 | | |
| p-Ethyltoluene | 0 | 0.000903751 | 0 | | |
| n-Nonane | 0 | 0.00455863 | 0.00757757 | | |
| Propylbenzene | 0.00166922 | 0.00359134 | 0.00364553 | | |
| Propylcyclohexane | 0.000624839 | 0 | 0.00236405 | | |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2-Diethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 | 0 | | |
| 1,3-Diethylbenzene | 0 | 0 | 0 | | |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 | 0 | | |
| 1,4-Diethylbenzene | 0 | 0 | 0 | | |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Propylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-4-isopropylbenzene | 0 | 0 | 0 | | |
| 2-Methylnonane | 0 | 0 | 0 | | |
| 3-Ethyloctane | 0 | 0 | 0 | | |
| 3-Methylnonane | 0 | 0 | 0 | | |
| 4-Methylnonane | 0 | 0 | 0 | | |
| Butylbenzene | 0 | 0 | 0 | | |
| Butylcyclohexane | 0 | 0 | 0 | | |
| Isobutylbenzene | 0 | 0 | 0 | | |
| Naphthalene | 0 | 0.0013755 | 0 | | |
| n-Decane | 0 | 0 | 0 | | |
| sec-Butylbenzene | 0 | 0 | 0 | | |
| Undecane | 0 | 0.000914411 | 0.00157703 | | |
| Pentylbenzene | 0 | 0 | 0 | | |
| Dodecane | 0 | 0.00121456 | 0.00154476 | | |
| n-Tridecane | 0.000823603 | 0.00200477 | 0.00218766 | | |
| n-Tetradecane | 0.000603227 | 0 | 0.00220865 | | |
| n-Pentadecane | 0 | 0 | 0.00136234 | | |
| H2O | 1.77782 | 1.69754 | 1.87985 | | |
| MDEA | 0.000266231 | 0.000349042 | 0.000233509 | | |
| Piperazine | 6.21945E-05 | 9.93141E-05 | 4.60941E-05 | | |
| TEG | 0.00622243 | 0.00457303 | 0.00700425 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Properties

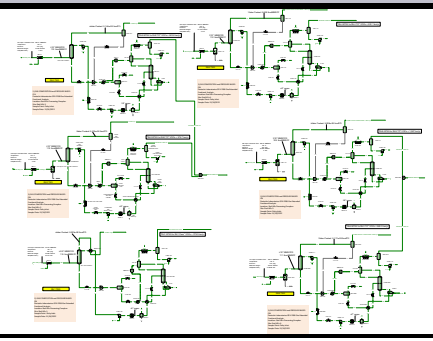
| Property | Units | 132 | 158 | 232 | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 141.155 | 147.483 | 140.042 | | |
| Pressure | psig | 60 | 60 | 60 | | |
| Molecular Weight | lb/lbmol | 30.4732 | 27.4195 | 30.2476 | | |
| Mass Density | lb/ft^3 | 0.354443 | 0.313552 | 0.350345 | | |
| Mass Flow | lb/h | 360.01 | 202.087 | 419.584 | | |
| Std Vapor Volumetric Flow | MMSCFD | 0.107598 | 0.0671249 | 0.126338 | | |
| Std Liquid Volumetric Flow | sgpm | 1.71516 | 1.01127 | 1.86314 | | |
| Specific Gravity | | 1.05216 | 0.946725 | 1.04437 | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1763.84 | 1594.23 | 1392 | | |

**Remarks**


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# TEG Dehydration
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | TEG Dehydration | |





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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Connections

| | RH1 BTEX to RH1 Flare | RH1 Dehy Inlet | RH2 BTEX to RH2 TO | RH2 Dehy Inlet | RH3 BTEX to RH2 TO |
|---|---|---|---|---|---|
| From Block | VSSL-108 | -- | V-2503 TEG Vent Condensate Drum | -- | VSSL-103 |
| To Block | -- | SAT-2 | MIX-103 | SAT-1 | MIX-103 |

## Stream Composition

| Mole Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| Helium | 0.000286875 | 0.0119 * | 0.000405766 | 0.0153 * | 0.000386412 |
| N2 | 0.0122798 | 1.3712 * | 0.01756 | 1.7549 * | 0.0329919 |
| CO2 | 13.981 | 2.6057 * | 0.123575 | 0.0181 * | 0.0306052 |
| O2 | 4.17007E-05 | 0.0046 * | 6.75044E-05 | 0.00660001 * | 0.000916325 |
| Argon | 0.00140167 | 0.0046 * | 0.00212714 | 0.00660001 * | 0.0306285 |
| H2S | 0.113356 | 0.0032 * | 0 | 0 * | 0 |
| C1 | 8.17642 | 70.6627 * | 9.65404 | 76.9461 * | 9.41001 |
| C2 | 12.5668 | 13.7856 * | 12.0787 | 11.7531 * | 11.6148 |
| C3 | 15.973 | 7.29061 * | 14.9018 | 5.70721 * | 15.195 |
| iC4 | 2.86816 | 0.976701 * | 2.77625 | 0.774202 * | 3.03294 |
| nC4 | 10.9651 | 2.1735 * | 11.3646 | 1.7588 * | 12.0739 |
| iC5 | 3.10754 | 0.42 * | 3.8101 | 0.398301 * | 4.41222 |
| nC5 | 3.77537 | 0.4024 * | 4.99384 | 0.411701 * | 5.30031 |
| Neo-Pentane | 0 | 0 * | 0 | 0 * | 0 |
| 2,2-Dimethylbutane | 0.0364814 | 0.003474 * | 0.0570056 | 0.00424701 * | 0.0623933 |
| 2,3-Dimethylbutane | 0.123202 | 0.00833901 * | 0.206716 | 0.010966 * | 0.204559 |
| Cyclopentane | 0.422867 | 0.00833901 * | 0.767817 | 0.010966 * | 0.744891 |
| i-Hexane | 0.862257 | 0.0663961 * | 1.38986 | 0.0858192 * | 1.44993 |
| 3-Methylpentane | 0.504051 | 0.030507 * | 0.872586 | 0.0421871 * | 0.916243 |
| Benzene | 4.54651 | 0.012031 * | 8.44332 | 0.018662 * | 7.06364 |
| Cyclohexane | 1.45861 | 0.024287 * | 2.9339 | 0.0421331 * | 2.67025 |
| Methylcyclopentane | 1.54604 | 0.02713 * | 2.97223 | 0.0417911 * | 2.72057 |
| C6 | 1.03148 | 0.0613201 * | 1.85601 | 0.0916422 * | 1.78915 |
| 1,1-Dimethylcyclopentane | 0.188394 | 0.0028415 * | 0.413419 | 0.00596051 * | 0.387422 |
| 3-Methylhexane | 0.0734931 | 0.0028415 * | 0.150535 | 0.00596051 * | 0.142193 |
| 2,2-Dimethylpentane | 0.00771945 | 0.000521001 * | 0.0155132 | 0.000958002 * | 0.0137356 |
| 2,3-Dimethylpentane | 0.0356849 | 0.00124 * | 0.0685554 | 0.002347 * | 0.0796637 |
| 2,4-Dimethylhexane | 0.0078488 | 0.0002895 * | 0.0148818 | 0.000724001 * | 0.0152357 |
| Ethylcyclopentane | 0.0265698 | 0.0002895 * | 0.0560046 | 0.000724001 * | 0.056447 |
| 2,4-Dimethylpentane | 0.00160948 | 0.000108 * | 0.00318692 | 0.000199 * | 0.00300129 |
| i-Heptane | 0.0917766 | 0.004576 * | 0.189355 | 0.00949902 * | 0.180999 |
| 3,3-Dimethylpentane | 0.00669874 | 0.000252 * | 0.0140965 | 0.000499001 * | 0.0141322 |
| cis-1,3-Dimethylcyclopentane | 0.0810844 | 0.0011595 * | 0.162742 | 0.0023075 * | 0.142869 |
| 3-Ethylpentane | 0.0360368 | 0.0011595 * | 0.0696008 | 0.0023075 * | 0.0610976 |
| Cycloheptane | 0 | 0 * | 0.00458269 | 6.10001E-05 * | 0.0034435 |
| Methylcyclohexane | 0.195144 | 0.00310234 * | 0.396838 | 0.00705568 * | 0.374578 |
| 2,2-Dimethylhexane | 0.069231 | 0.00310234 * | 0.125437 | 0.00705568 * | 0.121948 |
| i-Octane | 0.0757276 | 0.00310234 * | 0.161162 | 0.00705568 * | 0.154321 |
| n-Heptane | 0.203811 | 0.00751001 * | 0.421714 | 0.017506 * | 0.394509 |
| Toluene | 2.47669 | 0.004283 * | 4.13635 | 0.00929402 * | 4.65697 |
| trans-1,2-Dimethylcyclopentane | 0.020054 | 0.000273 * | 0.0411455 | 0.000562501 * | 0.0339945 |
| cis-1,2-Dimethylcyclopentane | 0.0238524 | 0.000273 * | 0.0444389 | 0.000562501 * | 0.0365791 |
| trans-1,3-Dimethylcyclopentane | 0.143794 | 0.001913 * | 0.285833 | 0.00388101 * | 0.234232 |
| 1-Ethyl-1-Methylcyclopentane | 0.0165336 | 0.000164 * | 0.0199659 | 0.000330001 * | 0.0217147 |
| 2,2,3-Trimethylpentane | 0.0165554 | 0.000432 * | 0.0321385 | 0.001088 * | 0.0279528 |
| 2,3,4-Trimethylpentane | 0.023989 | 0.000546001 * | 0.0430207 | 0.001364 * | 0.0395422 |
| 2,5-Dimethylhexane | 0 | 0 * | 0 | 0 * | 0 |
| 2-Methylheptane | 0.019312 | 0.000638501 * | 0.0310497 | 0.001588 * | 0.0373609 |
| 4-Methylheptane | 0.0222592 | 0.000638501 * | 0.0351973 | 0.001588 * | 0.0419971 |
| 3,3-Dimethylhexane | 0.0053657 | 0.000154 * | 0.00770189 | 0.000301001 * | 0.0109148 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| 3-Methylheptane | 0.0113697 | 0.000314 * | 0.0173127 | 0.000770002 * | 0.0209266 |
| cis-1,2-Dimethylcyclohexane | 0.0565851 | 0.000866001 * | 0.0629486 | 0.001875 * | 0.0607874 |
| cis-1,3-Dimethylcyclohexane | 0.00519429 | 0.0001 * | 0.0101288 | 0.000309001 * | 0.0125312 |
| Cyclooctane | 0 | 0 * | 0.0225225 | 4.90001E-05 * | 0.0124704 |
| Ethylbenzene | 0.120165 | 0.000155 * | 0.101618 | 0.000349001 * | 0.146302 |
| Ethylcyclohexane | 0.0174196 | 0.000191 * | 0.0252407 | 0.000579001 * | 0.0293157 |
| m-Xylene | 0.125886 | 0.0001685 * | 0.123099 | 0.000444501 * | 0.152245 |
| p-Xylene | 0.118802 | 0.0001685 * | 0.118155 | 0.000444501 * | 0.14597 |
| n-Octane | 0.030466 | 0.000783001 * | 0.0485897 | 0.002356 * | 0.0521534 |
| o-Xylene | 0.123777 | 0.000128 * | 0.089143 | 0.000244001 * | 0.113282 |
| trans-1,3-Dimethylcyclohexane | 0.00719932 | 0.000123 * | 0.0115836 | 0.000344001 * | 0.0112145 |
| 1,1,2-Trimethylcyclohexane | 0.00348238 | 6.80001E-05 * | 0.000847246 | 3.80001E-05 * | 0.00107123 |
| 1,2,3-Trimethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4-Trimethylbenzene | 0.0286767 | 2.7E-05 * | 0.00718052 | 4.40001E-05 * | 0.00835764 |
| tert-Butylbenzene | 0.0180919 | 2.7E-05 * | 0.0042057 | 4.40001E-05 * | 0.00512719 |
| 1,3,5-Trimethylbenzene | 0.0778501 | 8.50001E-05 * | 0.0292606 | 0.000191 * | 0.00874771 |
| 2,2,3-Trimethylhexane | 0 | 0 * | 0.000791133 | 6.30001E-05 * | 0.000849303 |
| 2,2,4-Trimethylhexane | 0.00293246 | 0.000163 * | 0.00505964 | 0.000398001 * | 0.00542996 |
| 2,2-Dimethylheptane | 0.00272903 | 7.50001E-05 * | 0.00110677 | 6.00001E-05 * | 0.00202039 |
| 2,3,4-Trimethylhexane | 0.00277289 | 5.20001E-05 * | 0.00340692 | 0.00014 * | 0.00473998 |
| 2,4,4-Trimethylhexane | 0 | 0 * | 0 | 0 * | 0 |
| 2,5-Dimethylheptane | 0.00297958 | 7.30001E-05 * | 0.00645376 | 0.000321001 * | 0.00862307 |
| Isononane | 0 | 0 * | 0 | 0 * | 0.000729806 |
| 3,4-Dimethylheptane | 0 | 0 * | 0.00168766 | 7.10001E-05 * | 0.00215774 |
| Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0.01116 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 * | 0 | 0 * | 0.00201135 |
| Methylcyclopropane | 0 | 0 * | 0 | 0 * | 0 |
| m-Ethyltoluene | 0.018059 | 2.3E-05 * | 0.00691993 | 4.50001E-05 * | 0.00838 |
| p-Ethyltoluene | 0.0224399 | 2.3E-05 * | 0.00793994 | 4.50001E-05 * | 0.00933582 |
| n-Nonane | 0.00600361 | 0.000108 * | 0.00336755 | 0.000204 * | 0.00446007 |
| Propylbenzene | 0.0350407 | 4.4E-05 * | 0.0179334 | 0.000115 * | 0.0115744 |
| Propylcyclohexane | 0.00395861 | 2.9E-05 * | 0.00243509 | 7.30001E-05 * | 0 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 2-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Ethyloctane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 4-Methylnonane | 0.0027227 | 3.6E-05 * | 0 | 0 * | 0 |
| Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Butylcyclohexane | 0 | 0 * | 0 | 0 * | 0 |
| Isobutylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Naphthalene | 0.0562835 | 4.4E-05 * | 0.00325558 | 4.80001E-05 * | 1.07845E-05 |
| n-Decane | 0.00371216 | 5.00001E-05 * | 0.000355415 | 3.80001E-05 * | 0 |
| sec-Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Undecane | 0.00450266 | 4.6E-05 * | 0.000257337 | 3.70001E-05 * | 0.000373996 |
| Pentylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Dodecane | 0 | 0 * | 0.000244068 | 5.80001E-05 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| n-Tridecane | 0.00523172 | 5.40001E-05 * | 0.000147096 | 5.00001E-05 * | 0.000122881 |
| n-Tetradecane | 0.00249939 | 3.9E-05 * | 9.48157E-05 | 5.60001E-05 * | 0 |
| n-Pentadecane | 0 | 0 * | 0 | 0 * | 0 |
| H2O | 13.1329 | 0 * | 13.0976 | 0 * | 13.096 |
| MDEA | 0.0087258 | 0 * | 0.00211839 | 0 * | 0.00830858 |
| Piperazine | 0 | 0 * | 0 | 0 * | 9.21324E-09 |
| TEG | 7.86319E-11 | 0 * | 5.4566E-11 | 0 * | 5.99142E-11 |

| Mass Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| Helium | 2.44136E-05 | 0.00207921 * | 3.11747E-05 | 0.0028676 * | 2.96386E-05 |
| N2 | 0.007314 | 1.67678 * | 0.00944223 | 2.30199 * | 0.0177108 |
| CO2 | 13.0822 | 5.00588 * | 0.104391 | 0.0373 * | 0.0258111 |
| O2 | 2.83709E-05 | 0.00642541 * | 4.1462E-05 | 0.00988922 * | 0.000561886 |
| Argon | 0.00119052 | 0.00802163 * | 0.00163108 | 0.0123459 * | 0.0234469 |
| H2S | 0.0821394 | 0.0047607 * | 0 | 0 * | 0 |
| C1 | 2.78889 | 49.4846 * | 2.97279 | 57.8017 * | 2.89285 |
| C2 | 8.03416 | 18.0948 * | 6.97146 | 16.5484 * | 6.69261 |
| C3 | 14.9754 | 14.0336 * | 12.613 | 11.7843 * | 12.8399 |
| iC4 | 3.5444 | 2.47807 * | 3.09731 | 2.10707 * | 3.37809 |
| nC4 | 13.5504 | 5.51457 * | 12.6789 | 4.78677 * | 13.448 |
| iC5 | 4.76697 | 1.32278 * | 5.27655 | 1.34562 * | 6.10031 |
| nC5 | 5.79142 | 1.26735 * | 6.91588 | 1.39089 * | 7.32817 |
| Neo-Pentane | 0 | 0 * | 0 | 0 * | 0 |
| 2,2-Dimethylbutane | 0.0668424 | 0.0130684 * | 0.0942941 | 0.0171376 * | 0.103035 |
| 2,3-Dimethylbutane | 0.225734 | 0.0313694 * | 0.341934 | 0.0442502 * | 0.337806 |
| Cyclopentane | 0.630554 | 0.0255297 * | 1.03363 | 0.0360126 * | 1.00111 |
| i-Hexane | 1.57985 | 0.249767 * | 2.29899 | 0.346299 * | 2.39439 |
| 3-Methylpentane | 0.923536 | 0.11476 * | 1.44336 | 0.170234 * | 1.51307 |
| Benzene | 7.55078 | 0.0410231 * | 12.6594 | 0.0682589 * | 10.5733 |
| Cyclohexane | 2.60999 | 0.089225 * | 4.73951 | 0.166039 * | 4.30645 |
| Methylcyclopentane | 2.76643 | 0.0996695 * | 4.80143 | 0.164691 * | 4.38761 |
| C6 | 1.88991 | 0.230672 * | 3.07007 | 0.369796 * | 2.95457 |
| 1,1-Dimethylcyclopentane | 0.39329 | 0.0121789 * | 0.779156 | 0.0274042 * | 0.728953 |
| 3-Methylhexane | 0.156574 | 0.0124289 * | 0.289534 | 0.0279668 * | 0.273035 |
| 2,2-Dimethylpentane | 0.016446 | 0.00227889 * | 0.0298374 | 0.00449496 * | 0.0263748 |
| 2,3-Dimethylpentane | 0.0760251 | 0.00542385 * | 0.131857 | 0.0110122 * | 0.152968 |
| 2,4-Dimethylhexane | 0.0190623 | 0.00144355 * | 0.0326297 | 0.00387255 * | 0.0333504 |
| Ethylcyclopentane | 0.055467 | 0.00124082 * | 0.10555 | 0.00332869 * | 0.106208 |
| 2,4-Dimethylpentane | 0.00342892 | 0.0004724 * | 0.00612959 | 0.000933713 * | 0.005763 |
| i-Heptane | 0.195526 | 0.0200157 * | 0.364198 | 0.0445696 * | 0.34755 |
| 3,3-Dimethylpentane | 0.0142714 | 0.00110227 * | 0.0271127 | 0.00234132 * | 0.0271364 |
| cis-1,3-Dimethylcyclopentane | 0.169271 | 0.0049697 * | 0.306714 | 0.010609 * | 0.268814 |
| 3-Ethylpentane | 0.0767748 | 0.00507173 * | 0.133867 | 0.0108269 * | 0.117318 |
| Cycloheptane | 0 | 0 * | 0.00863684 | 0.000280456 * | 0.00647911 |
| Methylcyclohexane | 0.407382 | 0.0132968 * | 0.747906 | 0.0324394 * | 0.704785 |
| 2,2-Dimethylhexane | 0.16814 | 0.0154694 * | 0.275034 | 0.0377396 * | 0.266941 |
| i-Octane | 0.183919 | 0.0154694 * | 0.353364 | 0.0377396 * | 0.337804 |
| n-Heptane | 0.434211 | 0.0328493 * | 0.811107 | 0.0821386 * | 0.757527 |
| Toluene | 4.85188 | 0.0172266 * | 7.31548 | 0.0400985 * | 8.22261 |
| trans-1,2-Dimethylcyclopentane | 0.0418647 | 0.0011701 * | 0.0775455 | 0.00258617 * | 0.0639623 |
| cis-1,2-Dimethylcyclopentane | 0.0497943 | 0.0011701 * | 0.0837524 | 0.00258617 * | 0.0688252 |
| trans-1,3-Dimethylcyclopentane | 0.300185 | 0.00819926 * | 0.538699 | 0.0178434 * | 0.440719 |
| 1-Ethyl-1-Methylcyclopentane | 0.0394463 | 0.000803332 * | 0.0430047 | 0.00173396 * | 0.046694 |
| 2,2,3-Trimethylpentane | 0.0402078 | 0.00215411 * | 0.0704669 | 0.00581953 * | 0.0611878 |
| 2,3,4-Trimethylpentane | 0.0582617 | 0.00272256 * | 0.0943271 | 0.00729581 * | 0.0865567 |
| 2,5-Dimethylhexane | 0 | 0 * | 0 | 0 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| 2-Methylheptane | 0.0469029 | 0.0031838 * | 0.0680796 | 0.00849394 * | 0.0817818 |
| 4-Methylheptane | 0.0540607 | 0.0031838 * | 0.0771736 | 0.00849394 * | 0.0919303 |
| 3,3-Dimethylhexane | 0.0130316 | 0.0007679 * | 0.0168871 | 0.00161 * | 0.0238921 |
| 3-Methylheptane | 0.0276134 | 0.00156572 * | 0.0379598 | 0.0041186 * | 0.0458076 |
| cis-1,2-Dimethylcyclohexane | 0.135002 | 0.00424199 * | 0.135585 | 0.00985207 * | 0.130714 |
| cis-1,3-Dimethylcyclohexane | 0.0123927 | 0.000489837 * | 0.0218165 | 0.00162362 * | 0.0269463 |
| Cyclooctane | 0 | 0 * | 0.0485114 | 0.000257467 * | 0.0268156 |
| Ethylbenzene | 0.271241 | 0.000718328 * | 0.207078 | 0.00173497 * | 0.297643 |
| Ethylcyclohexane | 0.0415602 | 0.000935588 * | 0.0543659 | 0.00304232 * | 0.0630387 |
| m-Xylene | 0.284156 | 0.000780892 * | 0.250853 | 0.00220972 * | 0.309734 |
| p-Xylene | 0.268165 | 0.000780892 * | 0.240779 | 0.00220972 * | 0.296969 |
| n-Octane | 0.0739923 | 0.00390433 * | 0.106538 | 0.0126018 * | 0.114162 |
| o-Xylene | 0.279396 | 0.0005932 * | 0.181657 | 0.00121299 * | 0.230466 |
| trans-1,3-Dimethylcyclohexane | 0.0171763 | 0.000602499 * | 0.02495 | 0.00180753 * | 0.0241149 |
| 1,1,2-Trimethylcyclohexane | 0.00934688 | 0.000374725 * | 0.002053 | 0.000224627 * | 0.00259145 |
| 1,2,3-Trimethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4-Trimethylbenzene | 0.0732825 | 0.00014166 * | 0.0165659 | 0.000247634 * | 0.0192497 |
| tert-Butylbenzene | 0.0516289 | 0.000158192 * | 0.0108351 | 0.000276534 * | 0.0131873 |
| 1,3,5-Trimethylbenzene | 0.198944 | 0.000445967 * | 0.0675058 | 0.00107496 * | 0.0201481 |
| 2,2,3-Trimethylhexane | 0 | 0 * | 0.00194764 | 0.000378355 * | 0.00208739 |
| 2,2,4-Trimethylhexane | 0.00799655 | 0.000912582 * | 0.012456 | 0.00239024 * | 0.0133456 |
| 2,2-Dimethylheptane | 0.00744183 | 0.0004199 * | 0.00272469 | 0.000360338 * | 0.00496563 |
| 2,3,4-Trimethylhexane | 0.00756144 | 0.00029113 * | 0.00838728 | 0.000840789 * | 0.0116497 |
| 2,4,4-Trimethylhexane | 0 | 0 * | 0 | 0 * | 0 |
| 2,5-Dimethylheptane | 0.00812505 | 0.000408702 * | 0.0158881 | 0.00192781 * | 0.0211934 |
| Isononane | 0 | 0 * | 0 | 0 * | 0.00179369 |
| 3,4-Dimethylheptane | 0 | 0 * | 0.00415475 | 0.0004264 * | 0.00530321 |
| Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0.0257043 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 * | 0 | 0 * | 0.00432509 |
| Methylcyclopropane | 0 | 0 * | 0 | 0 * | 0 |
| m-Ethyltoluene | 0.0461491 | 0.000120673 * | 0.0159647 | 0.000253263 * | 0.0193012 |
| p-Ethyltoluene | 0.0573445 | 0.000120673 * | 0.0183179 | 0.000253263 * | 0.0215026 |
| n-Nonane | 0.0163713 | 0.000604656 * | 0.00829035 | 0.00122515 * | 0.0109618 |
| Propylbenzene | 0.0895454 | 0.000230853 * | 0.0413733 | 0.000647226 * | 0.0266586 |
| Propylcyclohexane | 0.0106251 | 0.000159809 * | 0.00590056 | 0.000431521 * | 0 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 2-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Ethyloctane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 4-Methylnonane | 0.00823654 | 0.000223595 * | 0 | 0 * | 0 |
| Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Butylcyclohexane | 0 | 0 * | 0 | 0 * | 0 |
| Isobutylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Naphthalene | 0.153379 | 0.000246179 * | 0.00800943 | 0.00028808 * | 2.64882E-05 |
| n-Decane | 0.0112298 | 0.000310548 * | 0.000970664 | 0.000253173 * | 0 |
| sec-Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Undecane | 0.014964 | 0.00031387 * | 0.000772091 | 0.000270812 * | 0.00112025 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| Pentylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Dodecane | 0 | 0 * | 0.000797993 | 0.000462611 * | 0 |
| n-Tridecane | 0.0205074 | 0.000434584 * | 0.00052054 | 0.000431643 * | 0.00043413 |
| n-Tetradecane | 0.0105426 | 0.000337746 * | 0.00036106 | 0.000520221 * | 0 |
| n-Pentadecane | 0 | 0 * | 0 | 0 * | 0 |
| H2O | 5.03036 | 0 * | 4.52916 | 0 * | 4.52111 |
| MDEA | 0.0221076 | 0 * | 0.00484539 | 0 * | 0.0189728 |
| Piperazine | 0 | 0 * | 0 | 0 * | 1.52076E-08 |
| TEG | 2.51066E-10 | 0 * | 1.57289E-10 | 0 * | 1.7242E-10 |

| Mass Flow | RH1 BTEX to RH1 Flare lb/h | RH1 Dehy Inlet lb/h | RH2 BTEX to RH2 TO lb/h | RH2 Dehy Inlet lb/h | RH3 BTEX to RH2 TO lb/h |
|---|---|---|---|---|---|
| Helium | 2.19855E-05 | 2.73897 * | 4.8226E-05 | 14.0879 * | 6.65099E-05 |
| N2 | 0.00658659 | 2208.85 * | 0.0146067 | 11309.1 * | 0.0397435 |
| CO2 | 11.7811 | 6594.31 * | 0.161488 | 183.247 * | 0.0579208 |
| O2 | 2.55493E-05 | 8.46428 * | 6.414E-05 | 48.5835 * | 0.00126089 |
| Argon | 0.00107212 | 10.567 * | 0.00252321 | 60.6527 * | 0.0526155 |
| H2S | 0.0739702 | 6.27133 * | 0 | 0 * | 0 |
| C1 | 2.51152 | 65186.7 * | 4.59879 | 283967 * | 6.49164 |
| C2 | 7.23512 | 23836.6 * | 10.7846 | 81298.7 * | 15.0184 |
| C3 | 13.486 | 18486.6 * | 19.5118 | 57893.5 * | 28.8131 |
| iC4 | 3.19189 | 3264.39 * | 4.79142 | 10351.6 * | 7.58053 |
| nC4 | 12.2028 | 7264.41 * | 19.6137 | 23516.3 * | 30.1776 |
| iC5 | 4.29286 | 1742.52 * | 8.16261 | 6610.75 * | 13.6892 |
| nC5 | 5.21543 | 1669.5 * | 10.6986 | 6833.15 * | 16.4446 |
| Neo-Pentane | 0 | 0 * | 0 | 0 * | 0 |
| 2,2-Dimethylbutane | 0.0601945 | 17.2152 * | 0.145869 | 84.1932 * | 0.231214 |
| 2,3-Dimethylbutane | 0.203283 | 41.3234 * | 0.528958 | 217.392 * | 0.758045 |
| Cyclopentane | 0.567842 | 33.6306 * | 1.59898 | 176.922 * | 2.24651 |
| i-Hexane | 1.42273 | 329.021 * | 3.55645 | 1701.29 * | 5.37307 |
| 3-Methylpentane | 0.831685 | 151.175 * | 2.23283 | 836.321 * | 3.39537 |
| Benzene | 6.79981 | 54.0402 * | 19.5836 | 335.341 * | 23.7268 |
| Cyclohexane | 2.35042 | 117.537 * | 7.33183 | 815.712 * | 9.66379 |
| Methylcyclopentane | 2.4913 | 131.296 * | 7.42762 | 809.091 * | 9.84591 |
| C6 | 1.70194 | 303.867 * | 4.74927 | 1816.72 * | 6.63014 |
| 1,1-Dimethylcyclopentane | 0.354175 | 16.0434 * | 1.20532 | 134.631 * | 1.63579 |
| 3-Methylhexane | 0.141002 | 16.3728 * | 0.447897 | 137.395 * | 0.612699 |
| 2,2-Dimethylpentane | 0.0148103 | 3.00201 * | 0.0461572 | 22.0827 * | 0.0591858 |
| 2,3-Dimethylpentane | 0.068464 | 7.14491 * | 0.203977 | 54.1004 * | 0.343265 |
| 2,4-Dimethylhexane | 0.0171664 | 1.90161 * | 0.0504769 | 19.025 * | 0.0748393 |
| Ethylcyclopentane | 0.0499505 | 1.63455 * | 0.163282 | 16.3531 * | 0.238333 |
| 2,4-Dimethylpentane | 0.00308789 | 0.622298 * | 0.00948223 | 4.58713 * | 0.0129323 |
| i-Heptane | 0.17608 | 26.367 * | 0.563399 | 218.96 * | 0.779912 |
| 3,3-Dimethylpentane | 0.012852 | 1.45203 * | 0.0419423 | 11.5024 * | 0.0608947 |
| cis-1,3-Dimethylcyclopentane | 0.152436 | 6.54665 * | 0.474474 | 52.1198 * | 0.603226 |
| 3-Ethylpentane | 0.0691391 | 6.68106 * | 0.207088 | 53.1899 * | 0.263265 |
| Cycloheptane | 0 | 0 * | 0.0133608 | 1.37782 * | 0.0145393 |
| Methylcyclohexane | 0.366866 | 17.5161 * | 1.15698 | 159.367 * | 1.58156 |
| 2,2-Dimethylhexane | 0.151418 | 20.378 * | 0.425466 | 185.406 * | 0.599022 |
| i-Octane | 0.165627 | 20.378 * | 0.54664 | 185.406 * | 0.758041 |
| n-Heptane | 0.391027 | 43.2728 * | 1.25475 | 403.529 * | 1.69991 |
| Toluene | 4.36933 | 22.6928 * | 11.3168 | 196.995 * | 18.4517 |
| trans-1,2-Dimethylcyclopentane | 0.037701 | 1.54138 * | 0.11996 | 12.7053 * | 0.143533 |
| cis-1,2-Dimethylcyclopentane | 0.044842 | 1.54138 * | 0.129562 | 12.7053 * | 0.154446 |
| trans-1,3-Dimethylcyclopentane | 0.27033 | 10.801 * | 0.833345 | 87.6607 * | 0.988985 |
| 1-Ethyl-1-Methylcyclopentane | 0.0355232 | 1.05824 * | 0.0665266 | 8.51858 * | 0.104783 |
| 2,2,3-Trimethylpentane | 0.0362089 | 2.83764 * | 0.109009 | 28.59 * | 0.137307 |
| 2,3,4-Trimethylpentane | 0.0524673 | 3.58646 * | 0.14592 | 35.8427 * | 0.194236 |
| 2,5-Dimethylhexane | 0 | 0 * | 0 | 0 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Flow | RH1 BTEX to RH1 Flare lb/h | RH1 Dehy Inlet lb/h | RH2 BTEX to RH2 TO lb/h | RH2 Dehy Inlet lb/h | RH3 BTEX to RH2 TO lb/h |
|---|---|---|---|---|---|
| 2-Methylheptane | 0.0422381 | 4.19405 * | 0.105316 | 41.7289 * | 0.183521 |
| 4-Methylheptane | 0.048684 | 4.19405 * | 0.119385 | 41.7289 * | 0.206294 |
| 3,3-Dimethylhexane | 0.0117355 | 1.01157 * | 0.0261237 | 7.90956 * | 0.0536146 |
| 3-Methylheptane | 0.0248671 | 2.06254 * | 0.0587222 | 20.2338 * | 0.102794 |
| cis-1,2-Dimethylcyclohexane | 0.121575 | 5.58802 * | 0.209745 | 48.401 * | 0.293325 |
| cis-1,3-Dimethylcyclohexane | 0.0111601 | 0.645268 * | 0.0337493 | 7.97649 * | 0.0604682 |
| Cyclooctane | 0 | 0 * | 0.0750451 | 1.26488 * | 0.060175 |
| Ethylbenzene | 0.244265 | 0.946263 * | 0.320342 | 8.5235 * | 0.667919 |
| Ethylcyclohexane | 0.0374268 | 1.23246 * | 0.0841019 | 14.9462 * | 0.141461 |
| m-Xylene | 0.255895 | 1.02868 * | 0.388059 | 10.8559 * | 0.695051 |
| p-Xylene | 0.241495 | 1.02868 * | 0.372476 | 10.8559 * | 0.666407 |
| n-Octane | 0.0666333 | 5.14322 * | 0.164809 | 61.9101 * | 0.256183 |
| o-Xylene | 0.251608 | 0.78143 * | 0.281017 | 5.95913 * | 0.517172 |
| trans-1,3-Dimethylcyclohexane | 0.015468 | 0.79368 * | 0.0385966 | 8.87997 * | 0.0541145 |
| 1,1,2-Trimethylcyclohexane | 0.00841729 | 0.49363 * | 0.0031759 | 1.10354 * | 0.00581528 |
| 1,2,3-Trimethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4-Trimethylbenzene | 0.0659942 | 0.186611 * | 0.0256267 | 1.21657 * | 0.0431968 |
| tert-Butylbenzene | 0.0464941 | 0.208388 * | 0.0167615 | 1.35855 * | 0.0295926 |
| 1,3,5-Trimethylbenzene | 0.179157 | 0.587478 * | 0.104429 | 5.28103 * | 0.0452128 |
| 2,2,3-Trimethylhexane | 0 | 0 * | 0.00301292 | 1.85877 * | 0.00468415 |
| 2,2,4-Trimethylhexane | 0.00720125 | 1.20216 * | 0.0192689 | 11.7427 * | 0.0299478 |
| 2,2-Dimethylheptane | 0.0067017 | 0.553139 * | 0.00421499 | 1.77026 * | 0.011143 |
| 2,3,4-Trimethylhexane | 0.00680941 | 0.38351 * | 0.0129748 | 4.13061 * | 0.0261423 |
| 2,4,4-Trimethylhexane | 0 | 0 * | 0 | 0 * | 0 |
| 2,5-Dimethylheptane | 0.00731696 | 0.538389 * | 0.0245782 | 9.4709 * | 0.0475587 |
| Isononane | 0 | 0 * | 0 | 0 * | 0.00402509 |
| 3,4-Dimethylheptane | 0 | 0 * | 0.00642723 | 2.09481 * | 0.0119005 |
| Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0.0576811 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 * | 0 | 0 * | 0.00970562 |
| Methylcyclopropane | 0 | 0 * | 0 | 0 * | 0 |
| m-Ethyltoluene | 0.0415594 | 0.158965 * | 0.0246967 | 1.24422 * | 0.0433123 |
| p-Ethyltoluene | 0.0516413 | 0.158965 * | 0.028337 | 1.24422 * | 0.0482525 |
| n-Nonane | 0.0147431 | 0.796521 * | 0.0128248 | 6.01889 * | 0.0245985 |
| Propylbenzene | 0.0806396 | 0.304106 * | 0.0640028 | 3.17968 * | 0.0598225 |
| Propylcyclohexane | 0.00956839 | 0.210519 * | 0.00912793 | 2.11996 * | 0 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 2-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Ethyloctane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 4-Methylnonane | 0.00741737 | 0.294544 * | 0 | 0 * | 0 |
| Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Butylcyclohexane | 0 | 0 * | 0 | 0 * | 0 |
| Isobutylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Naphthalene | 0.138125 | 0.324294 * | 0.0123903 | 1.41527 * | 5.94402E-05 |
| n-Decane | 0.0101129 | 0.409089 * | 0.00150158 | 1.24378 * | 0 |
| sec-Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Undecane | 0.0134757 | 0.413465 * | 0.00119439 | 1.33044 * | 0.00251387 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Flow | RH1 BTEX to RH1 Flare lb/h | RH1 Dehy Inlet lb/h | RH2 BTEX to RH2 TO lb/h | RH2 Dehy Inlet lb/h | RH3 BTEX to RH2 TO lb/h |
|---|---|---|---|---|---|
| Pentylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Dodecane | 0 | 0 * | 0.00123446 | 2.2727 * | 0 |
| n-Tridecane | 0.0184679 | 0.572483 * | 0.000805255 | 2.12056 * | 0.0009742 |
| n-Tetradecane | 0.00949404 | 0.444917 * | 0.000558546 | 2.55573 * | 0 |
| n-Pentadecane | 0 | 0 * | 0 | 0 * | 0 |
| H2O | 4.53006 | 0 * | 7.00644 | 0 * | 10.1455 |
| MDEA | 0.0199088 | 0 * | 0.00749562 | 0 * | 0.0425754 |
| Piperazine | 0 | 0 * | 0 | 0 * | 3.41262E-08 |
| TEG | 2.26096E-10 | 0 * | 2.4332E-10 | 0 * | 3.86914E-10 |

## Stream Properties

| Property | Units | RH1 BTEX to RH1 Flare | RH1 Dehy Inlet | RH2 BTEX to RH2 TO | RH2 Dehy Inlet | RH3 BTEX to RH2 TO |
|---|---|---|---|---|---|---|
| Temperature | °F | 120 | 120 * | 120 | 120 * | 120 |
| Pressure | psig | 0 | 825 * | 0 | 875 * | 0 |
| Molecular Weight | lb/lbmol | 47.0331 | 22.9082 | 52.0974 | 21.3558 | 52.1837 |
| Mass Density | lb/ft^3 | 0.0987304 | 3.72007 | 0.109823 | 3.61748 | 0.110012 |
| Mass Flow | lb/h | 90.0544 | 131731 | 154.696 | 491278 | 224.403 |
| Std Vapor Volumetric Flow | MMSCFD | 0.0174385 | 52.3726 | 0.0270439 | 209.516 | 0.0391651 |
| Std Liquid Volumetric Flow | sgpm | 0.296323 | 714.344 | 0.502423 | 2792.46 | 0.731303 |
| Specific Gravity | | 1.62393 | 0.79096 | 1.79879 | 0.737362 | 1.80177 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 2122.38 | 1290.38 | 2703.91 | 1265.35 | 2715.11 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Connections

| | RH3 Dehy Inlet | RH4 BTEX to RH4 TO | RH4 Dehy Inlet | RH5 BTEX to RH5 TO | RH5 Dehy Inlet |
|---|---|---|---|---|---|
| From Block | -- | VSSL-117 | -- | VSSL-111 | -- |
| To Block | SAT-4 | -- | SAT-3 | MIX-108 | SAT-5 |

## Stream Composition

| Mole Fraction | RH3 Dehy Inlet % | | RH4 BTEX to RH4 TO % | | RH4 Dehy Inlet % | | RH5 BTEX to RH5 TO % | | RH5 Dehy Inlet % | |
|---|---|---|---|---|---|---|---|---|---|---|
| Helium | 0.0151001 | * | 0.000512865 | | 0.0182 | * | 0.000338381 | | 0.0169 | * |
| N2 | 3.45391 | * | 0.0271532 | | 2.54171 | * | 0.012986 | | 1.7982 | * |
| CO2 | 0.00450002 | * | 0.109328 | | 0.015 | * | 0.22095 | | 0.0421 | * |
| O2 | 0.0944004 | * | 0.000163396 | | 0.0149 | * | 3.89179E-05 | | 0.00535 | * |
| Argon | 0.0944004 | * | 0.00512211 | | 0.0149 | * | 0.00132098 | | 0.00535 | * |
| H2S | 0 | * | 0 | | 0 | * | 0 | | 0 | * |
| C1 | 75.8439 | * | 10.3443 | | 76.972 | * | 6.53386 | | 70.5279 | * |
| C2 | 11.0407 | * | 12.7519 | | 11.5347 | * | 10.809 | | 13.9686 | * |
| C3 | 5.58842 | * | 15.4086 | | 5.47181 | * | 16.6285 | | 8.355 | * |
| iC4 | 0.803003 | * | 2.79762 | | 0.720602 | * | 3.20183 | | 1.1613 | * |
| nC4 | 1.78711 | * | 11.2759 | | 1.61 | * | 13.2078 | | 2.6314 | * |
| iC5 | 0.438602 | * | 3.76025 | | 0.359001 | * | 4.22317 | | 0.5463 | * |
| nC5 | 0.413202 | * | 4.88729 | | 0.366801 | * | 5.4443 | | 0.5425 | * |
| Neo-Pentane | 0 | * | 0 | | 0 | * | 0 | | 0 | * |
| 2,2-Dimethylbutane | 0.00436702 | * | 0.0505603 | | 0.00339201 | * | 0.0500098 | | 0.00435 | * |
| 2,3-Dimethylbutane | 0.010338 | * | 0.197038 | | 0.00933053 | * | 0.207851 | | 0.012517 | * |
| Cyclopentane | 0.010338 | * | 0.724908 | | 0.00933053 | * | 0.777547 | | 0.012517 | * |
| i-Hexane | 0.0844903 | * | 1.30339 | | 0.0716822 | * | 1.29377 | | 0.089686 | * |
| 3-Methylpentane | 0.0423132 | * | 0.801129 | | 0.0343491 | * | 0.775682 | | 0.041517 | * |
| Benzene | 0.0158311 | * | 7.9936 | | 0.015423 | * | 9.44915 | | 0.020012 | * |
| Cyclohexane | 0.0375281 | * | 2.70841 | | 0.0336081 | * | 2.61962 | | 0.036446 | * |
| Methylcyclopentane | 0.0370371 | * | 2.57253 | | 0.0317701 | * | 2.51353 | | 0.036497 | * |
| C6 | 0.0840843 | * | 1.70607 | | 0.0740432 | * | 1.60221 | | 0.084619 | * |
| 1,1-Dimethylcyclopentane | 0.00540502 | * | 0.370072 | | 0.00451401 | * | 0.303615 | | 0.0038855 | * |
| 3-Methylhexane | 0.00540502 | * | 0.136322 | | 0.00451401 | * | 0.112215 | | 0.0038855 | * |
| 2,2-Dimethylpentane | 0.000793003 | * | 0.0141904 | | 0.000757002 | * | 0.0105993 | | 0.000651 | * |
| 2,3-Dimethylpentane | 0.00263901 | * | 0.0687964 | | 0.00198101 | * | 0.0613985 | | 0.001889 | * |
| 2,4-Dimethylhexane | 0.000710503 | * | 0.0144851 | | 0.000564502 | * | 0.0118137 | | 0.0004075 | * |
| Ethylcyclopentane | 0.000710503 | * | 0.053652 | | 0.000564502 | * | 0.0427696 | | 0.0004075 | * |
| 2,4-Dimethylpentane | 0.000175001 | * | 0.00325535 | | 0.000175 | * | 0.00285825 | | 0.000175 | * |
| i-Heptane | 0.00859403 | * | 0.170041 | | 0.00718502 | * | 0.139097 | | 0.006275 | * |
| 3,3-Dimethylpentane | 0.000483002 | * | 0.0114723 | | 0.000345001 | * | 0.00945986 | | 0.000314 | * |
| cis-1,3-Dimethylcyclopentane | 0.00196501 | * | 0.138698 | | 0.001651 | * | 0.118415 | | 0.0014445 | * |
| 3-Ethylpentane | 0.00196501 | * | 0.0597682 | | 0.001651 | * | 0.0505268 | | 0.0014445 | * |
| Cycloheptane | 4.70002E-05 | * | 0.00381761 | | 4.00001E-05 | * | 0.00277883 | | 2.3E-05 | * |
| Methylcyclohexane | 0.00650369 | * | 0.364685 | | 0.00533401 | * | 0.307748 | | 0.004273 | * |
| 2,2-Dimethylhexane | 0.00650369 | * | 0.117229 | | 0.00533401 | * | 0.102055 | | 0.004273 | * |
| i-Octane | 0.00650369 | * | 0.146756 | | 0.00533401 | * | 0.114721 | | 0.004273 | * |
| n-Heptane | 0.0157131 | * | 0.388208 | | 0.013235 | * | 0.311834 | | 0.010424 | * |
| Toluene | 0.010873 | * | 4.07957 | | 0.00748502 | * | 4.5108 | | 0.006816 | * |
| trans-1,2-Dimethylcyclopentane | 0.000451002 | * | 0.0338781 | | 0.000388001 | * | 0.0306898 | | 0.0003565 | * |
| cis-1,2-Dimethylcyclopentane | 0.000451002 | * | 0.0372327 | | 0.000388001 | * | 0.0360524 | | 0.0003565 | * |
| trans-1,3-Dimethylcyclopentane | 0.00309201 | * | 0.234468 | | 0.00265801 | * | 0.213748 | | 0.002434 | * |
| 1-Ethyl-1-Methylcyclopentane | 0.000358001 | * | 0.020974 | | 0.000269001 | * | 0.0166289 | | 0.000156 | * |
| 2,2,3-Trimethylpentane | 0.000927004 | * | 0.0282913 | | 0.000767002 | * | 0.0215628 | | 0.000518 | * |
| 2,3,4-Trimethylpentane | 0.001236 | * | 0.0396699 | | 0.000996003 | * | 0.031647 | | 0.00067 | * |
| 2,5-Dimethylhexane | 0 | * | 0 | | 0 | * | 0 | | 0 | * |
| 2-Methylheptane | 0.00183701 | * | 0.0344197 | | 0.0013765 | * | 0.0257215 | | 0.0008175 | * |
| 4-Methylheptane | 0.00183701 | * | 0.0391281 | | 0.0013765 | * | 0.0296624 | | 0.0008175 | * |
| 3,3-Dimethylhexane | 0.000415002 | * | 0.00971299 | | 0.000302001 | * | 0.006877 | | 0.000184 | * |
| 3-Methylheptane | 0.000904003 | * | 0.0198758 | | 0.000687002 | * | 0.0138135 | | 0.000368 | * |
| cis-1,2-Dimethylcyclohexane | 0.00178101 | * | 0.0640877 | | 0.001454 | * | 0.0550182 | | 0.000834 | * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| cis-1,3-Dimethylcyclohexane | 0.000374001 * | 0.0107158 | 0.000255001 * | 0.00548258 | 0.0001 * |
| Cyclooctane | 3.70001E-05 * | 0.0593789 | 0.0001 * | 0 | 0 * |
| Ethylbenzene | 0.000528002 * | 0.120171 | 0.000315001 * | 0.1253 | 0.000175 * |
| Ethylcyclohexane | 0.000676003 * | 0.0285386 | 0.000496001 * | 0.0195351 | 0.000216 * |
| m-Xylene | 0.000583502 * | 0.13202 | 0.000364501 * | 0.13846 | 0.000201 * |
| p-Xylene | 0.000583502 * | 0.12665 | 0.000364501 * | 0.131177 | 0.000201 * |
| n-Octane | 0.00245801 * | 0.0508273 | 0.00187801 * | 0.0349656 | 0.000898 * |
| o-Xylene | 0.000336001 * | 0.0994757 | 0.000209001 * | 0.116811 | 0.000129 * |
| trans-1,3-Dimethylcyclohexane | 0.000327001 * | 0.0119973 | 0.000275001 * | 0.00879423 | 0.000145 * |
| 1,1,2-Trimethylcyclohexane | 4.60002E-05 * | 0.0013073 | 4.40001E-05 * | 0.001928 | 3.9E-05 * |
| 1,2,3-Trimethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4-Trimethylbenzene | 5.70002E-05 * | 0.0068615 | 3.00001E-05 * | 0 | 0 * |
| tert-Butylbenzene | 5.70002E-05 * | 0.00404992 | 3.00001E-05 * | 0 | 0 * |
| 1,3,5-Trimethylbenzene | 6.20002E-05 * | 0.0109449 | 5.10001E-05 * | 0 | 0 * |
| 2,2,3-Trimethylhexane | 6.30002E-05 * | 0.000852682 | 5.30001E-05 * | 0 | 0 * |
| 2,2,4-Trimethylhexane | 0.000396002 * | 0.0048358 | 0.000302001 * | 0.0031283 | 0.000167 * |
| 2,2-Dimethylheptane | 0.000105 * | 0.00158186 | 6.50002E-05 * | 0 | 0 * |
| 2,3,4-Trimethylhexane | 0.000191001 * | 0.00386514 | 0.000119 * | 0.00237705 | 4.6E-05 * |
| 2,4,4-Trimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,5-Dimethylheptane | 0.000414002 * | 0.00617542 | 0.000232001 * | 0.00285709 | 7.1E-05 * |
| Isononane | 3.80001E-05 * | 0 | 0 * | 0 | 0 * |
| 3,4-Dimethylheptane | 8.90003E-05 * | 0.00188201 | 5.90002E-05 * | 0 | 0 * |
| Isopropylbenzene | 7.35003E-05 * | 0.0216284 | 9.80003E-05 * | 0 | 0 * |
| 1,1,3-Trimethylcyclopentane | 7.35003E-05 * | 0.00306703 | 9.80003E-05 * | 0 | 0 * |
| Methylcyclopropane | 0 * | 0 | 0 * | 0 | 0 * |
| m-Ethyltoluene | 5.75002E-05 * | 0.00589307 | 2.75001E-05 * | 0 | 0 * |
| p-Ethyltoluene | 5.75002E-05 * | 0.00676979 | 2.75001E-05 * | 0 | 0 * |
| n-Nonane | 0.000262001 * | 0.00442947 | 0.000194001 * | 0 | 0 * |
| Propylbenzene | 7.90003E-05 * | 0.0241068 | 0.000111 * | 0.0241389 | 4.3E-05 * |
| Propylcyclohexane | 0 * | 0 | 0 * | 0.00202603 | 1.9E-05 * |
| 1,2,3,4-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,3,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-3-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-4-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Dimethyl-2-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Dimethyl-2-ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Propylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-3-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-4-isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Ethyloctane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 4-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Butylcyclohexane | 0 * | 0 | 0 * | 0 | 0 * |
| Isobutylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Naphthalene | 0 * | 0.0054222 | 5.80002E-05 * | 0 | 0 * |
| n-Decane | 0 * | 0 | 0 * | 0 | 0 * |
| sec-Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Undecane | 5.10002E-05 * | 0.0004352 | 4.20001E-05 * | 0 | 0 * |
| Pentylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Dodecane | 0 * | 0.000414069 | 6.50002E-05 * | 0 | 0 * |
| n-Tridecane | 4.10002E-05 * | 0.000517143 | 0.000114 * | 0.000845879 | 4.4E-05 * |
| n-Tetradecane | 0 * | 0 | 0 * | 0.000447533 | 4.1E-05 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| n-Pentadecane | 0 * | 0 | 0 * | 0 | 0 * |
| H2O | 0 * | 13.1014 | 0 * | 13.0919 | 0 * |
| MDEA | 0 * | 0.0151951 | 0 * | 0.0222548 | 0 * |
| Piperazine | 0 * | 1.73487E-08 | 0 * | 9.59287E-09 | 0 * |
| TEG | 0 * | 5.51151E-11 | 0 * | 6.00105E-11 | 0 * |

| Mass Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| Helium | 0.00281298 * | 4.01683E-05 | 0.00344307 * | 2.54051E-05 | 0.00293284 * |
| N2 | 4.50322 * | 0.0148842 | 3.36529 * | 0.00682362 | 2.18405 * |
| CO2 | 0.00921736 * | 0.0941491 | 0.0312011 * | 0.182395 | 0.0803317 * |
| O2 | 0.14059 * | 0.000102309 | 0.0225347 * | 2.33591E-05 | 0.00742243 * |
| Argon | 0.175515 * | 0.00400389 | 0.0281328 * | 0.000989839 | 0.00926632 * |
| H2S | 0 * | 0 | 0 * | 0 | 0 * |
| C1 | 56.6288 * | 3.24722 | 58.3626 * | 1.96614 | 49.0558 * |
| C2 | 15.4513 * | 7.50298 | 16.393 * | 6.09645 | 18.2109 * |
| C3 | 11.4691 * | 13.2953 | 11.404 * | 13.7538 | 15.9735 * |
| iC4 | 2.17223 * | 3.18177 | 1.97956 * | 3.49071 | 2.92648 * |
| nC4 | 4.83435 * | 12.8242 | 4.42283 * | 14.3995 | 6.63113 * |
| iC5 | 1.4728 * | 5.30865 | 1.22421 * | 5.71532 | 1.70891 * |
| nC5 | 1.38751 * | 6.89978 | 1.25081 * | 7.36791 | 1.69702 * |
| Neo-Pentane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,2-Dimethylbutane | 0.0175152 * | 0.0852571 | 0.0138156 * | 0.0808372 | 0.0162529 * |
| 2,3-Dimethylbutane | 0.0414636 * | 0.332254 | 0.0380032 * | 0.335977 | 0.0467673 * |
| Cyclopentane | 0.0337447 * | 0.994816 | 0.0309285 * | 1.02287 | 0.038061 * |
| i-Hexane | 0.338872 * | 2.19783 | 0.291961 * | 2.09129 | 0.335094 * |
| 3-Methylpentane | 0.169709 * | 1.3509 | 0.139904 * | 1.25384 | 0.15512 * |
| Benzene | 0.0575536 * | 12.2179 | 0.05694 * | 13.8447 | 0.0677744 * |
| Cyclohexane | 0.146996 * | 4.46021 | 0.133683 * | 4.13537 | 0.132988 * |
| Methylcyclopentane | 0.145073 * | 4.23644 | 0.126372 * | 3.9679 | 0.133174 * |
| C6 | 0.337244 * | 2.87686 | 0.301578 * | 2.58986 | 0.316162 * |
| 1,1-Dimethylcyclopentane | 0.0246998 * | 0.711007 | 0.020948 * | 0.559172 | 0.0165408 * |
| 3-Methylhexane | 0.0252069 * | 0.267288 | 0.0213781 * | 0.210912 | 0.0168804 * |
| 2,2-Dimethylpentane | 0.00369826 * | 0.0278234 | 0.00358512 * | 0.0199217 | 0.00282824 * |
| 2,3-Dimethylpentane | 0.0123073 * | 0.13489 | 0.00938194 * | 0.1154 | 0.00820667 * |
| 2,4-Dimethylhexane | 0.00377734 * | 0.0323768 | 0.00304769 * | 0.0253125 | 0.00201818 * |
| Ethylcyclopentane | 0.00324684 * | 0.10308 | 0.00261966 * | 0.0787696 | 0.00173475 * |
| 2,4-Dimethylpentane | 0.000816135 * | 0.00638281 | 0.000828793 * | 0.00537217 | 0.000760279 * |
| i-Heptane | 0.0400792 * | 0.333401 | 0.0340279 * | 0.261438 | 0.0272614 * |
| 3,3-Dimethylpentane | 0.00225253 * | 0.0224939 | 0.00163391 * | 0.0177801 | 0.00136416 * |
| cis-1,3-Dimethylcyclopentane | 0.00897966 * | 0.266475 | 0.00766176 * | 0.218088 | 0.0061493 * |
| 3-Ethylpentane | 0.00916402 * | 0.117188 | 0.00781907 * | 0.0949667 | 0.00627556 * |
| Cycloheptane | 0.000214781 * | 0.00733466 | 0.000185627 * | 0.00511782 | 9.79121E-05 * |
| Methylcyclohexane | 0.0297205 * | 0.700658 | 0.0247534 * | 0.566785 | 0.0181904 * |
| 2,2-Dimethylhexane | 0.0345765 * | 0.262028 | 0.0287978 * | 0.218666 | 0.0211625 * |
| i-Octane | 0.0345765 * | 0.328025 | 0.0287978 * | 0.245806 | 0.0211625 * |
| n-Heptane | 0.0732796 * | 0.761166 | 0.0626804 * | 0.586101 | 0.0452865 * |
| Toluene | 0.046627 * | 7.35519 | 0.032596 * | 7.79592 | 0.0272288 * |
| trans-1,2-Dimethylcyclopentane | 0.00206098 * | 0.0650888 | 0.00180058 * | 0.0565219 | 0.00151764 * |
| cis-1,2-Dimethylcyclopentane | 0.00206098 * | 0.0715339 | 0.00180058 * | 0.0663984 | 0.00151764 * |
| trans-1,3-Dimethylcyclopentane | 0.0141298 * | 0.450475 | 0.0123349 * | 0.393663 | 0.0103617 * |
| 1-Ethyl-1-Methylcyclopentane | 0.0018697 * | 0.0460534 | 0.00142668 * | 0.0350009 | 0.000758971 * |
| 2,2,3-Trimethylpentane | 0.00492835 * | 0.0632363 | 0.00414097 * | 0.0462012 | 0.00256545 * |
| 2,3,4-Trimethylpentane | 0.00657114 * | 0.0886695 | 0.00537732 * | 0.067808 | 0.00331824 * |
| 2,5-Dimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylheptane | 0.00976633 * | 0.0769343 | 0.00743161 * | 0.0551117 | 0.00404875 * |
| 4-Methylheptane | 0.00976633 * | 0.0874584 | 0.00743161 * | 0.0635556 | 0.00404875 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| 3,3-Dimethylhexane | 0.00220633 * | 0.0217103 | 0.00163047 * | 0.0147349 | 0.000911278 * |
| 3-Methylheptane | 0.00480608 * | 0.0444259 | 0.00370905 * | 0.0295973 | 0.00182256 * |
| cis-1,2-Dimethylcyclohexane | 0.00930151 * | 0.14072 | 0.00771149 * | 0.115803 | 0.00405757 * |
| cis-1,3-Dimethylcyclohexane | 0.00195326 * | 0.0235291 | 0.00135243 * | 0.0115398 | 0.00048652 * |
| Cyclooctane | 0.000193237 * | 0.13038 | 0.000530364 * | 0 | 0 * |
| Ethylbenzene | 0.00260893 * | 0.249643 | 0.00158061 * | 0.249521 | 0.000805523 * |
| Ethylcyclohexane | 0.0035305 * | 0.0626632 | 0.0026306 * | 0.0411178 | 0.00105088 * |
| m-Xylene | 0.00288317 * | 0.274258 | 0.00182899 * | 0.275726 | 0.000925201 * |
| p-Xylene | 0.00288317 * | 0.263102 | 0.00182899 * | 0.261223 | 0.000925201 * |
| n-Octane | 0.0130678 * | 0.113608 | 0.0101392 * | 0.0749186 | 0.00444743 * |
| o-Xylene | 0.00166023 * | 0.20665 | 0.00104872 * | 0.232615 | 0.000593786 * |
| trans-1,3-Dimethylcyclohexane | 0.0017078 * | 0.0263429 | 0.0014585 * | 0.0185103 | 0.000705454 * |
| 1,1,2-Trimethylcyclohexane | 0.000270271 * | 0.00322928 | 0.00026253 * | 0.00456535 | 0.000213461 * |
| 1,2,3-Trimethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4-Trimethylbenzene | 0.000318857 * | 0.0161373 | 0.000170423 * | 0 | 0 * |
| tert-Butylbenzene | 0.000356069 * | 0.0106364 | 0.000190311 * | 0 | 0 * |
| 1,3,5-Trimethylbenzene | 0.000346827 * | 0.025741 | 0.000289718 * | 0 | 0 * |
| 2,2,3-Trimethylhexane | 0.000376065 * | 0.00213993 | 0.000321279 * | 0 | 0 * |
| 2,2,4-Trimethylhexane | 0.00236384 * | 0.0121362 | 0.00183068 * | 0.00752587 | 0.000928645 * |
| 2,2-Dimethylheptane | 0.000626775 * | 0.0039699 | 0.000394021 * | 0 | 0 * |
| 2,3,4-Trimethylhexane | 0.00114013 * | 0.00970015 | 0.000721362 * | 0.00571855 | 0.000255794 * |
| 2,4,4-Trimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,5-Dimethylheptane | 0.00247128 * | 0.0154981 | 0.00140635 * | 0.0068734 | 0.000394813 * |
| Isononane | 0.000226833 * | 0 | 0 * | 0 | 0 * |
| 3,4-Dimethylheptane | 0.000531266 * | 0.00472318 | 0.00035765 * | 0 | 0 * |
| Isopropylbenzene | 0.000411158 * | 0.050867 | 0.000556714 * | 0 | 0 * |
| 1,1,3-Trimethylcyclopentane | 0.000383863 * | 0.00673439 | 0.000519756 * | 0 | 0 * |
| Methylcyclopropane | 0 * | 0 | 0 * | 0 | 0 * |
| m-Ethyltoluene | 0.000321654 * | 0.0138597 | 0.000156221 * | 0 | 0 * |
| p-Ethyltoluene | 0.000321654 * | 0.0159216 | 0.000156221 * | 0 | 0 * |
| n-Nonane | 0.00156395 * | 0.0111164 | 0.001176 * | 0 | 0 * |
| Propylbenzene | 0.000441925 * | 0.0566958 | 0.000630564 * | 0.0544209 | 0.000224079 * |
| Propylcyclohexane | 0 * | 0 | 0 * | 0.00479749 | 0.000103994 * |
| 1,2,3,4-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,3,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-3-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-4-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Dimethyl-2-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Dimethyl-2-ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Propylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-3-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-4-isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Ethyloctane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 4-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Butylcyclohexane | 0 * | 0 | 0 * | 0 | 0 * |
| Isobutylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Naphthalene | 0 * | 0.0135988 | 0.000351357 * | 0 | 0 * |
| n-Decane | 0 * | 0 | 0 * | 0 | 0 * |
| sec-Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Undecane | 0.000371022 * | 0.00133109 | 0.000310287 * | 0 | 0 * |
| Pentylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Dodecane | 0 * | 0.00138011 | 0.000523298 * | 0 | 0 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| n-Tridecane | 0.000351805 * | 0.0018656 | 0.00099336 * | 0.00292517 | 0.000351707 * |
| n-Tetradecane | 0 * | 0 | 0 * | 0.00166538 | 0.000352661 * |
| n-Pentadecane | 0 * | 0 | 0 * | 0 | 0 * |
| H2O | 0 * | 4.61845 | 0 * | 4.42402 | 0 * |
| MDEA | 0 * | 0.0354307 | 0 * | 0.0497435 | 0 * |
| Piperazine | 0 * | 2.92407E-08 | 0 * | 1.5499E-08 | 0 * |
| TEG | 0 * | 1.61957E-10 | 0 * | 1.69041E-10 | 0 * |

| Mass Flow | RH3 Dehy Inlet lb/h | RH4 BTEX to RH4 TO lb/h | RH4 Dehy Inlet lb/h | RH5 BTEX to RH5 TO lb/h | RH5 Dehy Inlet lb/h |
|---|---|---|---|---|---|
| Helium | 13.9037 * | 5.77368E-05 | 16.7581 * | 7.08732E-05 | 15.5614 * |
| N2 | 22258 * | 0.0213941 | 16379.5 * | 0.019036 | 11588.4 * |
| CO2 | 45.5585 * | 0.135327 | 151.862 * | 0.508832 | 426.234 * |
| O2 | 694.89 * | 0.000147055 | 109.681 * | 6.51654E-05 | 39.3829 * |
| Argon | 867.515 * | 0.00575507 | 136.928 * | 0.00276137 | 49.1664 * |
| H2S | 0 * | 0 | 0 * | 0 | 0 * |
| C1 | 279898 * | 4.66746 | 284062 * | 5.48498 | 260287 * |
| C2 | 76370.6 * | 10.7846 | 79787.8 * | 17.0074 | 96625.6 * |
| C3 | 56688.3 * | 19.1103 | 55505.5 * | 38.3691 | 84754.3 * |
| iC4 | 10736.6 * | 4.57338 | 9634.89 * | 9.73809 | 15527.7 * |
| nC4 | 23894.7 * | 18.4331 | 21526.7 * | 40.1705 | 35184.3 * |
| iC5 | 7279.6 * | 7.6305 | 5958.46 * | 15.9441 | 9067.35 * |
| nC5 | 6858.03 * | 9.91754 | 6087.92 * | 20.5544 | 9004.27 * |
| Neo-Pentane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,2-Dimethylbutane | 86.5718 * | 0.122546 | 67.2434 * | 0.225513 | 86.2367 * |
| 2,3-Dimethylbutane | 204.941 * | 0.477573 | 184.969 * | 0.937281 | 248.144 * |
| Cyclopentane | 166.789 * | 1.42992 | 150.535 * | 2.85353 | 201.949 * |
| i-Hexane | 1674.94 * | 3.1591 | 1421.03 * | 5.83411 | 1777.98 * |
| 3-Methylpentane | 838.817 * | 1.94175 | 680.938 * | 3.49785 | 823.055 * |
| Benzene | 284.469 * | 17.5617 | 277.138 * | 38.6228 | 359.606 * |
| Cyclohexane | 726.555 * | 6.41098 | 650.663 * | 11.5365 | 705.623 * |
| Methylcyclopentane | 717.049 * | 6.08934 | 615.079 * | 11.0693 | 706.611 * |
| C6 | 1666.89 * | 4.13511 | 1467.84 * | 7.22498 | 1677.53 * |
| 1,1-Dimethylcyclopentane | 122.083 * | 1.02198 | 101.958 * | 1.55993 | 87.7641 * |
| 3-Methylhexane | 124.59 * | 0.384192 | 104.051 * | 0.588385 | 89.566 * |
| 2,2-Dimethylpentane | 18.2793 * | 0.0399925 | 17.4495 * | 0.0555758 | 15.0064 * |
| 2,3-Dimethylpentane | 60.8311 * | 0.193887 | 45.6637 * | 0.321935 | 43.544 * |
| 2,4-Dimethylhexane | 18.6702 * | 0.0465374 | 14.8337 * | 0.0706147 | 10.7083 * |
| Ethylcyclopentane | 16.0481 * | 0.148164 | 12.7504 * | 0.219745 | 9.20444 * |
| 2,4-Dimethylpentane | 4.03389 * | 0.00917447 | 4.0339 * | 0.0149868 | 4.03398 * |
| i-Heptane | 198.099 * | 0.479222 | 165.62 * | 0.729338 | 144.647 * |
| 3,3-Dimethylpentane | 11.1335 * | 0.0323321 | 7.95254 * | 0.0496015 | 7.23812 * |
| cis-1,3-Dimethylcyclopentane | 44.3836 * | 0.383024 | 37.2913 * | 0.608403 | 32.6278 * |
| 3-Ethylpentane | 45.2948 * | 0.168443 | 38.0569 * | 0.26493 | 33.2977 * |
| Cycloheptane | 1.06159 * | 0.0105426 | 0.903484 * | 0.0142773 | 0.519514 * |
| Methylcyclohexane | 146.899 * | 1.00711 | 120.48 * | 1.58117 | 96.5168 * |
| 2,2-Dimethylhexane | 170.9 * | 0.376632 | 140.164 * | 0.610017 | 112.286 * |
| i-Octane | 170.9 * | 0.471494 | 140.164 * | 0.68573 | 112.286 * |
| n-Heptane | 362.197 * | 1.09408 | 305.078 * | 1.63506 | 240.287 * |
| Toluene | 230.463 * | 10.5721 | 158.651 * | 21.7484 | 144.474 * |
| trans-1,2-Dimethylcyclopentane | 10.1868 * | 0.0935568 | 8.76379 * | 0.15768 | 8.05247 * |
| cis-1,2-Dimethylcyclopentane | 10.1868 * | 0.102821 | 8.76379 * | 0.185233 | 8.05247 * |
| trans-1,3-Dimethylcyclopentane | 69.8392 * | 0.6475 | 60.0365 * | 1.09821 | 54.9782 * |
| 1-Ethyl-1-Methylcyclopentane | 9.24134 * | 0.0661959 | 6.94392 * | 0.0976426 | 4.02704 * |
| 2,2,3-Trimethylpentane | 24.3593 * | 0.090894 | 20.1549 * | 0.128888 | 13.6121 * |
| 2,3,4-Trimethylpentane | 32.479 * | 0.127451 | 26.1724 * | 0.189165 | 17.6063 * |
| 2,5-Dimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylheptane | 48.2718 * | 0.110583 | 36.1711 * | 0.153746 | 21.4824 * |
| 4-Methylheptane | 48.2718 * | 0.12571 | 36.1711 * | 0.177302 | 21.4824 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions | |
| Location: | New Mexico | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Flow | RH3 Dehy Inlet lb/h | RH4 BTEX to RH4 TO lb/h | RH4 Dehy Inlet lb/h | RH5 BTEX to RH5 TO lb/h | RH5 Dehy Inlet lb/h |
|---|---|---|---|---|---|
| 3,3-Dimethylhexane | 10.9052 * | 0.0312057 | 7.93582 * | 0.0411062 | 4.83518 * |
| 3-Methylheptane | 23.7549 * | 0.0638565 | 18.0527 * | 0.0825682 | 9.67035 * |
| cis-1,2-Dimethylcyclohexane | 45.9744 * | 0.202266 | 37.5333 * | 0.323059 | 21.5292 * |
| cis-1,3-Dimethylcyclohexane | 9.65436 * | 0.03382 | 6.58252 * | 0.0321929 | 2.58144 * |
| Cyclooctane | 0.955111 * | 0.187405 | 2.58138 * | 0 | 0 * |
| Ethylbenzene | 12.8951 * | 0.35883 | 7.69312 * | 0.696093 | 4.27405 * |
| Ethylcyclohexane | 17.4501 * | 0.0900702 | 12.8037 * | 0.114707 | 5.57591 * |
| m-Xylene | 14.2506 * | 0.394211 | 8.90204 * | 0.769198 | 4.90905 * |
| p-Xylene | 14.2506 * | 0.378175 | 8.90204 * | 0.728738 | 4.90905 * |
| n-Octane | 64.5902 * | 0.163297 | 49.3493 * | 0.209002 | 23.5978 * |
| o-Xylene | 8.20599 * | 0.297033 | 5.10432 * | 0.648931 | 3.15058 * |
| trans-1,3-Dimethylcyclohexane | 8.44111 * | 0.0378645 | 7.0988 * | 0.0516385 | 3.74309 * |
| 1,1,2-Trimethylcyclohexane | 1.33586 * | 0.00464168 | 1.27778 * | 0.0127361 | 1.13261 * |
| 1,2,3-Trimethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4-Trimethylbenzene | 1.57601 * | 0.0231953 | 0.82948 * | 0 | 0 * |
| tert-Butylbenzene | 1.75993 * | 0.0152885 | 0.926281 * | 0 | 0 * |
| 1,3,5-Trimethylbenzene | 1.71426 * | 0.0369994 | 1.41012 * | 0 | 0 * |
| 2,2,3-Trimethylhexane | 1.85877 * | 0.00307588 | 1.56373 * | 0 | 0 * |
| 2,2,4-Trimethylhexane | 11.6837 * | 0.0174442 | 8.91029 * | 0.0209951 | 4.92732 * |
| 2,2-Dimethylheptane | 3.09795 * | 0.00570623 | 1.91778 * | 0 | 0 * |
| 2,3,4-Trimethylhexane | 5.63531 * | 0.0139427 | 3.51101 * | 0.0159532 | 1.35723 * |
| 2,4,4-Trimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,5-Dimethylheptane | 12.2148 * | 0.0222766 | 6.84499 * | 0.0191749 | 2.09485 * |
| Isononane | 1.12116 * | 0 | 0 * | 0 | 0 * |
| 3,4-Dimethylheptane | 2.62588 * | 0.00678896 | 1.74075 * | 0 | 0 * |
| Isopropylbenzene | 2.03222 * | 0.0731147 | 2.70963 * | 0 | 0 * |
| 1,1,3-Trimethylcyclopentane | 1.89731 * | 0.00967982 | 2.52975 * | 0 | 0 * |
| Methylcyclopropane | 0 * | 0 | 0 * | 0 | 0 * |
| m-Ethyltoluene | 1.58983 * | 0.0199215 | 0.760356 * | 0 | 0 * |
| p-Ethyltoluene | 1.58983 * | 0.0228853 | 0.760356 * | 0 | 0 * |
| n-Nonane | 7.73012 * | 0.0159784 | 5.72383 * | 0 | 0 * |
| Propylbenzene | 2.18429 * | 0.081493 | 3.06907 * | 0.151819 | 1.18895 * |
| Propylcyclohexane | 0 * | 0 | 0 * | 0.0133836 | 0.551782 * |
| 1,2,3,4-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,3,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-3-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-4-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Dimethyl-2-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Dimethyl-2-ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Propylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-3-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-4-isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Ethyloctane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 4-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Butylcyclohexane | 0 * | 0 | 0 * | 0 | 0 * |
| Isobutylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Naphthalene | 0 * | 0.0195466 | 1.71012 * | 0 | 0 * |
| n-Decane | 0 * | 0 | 0 * | 0 | 0 * |
| sec-Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Undecane | 1.83384 * | 0.00191327 | 1.51022 * | 0 | 0 * |
| Pentylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Dodecane | 0 * | 0.00198373 | 2.54699 * | 0 | 0 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Flow | RH3 Dehy Inlet lb/h | RH4 BTEX to RH4 TO lb/h | RH4 Dehy Inlet lb/h | RH5 BTEX to RH5 TO lb/h | RH5 Dehy Inlet lb/h |
|---|---|---|---|---|---|
| n-Tridecane | 1.73886 * | 0.00268156 | 4.83488 * | 0.00816042 | 1.86613 * |
| n-Tetradecane | 0 * | 0 | 0 * | 0.00464595 | 1.8712 * |
| n-Pentadecane | 0 * | 0 | 0 * | 0 | 0 * |
| H2O | 0 * | 6.63842 | 0 * | 12.3418 | 0 * |
| MDEA | 0 * | 0.050927 | 0 * | 0.13877 | 0 * |
| Piperazine | 0 * | 4.20298E-08 | 0 * | 4.32379E-08 | 0 * |
| TEG | 0 * | 2.32793E-10 | 0 * | 4.71577E-10 | 0 * |

## Stream Properties

| Property | Units | RH3 Dehy Inlet | RH4 BTEX to RH4 TO | RH4 Dehy Inlet | RH5 BTEX to RH5 TO | RH5 Dehy Inlet |
|---|---|---|---|---|---|---|
| Temperature | °F | 120 * | 120 | 120 * | 120 | 120 * |
| Pressure | psig | 875 * | 0 | 875 * | 0 | 875 * |
| Molecular Weight | lb/lbmol | 21.4859 | 51.1048 | 21.1577 | 53.3122 | 23.0644 |
| Mass Density | lb/ft^3 | 3.61622 | 0.107671 | 3.55616 | 0.112469 | 4.06875 |
| Mass Flow | lb/h | 494268 | 143.737 | 486719 | 278.972 | 530593 |
| Std Vapor Volumetric Flow | MMSCFD | 209.515 | 0.0256161 | 209.515 | 0.0476585 | 209.52 |
| Std Liquid Volumetric Flow | sgpm | 2765.41 | 0.472013 | 2768.97 | 0.894807 | 2897.58 |
| Specific Gravity | | 0.741853 | 1.76452 | 0.730522 | 1.84073 | 0.796353 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1240.92 | 2654.69 | 1241.56 | 2759.92 | 1355.85 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Connections

| | RH6 BTEX to RH5 TO | RH6 Dehy Inlet | 30 | 62 | 96 |
|---|---|---|---|---|---|
| From Block | VSSL-2811 | -- | PCV-2101B | VLVE-102 | VLVE-108 |
| To Block | MIX-108 | SAT-6 | -- | -- | -- |

## Stream Composition

| Mole Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|---|
| Helium | 0.000250314 | 0.0139 | * | 0.00573554 | 0.00572302 | 0.00446993 |
| N2 | 0.0121327 | 1.82301 | * | 0.377746 | 0.74726 | 0.292153 |
| CO2 | 19.1735 | 3.76381 | * | 0.0764285 | 0.0189727 | 8.14338 |
| O2 | 2.35912E-05 | 0.00350001 | * | 0.001407 | 0.0201616 | 0.000964762 |
| Argon | 0.000816429 | 0.00350001 | * | 0.00786262 | 0.114721 | 0.00518006 |
| H2S | 0.00434715 | 0.0001 | * | 0 | 0 | 0.0138477 |
| C1 | 6.55091 | 74.4862 | * | 54.6042 | 54.7198 | 48.3579 |
| C2 | 8.61882 | 11.2202 | * | 20.0323 | 19.2971 | 20.6996 |
| C3 | 10.8719 | 5.33162 | * | 13.1047 | 13.1837 | 13.5859 |
| iC4 | 2.03616 | 0.705002 | * | 1.83071 | 1.95407 | 1.79771 |
| nC4 | 8.32489 | 1.57881 | * | 5.11597 | 5.30389 | 4.59561 |
| iC5 | 2.90796 | 0.353901 | * | 1.14406 | 1.28099 | 0.827609 |
| nC5 | 3.86329 | 0.361101 | * | 1.28782 | 1.31085 | 0.83667 |
| Neo-Pentane | 0 | 0 | * | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0.0445141 | 0.00361601 | * | 0.0122859 | 0.0129482 | 0.00678413 |
| 2,3-Dimethylbutane | 0.161333 | 0.00916703 | * | 0.0340061 | 0.0325438 | 0.0166926 |
| Cyclopentane | 0.593846 | 0.00916703 | * | 0.0519848 | 0.0481187 | 0.0219804 |
| i-Hexane | 1.07051 | 0.0698692 | * | 0.252924 | 0.253906 | 0.128233 |
| 3-Methylpentane | 0.655838 | 0.0333551 | * | 0.131779 | 0.1338 | 0.0606109 |
| Benzene | 8.01349 | 0.0174661 | * | 0.102043 | 0.081763 | 0.0308974 |
| Cyclohexane | 2.45217 | 0.0341291 | * | 0.170357 | 0.148616 | 0.0537678 |
| Methylcyclopentane | 2.23323 | 0.0315801 | * | 0.180731 | 0.156701 | 0.0635425 |
| C6 | 1.41967 | 0.0716463 | * | 0.279698 | 0.259561 | 0.117958 |
| 1,1-Dimethylcyclopentane | 0.333064 | 0.00435352 | * | 0.023124 | 0.0204097 | 0.00585643 |
| 3-Methylhexane | 0.123117 | 0.00435352 | * | 0.0183411 | 0.0165152 | 0.0050374 |
| 2,2-Dimethylpentane | 0.0107994 | 0.000641002 | * | 0.00272215 | 0.00227879 | 0.000919776 |
| 2,3-Dimethylpentane | 0.0603539 | 0.00188701 | * | 0.00748159 | 0.00833751 | 0.00226615 |
| 2,4-Dimethylhexane | 0.014144 | 0.000539002 | * | 0.00198621 | 0.00193831 | 0.000453054 |
| Ethylcyclopentane | 0.0513874 | 0.000539002 | * | 0.002669 | 0.00253886 | 0.000556359 |
| 2,4-Dimethylpentane | 0.00242496 | 0.000144001 | * | 0.000564548 | 0.000501445 | 0.000189091 |
| i-Heptane | 0.152442 | 0.00690002 | * | 0.0276756 | 0.0250753 | 0.00793199 |
| 3,3-Dimethylpentane | 0.010929 | 0.000363001 | * | 0.00159221 | 0.00153208 | 0.000467438 |
| cis-1,3-Dimethylcyclopentane | 0.124175 | 0.00156401 | * | 0.00885183 | 0.00733524 | 0.00235896 |
| 3-Ethylpentane | 0.0529836 | 0.00156401 | * | 0.00731999 | 0.00616621 | 0.00208994 |
| Cycloheptane | 0.00370848 | 3.80001E-05 | * | 0.000217637 | 0.000163094 | 0 |
| Methylcyclohexane | 0.354375 | 0.00530302 | * | 0.0247201 | 0.0222625 | 0.0058816 |
| 2,2-Dimethylhexane | 0.117789 | 0.00530302 | * | 0.0188098 | 0.0173465 | 0.00482566 |
| i-Octane | 0.138447 | 0.00530302 | * | 0.0199438 | 0.018216 | 0.00503125 |
| n-Heptane | 0.360303 | 0.01267 | * | 0.0522363 | 0.0465053 | 0.0128085 |
| Toluene | 4.55197 | 0.00827003 | * | 0.0432718 | 0.0474821 | 0.00914634 |
| trans-1,2-Dimethylcyclopentane | 0.0320196 | 0.000386501 | * | 0.00216964 | 0.00168931 | 0.000553919 |
| cis-1,2-Dimethylcyclopentane | 0.0363267 | 0.000386501 | * | 0.00212925 | 0.00165401 | 0.00053827 |
| trans-1,3-Dimethylcyclopentane | 0.21839 | 0.00259601 | * | 0.0150378 | 0.0116143 | 0.00387189 |
| 1-Ethyl-1-Methylcyclopentane | 0.0206188 | 0.000243001 | * | 0.00104764 | 0.00110625 | 0.000274219 |
| 2,2,3-Trimethylpentane | 0.0267278 | 0.000719003 | * | 0.00319896 | 0.00269211 | 0.000708754 |
| 2,3,4-Trimethylpentane | 0.0375372 | 0.000918003 | * | 0.00402023 | 0.00358692 | 0.000886604 |
| 2,5-Dimethylhexane | 0 | 0 | * | 0 | 0 | 0 |
| 2-Methylheptane | 0.0332713 | 0.0012415 | * | 0.00421601 | 0.00483852 | 0.000955577 |
| 4-Methylheptane | 0.037842 | 0.0012415 | * | 0.0043466 | 0.0049652 | 0.00096882 |
| 3,3-Dimethylhexane | 0.00835093 | 0.000253001 | * | 0.000855583 | 0.00116717 | 0.000245396 |
| 3-Methylheptane | 0.0184397 | 0.000591002 | * | 0.00210179 | 0.002436 | 0.000474631 |
| cis-1,2-Dimethylcyclohexane | 0.0671193 | 0.001342 | * | 0.0050924 | 0.00475715 | 0.00128711 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|
| cis-1,3-Dimethylcyclohexane | 0.00947902 | 0.000209001 * | 0.00085917 | 0.00102572 | 0.000154489 |
| Cyclooctane | 0.0477565 | 8.70003E-05 * | 0.000176566 | 0.000106611 | 0 |
| Ethylbenzene | 0.150724 | 0.000337001 * | 0.00138296 | 0.00194359 | 0.000276088 |
| Ethylcyclohexane | 0.0292896 | 0.000446002 * | 0.00163512 | 0.00185613 | 0.000287146 |
| m-Xylene | 0.163746 | 0.000384001 * | 0.0016428 | 0.00200998 | 0.000282884 |
| p-Xylene | 0.156543 | 0.000384001 * | 0.00165276 | 0.00202732 | 0.000286175 |
| n-Octane | 0.0491834 | 0.00161701 * | 0.00621621 | 0.00639209 | 0.00113465 |
| o-Xylene | 0.136231 | 0.000249001 * | 0.000895921 | 0.00113169 | 0.000208046 |
| trans-1,3-Dimethylcyclohexane | 0.00968871 | 0.000201001 * | 0.000950158 | 0.000888404 | 0.000186832 |
| 1,1,2-Trimethylcyclohexane | 0.00190449 | 5.30002E-05 * | 9.0687E-05 | 0.00010973 | 9.37452E-05 |
| 1,2,3-Trimethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0.0104712 | 3.80001E-05 * | 0.000142332 | 0.000166146 | 3.75414E-05 |
| tert-Butylbenzene | 0.00658396 | 3.80001E-05 * | 0.000125264 | 0.000151184 | 3.49008E-05 |
| 1,3,5-Trimethylbenzene | 0 | 0 * | 0.000584463 | 0.000173836 | 0.000114899 |
| 2,2,3-Trimethylhexane | 0.00196763 | 0.000111 * | 0.00013625 | 0.000137941 | 0 |
| 2,2,4-Trimethylhexane | 0.00461796 | 0.000270001 * | 0.000874742 | 0.000882595 | 0.000218622 |
| 2,2-Dimethylheptane | 0 | 0 * | 0.000144889 | 0.000249736 | 9.90488E-05 |
| 2,3,4-Trimethylhexane | 0.00465033 | 0.000123 * | 0.000346074 | 0.000463746 | 6.98281E-05 |
| 2,4,4-Trimethylhexane | 0 | 0 * | 0 | 0 | 0 |
| 2,5-Dimethylheptane | 0.00799999 | 0.000260001 * | 0.000771446 | 0.000981411 | 9.66624E-05 |
| Isononane | 0 | 0 * | 0 | 8.72701E-05 | 0 |
| 3,4-Dimethylheptane | 0.00210665 | 5.60002E-05 * | 0.00017438 | 0.00021428 | 0 |
| Isopropylbenzene | 0.0251884 | 9.25003E-05 * | 0 | 0.000223368 | 0 |
| 1,1,3-Trimethylcyclopentane | 0.00284955 | 9.25003E-05 * | 0 | 0.000206893 | 0 |
| Methylcyclopropane | 0 | 0 * | 0 | 0 | 0 |
| m-Ethyltoluene | 0 | 0 * | 0.000141554 | 0.000167926 | 3.27164E-05 |
| p-Ethyltoluene | 0 | 0 * | 0.00014364 | 0.000167193 | 3.20303E-05 |
| n-Nonane | 0.00554093 | 0.000190001 * | 0.000461388 | 0.00057807 | 0.000128666 |
| Propylbenzene | 0.0191108 | 7.10003E-05 * | 0.000364746 | 0.000231911 | 6.25422E-05 |
| Propylcyclohexane | 0.00309182 | 5.30002E-05 * | 0.000187351 | 0 | 3.85977E-05 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,3-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,4-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 2-Methylnonane | 0 | 0 * | 0 | 0 | 0 |
| 3-Ethyloctane | 0 | 0 * | 0 | 0 | 0 |
| 3-Methylnonane | 0 | 0 * | 0 | 0 | 0 |
| 4-Methylnonane | 0 | 0 * | 0 | 0 | 3.80537E-05 |
| Butylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Butylcyclohexane | 0 | 0 * | 0 | 0 | 0 |
| Isobutylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Naphthalene | 0 | 0 * | 9.08798E-05 | 3.43189E-07 | 2.65612E-05 |
| n-Decane | 0 | 0 * | 7.20505E-05 | 0 | 4.91624E-05 |
| sec-Butylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Undecane | 0.000671967 | 4.40002E-05 * | 6.16928E-05 | 8.20639E-05 | 3.84498E-05 |
| Pentylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Dodecane | 0.000474143 | 5.10002E-05 * | 7.49898E-05 | 0 | 0 |
| n-Tridecane | 0.000495837 | 7.80003E-05 * | 5.53737E-05 | 4.3508E-05 | 2.91435E-05 |
| n-Tetradecane | 0.000344589 | 9.80003E-05 * | 4.62375E-05 | 0 | 1.57374E-05 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|---|
| n-Pentadecane | 0.000134128 | 6.50002E-05 | * | 0 | 0 | 0 |
| H2O | 13.1322 | 0 | * | 0.868583 | 0.606656 | 0.257781 |
| MDEA | 0.00830991 | 0 | * | 4.46582E-06 | 1.95564E-05 | 1.28547E-06 |
| Piperazine | 6.65737E-09 | 0 | * | 0 | 4.03627E-06 | 0 |
| TEG | 5.93171E-11 | 0 | * | 0.000358336 | 0.000317104 | 0.00011858 |

| Mass Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|---|
| Helium | 1.95319E-05 | 0.00252859 | * | 0.000819531 | 0.00081434 | 0.000614516 |
| N2 | 0.00662582 | 2.321 | * | 0.377758 | 0.744177 | 0.281104 |
| CO2 | 16.4499 | 7.52826 | * | 0.120074 | 0.0296834 | 12.3095 |
| O2 | 1.47163E-05 | 0.00509007 | * | 0.00160723 | 0.0229349 | 0.00106034 |
| Argon | 0.000635813 | 0.00635455 | * | 0.0112127 | 0.162921 | 0.00710755 |
| H2S | 0.00288823 | 0.000154893 | * | 0 | 0 | 0.0162098 |
| C1 | 2.04875 | 54.3084 | * | 31.2713 | 31.2071 | 26.6458 |
| C2 | 5.05223 | 15.3335 | * | 21.503 | 20.6277 | 21.3782 |
| C3 | 9.34579 | 10.685 | * | 20.6287 | 20.6667 | 20.5767 |
| iC4 | 2.30712 | 1.86231 | * | 3.79847 | 4.03757 | 3.58881 |
| nC4 | 9.43271 | 4.17053 | * | 10.615 | 10.9591 | 9.17435 |
| iC5 | 4.09009 | 1.16046 | * | 2.94664 | 3.28559 | 2.0509 |
| nC5 | 5.43379 | 1.18407 | * | 3.31691 | 3.36217 | 2.07335 |
| Neo-Pentane | 0 | 0 | * | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0.074782 | 0.0141623 | * | 0.0377954 | 0.0396671 | 0.0200802 |
| 2,3-Dimethylbutane | 0.271032 | 0.0359031 | * | 0.104614 | 0.0996986 | 0.0494079 |
| Cyclopentane | 0.811918 | 0.0292194 | * | 0.130151 | 0.11997 | 0.0529477 |
| i-Hexane | 1.79842 | 0.273646 | * | 0.778075 | 0.777846 | 0.379552 |
| 3-Methylpentane | 1.10178 | 0.130637 | * | 0.405395 | 0.409899 | 0.179401 |
| Benzene | 12.2027 | 0.0620058 | * | 0.284542 | 0.227045 | 0.0828952 |
| Cyclohexane | 4.02319 | 0.130541 | * | 0.511814 | 0.444638 | 0.155423 |
| Methylcyclopentane | 3.66398 | 0.120792 | * | 0.542979 | 0.468828 | 0.183678 |
| C6 | 2.38499 | 0.280606 | * | 0.860441 | 0.795173 | 0.34914 |
| 1,1-Dimethylcyclopentane | 0.63752 | 0.0194272 | * | 0.0810515 | 0.0712401 | 0.0197503 |
| 3-Methylhexane | 0.240496 | 0.0198261 | * | 0.0656068 | 0.0588301 | 0.0173369 |
| 2,2-Dimethylpentane | 0.0210956 | 0.00291915 | * | 0.00973727 | 0.00811745 | 0.00316554 |
| 2,3-Dimethylpentane | 0.117896 | 0.00859349 | * | 0.026762 | 0.0296996 | 0.00779928 |
| 2,4-Dimethylhexane | 0.0314965 | 0.00279824 | * | 0.0080993 | 0.0078711 | 0.00177752 |
| Ethylcyclopentane | 0.098361 | 0.00240525 | * | 0.00935508 | 0.0088619 | 0.00187627 |
| 2,4-Dimethylpentane | 0.00473693 | 0.000655783 | * | 0.00201942 | 0.00178623 | 0.000650785 |
| i-Heptane | 0.297782 | 0.031423 | * | 0.0989968 | 0.0893223 | 0.0272991 |
| 3,3-Dimethylpentane | 0.0213487 | 0.00165312 | * | 0.00569541 | 0.00545754 | 0.00160876 |
| cis-1,3-Dimethylcyclopentane | 0.237684 | 0.00697924 | * | 0.0310264 | 0.0256037 | 0.00795539 |
| 3-Ethylpentane | 0.103498 | 0.00712254 | * | 0.026184 | 0.0219651 | 0.00719283 |
| Cycloheptane | 0.00709843 | 0.000169572 | * | 0.000762835 | 0.000569279 | 0 |
| Methylcyclohexane | 0.678311 | 0.0236643 | * | 0.0866459 | 0.0777072 | 0.0198352 |
| 2,2-Dimethylhexane | 0.262298 | 0.0275307 | * | 0.0767022 | 0.0704408 | 0.0189331 |
| i-Octane | 0.308301 | 0.0275307 | * | 0.0813264 | 0.0739719 | 0.0197397 |
| n-Heptane | 0.703817 | 0.0576998 | * | 0.186852 | 0.16566 | 0.0440822 |
| Toluene | 8.17629 | 0.0346312 | * | 0.142329 | 0.155528 | 0.0289453 |
| trans-1,2-Dimethylcyclopentane | 0.061289 | 0.00172473 | * | 0.00760477 | 0.00589655 | 0.00186804 |
| cis-1,2-Dimethylcyclopentane | 0.0695331 | 0.00172473 | * | 0.00746321 | 0.00577332 | 0.00181527 |
| trans-1,3-Dimethylcyclopentane | 0.418021 | 0.0115845 | * | 0.0527087 | 0.0405399 | 0.0130576 |
| 1-Ethyl-1-Methylcyclopentane | 0.0451046 | 0.00123928 | * | 0.00419663 | 0.00441299 | 0.00105689 |
| 2,2,3-Trimethylpentane | 0.0595187 | 0.00373272 | * | 0.0130446 | 0.0109322 | 0.00278074 |
| 2,3,4-Trimethylpentane | 0.0835895 | 0.00476583 | * | 0.0163936 | 0.0145658 | 0.00347852 |
| 2,5-Dimethylhexane | 0 | 0 | * | 0 | 0 | 0 |
| 2-Methylheptane | 0.0740901 | 0.0064453 | * | 0.0171919 | 0.0196483 | 0.00374913 |
| 4-Methylheptane | 0.0842685 | 0.0064453 | * | 0.0177245 | 0.0201628 | 0.00380109 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|---|
| 3,3-Dimethylhexane | 0.0185963 | 0.00131346 | * | 0.00348887 | 0.00473967 | 0.000962791 |
| 3-Methylheptane | 0.0410623 | 0.0030682 | * | 0.00857062 | 0.00989213 | 0.00186218 |
| cis-1,2-Dimethylcyclohexane | 0.146827 | 0.0068441 | * | 0.0203992 | 0.018977 | 0.00496073 |
| cis-1,3-Dimethylcyclohexane | 0.0207358 | 0.00106588 | * | 0.00344167 | 0.00409175 | 0.000595429 |
| Cyclooctane | 0.10447 | 0.000443693 | * | 0.000707291 | 0.000425286 | 0 |
| Ethylbenzene | 0.311947 | 0.00162605 | * | 0.00524129 | 0.00733541 | 0.00100674 |
| Ethylcyclohexane | 0.0640724 | 0.00227457 | * | 0.00654998 | 0.00740437 | 0.00110671 |
| m-Xylene | 0.338897 | 0.00185282 | * | 0.00622606 | 0.00758599 | 0.00103153 |
| p-Xylene | 0.32399 | 0.00185282 | * | 0.00626381 | 0.00765143 | 0.00104353 |
| n-Octane | 0.109524 | 0.00839472 | * | 0.0253483 | 0.0259571 | 0.0044517 |
| o-Xylene | 0.281951 | 0.00120144 | * | 0.00339546 | 0.00427117 | 0.000758631 |
| trans-1,3-Dimethylcyclohexane | 0.0211945 | 0.00102508 | * | 0.00380615 | 0.00354397 | 0.000720083 |
| 1,1,2-Trimethylcyclohexane | 0.00468694 | 0.000304083 | * | 0.000408684 | 0.000492445 | 0.000406474 |
| 1,2,3-Trimethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0.0245351 | 0.000207577 | * | 0.000610696 | 0.00070991 | 0.00015498 |
| tert-Butylbenzene | 0.0172272 | 0.000231802 | * | 0.000600186 | 0.000721364 | 0.000160893 |
| 1,3,5-Trimethylbenzene | 0 | 0 | * | 0.00250772 | 0.000742767 | 0.000474328 |
| 2,2,3-Trimethylhexane | 0.00491964 | 0.000647022 | * | 0.000623822 | 0.000628935 | 0 |
| 2,2,4-Trimethylhexane | 0.0115462 | 0.00157384 | * | 0.004005 | 0.00402415 | 0.00096307 |
| 2,2-Dimethylheptane | 0 | 0 | * | 0.000663376 | 0.00113866 | 0.000436329 |
| 2,3,4-Trimethylhexane | 0.0116272 | 0.000716971 | * | 0.0015845 | 0.00211443 | 0.000307606 |
| 2,4,4-Trimethylhexane | 0 | 0 | * | 0 | 0 | 0 |
| 2,5-Dimethylheptane | 0.0200023 | 0.00151555 | * | 0.00353206 | 0.0044747 | 0.000425816 |
| Isononane | 0 | 0 | * | 0 | 0.000397904 | 0 |
| 3,4-Dimethylheptane | 0.00526723 | 0.000326426 | * | 0.000798401 | 0.000976999 | 0 |
| Isopropylbenzene | 0.0590189 | 0.000505286 | * | 0 | 0.000954408 | 0 |
| 1,1,3-Trimethylcyclopentane | 0.00623353 | 0.000471743 | * | 0 | 0.000825327 | 0 |
| Methylcyclopropane | 0 | 0 | * | 0 | 0 | 0 |
| m-Ethyltoluene | 0 | 0 | * | 0.000607358 | 0.000717514 | 0.000135061 |
| p-Ethyltoluene | 0 | 0 | * | 0.000616308 | 0.000714383 | 0.000132228 |
| n-Nonane | 0.013854 | 0.00110752 | * | 0.00211246 | 0.00263568 | 0.000566799 |
| Propylbenzene | 0.0447784 | 0.000387841 | * | 0.00156499 | 0.00099091 | 0.000258189 |
| Propylcyclohexane | 0.00760895 | 0.000304083 | * | 0.000844302 | 0 | 0.000167358 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,2-Diethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,3-Diethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,4-Diethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 2-Methylnonane | 0 | 0 | * | 0 | 0 | 0 |
| 3-Ethyloctane | 0 | 0 | * | 0 | 0 | 0 |
| 3-Methylnonane | 0 | 0 | * | 0 | 0 | 0 |
| 4-Methylnonane | 0 | 0 | * | 0 | 0 | 0.000185967 |
| Butylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| Butylcyclohexane | 0 | 0 | * | 0 | 0 | 0 |
| Isobutylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| Naphthalene | 0 | 0 | * | 0.000415819 | 1.56372E-06 | 0.00011693 |
| n-Decane | 0 | 0 | * | 0.000365961 | 0 | 0.000240255 |
| sec-Butylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| Undecane | 0.0020476 | 0.000312577 | * | 0.000344243 | 0.000456008 | 0.000206427 |
| Pentylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| Dodecane | 0.00157445 | 0.000394817 | * | 0.000455989 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|---|
| n-Tridecane | 0.00178207 | 0.000653561 | * | 0.000364436 | 0.000285153 | 0.000184545 |
| n-Tetradecane | 0.0013327 | 0.000883615 | * | 0.00032746 | 0 | 0.000107235 |
| n-Pentadecane | 0.000555418 | 0.000627508 | * | 0 | 0 | 0 |
| H2O | 4.61207 | 0 | * | 0.558599 | 0.388527 | 0.159508 |
| MDEA | 0.0193042 | 0 | * | 1.89971E-05 | 8.28448E-05 | 5.26127E-06 |
| Piperazine | 1.1179E-08 | 0 | * | 0 | 1.23595E-05 | 0 |
| TEG | 1.73655E-10 | 0 | * | 0.00192101 | 0.0016929 | 0.000611635 |

| Mass Flow | RH6 BTEX to RH5 TO lb/h | RH6 Dehy Inlet lb/h | | 30 lb/h | 62 lb/h | 96 lb/h |
|---|---|---|---|---|---|---|
| Helium | 6.02143E-05 | 12.7983 | * | 0.00167591 | 0.00231147 | 0.000467968 |
| N2 | 0.0204266 | 11747.6 | * | 0.772499 | 2.11231 | 0.214067 |
| CO2 | 50.713 | 38103.9 | * | 0.245547 | 0.084255 | 9.37399 |
| O2 | 4.53686E-05 | 25.7631 | * | 0.00328671 | 0.0650996 | 0.000807472 |
| Argon | 0.00196013 | 32.1632 | * | 0.0229295 | 0.462444 | 0.00541256 |
| H2S | 0.00890405 | 0.783984 | * | 0 | 0 | 0.0123442 |
| C1 | 6.31604 | 274879 | * | 63.9484 | 88.58 | 20.2914 |
| C2 | 15.5754 | 77609.8 | * | 43.9727 | 58.5508 | 16.28 |
| C3 | 28.8119 | 54081.6 | * | 42.1847 | 58.6615 | 15.6696 |
| iC4 | 7.11258 | 9426.01 | * | 7.76771 | 11.4604 | 2.73297 |
| nC4 | 29.0799 | 21108.9 | * | 21.7071 | 31.1069 | 6.98648 |
| iC5 | 12.6093 | 5873.62 | * | 6.02574 | 9.326 | 1.56181 |
| nC5 | 16.7517 | 5993.12 | * | 6.78294 | 9.54338 | 1.57891 |
| Neo-Pentane | 0 | 0 | * | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0.230544 | 71.6817 | * | 0.0772901 | 0.112593 | 0.0152915 |
| 2,3-Dimethylbutane | 0.835559 | 181.722 | * | 0.213931 | 0.28299 | 0.0376253 |
| Cyclopentane | 2.50304 | 147.892 | * | 0.266152 | 0.340531 | 0.0403209 |
| i-Hexane | 5.54429 | 1385.05 | * | 1.59113 | 2.20788 | 0.289038 |
| 3-Methylpentane | 3.39666 | 661.212 | * | 0.829015 | 1.16348 | 0.136618 |
| Benzene | 37.6193 | 313.839 | * | 0.581877 | 0.644457 | 0.0631266 |
| Cyclohexane | 12.403 | 660.729 | * | 1.04664 | 1.26209 | 0.118358 |
| Methylcyclopentane | 11.2956 | 611.381 | * | 1.11037 | 1.33075 | 0.139875 |
| C6 | 7.35263 | 1420.27 | * | 1.75956 | 2.25706 | 0.265879 |
| 1,1-Dimethylcyclopentane | 1.9654 | 98.3298 | * | 0.165747 | 0.202212 | 0.0150403 |
| 3-Methylhexane | 0.741421 | 100.349 | * | 0.134163 | 0.166986 | 0.0132025 |
| 2,2-Dimethylpentane | 0.065035 | 14.7751 | * | 0.0199123 | 0.023041 | 0.00241063 |
| 2,3-Dimethylpentane | 0.363458 | 43.4955 | * | 0.0547271 | 0.084301 | 0.00593933 |
| 2,4-Dimethylhexane | 0.0970998 | 14.1632 | * | 0.0165627 | 0.0223418 | 0.00135362 |
| Ethylcyclopentane | 0.303235 | 12.1741 | * | 0.0191307 | 0.0251541 | 0.00142882 |
| 2,4-Dimethylpentane | 0.0146034 | 3.31921 | * | 0.00412962 | 0.00507014 | 0.000495588 |
| i-Heptane | 0.918024 | 159.046 | * | 0.202444 | 0.253538 | 0.0207889 |
| 3,3-Dimethylpentane | 0.0658154 | 8.36719 | * | 0.0116469 | 0.015491 | 0.0012251 |
| cis-1,3-Dimethylcyclopentane | 0.73275 | 35.3251 | * | 0.0634476 | 0.0726749 | 0.00605822 |
| 3-Ethylpentane | 0.319073 | 36.0504 | * | 0.0535451 | 0.0623469 | 0.00547751 |
| Cycloheptane | 0.0218836 | 0.858282 | * | 0.00155996 | 0.00161587 | 0 |
| Methylcyclohexane | 2.09115 | 119.776 | * | 0.177187 | 0.220568 | 0.0151049 |
| 2,2-Dimethylhexane | 0.808632 | 139.345 | * | 0.156853 | 0.199943 | 0.014418 |
| i-Octane | 0.950454 | 139.345 | * | 0.166309 | 0.209966 | 0.0150323 |
| n-Heptane | 2.16978 | 292.045 | * | 0.382103 | 0.470218 | 0.0335696 |
| Toluene | 25.2065 | 175.284 | * | 0.291057 | 0.44146 | 0.0220425 |
| trans-1,2-Dimethylcyclopentane | 0.188946 | 8.72963 | * | 0.0155514 | 0.0167371 | 0.00142256 |
| cis-1,2-Dimethylcyclopentane | 0.214362 | 8.72963 | * | 0.0152619 | 0.0163873 | 0.00138237 |
| trans-1,3-Dimethylcyclopentane | 1.28871 | 58.6342 | * | 0.107787 | 0.115071 | 0.00994366 |
| 1-Ethyl-1-Methylcyclopentane | 0.139052 | 6.27256 | * | 0.00858194 | 0.0125261 | 0.000804846 |
| 2,2,3-Trimethylpentane | 0.183489 | 18.893 | * | 0.0266757 | 0.0310304 | 0.0021176 |
| 2,3,4-Trimethylpentane | 0.257696 | 24.122 | * | 0.0335242 | 0.0413444 | 0.00264897 |
| 2,5-Dimethylhexane | 0 | 0 | * | 0 | 0 | 0 |
| 2-Methylheptane | 0.228411 | 32.6226 | * | 0.0351568 | 0.0557708 | 0.00285505 |
| 4-Methylheptane | 0.259789 | 32.6226 | * | 0.0362457 | 0.0572311 | 0.00289462 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Flow | RH6 BTEX to RH5 TO lb/h | RH6 Dehy Inlet lb/h | 30 lb/h | 62 lb/h | 96 lb/h |
|---|---|---|---|---|---|
| 3,3-Dimethylhexane | 0.05733 | 6.64801 * | 0.00713459 | 0.0134533 | 0.000733188 |
| 3-Methylheptane | 0.12659 | 15.5295 * | 0.0175265 | 0.0280784 | 0.00141809 |
| cis-1,2-Dimethylcyclohexane | 0.452649 | 34.641 * | 0.0417154 | 0.0538653 | 0.00377772 |
| cis-1,3-Dimethylcyclohexane | 0.063926 | 5.39492 * | 0.00703807 | 0.0116142 | 0.000453433 |
| Cyclooctane | 0.322067 | 2.24573 * | 0.00144638 | 0.00120716 | 0 |
| Ethylbenzene | 0.961694 | 8.23015 * | 0.0107182 | 0.0208212 | 0.000766658 |
| Ethylcyclohexane | 0.197527 | 11.5126 * | 0.0133944 | 0.021017 | 0.000842786 |
| m-Xylene | 1.04478 | 9.37798 * | 0.012732 | 0.0215325 | 0.000785532 |
| p-Xylene | 0.998822 | 9.37798 * | 0.0128092 | 0.0217182 | 0.00079467 |
| n-Octane | 0.337649 | 42.4895 * | 0.0518362 | 0.073678 | 0.00339008 |
| o-Xylene | 0.869219 | 6.08103 * | 0.00694358 | 0.0121235 | 0.000577715 |
| trans-1,3-Dimethylcyclohexane | 0.0653401 | 5.18841 * | 0.00778341 | 0.0100594 | 0.00054836 |
| 1,1,2-Trimethylcyclohexane | 0.0144493 | 1.5391 * | 0.000835741 | 0.00139778 | 0.00030954 |
| 1,2,3-Trimethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0.0756386 | 1.05064 * | 0.00124885 | 0.00201505 | 0.000118021 |
| tert-Butylbenzene | 0.0531094 | 1.17325 * | 0.00122735 | 0.00204756 | 0.000122524 |
| 1,3,5-Trimethylbenzene | 0 | 0 * | 0.00512819 | 0.00210831 | 0.000361212 |
| 2,2,3-Trimethylhexane | 0.0151666 | 3.27487 * | 0.00127569 | 0.0017852 | 0 |
| 2,2,4-Trimethylhexane | 0.0355956 | 7.9659 * | 0.00819006 | 0.0114224 | 0.0007334 |
| 2,2-Dimethylheptane | 0 | 0 * | 0.00135658 | 0.00323204 | 0.000332275 |
| 2,3,4-Trimethylhexane | 0.0358452 | 3.62891 * | 0.00324023 | 0.00600171 | 0.000234249 |
| 2,4,4-Trimethylhexane | 0 | 0 * | 0 | 0 | 0 |
| 2,5-Dimethylheptane | 0.0616647 | 7.67087 * | 0.00722292 | 0.0127012 | 0.000324269 |
| Isononane | 0 | 0 * | 0 | 0.00112943 | 0 |
| 3,4-Dimethylheptane | 0.0162382 | 1.65219 * | 0.0016327 | 0.00277317 | 0 |
| Isopropylbenzene | 0.181948 | 2.55748 * | 0 | 0.00270904 | 0 |
| 1,1,3-Trimethylcyclopentane | 0.0192172 | 2.3877 * | 0 | 0.00234266 | 0 |
| Methylcyclopropane | 0 | 0 * | 0 | 0 | 0 |
| m-Ethyltoluene | 0 | 0 * | 0.00124202 | 0.00203663 | 0.000102852 |
| p-Ethyltoluene | 0 | 0 * | 0.00126032 | 0.00202774 | 0.000100695 |
| n-Nonane | 0.04271 | 5.60564 * | 0.0043199 | 0.00748127 | 0.000431631 |
| Propylbenzene | 0.138046 | 1.96304 * | 0.00320034 | 0.00281265 | 0.000196617 |
| Propylcyclohexane | 0.0234575 | 1.5391 * | 0.00172656 | 0 | 0.000127447 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,3-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,4-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 2-Methylnonane | 0 | 0 * | 0 | 0 | 0 |
| 3-Ethyloctane | 0 | 0 * | 0 | 0 | 0 |
| 3-Methylnonane | 0 | 0 * | 0 | 0 | 0 |
| 4-Methylnonane | 0 | 0 * | 0 | 0 | 0.000141618 |
| Butylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Butylcyclohexane | 0 | 0 * | 0 | 0 | 0 |
| Isobutylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Naphthalene | 0 | 0 * | 0.000850331 | 4.43856E-06 | 8.90448E-05 |
| n-Decane | 0 | 0 * | 0.000748374 | 0 | 0.00018296 |
| sec-Butylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Undecane | 0.00631251 | 1.58209 * | 0.000703962 | 0.00129436 | 0.000157199 |
| Pentylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Dodecane | 0.00485384 | 1.99834 * | 0.000932478 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Flow | RH6 BTEX to RH5 TO lb/h | RH6 Dehy Inlet lb/h | 30 lb/h | 62 lb/h | 96 lb/h |
|---|---|---|---|---|---|
| n-Tridecane | 0.00549391 | 3.30797 * | 0.000745257 | 0.000809394 | 0.000140535 |
| n-Tetradecane | 0.00410855 | 4.47237 * | 0.000669641 | 0 | 8.16621E-05 |
| n-Pentadecane | 0.00171228 | 3.1761 * | 0 | 0 | 0 |
| H2O | 14.2184 | 0 * | 1.14231 | 1.10282 | 0.121469 |
| MDEA | 0.0595124 | 0 * | 3.88484E-05 | 0.000235151 | 4.00658E-06 |
| Piperazine | 3.44633E-08 | 0 * | 0 | 3.50819E-05 | 0 |
| TEG | 5.35357E-10 | 0 * | 0.00392839 | 0.00480522 | 0.000465774 |

## Stream Properties

| Property | Units | RH6 BTEX to RH5 TO | RH6 Dehy Inlet | 30 | 62 | 96 |
|---|---|---|---|---|---|---|
| Temperature | °F | 120 | 120 * | 142.057 | 137.874 | 124.974 |
| Pressure | psig | 0 | 875 * | 60 | 60 | 110 |
| Molecular Weight | lb/lbmol | 51.296 | 22.0029 | 28.0125 | 28.1295 | 29.1145 |
| Mass Density | lb/ft^3 | 0.107848 | 3.71668 | 0.323779 | 0.327581 | 0.594869 |
| Mass Flow | lb/h | 308.288 | 506145 | 204.496 | 283.846 | 76.1523 |
| Std Vapor Volumetric Flow | MMSCFD | 0.0547367 | 209.508 | 0.0664873 | 0.0919024 | 0.0238221 |
| Std Liquid Volumetric Flow | sgpm | 0.931859 | 2767.82 | 1.01459 | 1.40187 | 0.35951 |
| Specific Gravity | | 1.77112 | 0.759703 | 0.967199 | 0.971238 | 1.00525 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 2184.65 | 1205.12 | 1633.11 | 1634.81 | 1499.17 |

**Remarks**


ProMax 6.0.24240.0
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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Connections

| | 132 | 158 | 232 | | |
|---|---|---|---|---|---|
| From Block | VLVE-113 | VLVE-120 | VLVE-125 | | |
| To Block | -- | -- | -- | | |

## Stream Composition

| Mole Fraction | 132 % | 158 % | 232 % | | |
|---|---|---|---|---|---|
| Helium | 0.00608101 | 0.00689276 | 0.00457793 | | |
| N2 | 0.358035 | 0.55514 | 0.340281 | | |
| CO2 | 0.165522 | 0.0641571 | 14.4257 | | |
| O2 | 0.00104359 | 0.00323147 | 0.000643923 | | |
| Argon | 0.00599429 | 0.0180025 | 0.00373136 | | |
| H2S | 0 | 0 | 0.000689704 | | |
| C1 | 46.1858 | 55.572 | 46.7685 | | |
| C2 | 21.7908 | 20.0592 | 17.4122 | | |
| C3 | 17.4284 | 12.8324 | 11.3743 | | |
| iC4 | 2.46932 | 1.74294 | 1.56621 | | |
| nC4 | 6.88181 | 4.78345 | 4.33497 | | |
| iC5 | 1.40064 | 1.05422 | 0.971175 | | |
| nC5 | 1.5131 | 1.17179 | 1.0842 | | |
| Neo-Pentane | 0 | 0 | 0 | | |
| 2,2-Dimethylbutane | 0.0112389 | 0.0100349 | 0.0102216 | | |
| 2,3-Dimethylbutane | 0.0344609 | 0.0295729 | 0.027699 | | |
| Cyclopentane | 0.0527463 | 0.0449595 | 0.0414615 | | |
| i-Hexane | 0.234679 | 0.216071 | 0.201206 | | |
| 3-Methylpentane | 0.114839 | 0.109665 | 0.101463 | | |
| Benzene | 0.0933019 | 0.0857046 | 0.0873656 | | |
| Cyclohexane | 0.128409 | 0.138521 | 0.131601 | | |
| Methylcyclopentane | 0.13741 | 0.139974 | 0.129765 | | |
| C6 | 0.227473 | 0.231123 | 0.212869 | | |
| 1,1-Dimethylcyclopentane | 0.0129127 | 0.0178775 | 0.0159697 | | |
| 3-Methylhexane | 0.0102483 | 0.0142219 | 0.0128382 | | |
| 2,2-Dimethylpentane | 0.00161185 | 0.00220318 | 0.00176611 | | |
| 2,3-Dimethylpentane | 0.00517255 | 0.00646167 | 0.00576104 | | |
| 2,4-Dimethylhexane | 0.000945101 | 0.00158993 | 0.00142123 | | |
| Ethylcyclopentane | 0.00127132 | 0.00212713 | 0.00187305 | | |
| 2,4-Dimethylpentane | 0.000431501 | 0.000508598 | 0.000395483 | | |
| i-Heptane | 0.0157553 | 0.021445 | 0.0193878 | | |
| 3,3-Dimethylpentane | 0.000864754 | 0.00112614 | 0.00111218 | | |
| cis-1,3-Dimethylcyclopentane | 0.004734 | 0.00646817 | 0.00567542 | | |
| 3-Ethylpentane | 0.00392323 | 0.00536024 | 0.00474641 | | |
| Cycloheptane | 6.97094E-05 | 0.000145921 | 0.000128528 | | |
| Methylcyclohexane | 0.0127969 | 0.019095 | 0.0176708 | | |
| 2,2-Dimethylhexane | 0.00967813 | 0.0146019 | 0.0136508 | | |
| i-Octane | 0.0102501 | 0.0154539 | 0.014344 | | |
| n-Heptane | 0.0265169 | 0.0404624 | 0.0362183 | | |
| Toluene | 0.0262558 | 0.0355515 | 0.0347822 | | |
| trans-1,2-Dimethylcyclopentane | 0.0011728 | 0.00152825 | 0.00140654 | | |
| cis-1,2-Dimethylcyclopentane | 0.00114507 | 0.00150052 | 0.00137779 | | |
| trans-1,3-Dimethylcyclopentane | 0.00801877 | 0.0105194 | 0.00947214 | | |
| 1-Ethyl-1-Methylcyclopentane | 0.000414471 | 0.000875122 | 0.000730966 | | |
| 2,2,3-Trimethylpentane | 0.00128739 | 0.00231284 | 0.00202418 | | |
| 2,3,4-Trimethylpentane | 0.00166222 | 0.00301116 | 0.00258422 | | |
| 2,5-Dimethylhexane | 0 | 0 | 0 | | |
| 2-Methylheptane | 0.00182169 | 0.00375482 | 0.00316419 | | |
| 4-Methylheptane | 0.00187245 | 0.00387004 | 0.0032482 | | |
| 3,3-Dimethylhexane | 0.000441235 | 0.000880904 | 0.000689287 | | |
| 3-Methylheptane | 0.00084011 | 0.00192626 | 0.00154227 | | |
| cis-1,2-Dimethylcyclohexane | 0.00190056 | 0.0040571 | 0.00348317 | | |
| cis-1,3-Dimethylcyclohexane | 0.000234869 | 0.000727771 | 0.000557331 | | |
| Cyclooctane | 0 | 0.000368888 | 0.000226301 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | 132 % | 158 % | 232 % | | |
|---|---|---|---|---|---|
| Ethylbenzene | 0.000556651 | 0.00127785 | 0.00118515 | | |
| Ethylcyclohexane | 0.00050812 | 0.00143632 | 0.00119357 | | |
| m-Xylene | 0.000597033 | 0.00138026 | 0.0012648 | | |
| p-Xylene | 0.000601719 | 0.00138853 | 0.00127755 | | |
| n-Octane | 0.0019689 | 0.00509375 | 0.00407384 | | |
| o-Xylene | 0.000376696 | 0.00078609 | 0.000795582 | | |
| trans-1,3-Dimethylcyclohexane | 0.000337114 | 0.000779724 | 0.000530956 | | |
| 1,1,2-Trimethylcyclohexane | 7.84048E-05 | 0.000107981 | 0.00012353 | | |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 | | |
| 1,2,4-Trimethylbenzene | 0 | 9.96742E-05 | 0.000103959 | | |
| tert-Butylbenzene | 0 | 8.79659E-05 | 9.61631E-05 | | |
| 1,3,5-Trimethylbenzene | 0 | 0.00016045 | 0 | | |
| 2,2,3-Trimethylhexane | 0 | 0.000118047 | 0.00023532 | | |
| 2,2,4-Trimethylhexane | 0.000310321 | 0.000683328 | 0.000581729 | | |
| 2,2-Dimethylheptane | 0 | 0.000161646 | 0 | | |
| 2,3,4-Trimethylhexane | 9.31729E-05 | 0.000302796 | 0.00028974 | | |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 | | |
| 2,5-Dimethylheptane | 0.00014013 | 0.000574102 | 0.000597292 | | |
| Isononane | 0 | 0 | 0 | | |
| 3,4-Dimethylheptane | 0 | 0.000149205 | 0.00013074 | | |
| Isopropylbenzene | 0 | 0.000328336 | 0.000268583 | | |
| 1,1,3-Trimethylcyclopentane | 0 | 0.000280327 | 0.000253469 | | |
| Methylcyclopropane | 0 | 0 | 0 | | |
| m-Ethyltoluene | 0 | 8.89241E-05 | 0 | | |
| p-Ethyltoluene | 0 | 9.01856E-05 | 0 | | |
| n-Nonane | 0 | 0.000452727 | 0.000405569 | | |
| Propylbenzene | 0.000106972 | 0.0003618 | 0.000198329 | | |
| Propylcyclohexane | 3.96019E-05 | 0 | 0.000128108 | | |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2-Diethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 | 0 | | |
| 1,3-Diethylbenzene | 0 | 0 | 0 | | |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 | 0 | | |
| 1,4-Diethylbenzene | 0 | 0 | 0 | | |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Propylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-4-isopropylbenzene | 0 | 0 | 0 | | |
| 2-Methylnonane | 0 | 0 | 0 | | |
| 3-Ethyloctane | 0 | 0 | 0 | | |
| 3-Methylnonane | 0 | 0 | 0 | | |
| 4-Methylnonane | 0 | 0 | 0 | | |
| Butylbenzene | 0 | 0 | 0 | | |
| Butylcyclohexane | 0 | 0 | 0 | | |
| Isobutylbenzene | 0 | 0 | 0 | | |
| Naphthalene | 0 | 0.00011251 | 0 | | |
| n-Decane | 0 | 0 | 0 | | |
| sec-Butylbenzene | 0 | 0 | 0 | | |
| Undecane | 0 | 7.28161E-05 | 6.80905E-05 | | |
| Pentylbenzene | 0 | 0 | 0 | | |
| Dodecane | 0 | 8.76819E-05 | 6.06993E-05 | | |
| n-Tridecane | 3.46594E-05 | 0.000132498 | 7.88372E-05 | | |
| n-Tetradecane | 2.34383E-05 | 0 | 7.34581E-05 | | |
| n-Pentadecane | 0 | 0 | 4.20215E-05 | | |
| H2O | 0.588603 | 0.873978 | 0.53644 | | |
| MDEA | 1.50168E-05 | 2.95052E-05 | 1.14598E-05 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | 132 % | 158 % | 232 % | | |
|---|---|---|---|---|---|
| Piperazine | 4.13887E-06 | 9.27139E-06 | 2.79785E-06 | | |
| TEG | 0.000312495 | 0.000356201 | 0.000302828 | | |

| Mass Fraction | 132 % | 158 % | 232 % | | |
|---|---|---|---|---|---|
| Helium | 0.000797782 | 0.00100453 | 0.000605899 | | |
| N2 | 0.328743 | 0.566231 | 0.315205 | | |
| CO2 | 0.238763 | 0.102806 | 20.9929 | | |
| O2 | 0.00109454 | 0.00376495 | 0.000681328 | | |
| Argon | 0.00784872 | 0.0261851 | 0.00492892 | | |
| H2S | 0 | 0 | 0.000777253 | | |
| C1 | 24.2854 | 32.4603 | 24.8092 | | |
| C2 | 21.4762 | 21.9613 | 17.3126 | | |
| C3 | 25.1894 | 20.6029 | 16.5848 | | |
| iC4 | 4.7042 | 3.6885 | 3.0101 | | |
| nC4 | 13.1102 | 10.123 | 8.33138 | | |
| iC5 | 3.31225 | 2.7694 | 2.31694 | | |
| nC5 | 3.57818 | 3.07826 | 2.58659 | | |
| Neo-Pentane | 0 | 0 | 0 | | |
| 2,2-Dimethylbutane | 0.0317447 | 0.0314863 | 0.0291268 | | |
| 2,3-Dimethylbutane | 0.0973365 | 0.0927902 | 0.078929 | | |
| Cyclopentane | 0.121249 | 0.114807 | 0.0961514 | | |
| i-Hexane | 0.662862 | 0.677963 | 0.573341 | | |
| 3-Methylpentane | 0.324368 | 0.344095 | 0.289122 | | |
| Benzene | 0.238877 | 0.243751 | 0.225656 | | |
| Cyclohexane | 0.354213 | 0.424466 | 0.366229 | | |
| Methylcyclopentane | 0.379043 | 0.428921 | 0.361119 | | |
| C6 | 0.64251 | 0.725191 | 0.606576 | | |
| 1,1-Dimethylcyclopentane | 0.0415558 | 0.0639122 | 0.0518483 | | |
| 3-Methylhexane | 0.0336584 | 0.0518871 | 0.0425371 | | |
| 2,2-Dimethylpentane | 0.00529378 | 0.00803808 | 0.00585172 | | |
| 2,3-Dimethylpentane | 0.0169882 | 0.0235747 | 0.0190882 | | |
| 2,4-Dimethylhexane | 0.0035385 | 0.00661267 | 0.00536817 | | |
| Ethylcyclopentane | 0.00409138 | 0.00760448 | 0.00608117 | | |
| 2,4-Dimethylpentane | 0.00141718 | 0.00185557 | 0.00131037 | | |
| i-Heptane | 0.0517451 | 0.0782399 | 0.0642384 | | |
| 3,3-Dimethylpentane | 0.00284011 | 0.00410859 | 0.00368501 | | |
| cis-1,3-Dimethylcyclopentane | 0.0152351 | 0.0231237 | 0.0184262 | | |
| 3-Ethylpentane | 0.012885 | 0.0195563 | 0.0157264 | | |
| Cycloheptane | 0.00022434 | 0.000521667 | 0.00041729 | | |
| Methylcyclohexane | 0.0411833 | 0.0682645 | 0.0573714 | | |
| 2,2-Dimethylhexane | 0.0362353 | 0.0607308 | 0.0515609 | | |
| i-Octane | 0.0383768 | 0.0642744 | 0.0541795 | | |
| n-Heptane | 0.0870895 | 0.147623 | 0.120003 | | |
| Toluene | 0.0792924 | 0.119268 | 0.105971 | | |
| trans-1,2-Dimethylcyclopentane | 0.00377432 | 0.00546348 | 0.00456657 | | |
| cis-1,2-Dimethylcyclopentane | 0.0036851 | 0.00536436 | 0.00447325 | | |
| trans-1,3-Dimethylcyclopentane | 0.0258062 | 0.0376068 | 0.030753 | | |
| 1-Ethyl-1-Methylcyclopentane | 0.00152441 | 0.00357549 | 0.00271224 | | |
| 2,2,3-Trimethylpentane | 0.00482003 | 0.00961936 | 0.0076456 | | |
| 2,3,4-Trimethylpentane | 0.00622344 | 0.0125237 | 0.00976095 | | |
| 2,5-Dimethylhexane | 0 | 0 | 0 | | |
| 2-Methylheptane | 0.0068205 | 0.0156167 | 0.0119516 | | |
| 4-Methylheptane | 0.00701052 | 0.0160959 | 0.0122689 | | |
| 3,3-Dimethylhexane | 0.001652 | 0.00366377 | 0.00260354 | | |
| 3-Methylheptane | 0.00314541 | 0.00801152 | 0.00582538 | | |
| cis-1,2-Dimethylcyclohexane | 0.00699018 | 0.0165761 | 0.0129242 | | |
| cis-1,3-Dimethylcyclohexane | 0.00086384 | 0.00297346 | 0.00206797 | | |
| Cyclooctane | 0 | 0.00150717 | 0.000839686 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Fraction | 132 % | 158 % | 232 % | | |
|---|---|---|---|---|---|
| Ethylbenzene | 0.00193701 | 0.00493956 | 0.00416049 | | |
| Ethylcyclohexane | 0.00186885 | 0.00586838 | 0.00442873 | | |
| m-Xylene | 0.00207752 | 0.00533541 | 0.0044401 | | |
| p-Xylene | 0.00209383 | 0.00536739 | 0.00448485 | | |
| n-Octane | 0.00737165 | 0.0211854 | 0.0153875 | | |
| o-Xylene | 0.00131081 | 0.00303864 | 0.0027929 | | |
| trans-1,3-Dimethylcyclohexane | 0.0012399 | 0.00318573 | 0.0019701 | | |
| 1,1,2-Trimethylcyclohexane | 0.000324417 | 0.000496325 | 0.000515651 | | |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 | | |
| 1,2,4-Trimethylbenzene | 0 | 0.000436197 | 0.000413165 | | |
| tert-Butylbenzene | 0 | 0.000429884 | 0.000426785 | | |
| 1,3,5-Trimethylbenzene | 0 | 0.000702165 | 0 | | |
| 2,2,3-Trimethylhexane | 0 | 0.000551258 | 0.00099798 | | |
| 2,2,4-Trimethylhexane | 0.00130452 | 0.00319102 | 0.00246709 | | |
| 2,2-Dimethylheptane | 0 | 0.000754858 | 0 | | |
| 2,3,4-Trimethylhexane | 0.000391679 | 0.001414 | 0.00122877 | | |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 | | |
| 2,5-Dimethylheptane | 0.000589077 | 0.00268095 | 0.00253309 | | |
| Isononane | 0 | 0 | 0 | | |
| 3,4-Dimethylheptane | 0 | 0.000696761 | 0.000554463 | | |
| Isopropylbenzene | 0 | 0.00143687 | 0.00106743 | | |
| 1,1,3-Trimethylcyclopentane | 0 | 0.00114533 | 0.000940494 | | |
| Methylcyclopropane | 0 | 0 | 0 | | |
| m-Ethyltoluene | 0 | 0.000389152 | 0 | | |
| p-Ethyltoluene | 0 | 0.000394672 | 0 | | |
| n-Nonane | 0 | 0.00211416 | 0.00172 | | |
| Propylbenzene | 0.000421416 | 0.00158332 | 0.000788222 | | |
| Propylcyclohexane | 0.000163861 | 0 | 0.000534761 | | |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2-Diethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 | 0 | | |
| 1,3-Diethylbenzene | 0 | 0 | 0 | | |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 | 0 | | |
| 1,4-Diethylbenzene | 0 | 0 | 0 | | |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Propylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-4-isopropylbenzene | 0 | 0 | 0 | | |
| 2-Methylnonane | 0 | 0 | 0 | | |
| 3-Ethyloctane | 0 | 0 | 0 | | |
| 3-Methylnonane | 0 | 0 | 0 | | |
| 4-Methylnonane | 0 | 0 | 0 | | |
| Butylbenzene | 0 | 0 | 0 | | |
| Butylcyclohexane | 0 | 0 | 0 | | |
| Isobutylbenzene | 0 | 0 | 0 | | |
| Naphthalene | 0 | 0.000525054 | 0 | | |
| n-Decane | 0 | 0 | 0 | | |
| sec-Butylbenzene | 0 | 0 | 0 | | |
| Undecane | 0 | 0.000414414 | 0.000351931 | | |
| Pentylbenzene | 0 | 0 | 0 | | |
| Dodecane | 0 | 0.0005438 | 0.000341882 | | |
| n-Tridecane | 0.000209439 | 0.000889414 | 0.000480607 | | |
| n-Tetradecane | 0.000152408 | 0 | 0.000481885 | | |
| n-Pentadecane | 0 | 0 | 0.000295152 | | |
| H2O | 0.34756 | 0.57328 | 0.319559 | | |
| MDEA | 5.86519E-05 | 0.000128016 | 4.51548E-05 | | |
| Piperazine | 1.1685E-05 | 2.90772E-05 | 7.96886E-06 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Fraction | 132 % | 158 % | 232 % | | |
|---|---|---|---|---|---|
| TEG | 0.00153816 | 0.00194766 | 0.00150376 | | |

| Mass Flow | 132 lb/h | 158 lb/h | 232 lb/h | | |
|---|---|---|---|---|---|
| Helium | 0.0027983 | 0.00196346 | 0.0024708 | | |
| N2 | 1.1531 | 1.10676 | 1.28538 | | |
| CO2 | 0.837485 | 0.200945 | 85.6071 | | |
| O2 | 0.0038392 | 0.007359 | 0.0027784 | | |
| Argon | 0.0275302 | 0.0511816 | 0.0200997 | | |
| H2S | 0 | 0 | 0.00316957 | | |
| C1 | 85.1835 | 63.4472 | 101.17 | | |
| C2 | 75.33 | 42.9258 | 70.5994 | | |
| C3 | 88.3544 | 40.2706 | 67.6313 | | |
| iC4 | 16.5005 | 7.20957 | 12.2749 | | |
| nC4 | 45.9855 | 19.7865 | 33.9746 | | |
| iC5 | 11.618 | 5.41308 | 9.44829 | | |
| nC5 | 12.5508 | 6.0168 | 10.5479 | | |
| Neo-Pentane | 0 | 0 | 0 | | |
| 2,2-Dimethylbutane | 0.111348 | 0.0615434 | 0.118776 | | |
| 2,3-Dimethylbutane | 0.341417 | 0.181369 | 0.321865 | | |
| Cyclopentane | 0.425295 | 0.224403 | 0.392097 | | |
| i-Hexane | 2.32505 | 1.32515 | 2.33803 | | |
| 3-Methylpentane | 1.13775 | 0.672571 | 1.17901 | | |
| Benzene | 0.837884 | 0.476438 | 0.920203 | | |
| Cyclohexane | 1.24244 | 0.829665 | 1.49345 | | |
| Methylcyclopentane | 1.32953 | 0.838373 | 1.47261 | | |
| C6 | 2.25367 | 1.41746 | 2.47356 | | |
| 1,1-Dimethylcyclopentane | 0.145761 | 0.124923 | 0.211433 | | |
| 3-Methylhexane | 0.11806 | 0.101419 | 0.173462 | | |
| 2,2-Dimethylpentane | 0.0185685 | 0.0157113 | 0.0238628 | | |
| 2,3-Dimethylpentane | 0.0595877 | 0.0460793 | 0.0778401 | | |
| 2,4-Dimethylhexane | 0.0124116 | 0.0129252 | 0.0218909 | | |
| Ethylcyclopentane | 0.0143509 | 0.0148638 | 0.0247985 | | |
| 2,4-Dimethylpentane | 0.00497089 | 0.0036269 | 0.00534356 | | |
| i-Heptane | 0.181501 | 0.152928 | 0.261958 | | |
| 3,3-Dimethylpentane | 0.00996196 | 0.00803069 | 0.0150272 | | |
| cis-1,3-Dimethylcyclopentane | 0.0534385 | 0.0451978 | 0.0751405 | | |
| 3-Ethylpentane | 0.0451956 | 0.0382249 | 0.064131 | | |
| Cycloheptane | 0.000786896 | 0.00101966 | 0.00170167 | | |
| Methylcyclohexane | 0.144455 | 0.13343 | 0.233955 | | |
| 2,2-Dimethylhexane | 0.127099 | 0.118705 | 0.210261 | | |
| i-Octane | 0.13461 | 0.125631 | 0.220939 | | |
| n-Heptane | 0.305475 | 0.288545 | 0.489363 | | |
| Toluene | 0.278126 | 0.233123 | 0.43214 | | |
| trans-1,2-Dimethylcyclopentane | 0.0132388 | 0.010679 | 0.0186221 | | |
| cis-1,2-Dimethylcyclopentane | 0.0129259 | 0.0104852 | 0.0182415 | | |
| trans-1,3-Dimethylcyclopentane | 0.0905178 | 0.0735066 | 0.125408 | | |
| 1-Ethyl-1-Methylcyclopentane | 0.00534703 | 0.00698869 | 0.0110603 | | |
| 2,2,3-Trimethylpentane | 0.0169067 | 0.0188021 | 0.0311781 | | |
| 2,3,4-Trimethylpentane | 0.0218293 | 0.024479 | 0.0398043 | | |
| 2,5-Dimethylhexane | 0 | 0 | 0 | | |
| 2-Methylheptane | 0.0239236 | 0.0305246 | 0.0487375 | | |
| 4-Methylheptane | 0.0245901 | 0.0314612 | 0.0500315 | | |
| 3,3-Dimethylhexane | 0.00579456 | 0.00716124 | 0.010617 | | |
| 3-Methylheptane | 0.0110328 | 0.0156594 | 0.0237554 | | |
| cis-1,2-Dimethylcyclohexane | 0.0245188 | 0.0323998 | 0.0527039 | | |
| cis-1,3-Dimethylcyclohexane | 0.00303001 | 0.00581195 | 0.00843299 | | |
| Cyclooctane | 0 | 0.00294592 | 0.00342416 | | |
| Ethylbenzene | 0.00679424 | 0.00965491 | 0.0169661 | | |
| Ethylcyclohexane | 0.00655517 | 0.0114704 | 0.0180599 | | |
| m-Xylene | 0.00728712 | 0.0104286 | 0.0181063 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

| Mass Flow | 132 lb/h | 158 lb/h | 232 lb/h | | |
|---|---|---|---|---|---|
| p-Xylene | 0.00734431 | 0.0104911 | 0.0182888 | | |
| n-Octane | 0.0258568 | 0.0414092 | 0.0627487 | | |
| o-Xylene | 0.00459779 | 0.00593935 | 0.0113892 | | |
| trans-1,3-Dimethylcyclohexane | 0.00434906 | 0.00622685 | 0.00803391 | | |
| 1,1,2-Trimethylcyclohexane | 0.00113792 | 0.000970121 | 0.00210278 | | |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 | | |
| 1,2,4-Trimethylbenzene | 0 | 0.000852594 | 0.00168485 | | |
| tert-Butylbenzene | 0 | 0.000840255 | 0.00174039 | | |
| 1,3,5-Trimethylbenzene | 0 | 0.00137246 | 0 | | |
| 2,2,3-Trimethylhexane | 0 | 0.00107749 | 0.00406967 | | |
| 2,2,4-Trimethylhexane | 0.00457574 | 0.0062372 | 0.0100606 | | |
| 2,2-Dimethylheptane | 0 | 0.00147545 | 0 | | |
| 2,3,4-Trimethylhexane | 0.00137385 | 0.00276382 | 0.00501082 | | |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 | | |
| 2,5-Dimethylheptane | 0.00206624 | 0.00524021 | 0.0103297 | | |
| Isononane | 0 | 0 | 0 | | |
| 3,4-Dimethylheptane | 0 | 0.0013619 | 0.00226105 | | |
| Isopropylbenzene | 0 | 0.00280852 | 0.0043529 | | |
| 1,1,3-Trimethylcyclopentane | 0 | 0.00223868 | 0.00383525 | | |
| Methylcyclopropane | 0 | 0 | 0 | | |
| m-Ethyltoluene | 0 | 0.00076064 | 0 | | |
| p-Ethyltoluene | 0 | 0.00077143 | 0 | | |
| n-Nonane | 0 | 0.00413235 | 0.00701401 | | |
| Propylbenzene | 0.00147816 | 0.00309477 | 0.0032143 | | |
| Propylcyclohexane | 0.000574759 | 0 | 0.00218071 | | |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2-Diethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 | 0 | | |
| 1,3-Diethylbenzene | 0 | 0 | 0 | | |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 | 0 | | |
| 1,4-Diethylbenzene | 0 | 0 | 0 | | |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Propylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-4-isopropylbenzene | 0 | 0 | 0 | | |
| 2-Methylnonane | 0 | 0 | 0 | | |
| 3-Ethyloctane | 0 | 0 | 0 | | |
| 3-Methylnonane | 0 | 0 | 0 | | |
| 4-Methylnonane | 0 | 0 | 0 | | |
| Butylbenzene | 0 | 0 | 0 | | |
| Butylcyclohexane | 0 | 0 | 0 | | |
| Isobutylbenzene | 0 | 0 | 0 | | |
| Naphthalene | 0 | 0.00102628 | 0 | | |
| n-Decane | 0 | 0 | 0 | | |
| sec-Butylbenzene | 0 | 0 | 0 | | |
| Undecane | 0 | 0.000810018 | 0.00143514 | | |
| Pentylbenzene | 0 | 0 | 0 | | |
| Dodecane | 0 | 0.00106292 | 0.00139416 | | |
| n-Tridecane | 0.000734627 | 0.00173846 | 0.00195987 | | |
| n-Tetradecane | 0.000534587 | 0 | 0.00196509 | | |
| n-Pentadecane | 0 | 0 | 0.0012036 | | |
| H2O | 1.2191 | 1.12054 | 1.30313 | | |
| MDEA | 0.000205727 | 0.000250221 | 0.000184137 | | |
| Piperazine | 4.09865E-05 | 5.68346E-05 | 3.24963E-05 | | |
| TEG | 0.00539524 | 0.00380691 | 0.00613218 | | |

* User Specified Values
? Extrapolated or Approximate Values

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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Resources | Job: Roadrunner Air Emissions |
| Location: | New Mexico | |
| Flowsheet: | TEG Dehydration | |

## Stream Properties

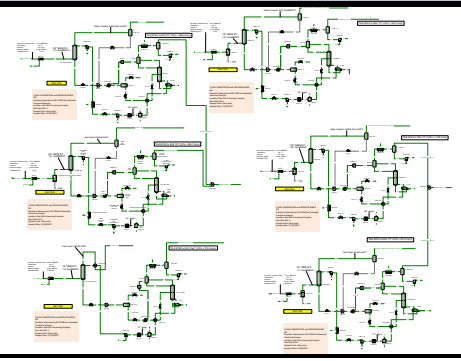
| Property | Units | 132 | 158 | 232 | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 137.122 | 142.094 | 136.408 | | |
| Pressure | psig | 60 | 60 | 60 | | |
| Molecular Weight | lb/lbmol | 30.5094 | 27.4647 | 30.242 | | |
| Mass Density | lb/ft^3 | 0.35751 | 0.317112 | 0.352583 | | |
| Mass Flow | lb/h | 350.76 | 195.461 | 407.791 | | |
| Std Vapor Volumetric Flow | MMSCFD | 0.104709 | 0.0648174 | 0.12281 | | |
| Std Liquid Volumetric Flow | sgpm | 1.67288 | 0.979992 | 1.81491 | | |
| Specific Gravity | | 1.05341 | 0.948284 | 1.04418 | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1768.6 | 1601.21 | 1397.15 | | |

**Remarks**


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# TEG Dehydration
# Plant Schematic

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | TEG Dehydration | |





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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

## Connections

| | RH1 BTEX to RH1 Flare | RH1 Dehy Inlet | RH2 BTEX to RH2 TO | RH2 Dehy Inlet | RH3 BTEX to RH2 TO |
|---|---|---|---|---|---|
| From Block | VSSL-108 | -- | V-2503 TEG Vent Condensate Drum | -- | VSSL-103 |
| To Block | -- | SAT-2 | MIX-103 | SAT-1 | MIX-103 |

## Stream Composition

| Mole Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| Helium | 0.000282069 | 0.0119 * | 0.000373142 | 0.0153 * | 0.000362745 |
| N2 | 0.0117783 | 1.3712 * | 0.0157248 | 1.7549 * | 0.0303845 |
| CO2 | 13.6487 | 2.6057 * | 0.118219 | 0.0181 * | 0.0295906 |
| O2 | 3.95448E-05 | 0.0046 * | 5.96173E-05 | 0.00660001 * | 0.000835556 |
| Argon | 0.00139375 | 0.0046 * | 0.00206382 | 0.00660001 * | 0.0299048 |
| H2S | 0.112129 | 0.0032 * | 0 | 0 * | 0 |
| C1 | 7.99354 | 70.6627 * | 9.05991 | 76.9461 * | 8.96852 |
| C2 | 12.5144 | 13.7856 * | 11.8451 | 11.7531 * | 11.4258 |
| C3 | 16.0978 | 7.29061 * | 14.9497 | 5.70721 * | 15.1915 |
| iC4 | 2.91396 | 0.976701 * | 2.82542 | 0.774202 * | 3.06298 |
| nC4 | 11.1031 | 2.1735 * | 11.4913 | 1.7588 * | 12.1431 |
| iC5 | 3.17134 | 0.42 * | 3.89471 | 0.398301 * | 4.4766 |
| nC5 | 3.88998 | 0.4024 * | 5.17529 | 0.411701 * | 5.43376 |
| Neo-Pentane | 0 | 0 * | 0 | 0 * | 0 |
| 2,2-Dimethylbutane | 0.0380332 | 0.003474 * | 0.059717 | 0.00424701 * | 0.0645544 |
| 2,3-Dimethylbutane | 0.127357 | 0.00833901 * | 0.213592 | 0.010966 * | 0.209922 |
| Cyclopentane | 0.432729 | 0.00833901 * | 0.779048 | 0.010966 * | 0.754555 |
| i-Hexane | 0.898409 | 0.0663961 * | 1.45466 | 0.0858192 * | 1.50172 |
| 3-Methylpentane | 0.520898 | 0.030507 * | 0.90127 | 0.0421871 * | 0.940988 |
| Benzene | 4.51426 | 0.012031 * | 8.36563 | 0.018662 * | 7.04164 |
| Cyclohexane | 1.49353 | 0.024287 * | 2.9878 | 0.0421331 * | 2.72922 |
| Methylcyclopentane | 1.59358 | 0.02713 * | 3.05216 | 0.0417911 * | 2.7894 |
| C6 | 1.07097 | 0.0613201 * | 1.93294 | 0.0916422 * | 1.85046 |
| 1,1-Dimethylcyclopentane | 0.195041 | 0.0028415 * | 0.428393 | 0.00596051 * | 0.401614 |
| 3-Methylhexane | 0.0765014 | 0.0028415 * | 0.157861 | 0.00596051 * | 0.148762 |
| 2,2-Dimethylpentane | 0.00813728 | 0.000521001 * | 0.0166165 | 0.000958002 * | 0.0145141 |
| 2,3-Dimethylpentane | 0.0368776 | 0.00124 * | 0.0710275 | 0.002347 * | 0.0825888 |
| 2,4-Dimethylhexane | 0.00828857 | 0.0002895 * | 0.015939 | 0.000724001 * | 0.0162722 |
| Ethylcyclopentane | 0.0275553 | 0.0002895 * | 0.0583026 | 0.000724001 * | 0.0590054 |
| 2,4-Dimethylpentane | 0.00169878 | 0.000108 * | 0.00342325 | 0.000199 * | 0.00317897 |
| i-Heptane | 0.0964217 | 0.004576 * | 0.201602 | 0.00949902 * | 0.191149 |
| 3,3-Dimethylpentane | 0.00691977 | 0.000252 * | 0.0145911 | 0.000499001 * | 0.0146212 |
| cis-1,3-Dimethylcyclopentane | 0.0839461 | 0.0011595 * | 0.168628 | 0.0023075 * | 0.14825 |
| 3-Ethylpentane | 0.037248 | 0.0011595 * | 0.072128 | 0.0023075 * | 0.0634347 |
| Cycloheptane | 0 | 0 * | 0.00449852 | 6.10001E-05 * | 0.0034669 |
| Methylcyclohexane | 0.201483 | 0.00310234 * | 0.410114 | 0.00705568 * | 0.389105 |
| 2,2-Dimethylhexane | 0.0735253 | 0.00310234 * | 0.13566 | 0.00705568 * | 0.130939 |
| i-Octane | 0.0789263 | 0.00310234 * | 0.1693 | 0.00705568 * | 0.161796 |
| n-Heptane | 0.213159 | 0.00751001 * | 0.445469 | 0.017506 * | 0.415843 |
| Toluene | 2.40284 | 0.004283 * | 4.11579 | 0.00929402 * | 4.63522 |
| trans-1,2-Dimethylcyclopentane | 0.0207521 | 0.000273 * | 0.0426272 | 0.000562501 * | 0.0352838 |
| cis-1,2-Dimethylcyclopentane | 0.0246753 | 0.000273 * | 0.046066 | 0.000562501 * | 0.0380672 |
| trans-1,3-Dimethylcyclopentane | 0.14873 | 0.001913 * | 0.295884 | 0.00388101 * | 0.243075 |
| 1-Ethyl-1-Methylcyclopentane | 0.0171014 | 0.000164 * | 0.0207239 | 0.000330001 * | 0.0227787 |
| 2,2,3-Trimethylpentane | 0.0172009 | 0.000432 * | 0.033531 | 0.001088 * | 0.0293242 |
| 2,3,4-Trimethylpentane | 0.0248722 | 0.000546001 * | 0.0447243 | 0.001364 * | 0.0414408 |
| 2,5-Dimethylhexane | 0 | 0 * | 0 | 0 * | 0 |
| 2-Methylheptane | 0.020479 | 0.000638501 * | 0.0334142 | 0.001588 * | 0.0401592 |
| 4-Methylheptane | 0.0234712 | 0.000638501 * | 0.0375389 | 0.001588 * | 0.0448813 |
| 3,3-Dimethylhexane | 0.00561403 | 0.000154 * | 0.00812229 | 0.000301001 * | 0.011545 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| 3-Methylheptane | 0.0119836 | 0.000314 * | 0.0184443 | 0.000770002 * | 0.0223565 |
| cis-1,2-Dimethylcyclohexane | 0.059261 | 0.000866001 * | 0.0664214 | 0.001875 * | 0.0646183 |
| cis-1,3-Dimethylcyclohexane | 0.00544063 | 0.0001 * | 0.01069 | 0.000309001 * | 0.0132904 |
| Cyclooctane | 0 | 0 * | 0.0154388 | 4.90001E-05 * | 0.00773054 |
| Ethylbenzene | 0.111865 | 0.000155 * | 0.100143 | 0.000349001 * | 0.141658 |
| Ethylcyclohexane | 0.0180042 | 0.000191 * | 0.026146 | 0.000579001 * | 0.0307848 |
| m-Xylene | 0.117874 | 0.0001685 * | 0.121783 | 0.000444501 * | 0.148235 |
| p-Xylene | 0.112032 | 0.0001685 * | 0.11708 | 0.000444501 * | 0.143088 |
| n-Octane | 0.0322694 | 0.000783001 * | 0.0520483 | 0.002356 * | 0.056062 |
| o-Xylene | 0.109006 | 0.000128 * | 0.0849072 | 0.000244001 * | 0.103676 |
| trans-1,3-Dimethylcyclohexane | 0.00753774 | 0.000123 * | 0.0122217 | 0.000344001 * | 0.011906 |
| 1,1,2-Trimethylcyclohexane | 0.00376169 | 6.80001E-05 * | 0.00093446 | 3.80001E-05 * | 0.001177 |
| 1,2,3-Trimethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4-Trimethylbenzene | 0.0245183 | 2.7E-05 * | 0.00657672 | 4.40001E-05 * | 0.00719989 |
| tert-Butylbenzene | 0.0172826 | 2.7E-05 * | 0.00414231 | 4.40001E-05 * | 0.00495027 |
| 1,3,5-Trimethylbenzene | 0.0695866 | 8.50001E-05 * | 0.0277587 | 0.000191 * | 0.00795168 |
| 2,2,3-Trimethylhexane | 0 | 0 * | 0.000880689 | 6.30001E-05 * | 0.000933547 |
| 2,2,4-Trimethylhexane | 0.00318204 | 0.000163 * | 0.00563144 | 0.000398001 * | 0.00595524 |
| 2,2-Dimethylheptane | 0.00292006 | 7.50001E-05 * | 0.00119891 | 6.00001E-05 * | 0.00218732 |
| 2,3,4-Trimethylhexane | 0.00292717 | 5.20001E-05 * | 0.00360942 | 0.00014 * | 0.00506102 |
| 2,4,4-Trimethylhexane | 0 | 0 * | 0 | 0 * | 0 |
| 2,5-Dimethylheptane | 0.00317584 | 7.30001E-05 * | 0.0069421 | 0.000321001 * | 0.00929507 |
| Isononane | 0 | 0 * | 0 | 0 * | 0.000789801 |
| 3,4-Dimethylheptane | 0 | 0 * | 0.00179021 | 7.10001E-05 * | 0.0023072 |
| Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0.010939 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 * | 0 | 0 * | 0.00215053 |
| Methylcyclopropane | 0 | 0 * | 0 | 0 * | 0 |
| m-Ethyltoluene | 0.0167963 | 2.3E-05 * | 0.00682965 | 4.50001E-05 * | 0.00800113 |
| p-Ethyltoluene | 0.0198254 | 2.3E-05 * | 0.00751816 | 4.50001E-05 * | 0.00841404 |
| n-Nonane | 0.00648359 | 0.000108 * | 0.00364042 | 0.000204 * | 0.00484581 |
| Propylbenzene | 0.0323975 | 4.4E-05 * | 0.0174427 | 0.000115 * | 0.010977 |
| Propylcyclohexane | 0.00409612 | 2.9E-05 * | 0.00249978 | 7.30001E-05 * | 0 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 2-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Ethyloctane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 4-Methylnonane | 0.00284068 | 3.6E-05 * | 0 | 0 * | 0 |
| Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Butylcyclohexane | 0 | 0 * | 0 | 0 * | 0 |
| Isobutylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Naphthalene | 0.0475956 | 4.4E-05 * | 0.00225641 | 4.80001E-05 * | 1.07682E-05 |
| n-Decane | 0.00418097 | 5.00001E-05 * | 0.000391033 | 3.80001E-05 * | 0 |
| sec-Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Undecane | 0.00533373 | 4.6E-05 * | 0.000283028 | 3.70001E-05 * | 0.000411762 |
| Pentylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Dodecane | 0 | 0 * | 0.000260782 | 5.80001E-05 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| n-Tridecane | 0.00662663 | 5.40001E-05 * | 0.000151127 | 5.00001E-05 * | 0.000125903 |
| n-Tetradecane | 0.00308419 | 3.9E-05 * | 9.16163E-05 | 5.60001E-05 * | 0 |
| n-Pentadecane | 0 | 0 * | 0 | 0 * | 0 |
| H2O | 13.1317 | 0 * | 13.0953 | 0 * | 13.0942 |
| MDEA | 0.00664463 | 0 * | 0.00184854 | 0 * | 0.0067073 |
| Piperazine | 0 | 0 * | 0 | 0 * | 1.38288E-08 |
| TEG | 8.84804E-11 | 0 * | 6.16601E-11 | 0 * | 6.05892E-11 |

| Mass Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| Helium | 2.39226E-05 | 0.00207921 * | 2.84141E-05 | 0.0028676 * | 2.7623E-05 |
| N2 | 0.00699133 | 1.67678 * | 0.0083805 | 2.30199 * | 0.0161937 |
| CO2 | 12.7277 | 5.00588 * | 0.0989809 | 0.0373 * | 0.0247758 |
| O2 | 2.68123E-05 | 0.00642541 * | 3.62931E-05 | 0.00988922 * | 0.000508671 |
| Argon | 0.00117975 | 0.00802163 * | 0.0015685 | 0.0123459 * | 0.0227281 |
| H2S | 0.0809728 | 0.0047607 * | 0 | 0 * | 0 |
| C1 | 2.7172 | 49.4846 * | 2.76511 | 57.8017 * | 2.73728 |
| C2 | 7.97337 | 18.0948 * | 6.77607 | 16.5484 * | 6.5363 |
| C3 | 15.0409 | 14.0336 * | 12.5414 | 11.7843 * | 12.7445 |
| iC4 | 3.5887 | 2.47807 * | 3.12423 | 2.10707 * | 3.38699 |
| nC4 | 13.6741 | 5.51457 * | 12.7066 | 4.78677 * | 13.4276 |
| iC5 | 4.84823 | 1.32278 * | 5.34591 | 1.34562 * | 6.14476 |
| nC5 | 5.94686 | 1.26735 * | 7.10364 | 1.39089 * | 7.4586 |
| Neo-Pentane | 0 | 0 * | 0 | 0 * | 0 |
| 2,2-Dimethylbutane | 0.0694476 | 0.0130684 * | 0.0979036 | 0.0171376 * | 0.105837 |
| 2,3-Dimethylbutane | 0.232551 | 0.0313694 * | 0.350175 | 0.0442502 * | 0.344166 |
| Cyclopentane | 0.643057 | 0.0255297 * | 1.03945 | 0.0360126 * | 1.00679 |
| i-Hexane | 1.64047 | 0.249767 * | 2.38486 | 0.346299 * | 2.46207 |
| 3-Methylpentane | 0.951146 | 0.11476 * | 1.4776 | 0.170234 * | 1.54275 |
| Benzene | 7.47161 | 0.0410231 * | 12.4318 | 0.0682589 * | 10.4645 |
| Cyclohexane | 2.66335 | 0.089225 * | 4.78379 | 0.166039 * | 4.36987 |
| Methylcyclopentane | 2.84178 | 0.0996695 * | 4.88684 | 0.164691 * | 4.46623 |
| C6 | 1.95557 | 0.230672 * | 3.16897 | 0.369796 * | 3.03383 |
| 1,1-Dimethylcyclopentane | 0.405777 | 0.0121789 * | 0.80022 | 0.0274042 * | 0.750216 |
| 3-Methylhexane | 0.162427 | 0.0124289 * | 0.300933 | 0.0279668 * | 0.283593 |
| 2,2-Dimethylpentane | 0.0172769 | 0.00227889 * | 0.0316762 | 0.00449496 * | 0.027669 |
| 2,3-Dimethylpentane | 0.0782978 | 0.00542385 * | 0.135401 | 0.0110122 * | 0.157443 |
| 2,4-Dimethylhexane | 0.0200616 | 0.00144355 * | 0.0346381 | 0.00387255 * | 0.035363 |
| Ethylcyclopentane | 0.057328 | 0.00124082 * | 0.108907 | 0.00332869 * | 0.110222 |
| 2,4-Dimethylpentane | 0.00360683 | 0.0004724 * | 0.00652579 | 0.000933713 * | 0.00606025 |
| i-Heptane | 0.204721 | 0.0200157 * | 0.384315 | 0.0445696 * | 0.364398 |
| 3,3-Dimethylpentane | 0.014692 | 0.00110227 * | 0.0278152 | 0.00234132 * | 0.0278732 |
| cis-1,3-Dimethylcyclopentane | 0.174647 | 0.0049697 * | 0.31499 | 0.010609 * | 0.276931 |
| 3-Ethylpentane | 0.0790845 | 0.00507173 * | 0.137498 | 0.0108269 * | 0.120929 |
| Cycloheptane | 0 | 0 * | 0.00840306 | 0.000280456 * | 0.00647618 |
| Methylcyclohexane | 0.419179 | 0.0132968 * | 0.766077 | 0.0324394 * | 0.726849 |
| 2,2-Dimethylhexane | 0.17796 | 0.0154694 * | 0.294812 | 0.0377396 * | 0.284558 |
| i-Octane | 0.191033 | 0.0154694 * | 0.367915 | 0.0377396 * | 0.351617 |
| n-Heptane | 0.452576 | 0.0328493 * | 0.849202 | 0.0821386 * | 0.792745 |
| Toluene | 4.69113 | 0.0172266 * | 7.21459 | 0.0400985 * | 8.12529 |
| trans-1,2-Dimethylcyclopentane | 0.0431742 | 0.0011701 * | 0.0796259 | 0.00258617 * | 0.0659101 |
| cis-1,2-Dimethylcyclopentane | 0.0513362 | 0.0011701 * | 0.0860495 | 0.00258617 * | 0.0711097 |
| trans-1,3-Dimethylcyclopentane | 0.309428 | 0.00819926 * | 0.552699 | 0.0178434 * | 0.454064 |
| 1-Ethyl-1-Methylcyclopentane | 0.0406617 | 0.000803332 * | 0.0442415 | 0.00173396 * | 0.0486293 |
| 2,2,3-Trimethylpentane | 0.0416329 | 0.00215411 * | 0.0728684 | 0.00581953 * | 0.0637278 |
| 2,3,4-Trimethylpentane | 0.0602004 | 0.00272256 * | 0.0971932 | 0.00729581 * | 0.0900596 |
| 2,5-Dimethylhexane | 0 | 0 * | 0 | 0 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| 2-Methylheptane | 0.0495671 | 0.0031838 * | 0.0726144 | 0.00849394 * | 0.0872744 |
| 4-Methylheptane | 0.0568094 | 0.0031838 * | 0.0815782 | 0.00849394 * | 0.0975366 |
| 3,3-Dimethylhexane | 0.0135882 | 0.0007679 * | 0.0176511 | 0.00161 * | 0.0250897 |
| 3-Methylheptane | 0.029005 | 0.00156572 * | 0.0400824 | 0.0041186 * | 0.0485854 |
| cis-1,2-Dimethylcyclohexane | 0.140904 | 0.00424199 * | 0.141797 | 0.00985207 * | 0.137951 |
| cis-1,3-Dimethylcyclohexane | 0.0129361 | 0.000489837 * | 0.0228211 | 0.00162362 * | 0.0283731 |
| Cyclooctane | 0 | 0 * | 0.0329589 | 0.000257467 * | 0.0165036 |
| Ethylbenzene | 0.251644 | 0.000718328 * | 0.202265 | 0.00173497 * | 0.28612 |
| Ethylcyclohexane | 0.0428082 | 0.000935588 * | 0.0558167 | 0.00304232 * | 0.0657211 |
| m-Xylene | 0.265161 | 0.000780892 * | 0.245971 | 0.00220972 * | 0.299405 |
| p-Xylene | 0.252021 | 0.000780892 * | 0.236474 | 0.00220972 * | 0.289009 |
| n-Octane | 0.0781047 | 0.00390433 * | 0.113109 | 0.0126018 * | 0.121835 |
| o-Xylene | 0.245213 | 0.0005932 * | 0.171492 | 0.00121299 * | 0.209406 |
| trans-1,3-Dimethylcyclohexane | 0.0179223 | 0.000602499 * | 0.026091 | 0.00180753 * | 0.0254176 |
| 1,1,2-Trimethylcyclohexane | 0.0100621 | 0.000374725 * | 0.00224426 | 0.000224627 * | 0.00282681 |
| 1,2,3-Trimethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4-Trimethylbenzene | 0.0624419 | 0.00014166 * | 0.0150384 | 0.000247634 * | 0.0164637 |
| tert-Butylbenzene | 0.0491511 | 0.000158192 * | 0.0105772 | 0.000276534 * | 0.0126406 |
| 1,3,5-Trimethylbenzene | 0.177219 | 0.000445967 * | 0.0634733 | 0.00107496 * | 0.0181828 |
| 2,2,3-Trimethylhexane | 0 | 0 * | 0.00214889 | 0.000378355 * | 0.00227792 |
| 2,2,4-Trimethylhexane | 0.00864752 | 0.000912582 * | 0.0137408 | 0.00239024 * | 0.0145312 |
| 2,2-Dimethylheptane | 0.00793558 | 0.0004199 * | 0.00292535 | 0.000360338 * | 0.00533722 |
| 2,3,4-Trimethylhexane | 0.0079549 | 0.00029113 * | 0.00880703 | 0.000840789 * | 0.0123492 |
| 2,4,4-Trimethylhexane | 0 | 0 * | 0 | 0 * | 0 |
| 2,5-Dimethylheptane | 0.00863067 | 0.000408702 * | 0.0169388 | 0.00192781 * | 0.0226806 |
| Isononane | 0 | 0 * | 0 | 0 * | 0.00192717 |
| 3,4-Dimethylheptane | 0 | 0 * | 0.00436813 | 0.0004264 * | 0.00562973 |
| Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0.0250137 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 * | 0 | 0 * | 0.00459108 |
| Methylcyclopropane | 0 | 0 * | 0 | 0 * | 0 |
| m-Ethyltoluene | 0.042776 | 0.000120673 * | 0.0156167 | 0.000253263 * | 0.0182959 |
| p-Ethyltoluene | 0.0504902 | 0.000120673 * | 0.0171911 | 0.000253263 * | 0.01924 |
| n-Nonane | 0.0176198 | 0.000604656 * | 0.00888267 | 0.00122515 * | 0.0118241 |
| Propylbenzene | 0.0825081 | 0.000230853 * | 0.0398846 | 0.000647226 * | 0.0251006 |
| Propylcyclohexane | 0.0109567 | 0.000159809 * | 0.00600363 | 0.000431521 * | 0 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 2-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Ethyloctane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 4-Methylnonane | 0.00856413 | 0.000223595 * | 0 | 0 * | 0 |
| Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Butylcyclohexane | 0 | 0 * | 0 | 0 * | 0 |
| Isobutylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Naphthalene | 0.129261 | 0.000246179 * | 0.00550203 | 0.00028808 * | 2.62578E-05 |
| n-Decane | 0.0126048 | 0.000310548 * | 0.00105847 | 0.000253173 * | 0 |
| sec-Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Undecane | 0.0176655 | 0.00031387 * | 0.000841645 | 0.000270812 * | 0.00122449 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Fraction | RH1 BTEX to RH1 Flare % | RH1 Dehy Inlet % | RH2 BTEX to RH2 TO % | RH2 Dehy Inlet % | RH3 BTEX to RH2 TO % |
|---|---|---|---|---|---|
| Pentylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Dodecane | 0 | 0 * | 0.00084508 | 0.000462611 * | 0 |
| n-Tridecane | 0.0258866 | 0.000434584 * | 0.000530065 | 0.000431643 * | 0.000441604 |
| n-Tetradecane | 0.0129649 | 0.000337746 * | 0.000345785 | 0.000520221 * | 0 |
| n-Pentadecane | 0 | 0 * | 0 | 0 * | 0 |
| H2O | 5.01272 | 0 * | 4.48822 | 0 * | 4.48793 |
| MDEA | 0.0167773 | 0 * | 0.00419069 | 0 * | 0.015206 |
| Piperazine | 0 | 0 * | 0 | 0 * | 2.26618E-08 |
| TEG | 2.81547E-10 | 0 * | 1.76163E-10 | 0 * | 1.73107E-10 |

| Mass Flow | RH1 BTEX to RH1 Flare lb/h | RH1 Dehy Inlet lb/h | RH2 BTEX to RH2 TO lb/h | RH2 Dehy Inlet lb/h | RH3 BTEX to RH2 TO lb/h |
|---|---|---|---|---|---|
| Helium | 2.13386E-05 | 1.56513 * | 4.5311E-05 | 8.05021 * | 6.34242E-05 |
| N2 | 0.00623615 | 1262.2 * | 0.0133641 | 6462.37 * | 0.0371817 |
| CO2 | 11.3529 | 3768.18 * | 0.157841 | 104.712 * | 0.0568868 |
| O2 | 2.39161E-05 | 4.83673 * | 5.78753E-05 | 27.762 * | 0.00116794 |
| Argon | 0.00105232 | 6.03828 * | 0.00250123 | 34.6587 * | 0.0521851 |
| H2S | 0.0722263 | 3.58362 * | 0 | 0 * | 0 |
| C1 | 2.42369 | 37249.6 * | 4.40942 | 162267 * | 6.28496 |
| C2 | 7.11211 | 13620.9 * | 10.8056 | 46456.4 * | 15.0077 |
| C3 | 13.4162 | 10563.8 * | 19.9993 | 33082 * | 29.2622 |
| iC4 | 3.20106 | 1865.37 * | 4.9821 | 5915.19 * | 7.77673 |
| nC4 | 12.1971 | 4151.09 * | 20.2628 | 13437.9 * | 30.8305 |
| iC5 | 4.32453 | 995.724 * | 8.52493 | 3777.57 * | 14.1087 |
| nC5 | 5.3045 | 953.998 * | 11.3279 | 3904.66 * | 17.1254 |
| Neo-Pentane | 0 | 0 * | 0 | 0 * | 0 |
| 2,2-Dimethylbutane | 0.0619461 | 9.83725 * | 0.156123 | 48.1104 * | 0.243008 |
| 2,3-Dimethylbutane | 0.207431 | 23.6134 * | 0.558412 | 124.224 * | 0.790227 |
| Cyclopentane | 0.573596 | 19.2175 * | 1.65758 | 101.098 * | 2.31166 |
| i-Hexane | 1.46327 | 188.012 * | 3.80305 | 972.165 * | 5.65307 |
| 3-Methylpentane | 0.848406 | 86.386 * | 2.35627 | 477.898 * | 3.54224 |
| Benzene | 6.66455 | 30.8801 * | 19.8245 | 191.623 * | 24.0271 |
| Cyclohexane | 2.37566 | 67.1641 * | 7.62853 | 466.121 * | 10.0335 |
| Methylcyclopentane | 2.53481 | 75.0263 * | 7.79286 | 462.338 * | 10.2547 |
| C6 | 1.74433 | 173.638 * | 5.05344 | 1038.13 * | 6.96585 |
| 1,1-Dimethylcyclopentane | 0.361946 | 9.16765 * | 1.27608 | 76.9318 * | 1.72254 |
| 3-Methylhexane | 0.144882 | 9.35587 * | 0.479887 | 78.5113 * | 0.651147 |
| 2,2-Dimethylpentane | 0.0154107 | 1.71544 * | 0.050513 | 12.6187 * | 0.0635297 |
| 2,3-Dimethylpentane | 0.0698403 | 4.0828 * | 0.215919 | 30.9145 * | 0.3615 |
| 2,4-Dimethylhexane | 0.0178946 | 1.08664 * | 0.0552362 | 10.8714 * | 0.0811956 |
| Ethylcyclopentane | 0.0511356 | 0.934026 * | 0.17367 | 9.34462 * | 0.253077 |
| 2,4-Dimethylpentane | 0.00321723 | 0.355599 * | 0.0104064 | 2.62121 * | 0.0139147 |
| i-Heptane | 0.182608 | 15.0669 * | 0.612854 | 125.12 * | 0.836681 |
| 3,3-Dimethylpentane | 0.013105 | 0.829731 * | 0.0443559 | 6.57279 * | 0.0639986 |
| cis-1,3-Dimethylcyclopentane | 0.155782 | 3.74094 * | 0.502303 | 29.7828 * | 0.63585 |
| 3-Ethylpentane | 0.070542 | 3.81775 * | 0.219264 | 30.3942 * | 0.27766 |
| Cycloheptane | 0 | 0 * | 0.0134001 | 0.787323 * | 0.0148697 |
| Methylcyclohexane | 0.373901 | 10.0092 * | 1.22164 | 91.0671 * | 1.66889 |
| 2,2-Dimethylhexane | 0.158737 | 11.6446 * | 0.470126 | 105.946 * | 0.653364 |
| i-Octane | 0.170398 | 11.6446 * | 0.586702 | 105.946 * | 0.807333 |
| n-Heptane | 0.40369 | 24.7273 * | 1.35419 | 230.588 * | 1.82019 |
| Toluene | 4.18441 | 12.9673 * | 11.5048 | 112.568 * | 18.6562 |
| trans-1,2-Dimethylcyclopentane | 0.0385106 | 0.880791 * | 0.126977 | 7.26015 * | 0.151334 |
| cis-1,2-Dimethylcyclopentane | 0.045791 | 0.880791 * | 0.13722 | 7.26015 * | 0.163272 |
| trans-1,3-Dimethylcyclopentane | 0.276005 | 6.17199 * | 0.881369 | 50.0918 * | 1.04256 |
| 1-Ethyl-1-Methylcyclopentane | 0.0362695 | 0.604709 * | 0.0705504 | 4.86776 * | 0.111656 |
| 2,2,3-Trimethylpentane | 0.0371358 | 1.62151 * | 0.116201 | 16.3372 * | 0.146323 |
| 2,3,4-Trimethylpentane | 0.0536977 | 2.04941 * | 0.154991 | 20.4815 * | 0.206782 |
| 2,5-Dimethylhexane | 0 | 0 * | 0 | 0 * | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Flow | RH1 BTEX to RH1 Flare lb/h | RH1 Dehy Inlet lb/h | RH2 BTEX to RH2 TO lb/h | RH2 Dehy Inlet lb/h | RH3 BTEX to RH2 TO lb/h |
|---|---|---|---|---|---|
| 2-Methylheptane | 0.044213 | 2.3966 * | 0.115796 | 23.8451 * | 0.200387 |
| 4-Methylheptane | 0.050673 | 2.3966 * | 0.13009 | 23.8451 * | 0.22395 |
| 3,3-Dimethylhexane | 0.0121204 | 0.578037 * | 0.0281475 | 4.51975 * | 0.0576075 |
| 3-Methylheptane | 0.025872 | 1.1786 * | 0.063918 | 11.5622 * | 0.111555 |
| cis-1,2-Dimethylcyclohexane | 0.125684 | 3.19316 * | 0.226119 | 27.6577 * | 0.316744 |
| cis-1,3-Dimethylcyclohexane | 0.0115387 | 0.368725 * | 0.0363921 | 4.55799 * | 0.0651464 |
| Cyclooctane | 0 | 0 * | 0.0525584 | 0.722788 * | 0.0378933 |
| Ethylbenzene | 0.224462 | 0.540722 * | 0.322544 | 4.87057 * | 0.656949 |
| Ethylcyclohexane | 0.0381842 | 0.704264 * | 0.089009 | 8.5407 * | 0.1509 |
| m-Xylene | 0.236519 | 0.587817 * | 0.392242 | 6.20335 * | 0.687453 |
| p-Xylene | 0.224798 | 0.587817 * | 0.377097 | 6.20335 * | 0.663582 |
| n-Octane | 0.069668 | 2.93898 * | 0.180371 | 35.3772 * | 0.27974 |
| o-Xylene | 0.218726 | 0.446531 * | 0.273472 | 3.40522 * | 0.480808 |
| trans-1,3-Dimethylcyclohexane | 0.0159864 | 0.453532 * | 0.0416063 | 5.07427 * | 0.0583603 |
| 1,1,2-Trimethylcyclohexane | 0.00897522 | 0.282074 * | 0.00357884 | 0.630596 * | 0.00649054 |
| 1,2,3-Trimethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4-Trimethylbenzene | 0.0556971 | 0.106635 * | 0.0239812 | 0.695185 * | 0.0378017 |
| tert-Butylbenzene | 0.0438419 | 0.119079 * | 0.0168671 | 0.776314 * | 0.0290236 |
| 1,3,5-Trimethylbenzene | 0.158077 | 0.335702 * | 0.101219 | 3.01773 * | 0.0417488 |
| 2,2,3-Trimethylhexane | 0 | 0 * | 0.00342676 | 1.06216 * | 0.00523024 |
| 2,2,4-Trimethylhexane | 0.00771344 | 0.686946 * | 0.021912 | 6.71013 * | 0.0333645 |
| 2,2-Dimethylheptane | 0.0070784 | 0.31608 * | 0.00466496 | 1.01158 * | 0.0122546 |
| 2,3,4-Trimethylhexane | 0.00709563 | 0.219149 * | 0.0140443 | 2.36035 * | 0.0283546 |
| 2,4,4-Trimethylhexane | 0 | 0 * | 0 | 0 * | 0 |
| 2,5-Dimethylheptane | 0.00769841 | 0.307651 * | 0.0270117 | 5.41194 * | 0.0520761 |
| Isononane | 0 | 0 * | 0 | 0 * | 0.0044249 |
| 3,4-Dimethylheptane | 0 | 0 * | 0.0069657 | 1.19703 * | 0.0129262 |
| Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0.0574329 |
| 1,1,3-Trimethylcyclopentane | 0 | 0 * | 0 | 0 * | 0.0105414 |
| Methylcyclopropane | 0 | 0 * | 0 | 0 * | 0 |
| m-Ethyltoluene | 0.0381554 | 0.0908369 * | 0.0249034 | 0.710984 * | 0.0420084 |
| p-Ethyltoluene | 0.0450364 | 0.0908369 * | 0.027414 | 0.710984 * | 0.0441763 |
| n-Nonane | 0.0157166 | 0.455155 * | 0.0141649 | 3.43936 * | 0.0271489 |
| Propylbenzene | 0.0735958 | 0.173775 * | 0.0636025 | 1.81696 * | 0.0576326 |
| Propylcyclohexane | 0.00977315 | 0.120296 * | 0.00957377 | 1.21141 * | 0 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Diethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| 2-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Ethyloctane | 0 | 0 * | 0 | 0 * | 0 |
| 3-Methylnonane | 0 | 0 * | 0 | 0 * | 0 |
| 4-Methylnonane | 0.00763906 | 0.168311 * | 0 | 0 * | 0 |
| Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Butylcyclohexane | 0 | 0 * | 0 | 0 * | 0 |
| Isobutylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Naphthalene | 0.115298 | 0.185311 * | 0.0087739 | 0.808728 * | 6.02896E-05 |
| n-Decane | 0.0112433 | 0.233765 * | 0.00168791 | 0.710732 * | 0 |
| sec-Butylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Undecane | 0.0157573 | 0.236266 * | 0.00134214 | 0.760251 * | 0.0028115 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Flow | RH1 BTEX to RH1 Flare lb/h | RH1 Dehy Inlet lb/h | RH2 BTEX to RH2 TO lb/h | RH2 Dehy Inlet lb/h | RH3 BTEX to RH2 TO lb/h |
|---|---|---|---|---|---|
| Pentylbenzene | 0 | 0 * | 0 | 0 * | 0 |
| Dodecane | 0 | 0 * | 0.00134762 | 1.29869 * | 0 |
| n-Tridecane | 0.0230904 | 0.327133 * | 0.000845275 | 1.21175 * | 0.00101395 |
| n-Tetradecane | 0.0115644 | 0.254238 * | 0.00055141 | 1.46042 * | 0 |
| n-Pentadecane | 0 | 0 * | 0 | 0 * | 0 |
| H2O | 4.47126 | 0 * | 7.15721 | 0 * | 10.3046 |
| MDEA | 0.014965 | 0 * | 0.00668274 | 0 * | 0.0349138 |
| Piperazine | 0 | 0 * | 0 | 0 * | 5.20328E-08 |
| TEG | 2.51135E-10 | 0 * | 2.8092E-10 | 0 * | 3.97464E-10 |

## Stream Properties

| Property | Units | RH1 BTEX to RH1 Flare | RH1 Dehy Inlet | RH2 BTEX to RH2 TO | RH2 Dehy Inlet | RH3 BTEX to RH2 TO |
|---|---|---|---|---|---|---|
| Temperature | °F | 120 | 120 * | 120 | 120 * | 120 |
| Pressure | psig | 0 | 825 * | 0 | 875 * | 0 |
| Molecular Weight | lb/lbmol | 47.1942 | 22.9082 | 52.5633 | 21.3558 | 52.5621 |
| Mass Density | lb/ft^3 | 0.0990797 | 3.72007 | 0.110835 | 3.61748 | 0.110835 |
| Mass Flow | lb/h | 89.1983 | 75275 | 159.466 | 280730 | 229.606 |
| Std Vapor Volumetric Flow | MMSCFD | 0.0172137 | 29.9272 | 0.0276308 | 119.723 | 0.0397848 |
| Std Liquid Volumetric Flow | sgpm | 0.293676 | 408.196 | 0.516254 | 1595.69 | 0.746173 |
| Specific Gravity | | 1.62949 | 0.79096 | 1.81487 | 0.737362 | 1.81483 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 2140.29 | 1290.38 | 2729.27 | 1265.35 | 2735.52 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

## Connections

| | RH3 Dehy Inlet | RH4 BTEX to RH4 TO | RH4 Dehy Inlet | RH5 BTEX to RH5 TO | RH5 Dehy Inlet |
|---|---|---|---|---|---|
| From Block | -- | VSSL-117 | -- | VSSL-111 | -- |
| To Block | SAT-4 | -- | SAT-3 | MIX-108 | SAT-5 |

## Stream Composition

| Mole Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| Helium | 0.0151001 * | 0.000471586 | 0.0182 * | 0.000317933 | 0.0169 * |
| N2 | 3.45391 * | 0.0243117 | 2.54171 * | 0.0119755 | 1.7982 * |
| CO2 | 0.00450002 * | 0.104584 | 0.015 * | 0.214103 | 0.0421 * |
| O2 | 0.0944004 * | 0.000144303 | 0.0149 * | 3.55405E-05 | 0.00535 * |
| Argon | 0.0944004 * | 0.0049691 | 0.0149 * | 0.00129134 | 0.00535 * |
| H2S | 0 * | 0 | 0 * | 0 | 0 * |
| C1 | 75.8439 * | 9.70717 | 76.972 * | 6.23501 | 70.5279 * |
| C2 | 11.0407 * | 12.5041 | 11.5347 * | 10.6508 | 13.9686 * |
| C3 | 5.58842 * | 15.4543 | 5.47181 * | 16.6606 | 8.355 * |
| iC4 | 0.803003 * | 2.84623 | 0.720602 * | 3.24045 | 1.1613 * |
| nC4 | 1.78711 * | 11.3984 | 1.61 * | 13.311 | 2.6314 * |
| iC5 | 0.438602 * | 3.84322 | 0.359001 * | 4.28804 | 0.5463 * |
| nC5 | 0.413202 * | 5.06484 | 0.366801 * | 5.58288 | 0.5425 * |
| Neo-Pentane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,2-Dimethylbutane | 0.00436702 * | 0.0529801 | 0.00339201 * | 0.0516593 | 0.00435 * |
| 2,3-Dimethylbutane | 0.010338 * | 0.203728 | 0.00933053 * | 0.212613 | 0.012517 * |
| Cyclopentane | 0.010338 * | 0.736116 | 0.00933053 * | 0.784426 | 0.012517 * |
| i-Hexane | 0.0844903 * | 1.36508 | 0.0716822 * | 1.33567 | 0.089686 * |
| 3-Methylpentane | 0.0423132 * | 0.82823 | 0.0343491 * | 0.793289 | 0.041517 * |
| Benzene | 0.0158311 * | 7.95734 | 0.015423 * | 9.32293 | 0.020012 * |
| Cyclohexane | 0.0375281 * | 2.76612 | 0.0336081 * | 2.65078 | 0.036446 * |
| Methylcyclopentane | 0.0370371 * | 2.64674 | 0.0317701 * | 2.55821 | 0.036497 * |
| C6 | 0.0840843 * | 1.77895 | 0.0740432 * | 1.6486 | 0.084619 * |
| 1,1-Dimethylcyclopentane | 0.00540502 * | 0.384869 | 0.00451401 * | 0.311376 | 0.0038855 * |
| 3-Methylhexane | 0.00540502 * | 0.143398 | 0.00451401 * | 0.116293 | 0.0038855 * |
| 2,2-Dimethylpentane | 0.000793003 * | 0.0152219 | 0.000757002 * | 0.0111322 | 0.000651 * |
| 2,3-Dimethylpentane | 0.00263901 * | 0.0714872 | 0.00198101 * | 0.0630533 | 0.001889 * |
| 2,4-Dimethylhexane | 0.000710503 * | 0.0155949 | 0.000564502 * | 0.0124973 | 0.0004075 * |
| Ethylcyclopentane | 0.000710503 * | 0.0561962 | 0.000564502 * | 0.0441544 | 0.0004075 * |
| 2,4-Dimethylpentane | 0.000175001 * | 0.00350225 | 0.000175 * | 0.00300841 | 0.000175 * |
| i-Heptane | 0.00859403 * | 0.181508 | 0.00718502 * | 0.145649 | 0.006275 * |
| 3,3-Dimethylpentane | 0.000483002 * | 0.0119042 | 0.000345001 * | 0.0097024 | 0.000314 * |
| cis-1,3-Dimethylcyclopentane | 0.00196501 * | 0.144296 | 0.001651 * | 0.121524 | 0.0014445 * |
| 3-Ethylpentane | 0.00196501 * | 0.0621503 | 0.001651 * | 0.0519333 | 0.0014445 * |
| Cycloheptane | 4.70002E-05 * | 0.00378502 | 4.00001E-05 * | 0.00277121 | 2.3E-05 * |
| Methylcyclohexane | 0.00650369 * | 0.379031 | 0.00533401 * | 0.315808 | 0.004273 * |
| 2,2-Dimethylhexane | 0.00650369 * | 0.127356 | 0.00533401 * | 0.108547 | 0.004273 * |
| i-Octane | 0.00650369 * | 0.154668 | 0.00533401 * | 0.119184 | 0.004273 * |
| n-Heptane | 0.0157131 * | 0.411687 | 0.013235 * | 0.325386 | 0.010424 * |
| Toluene | 0.010873 * | 4.09983 | 0.00748502 * | 4.4555 | 0.006816 * |
| trans-1,2-Dimethylcyclopentane | 0.000451002 * | 0.035246 | 0.000388001 * | 0.0314898 | 0.0003565 * |
| cis-1,2-Dimethylcyclopentane | 0.000451002 * | 0.0388046 | 0.000388001 * | 0.0370594 | 0.0003565 * |
| trans-1,3-Dimethylcyclopentane | 0.00309201 * | 0.243782 | 0.00265801 * | 0.219302 | 0.002434 * |
| 1-Ethyl-1-Methylcyclopentane | 0.000358001 * | 0.0219742 | 0.000269001 * | 0.0173127 | 0.000156 * |
| 2,2,3-Trimethylpentane | 0.000927004 * | 0.0296831 | 0.000767002 * | 0.0223901 | 0.000518 * |
| 2,3,4-Trimethylpentane | 0.001236 * | 0.0415045 | 0.000996003 * | 0.0328457 | 0.00067 * |
| 2,5-Dimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylheptane | 0.00183701 * | 0.037285 | 0.0013765 * | 0.0274297 | 0.0008175 * |
| 4-Methylheptane | 0.00183701 * | 0.0420209 | 0.0013765 * | 0.0314547 | 0.0008175 * |
| 3,3-Dimethylhexane | 0.000415002 * | 0.0103032 | 0.000302001 * | 0.00720385 | 0.000184 * |
| 3-Methylheptane | 0.000904003 * | 0.0213269 | 0.000687002 * | 0.0146491 | 0.000368 * |
| cis-1,2-Dimethylcyclohexane | 0.00178101 * | 0.0683193 | 0.001454 * | 0.0582742 | 0.000834 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| cis-1,3-Dimethylcyclohexane | 0.000374001 * | 0.0114026 | 0.000255001 * | 0.00576691 | 0.0001 * |
| Cyclooctane | 3.70001E-05 * | 0.0414595 | 0.0001 * | 0 | 0 * |
| Ethylbenzene | 0.000528002 * | 0.12035 | 0.000315001 * | 0.124575 | 0.000175 * |
| Ethylcyclohexane | 0.000676003 * | 0.0298954 | 0.000496001 * | 0.020489 | 0.000216 * |
| m-Xylene | 0.000583502 * | 0.132772 | 0.000364501 * | 0.138122 | 0.000201 * |
| p-Xylene | 0.000583502 * | 0.127552 | 0.000364501 * | 0.131444 | 0.000201 * |
| n-Octane | 0.00245801 * | 0.0549022 | 0.00187801 * | 0.0374405 | 0.000898 * |
| o-Xylene | 0.000336001 * | 0.0963508 | 0.000209001 * | 0.110535 | 0.000129 * |
| trans-1,3-Dimethylcyclohexane | 0.000327001 * | 0.0127746 | 0.000275001 * | 0.00927508 | 0.000145 * |
| 1,1,2-Trimethylcyclohexane | 4.60002E-05 * | 0.00145748 | 4.40001E-05 * | 0.00211798 | 3.9E-05 * |
| 1,2,3-Trimethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4-Trimethylbenzene | 5.70002E-05 * | 0.00637248 | 3.00001E-05 * | 0 | 0 * |
| tert-Butylbenzene | 5.70002E-05 * | 0.0040503 | 3.00001E-05 * | 0 | 0 * |
| 1,3,5-Trimethylbenzene | 6.20002E-05 * | 0.0105339 | 5.10001E-05 * | 0 | 0 * |
| 2,2,3-Trimethylhexane | 6.30002E-05 * | 0.000955702 | 5.30001E-05 * | 0 | 0 * |
| 2,2,4-Trimethylhexane | 0.000396002 * | 0.0054139 | 0.000302001 * | 0.00340333 | 0.000167 * |
| 2,2-Dimethylheptane | 0.000105 * | 0.00172984 | 6.50002E-05 * | 0 | 0 * |
| 2,3,4-Trimethylhexane | 0.000191001 * | 0.00413848 | 0.000119 * | 0.0025398 | 4.6E-05 * |
| 2,4,4-Trimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,5-Dimethylheptane | 0.000414002 * | 0.00670831 | 0.000232001 * | 0.00307418 | 7.1E-05 * |
| Isononane | 3.80001E-05 * | 0 | 0 * | 0 | 0 * |
| 3,4-Dimethylheptane | 8.90003E-05 * | 0.00201856 | 5.90002E-05 * | 0 | 0 * |
| Isopropylbenzene | 7.35003E-05 * | 0.0217267 | 9.80003E-05 * | 0 | 0 * |
| 1,1,3-Trimethylcyclopentane | 7.35003E-05 * | 0.00332382 | 9.80003E-05 * | 0 | 0 * |
| Methylcyclopropane | 0 * | 0 | 0 * | 0 | 0 * |
| m-Ethyltoluene | 5.75002E-05 * | 0.00590128 | 2.75001E-05 * | 0 | 0 * |
| p-Ethyltoluene | 5.75002E-05 * | 0.00650144 | 2.75001E-05 * | 0 | 0 * |
| n-Nonane | 0.000262001 * | 0.00485224 | 0.000194001 * | 0 | 0 * |
| Propylbenzene | 7.90003E-05 * | 0.0237916 | 0.000111 * | 0.024461 | 4.3E-05 * |
| Propylcyclohexane | 0 * | 0 | 0 * | 0.00218619 | 1.9E-05 * |
| 1,2,3,4-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,3,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-3-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-4-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Dimethyl-2-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Dimethyl-2-ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Propylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-3-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-4-isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Ethyloctane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 4-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Butylcyclohexane | 0 * | 0 | 0 * | 0 | 0 * |
| Isobutylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Naphthalene | 0 * | 0.00387926 | 5.80002E-05 * | 0 | 0 * |
| n-Decane | 0 * | 0 | 0 * | 0 | 0 * |
| sec-Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Undecane | 5.10002E-05 * | 0.000485933 | 4.20001E-05 * | 0 | 0 * |
| Pentylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Dodecane | 0 * | 0.000449037 | 6.50002E-05 * | 0 | 0 * |
| n-Tridecane | 4.10002E-05 * | 0.000537984 | 0.000114 * | 0.00100111 | 4.4E-05 * |
| n-Tetradecane | 0 * | 0 | 0 * | 0.000495404 | 4.1E-05 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

## Stream Composition

| Mole Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| n-Pentadecane | 0 * | 0 | 0 * | 0 | 0 * |
| H2O | 0 * | 13.099 | 0 * | 13.0906 | 0 * |
| MDEA | 0 * | 0.0139212 | 0 * | 0.0208574 | 0 * |
| Piperazine | 0 * | 3.73734E-08 | 0 * | 1.67499E-08 | 0 * |
| TEG | 0 * | 6.29377E-11 | 0 * | 6.03481E-11 | 0 * |

| Mass Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| Helium | 0.00281298 * | 3.65729E-05 | 0.00344307 * | 2.37636E-05 | 0.00293284 * |
| N2 | 4.50322 * | 0.0131958 | 3.36529 * | 0.00626462 | 2.18405 * |
| CO2 | 0.00921736 * | 0.0891804 | 0.0312011 * | 0.175956 | 0.0803317 * |
| O2 | 0.14059 * | 8.94677E-05 | 0.0225347 * | 2.12369E-05 | 0.00742243 * |
| Argon | 0.175515 * | 0.00384618 | 0.0281328 * | 0.000963315 | 0.00926632 * |
| H2S | 0 * | 0 | 0 * | 0 | 0 * |
| C1 | 56.6288 * | 3.01731 | 58.3626 * | 1.86785 | 49.0558 * |
| C2 | 15.4513 * | 7.28498 | 16.393 * | 5.98049 | 18.2109 * |
| C3 | 11.4691 * | 13.2039 | 11.404 * | 13.7189 | 15.9735 * |
| iC4 | 2.17223 * | 3.2053 | 1.97956 * | 3.51707 | 2.92648 * |
| nC4 | 4.83435 * | 12.8364 | 4.42283 * | 14.4473 | 6.63113 * |
| iC5 | 1.4728 * | 5.37255 | 1.22421 * | 5.77725 | 1.70891 * |
| nC5 | 1.38751 * | 7.08028 | 1.25081 * | 7.52179 | 1.69702 * |
| Neo-Pentane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,2-Dimethylbutane | 0.0175152 * | 0.0884611 | 0.0138156 * | 0.0831315 | 0.0162529 * |
| 2,3-Dimethylbutane | 0.0414636 * | 0.340165 | 0.0380032 * | 0.342142 | 0.0467673 * |
| Cyclopentane | 0.0337447 * | 1.00029 | 0.0309285 * | 1.02732 | 0.038061 * |
| i-Hexane | 0.338872 * | 2.27929 | 0.291961 * | 2.14939 | 0.335094 * |
| 3-Methylpentane | 0.169709 * | 1.3829 | 0.139904 * | 1.27658 | 0.15512 * |
| Benzene | 0.0575536 * | 12.0432 | 0.05694 * | 13.5989 | 0.0677744 * |
| Cyclohexane | 0.146996 * | 4.51055 | 0.133683 * | 4.16592 | 0.132988 * |
| Methylcyclopentane | 0.145073 * | 4.31589 | 0.126372 * | 4.02044 | 0.133174 * |
| C6 | 0.337244 * | 2.97031 | 0.301578 * | 2.65297 | 0.316162 * |
| 1,1-Dimethylcyclopentane | 0.0246998 * | 0.732181 | 0.020948 * | 0.570913 | 0.0165408 * |
| 3-Methylhexane | 0.0252069 * | 0.278404 | 0.0213781 * | 0.217602 | 0.0168804 * |
| 2,2-Dimethylpentane | 0.00369826 * | 0.029553 | 0.00358512 * | 0.0208301 | 0.00282824 * |
| 2,3-Dimethylpentane | 0.0123073 * | 0.138791 | 0.00938194 * | 0.117983 | 0.00820667 * |
| 2,4-Dimethylhexane | 0.00377734 * | 0.0345155 | 0.00304769 * | 0.0266577 | 0.00201818 * |
| Ethylcyclopentane | 0.00324684 * | 0.106909 | 0.00261966 * | 0.0809576 | 0.00173475 * |
| 2,4-Dimethylpentane | 0.000816135 * | 0.00679953 | 0.000828793 * | 0.00562921 | 0.000760279 * |
| i-Heptane | 0.0400792 * | 0.352394 | 0.0340279 * | 0.272533 | 0.0272614 * |
| 3,3-Dimethylpentane | 0.00225253 * | 0.0231118 | 0.00163391 * | 0.0181547 | 0.00136416 * |
| cis-1,3-Dimethylcyclopentane | 0.00897966 * | 0.274512 | 0.00766176 * | 0.222816 | 0.0061493 * |
| 3-Ethylpentane | 0.00916402 * | 0.120663 | 0.00781907 * | 0.0971754 | 0.00627556 * |
| Cycloheptane | 0.000214781 * | 0.00720069 | 0.000185627 * | 0.00508105 | 9.79121E-05 * |
| Methylcyclohexane | 0.0297205 * | 0.721075 | 0.0247534 * | 0.579037 | 0.0181904 * |
| 2,2-Dimethylhexane | 0.0345765 * | 0.281871 | 0.0287978 * | 0.23154 | 0.0211625 * |
| i-Octane | 0.0345765 * | 0.342318 | 0.0287978 * | 0.254231 | 0.0211625 * |
| n-Heptane | 0.0732796 * | 0.799282 | 0.0626804 * | 0.608848 | 0.0452865 * |
| Toluene | 0.046627 * | 7.31918 | 0.032596 * | 7.66604 | 0.0272288 * |
| trans-1,2-Dimethylcyclopentane | 0.00206098 * | 0.0670527 | 0.00180058 * | 0.0577369 | 0.00151764 * |
| cis-1,2-Dimethylcyclopentane | 0.00206098 * | 0.0738226 | 0.00180058 * | 0.0679488 | 0.00151764 * |
| trans-1,3-Dimethylcyclopentane | 0.0141298 * | 0.463776 | 0.0123349 * | 0.402093 | 0.0103617 * |
| 1-Ethyl-1-Methylcyclopentane | 0.0018697 * | 0.0477762 | 0.00142668 * | 0.0362777 | 0.000758971 * |
| 2,2,3-Trimethylpentane | 0.00492835 * | 0.0656962 | 0.00414097 * | 0.0477601 | 0.00256545 * |
| 2,3,4-Trimethylpentane | 0.00657114 * | 0.0918598 | 0.00537732 * | 0.0700628 | 0.00331824 * |
| 2,5-Dimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylheptane | 0.00976633 * | 0.082521 | 0.00743161 * | 0.0585098 | 0.00404875 * |
| 4-Methylheptane | 0.00976633 * | 0.0930028 | 0.00743161 * | 0.0670956 | 0.00404875 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| 3,3-Dimethylhexane | 0.00220633 * | 0.0228035 | 0.00163047 * | 0.0153664 | 0.000911278 * |
| 3-Methylheptane | 0.00480608 * | 0.0472019 | 0.00370905 * | 0.0312478 | 0.00182256 * |
| cis-1,2-Dimethylcyclohexane | 0.00930151 * | 0.148539 | 0.00771149 * | 0.12211 | 0.00405757 * |
| cis-1,3-Dimethylcyclohexane | 0.00195326 * | 0.0247914 | 0.00135243 * | 0.0120842 | 0.00048652 * |
| Cyclooctane | 0.000193237 * | 0.0901408 | 0.000530364 * | 0 | 0 * |
| Ethylbenzene | 0.00260893 * | 0.247562 | 0.00158061 * | 0.246971 | 0.000805523 * |
| Ethylcyclohexane | 0.0035305 * | 0.0649983 | 0.0026306 * | 0.0429336 | 0.00105088 * |
| m-Xylene | 0.00288317 * | 0.273113 | 0.00182899 * | 0.273828 | 0.000925201 * |
| p-Xylene | 0.00288317 * | 0.262376 | 0.00182899 * | 0.260588 | 0.000925201 * |
| n-Octane | 0.0130678 * | 0.121512 | 0.0101392 * | 0.0798639 | 0.00444743 * |
| o-Xylene | 0.00166023 * | 0.198195 | 0.00104872 * | 0.219136 | 0.000593786 * |
| trans-1,3-Dimethylcyclohexane | 0.0017078 * | 0.0277745 | 0.0014585 * | 0.0194354 | 0.000705454 * |
| 1,1,2-Trimethylcyclohexane | 0.000270271 * | 0.00356494 | 0.00026253 * | 0.00499286 | 0.000213461 * |
| 1,2,3-Trimethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4-Trimethylbenzene | 0.000318857 * | 0.0148402 | 0.000170423 * | 0 | 0 * |
| tert-Butylbenzene | 0.000356069 * | 0.0105331 | 0.000190311 * | 0 | 0 * |
| 1,3,5-Trimethylbenzene | 0.000346827 * | 0.0245312 | 0.000289718 * | 0 | 0 * |
| 2,2,3-Trimethylhexane | 0.000376065 * | 0.00237494 | 0.000321279 * | 0 | 0 * |
| 2,2,4-Trimethylhexane | 0.00236384 * | 0.0134537 | 0.00183068 * | 0.00815102 | 0.000928645 * |
| 2,2-Dimethylheptane | 0.000626775 * | 0.00429868 | 0.000394021 * | 0 | 0 * |
| 2,3,4-Trimethylhexane | 0.00114013 * | 0.0102842 | 0.000721362 * | 0.00608286 | 0.000255794 * |
| 2,4,4-Trimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,5-Dimethylheptane | 0.00247128 * | 0.0166703 | 0.00140635 * | 0.00736272 | 0.000394813 * |
| Isononane | 0.000226833 * | 0 | 0 * | 0 | 0 * |
| 3,4-Dimethylheptane | 0.000531266 * | 0.00501618 | 0.00035765 * | 0 | 0 * |
| Isopropylbenzene | 0.000411158 * | 0.050597 | 0.000556714 * | 0 | 0 * |
| 1,1,3-Trimethylcyclopentane | 0.000383863 * | 0.00722661 | 0.000519756 * | 0 | 0 * |
| Methylcyclopropane | 0 * | 0 | 0 * | 0 | 0 * |
| m-Ethyltoluene | 0.000321654 * | 0.0137428 | 0.000156221 * | 0 | 0 * |
| p-Ethyltoluene | 0.000321654 * | 0.0151405 | 0.000156221 * | 0 | 0 * |
| n-Nonane | 0.00156395 * | 0.0120579 | 0.001176 * | 0 | 0 * |
| Propylbenzene | 0.000441925 * | 0.0554056 | 0.000630564 * | 0.0549012 | 0.000224079 * |
| Propylcyclohexane | 0 * | 0 | 0 * | 0.00515366 | 0.000103994 * |
| 1,2,3,4-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,3,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-3-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-4-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Dimethyl-2-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Dimethyl-2-ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Propylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-3-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-4-isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Ethyloctane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 4-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Butylcyclohexane | 0 * | 0 | 0 * | 0 | 0 * |
| Isobutylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Naphthalene | 0 * | 0.0096337 | 0.000351357 * | 0 | 0 * |
| n-Decane | 0 * | 0 | 0 * | 0 | 0 * |
| sec-Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Undecane | 0.000371022 * | 0.00147168 | 0.000310287 * | 0 | 0 * |
| Pentylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Dodecane | 0 * | 0.00148198 | 0.000523298 * | 0 | 0 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Fraction | RH3 Dehy Inlet % | RH4 BTEX to RH4 TO % | RH4 Dehy Inlet % | RH5 BTEX to RH5 TO % | RH5 Dehy Inlet % |
|---|---|---|---|---|---|
| n-Tridecane | 0.000351805 * | 0.00192174 | 0.00099336 * | 0.00344657 | 0.000351707 * |
| n-Tetradecane | 0 * | 0 | 0 * | 0.00183531 | 0.000352661 * |
| n-Pentadecane | 0 * | 0 | 0 * | 0 | 0 * |
| H2O | 0 * | 4.57231 | 0 * | 4.40386 | 0 * |
| MDEA | 0 * | 0.032142 | 0 * | 0.0464123 | 0 * |
| Piperazine | 0 * | 6.23737E-08 | 0 * | 2.6942E-08 | 0 * |
| TEG | 0 * | 1.8313E-10 | 0 * | 1.69235E-10 | 0 * |

| Mass Flow | RH3 Dehy Inlet lb/h | RH4 BTEX to RH4 TO lb/h | RH4 Dehy Inlet lb/h | RH5 BTEX to RH5 TO lb/h | RH5 Dehy Inlet lb/h |
|---|---|---|---|---|---|
| Helium | 7.94496 * | 5.4235E-05 | 9.57604 * | 6.75234E-05 | 8.89224 * |
| N2 | 12718.8 * | 0.0195685 | 9359.71 * | 0.0178007 | 6621.95 * |
| CO2 | 26.0334 * | 0.132248 | 86.7781 * | 0.499971 | 243.563 * |
| O2 | 397.08 * | 0.000132674 | 62.6747 * | 6.03438E-05 | 22.5045 * |
| Argon | 495.723 * | 0.00570361 | 78.2445 * | 0.00273723 | 28.0951 * |
| H2S | 0 * | 0 | 0 * | 0 | 0 * |
| C1 | 159942 * | 4.47446 | 162321 * | 5.30743 | 148735 * |
| C2 | 43640.4 * | 10.8031 | 45593 * | 16.9934 | 55214.7 * |
| C3 | 32393.3 * | 19.5804 | 31717.4 * | 38.9819 | 48431 * |
| iC4 | 6135.21 * | 4.75323 | 5505.65 * | 9.99364 | 8872.96 * |
| nC4 | 13654.1 * | 19.0354 | 12301 * | 41.0516 | 20105.3 * |
| iC5 | 4159.77 * | 7.96711 | 3404.83 * | 16.4159 | 5181.34 * |
| nC5 | 3918.87 * | 10.4996 | 3478.81 * | 21.3729 | 5145.3 * |
| Neo-Pentane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,2-Dimethylbutane | 49.4696 * | 0.131182 | 38.4248 * | 0.236215 | 49.2781 * |
| 2,3-Dimethylbutane | 117.109 * | 0.504441 | 105.696 * | 0.972184 | 141.796 * |
| Cyclopentane | 95.3082 * | 1.48335 | 86.0199 * | 2.91911 | 115.4 * |
| i-Hexane | 957.107 * | 3.38002 | 812.018 * | 6.10741 | 1015.99 * |
| 3-Methylpentane | 479.324 * | 2.05074 | 389.107 * | 3.62736 | 470.317 * |
| Benzene | 162.554 * | 17.8592 | 158.365 * | 38.6407 | 205.489 * |
| Cyclohexane | 415.174 * | 6.68883 | 371.807 * | 11.8373 | 403.213 * |
| Methylcyclopentane | 409.742 * | 6.40017 | 351.474 * | 11.4239 | 403.778 * |
| C6 | 952.508 * | 4.40476 | 838.763 * | 7.53833 | 958.59 * |
| 1,1-Dimethylcyclopentane | 69.7618 * | 1.08577 | 58.2618 * | 1.62223 | 50.1509 * |
| 3-Methylhexane | 71.1941 * | 0.412853 | 59.458 * | 0.618308 | 51.1806 * |
| 2,2-Dimethylpentane | 10.4453 * | 0.043825 | 9.97113 * | 0.0591879 | 8.5751 * |
| 2,3-Dimethylpentane | 34.7606 * | 0.205817 | 26.0935 * | 0.335243 | 24.8823 * |
| 2,4-Dimethylhexane | 10.6687 * | 0.0511841 | 8.47639 * | 0.075747 | 6.11905 * |
| Ethylcyclopentane | 9.17035 * | 0.158538 | 7.28595 * | 0.230038 | 5.25968 * |
| 2,4-Dimethylpentane | 2.30508 * | 0.0100832 | 2.30508 * | 0.0159952 | 2.30513 * |
| i-Heptane | 113.199 * | 0.522576 | 94.6401 * | 0.774393 | 82.6555 * |
| 3,3-Dimethylpentane | 6.36202 * | 0.0342731 | 4.54431 * | 0.0515859 | 4.13607 * |
| cis-1,3-Dimethylcyclopentane | 25.3621 * | 0.407082 | 21.3093 * | 0.633123 | 18.6444 * |
| 3-Ethylpentane | 25.8828 * | 0.178935 | 21.7468 * | 0.27612 | 19.0272 * |
| Cycloheptane | 0.606624 * | 0.0106781 | 0.516276 * | 0.0144376 | 0.296865 * |
| Methylcyclohexane | 83.9422 * | 1.0693 | 68.8454 * | 1.64531 | 55.1524 * |
| 2,2-Dimethylhexane | 97.6573 * | 0.417995 | 80.094 * | 0.657911 | 64.1637 * |
| i-Octane | 97.6573 * | 0.507634 | 80.094 * | 0.722387 | 64.1637 * |
| n-Heptane | 206.97 * | 1.18528 | 174.33 * | 1.73002 | 137.307 * |
| Toluene | 131.693 * | 10.8538 | 90.6578 * | 21.7828 | 82.5567 * |
| trans-1,2-Dimethylcyclopentane | 5.82101 * | 0.0994345 | 5.00788 * | 0.164057 | 4.60141 * |
| cis-1,2-Dimethylcyclopentane | 5.82101 * | 0.109474 | 5.00788 * | 0.193074 | 4.60141 * |
| trans-1,3-Dimethylcyclopentane | 39.9081 * | 0.687748 | 34.3066 * | 1.14253 | 31.4161 * |
| 1-Ethyl-1-Methylcyclopentane | 5.28077 * | 0.0708488 | 3.96795 * | 0.103082 | 2.30117 * |
| 2,2,3-Trimethylpentane | 13.9196 * | 0.0974229 | 11.5171 * | 0.135709 | 7.77833 * |
| 2,3,4-Trimethylpentane | 18.5595 * | 0.136222 | 14.9557 * | 0.199081 | 10.0608 * |
| 2,5-Dimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylheptane | 27.5839 * | 0.122373 | 20.6692 * | 0.166254 | 12.2756 * |
| 4-Methylheptane | 27.5839 * | 0.137917 | 20.6692 * | 0.19065 | 12.2756 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Flow | RH3 Dehy Inlet lb/h | RH4 BTEX to RH4 TO lb/h | RH4 Dehy Inlet lb/h | RH5 BTEX to RH5 TO lb/h | RH5 Dehy Inlet lb/h |
|---|---|---|---|---|---|
| 3,3-Dimethylhexane | 6.23153 * | 0.033816 | 4.53476 * | 0.0436632 | 2.76296 * |
| 3-Methylheptane | 13.5742 * | 0.0699971 | 10.3158 * | 0.0887894 | 5.52592 * |
| cis-1,2-Dimethylcyclohexane | 26.2711 * | 0.220273 | 21.4476 * | 0.346972 | 12.3024 * |
| cis-1,3-Dimethylcyclohexane | 5.51678 * | 0.0367639 | 3.76144 * | 0.0343369 | 1.47511 * |
| Cyclooctane | 0.545777 * | 0.133673 | 1.47508 * | 0 | 0 * |
| Ethylbenzene | 7.36864 * | 0.367117 | 4.39607 * | 0.701758 | 2.44231 * |
| Ethylcyclohexane | 9.9715 * | 0.096388 | 7.31637 * | 0.121994 | 3.18623 * |
| m-Xylene | 8.14319 * | 0.405008 | 5.08688 * | 0.778073 | 2.80517 * |
| p-Xylene | 8.14319 * | 0.389085 | 5.08688 * | 0.740452 | 2.80517 * |
| n-Octane | 36.9087 * | 0.180194 | 28.1996 * | 0.22693 | 13.4844 * |
| o-Xylene | 4.68913 * | 0.293909 | 2.91676 * | 0.622667 | 1.80033 * |
| trans-1,3-Dimethylcyclohexane | 4.82349 * | 0.0411876 | 4.05646 * | 0.055225 | 2.13891 * |
| 1,1,2-Trimethylcyclohexane | 0.763351 * | 0.00528656 | 0.730162 * | 0.014187 | 0.647203 * |
| 1,2,3-Trimethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4-Trimethylbenzene | 0.900577 * | 0.0220069 | 0.473988 * | 0 | 0 * |
| tert-Butylbenzene | 1.00568 * | 0.0156198 | 0.529304 * | 0 | 0 * |
| 1,3,5-Trimethylbenzene | 0.979575 * | 0.036378 | 0.80578 * | 0 | 0 * |
| 2,2,3-Trimethylhexane | 1.06215 * | 0.00352187 | 0.893558 * | 0 | 0 * |
| 2,2,4-Trimethylhexane | 6.67639 * | 0.0199509 | 5.0916 * | 0.0231608 | 2.81561 * |
| 2,2-Dimethylheptane | 1.77026 * | 0.00637465 | 1.09587 * | 0 | 0 * |
| 2,3,4-Trimethylhexane | 3.22018 * | 0.0152508 | 2.00629 * | 0.0172842 | 0.775558 * |
| 2,4,4-Trimethylhexane | 0 * | 0 | 0 * | 0 | 0 * |
| 2,5-Dimethylheptane | 6.97987 * | 0.0247209 | 3.91142 * | 0.0209209 | 1.19706 * |
| Isononane | 0.640664 * | 0 | 0 * | 0 | 0 * |
| 3,4-Dimethylheptane | 1.5005 * | 0.00743865 | 0.994716 * | 0 | 0 * |
| Isopropylbenzene | 1.16127 * | 0.0750318 | 1.54836 * | 0 | 0 * |
| 1,1,3-Trimethylcyclopentane | 1.08418 * | 0.0107166 | 1.44557 * | 0 | 0 * |
| Methylcyclopropane | 0 * | 0 | 0 * | 0 | 0 * |
| m-Ethyltoluene | 0.908477 * | 0.0203797 | 0.434489 * | 0 | 0 * |
| p-Ethyltoluene | 0.908477 * | 0.0224523 | 0.434489 * | 0 | 0 * |
| n-Nonane | 4.41721 * | 0.0178811 | 3.27076 * | 0 | 0 * |
| Propylbenzene | 1.24817 * | 0.0821626 | 1.75376 * | 0.156 | 0.679398 * |
| Propylcyclohexane | 0 * | 0 | 0 * | 0.0146439 | 0.315304 * |
| 1,2,3,4-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,3,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2,4,5-Tetramethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-3-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,2-Dimethyl-4-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,3-Dimethyl-2-Ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Diethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1,4-Dimethyl-2-ethylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-2-Propylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-3-Isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 1-Methyl-4-isopropylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| 2-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Ethyloctane | 0 * | 0 | 0 * | 0 | 0 * |
| 3-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| 4-Methylnonane | 0 * | 0 | 0 * | 0 | 0 * |
| Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Butylcyclohexane | 0 * | 0 | 0 * | 0 | 0 * |
| Isobutylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Naphthalene | 0 * | 0.0142861 | 0.977211 * | 0 | 0 * |
| n-Decane | 0 * | 0 | 0 * | 0 | 0 * |
| sec-Butylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Undecane | 1.04791 * | 0.0021824 | 0.862986 * | 0 | 0 * |
| Pentylbenzene | 0 * | 0 | 0 * | 0 | 0 * |
| Dodecane | 0 * | 0.00219767 | 1.45542 * | 0 | 0 * |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Flow | RH3 Dehy Inlet lb/h | RH4 BTEX to RH4 TO lb/h | RH4 Dehy Inlet lb/h | RH5 BTEX to RH5 TO lb/h | RH5 Dehy Inlet lb/h |
|---|---|---|---|---|---|
| n-Tridecane | 0.993633 * | 0.00284981 | 2.76279 * | 0.00979329 | 1.06636 * |
| n-Tetradecane | 0 * | 0 | 0 * | 0.00521496 | 1.06925 * |
| n-Pentadecane | 0 * | 0 | 0 * | 0 | 0 * |
| H2O | 0 * | 6.78041 | 0 * | 12.5134 | 0 * |
| MDEA | 0 * | 0.0476643 | 0 * | 0.131879 | 0 * |
| Piperazine | 0 * | 9.24958E-08 | 0 * | 7.65546E-08 | 0 * |
| TEG | 0 * | 2.71569E-10 | 0 * | 4.80875E-10 | 0 * |

## Stream Properties

| Property | Units | RH3 Dehy Inlet | RH4 BTEX to RH4 TO | RH4 Dehy Inlet | RH5 BTEX to RH5 TO | RH5 Dehy Inlet |
|---|---|---|---|---|---|---|
| Temperature | °F | 120 * | 120 | 120 * | 120 | 120 * |
| Pressure | psig | 875 * | 0 | 875 * | 0 | 875 * |
| Molecular Weight | lb/lbmol | 21.4859 | 51.6112 | 21.1577 | 53.5508 | 23.0644 |
| Mass Density | lb/ft^3 | 3.61622 | 0.10877 | 3.55616 | 0.112988 | 4.06875 |
| Mass Flow | lb/h | 282439 | 148.293 | 278125 | 284.146 | 303196 |
| Std Vapor Volumetric Flow | MMSCFD | 119.723 | 0.0261688 | 119.723 | 0.0483262 | 119.726 |
| Std Liquid Volumetric Flow | sgpm | 1580.23 | 0.485064 | 1582.27 | 0.910347 | 1655.76 |
| Specific Gravity | | 0.741853 | 1.782 | 0.730522 | 1.84897 | 0.796353 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1240.92 | 2681.72 | 1241.56 | 2773.78 | 1355.85 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

## Connections

| | RH6 BTEX to RH5 TO | RH6 Dehy Inlet | 30 | 62 | 96 |
|---|---|---|---|---|---|
| From Block | VSSL-2811 | -- | PCV-2101B | VLVE-102 | VLVE-108 |
| To Block | MIX-108 | SAT-6 | -- | -- | -- |

## Stream Composition

| Mole Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|---|
| Helium | 0.000238306 | 0.0139 | * | 0.00576795 | 0.00574984 | 0.00446382 |
| N2 | 0.0113536 | 1.82301 | * | 0.373374 | 0.741304 | 0.288249 |
| CO2 | 18.7447 | 3.76381 | * | 0.0751873 | 0.018744 | 8.12323 |
| O2 | 2.18791E-05 | 0.00350001 | * | 0.0013796 | 0.0198868 | 0.000946596 |
| Argon | 0.000805107 | 0.00350001 | * | 0.00795782 | 0.11576 | 0.00520159 |
| H2S | 0.0042651 | 0.0001 | * | 0 | 0 | 0.0138639 |
| C1 | 6.32074 | 74.4862 | * | 54.689 | 54.7988 | 48.1791 |
| C2 | 8.55584 | 11.2202 | * | 20.2276 | 19.4288 | 20.7934 |
| C3 | 10.9527 | 5.33162 | * | 13.2455 | 13.2724 | 13.6982 |
| iC4 | 2.06992 | 0.705002 | * | 1.84934 | 1.96534 | 1.81572 |
| nC4 | 8.43163 | 1.57881 | * | 5.11867 | 5.29534 | 4.63182 |
| iC5 | 2.96752 | 0.353901 | * | 1.13586 | 1.27098 | 0.834228 |
| nC5 | 3.97922 | 0.361101 | * | 1.27864 | 1.29957 | 0.844362 |
| Neo-Pentane | 0 | 0 | * | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0.0462086 | 0.00361601 | * | 0.012333 | 0.0129407 | 0.00685244 |
| 2,3-Dimethylbutane | 0.166197 | 0.00916703 | * | 0.0337082 | 0.032236 | 0.0168125 |
| Cyclopentane | 0.603876 | 0.00916703 | * | 0.0495638 | 0.0463629 | 0.022054 |
| i-Hexane | 1.11217 | 0.0698692 | * | 0.252011 | 0.252374 | 0.129346 |
| 3-Methylpentane | 0.676071 | 0.0333551 | * | 0.130104 | 0.132148 | 0.0610125 |
| Benzene | 7.98903 | 0.0174661 | * | 0.0920494 | 0.0752392 | 0.0306975 |
| Cyclohexane | 2.51546 | 0.0341291 | * | 0.161118 | 0.142314 | 0.0539232 |
| Methylcyclopentane | 2.29652 | 0.0315801 | * | 0.170908 | 0.149973 | 0.0637593 |
| C6 | 1.47312 | 0.0716463 | * | 0.27554 | 0.255881 | 0.118777 |
| 1,1-Dimethylcyclopentane | 0.346627 | 0.00435352 | * | 0.0216325 | 0.0193846 | 0.00587357 |
| 3-Methylhexane | 0.129418 | 0.00435352 | * | 0.0175716 | 0.015941 | 0.00506394 |
| 2,2-Dimethylpentane | 0.0114345 | 0.000641002 | * | 0.0026739 | 0.00223855 | 0.000928026 |
| 2,3-Dimethylpentane | 0.062886 | 0.00188701 | * | 0.00715569 | 0.00804067 | 0.00227644 |
| 2,4-Dimethylhexane | 0.0152381 | 0.000539002 | * | 0.00189752 | 0.00186524 | 0.000455632 |
| Ethylcyclopentane | 0.0541169 | 0.000539002 | * | 0.00247773 | 0.00239786 | 0.000557651 |
| 2,4-Dimethylpentane | 0.00257361 | 0.000144001 | * | 0.000553392 | 0.000491782 | 0.000190799 |
| i-Heptane | 0.161539 | 0.00690002 | * | 0.0268086 | 0.0243877 | 0.00798688 |
| 3,3-Dimethylpentane | 0.0113582 | 0.000363001 | * | 0.00152991 | 0.00148256 | 0.000469674 |
| cis-1,3-Dimethylcyclopentane | 0.129432 | 0.00156401 | * | 0.00827586 | 0.00696388 | 0.00236562 |
| 3-Ethylpentane | 0.0553252 | 0.00156401 | * | 0.00698039 | 0.00593388 | 0.00209894 |
| Cycloheptane | 0.00380462 | 3.80001E-05 | * | 0.000202944 | 0.000154635 | 0 |
| Methylcyclohexane | 0.370662 | 0.00530302 | * | 0.0232308 | 0.0212079 | 0.00589864 |
| 2,2-Dimethylhexane | 0.12732 | 0.00530302 | * | 0.0181164 | 0.016786 | 0.00485872 |
| i-Octane | 0.145998 | 0.00530302 | * | 0.0190257 | 0.0175245 | 0.00505709 |
| n-Heptane | 0.382035 | 0.01267 | * | 0.049916 | 0.0447957 | 0.0128761 |
| Toluene | 4.53702 | 0.00827003 | * | 0.0383842 | 0.0426535 | 0.00894583 |
| trans-1,2-Dimethylcyclopentane | 0.0333886 | 0.000386501 | * | 0.0020223 | 0.00160023 | 0.000555419 |
| cis-1,2-Dimethylcyclopentane | 0.0380434 | 0.000386501 | * | 0.00197675 | 0.00156229 | 0.000539544 |
| trans-1,3-Dimethylcyclopentane | 0.227778 | 0.00259601 | * | 0.0139824 | 0.0109823 | 0.00388217 |
| 1-Ethyl-1-Methylcyclopentane | 0.022013 | 0.000243001 | * | 0.000974394 | 0.0010454 | 0.000274838 |
| 2,2,3-Trimethylpentane | 0.0283339 | 0.000719003 | * | 0.00303255 | 0.00257814 | 0.000711568 |
| 2,3,4-Trimethylpentane | 0.0398411 | 0.000918003 | * | 0.00379366 | 0.00342401 | 0.000889771 |
| 2,5-Dimethylhexane | 0 | 0 | * | 0 | 0 | 0 |
| 2-Methylheptane | 0.0362184 | 0.0012415 | * | 0.00400992 | 0.0046407 | 0.000960673 |
| 4-Methylheptane | 0.0410079 | 0.0012415 | * | 0.00410922 | 0.00474259 | 0.000973328 |
| 3,3-Dimethylhexane | 0.00892925 | 0.000253001 | * | 0.000812302 | 0.00111866 | 0.000246489 |
| 3-Methylheptane | 0.0199917 | 0.000591002 | * | 0.00198613 | 0.00232615 | 0.000476773 |
| cis-1,2-Dimethylcyclohexane | 0.0728631 | 0.001342 | * | 0.00477637 | 0.00452317 | 0.00129079 |

* User Specified Values
? Extrapolated or Approximate Values


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|
| cis-1,3-Dimethylcyclohexane | 0.0102021 | 0.000209001 * | 0.00081098 | 0.000979723 | 0.000155008 |
| Cyclooctane | 0.0313967 | 8.70003E-05 * | 0.000120714 | 7.08311E-05 | 0 |
| Ethylbenzene | 0.148027 | 0.000337001 * | 0.00120082 | 0.00168551 | 0.000262976 |
| Ethylcyclohexane | 0.0315321 | 0.000446002 * | 0.00151782 | 0.00175221 | 0.000287756 |
| m-Xylene | 0.161823 | 0.000384001 * | 0.00143064 | 0.00175074 | 0.000270391 |
| p-Xylene | 0.156 | 0.000384001 * | 0.00144599 | 0.00177978 | 0.000275257 |
| n-Octane | 0.0538876 | 0.00161701 * | 0.00585442 | 0.00608821 | 0.00113961 |
| o-Xylene | 0.125517 | 0.000249001 * | 0.000760124 | 0.000944194 | 0.000191748 |
| trans-1,3-Dimethylcyclohexane | 0.0104675 | 0.000201001 * | 0.000893123 | 0.000846022 | 0.000187408 |
| 1,1,2-Trimethylcyclohexane | 0.00213849 | 5.30002E-05 * | 8.7051E-05 | 0.000105943 | 9.41476E-05 |
| 1,2,3-Trimethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0.00926715 | 3.80001E-05 * | 0.000117095 | 0.000132654 | 3.34998E-05 |
| tert-Butylbenzene | 0.00661074 | 3.80001E-05 * | 0.000108304 | 0.000131144 | 3.34647E-05 |
| 1,3,5-Trimethylbenzene | 0 | 0 * | 0.000492789 | 0.000144222 | 0.000105905 |
| 2,2,3-Trimethylhexane | 0.00218575 | 0.000111 * | 0.000132837 | 0.000134633 | 0 |
| 2,2,4-Trimethylhexane | 0.00510336 | 0.000270001 * | 0.000855215 | 0.000863126 | 0.000220474 |
| 2,2-Dimethylheptane | 0 | 0 * | 0.000135962 | 0.000237269 | 9.9486E-05 |
| 2,3,4-Trimethylhexane | 0.00509088 | 0.000123 * | 0.000323809 | 0.000439987 | 7.00479E-05 |
| 2,4,4-Trimethylhexane | 0 | 0 * | 0 | 0 | 0 |
| 2,5-Dimethylheptane | 0.00880874 | 0.000260001 * | 0.000725666 | 0.000934331 | 9.70467E-05 |
| Isononane | 0 | 0 * | 0 | 8.22805E-05 | 0 |
| 3,4-Dimethylheptane | 0.00231353 | 5.60002E-05 * | 0.000162642 | 0.000202825 | 0 |
| Isopropylbenzene | 0.0254734 | 9.25003E-05 * | 0 | 0.000195039 | 0 |
| 1,1,3-Trimethylcyclopentane | 0.00305808 | 9.25003E-05 * | 0 | 0.00020253 | 0 |
| Methylcyclopropane | 0 | 0 * | 0 | 0 | 0 |
| m-Ethyltoluene | 0 | 0 * | 0.000121905 | 0.000143618 | 3.08794E-05 |
| p-Ethyltoluene | 0 | 0 * | 0.000120131 | 0.000136914 | 2.92023E-05 |
| n-Nonane | 0.00624252 | 0.000190001 * | 0.00042608 | 0.000542976 | 0.000129081 |
| Propylbenzene | 0.0186791 | 7.10003E-05 * | 0.000312956 | 0.00019813 | 5.90834E-05 |
| Propylcyclohexane | 0.00338797 | 5.30002E-05 * | 0.000172153 | 0 | 3.8654E-05 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,3-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,4-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 2-Methylnonane | 0 | 0 * | 0 | 0 | 0 |
| 3-Ethyloctane | 0 | 0 * | 0 | 0 | 0 |
| 3-Methylnonane | 0 | 0 * | 0 | 0 | 0 |
| 4-Methylnonane | 0 | 0 * | 0 | 0 | 3.81107E-05 |
| Butylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Butylcyclohexane | 0 | 0 * | 0 | 0 | 0 |
| Isobutylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Naphthalene | 0 | 0 * | 6.693E-05 | 3.87923E-07 | 2.39097E-05 |
| n-Decane | 0 | 0 * | 6.58601E-05 | 0 | 4.92984E-05 |
| sec-Butylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Undecane | 0.00078591 | 4.40002E-05 * | 5.54778E-05 | 7.55463E-05 | 3.85262E-05 |
| Pentylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Dodecane | 0.000541809 | 5.10002E-05 * | 6.65504E-05 | 0 | 0 |
| n-Tridecane | 0.000541323 | 7.80003E-05 * | 4.85803E-05 | 3.9217E-05 | 2.90884E-05 |
| n-Tetradecane | 0.000348007 | 9.80003E-05 * | 4.01338E-05 | 0 | 1.56531E-05 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

## Stream Composition

| Mole Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|---|
| n-Pentadecane | 0.000121826 | 6.50002E-05 | * | 0 | 0 | 0 |
| H2O | 13.1304 | 0 | * | 0.507517 | 0.375836 | 0.183251 |
| MDEA | 0.00723103 | 0 | * | 3.43383E-06 | 1.5978E-05 | 1.26373E-06 |
| Piperazine | 1.0492E-08 | 0 | * | 0 | 4.87048E-06 | 0 |
| TEG | 5.72093E-11 | 0 | * | 0.000302062 | 0.000279382 | 0.000131037 |

| Mass Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|---|
| Helium | 1.84881E-05 | 0.00252859 | * | 0.000823692 | 0.000818309 | 0.000612205 |
| N2 | 0.00616471 | 2.321 | * | 0.373174 | 0.738383 | 0.276683 |
| CO2 | 15.9896 | 7.52826 | * | 0.118057 | 0.029331 | 12.2496 |
| O2 | 1.35699E-05 | 0.00509007 | * | 0.00157503 | 0.0226265 | 0.00103788 |
| Argon | 0.000623394 | 0.00635455 | * | 0.011342 | 0.164427 | 0.00711998 |
| H2S | 0.00281744 | 0.000154893 | * | 0 | 0 | 0.0161899 |
| C1 | 1.96541 | 54.3084 | * | 31.302 | 31.258 | 26.4836 |
| C2 | 4.9865 | 15.3335 | * | 21.7003 | 20.7724 | 21.4236 |
| C3 | 9.36122 | 10.685 | * | 20.8385 | 20.8096 | 20.6969 |
| iC4 | 2.33189 | 1.86231 | * | 3.83496 | 4.06163 | 3.61609 |
| nC4 | 9.49878 | 4.17053 | * | 10.6145 | 10.9435 | 9.22449 |
| iC5 | 4.14989 | 1.16046 | * | 2.92386 | 3.26053 | 2.06235 |
| nC5 | 5.56469 | 1.18407 | * | 3.2914 | 3.33387 | 2.0874 |
| Neo-Pentane | 0 | 0 | * | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0.0771826 | 0.0141623 | * | 0.0379188 | 0.0396516 | 0.0202338 |
| 2,3-Dimethylbutane | 0.2776 | 0.0359031 | * | 0.103638 | 0.0987742 | 0.0496437 |
| Cyclopentane | 0.820888 | 0.0292194 | * | 0.124019 | 0.115614 | 0.0529977 |
| i-Hexane | 1.85767 | 0.273646 | * | 0.774825 | 0.773298 | 0.381931 |
| 3-Methylpentane | 1.12925 | 0.130637 | * | 0.400015 | 0.404914 | 0.180157 |
| Benzene | 12.0955 | 0.0620058 | * | 0.256531 | 0.208968 | 0.0821615 |
| Cyclohexane | 4.10331 | 0.130541 | * | 0.483781 | 0.425864 | 0.155499 |
| Methylcyclopentane | 3.74617 | 0.120792 | * | 0.513177 | 0.448782 | 0.183863 |
| C6 | 2.46056 | 0.280606 | * | 0.847166 | 0.784046 | 0.350721 |
| 1,1-Dimethylcyclopentane | 0.65967 | 0.0194272 | * | 0.0757807 | 0.0676746 | 0.0197606 |
| 3-Methylhexane | 0.251353 | 0.0198261 | * | 0.0628186 | 0.056795 | 0.0173865 |
| 2,2-Dimethylpentane | 0.022208 | 0.00291915 | * | 0.00955921 | 0.00797559 | 0.00318628 |
| 2,3-Dimethylpentane | 0.122136 | 0.00859349 | * | 0.0255817 | 0.0286476 | 0.00781592 |
| 2,4-Dimethylhexane | 0.0337381 | 0.00279824 | * | 0.00773324 | 0.0075758 | 0.00178335 |
| Ethylcyclopentane | 0.10299 | 0.00240525 | * | 0.0086797 | 0.0083713 | 0.00187612 |
| 2,4-Dimethylpentane | 0.00499842 | 0.000655783 | * | 0.00197838 | 0.00175214 | 0.000655088 |
| i-Heptane | 0.313738 | 0.031423 | * | 0.0958411 | 0.0868893 | 0.0274222 |
| 3,3-Dimethylpentane | 0.0220597 | 0.00165312 | * | 0.00546944 | 0.00528212 | 0.00161258 |
| cis-1,3-Dimethylcyclopentane | 0.246323 | 0.00697924 | * | 0.0289911 | 0.024312 | 0.00795871 |
| 3-Ethylpentane | 0.107452 | 0.00712254 | * | 0.024955 | 0.0211414 | 0.00720649 |
| Cycloheptane | 0.00724062 | 0.000169572 | * | 0.000710929 | 0.000539853 | 0 |
| Methylcyclohexane | 0.70541 | 0.0236643 | * | 0.0813796 | 0.07404 | 0.0198449 |
| 2,2-Dimethylhexane | 0.281893 | 0.0275307 | * | 0.0738324 | 0.0681774 | 0.0190171 |
| i-Octane | 0.323248 | 0.0275307 | * | 0.0775385 | 0.0711768 | 0.0197935 |
| n-Heptane | 0.741983 | 0.0576998 | * | 0.17845 | 0.1596 | 0.0442087 |
| Toluene | 8.10263 | 0.0346312 | * | 0.126181 | 0.139738 | 0.0282429 |
| trans-1,2-Dimethylcyclopentane | 0.0635422 | 0.00172473 | * | 0.00708429 | 0.00558666 | 0.00186861 |
| cis-1,2-Dimethylcyclopentane | 0.0724007 | 0.00172473 | * | 0.00692472 | 0.00545419 | 0.0018152 |
| trans-1,3-Dimethylcyclopentane | 0.433486 | 0.0115845 | * | 0.0489815 | 0.0383409 | 0.0130609 |
| 1-Ethyl-1-Methylcyclopentane | 0.0478778 | 0.00123928 | * | 0.00390102 | 0.00417102 | 0.00105674 |
| 2,2,3-Trimethylpentane | 0.0627328 | 0.00373272 | * | 0.012359 | 0.0104713 | 0.00278509 |
| 2,3,4-Trimethylpentane | 0.0882104 | 0.00476583 | * | 0.0154609 | 0.0139069 | 0.00348258 |
| 2,5-Dimethylhexane | 0 | 0 | * | 0 | 0 | 0 |
| 2-Methylheptane | 0.0801895 | 0.0064453 | * | 0.0163422 | 0.0188485 | 0.00376009 |
| 4-Methylheptane | 0.0907938 | 0.0064453 | * | 0.0167469 | 0.0192623 | 0.00380962 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|---|
| 3,3-Dimethylhexane | 0.0197699 | 0.00131346 | * | 0.0033105 | 0.0045435 | 0.000964762 |
| 3-Methylheptane | 0.0442628 | 0.0030682 | * | 0.00809438 | 0.00944783 | 0.0018661 |
| cis-1,2-Dimethylcyclohexane | 0.158476 | 0.0068441 | * | 0.0191223 | 0.018047 | 0.00496302 |
| cis-1,3-Dimethylcyclohexane | 0.0221895 | 0.00106588 | * | 0.00324678 | 0.00390899 | 0.000595996 |
| Cyclooctane | 0.0682872 | 0.000443693 | * | 0.000483281 | 0.000282608 | 0 |
| Ethylbenzene | 0.304604 | 0.00162605 | * | 0.00454842 | 0.00636256 | 0.000956633 |
| Ethylcyclohexane | 0.0685818 | 0.00227457 | * | 0.00607664 | 0.00699114 | 0.0011064 |
| m-Xylene | 0.332993 | 0.00185282 | * | 0.00541894 | 0.0066088 | 0.000983607 |
| p-Xylene | 0.321012 | 0.00185282 | * | 0.00547707 | 0.00671841 | 0.00100131 |
| n-Octane | 0.11931 | 0.00839472 | * | 0.0238594 | 0.0247277 | 0.00446046 |
| o-Xylene | 0.258285 | 0.00120144 | * | 0.00287917 | 0.0035642 | 0.000697525 |
| trans-1,3-Dimethylcyclohexane | 0.0227666 | 0.00102508 | * | 0.00357565 | 0.00337554 | 0.000720571 |
| 1,1,2-Trimethylcyclohexane | 0.00523258 | 0.000304083 | * | 0.000392075 | 0.000475541 | 0.000407241 |
| 1,2,3-Trimethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0.0215891 | 0.000207577 | * | 0.000502129 | 0.000566908 | 0.000137964 |
| tert-Butylbenzene | 0.0171979 | 0.000231802 | * | 0.000518629 | 0.000625862 | 0.000153903 |
| 1,3,5-Trimethylbenzene | 0 | 0 | * | 0.00211318 | 0.000616349 | 0.000436152 |
| 2,2,3-Trimethylhexane | 0.00543362 | 0.000647022 | * | 0.000607847 | 0.000613967 | 0 |
| 2,2,4-Trimethylhexane | 0.0126866 | 0.00157384 | * | 0.00391337 | 0.00393612 | 0.000968902 |
| 2,2-Dimethylheptane | 0 | 0 | * | 0.00062215 | 0.00108202 | 0.000437204 |
| 2,3,4-Trimethylhexane | 0.0126556 | 0.000716971 | * | 0.00148171 | 0.00200648 | 0.000307835 |
| 2,4,4-Trimethylhexane | 0 | 0 | * | 0 | 0 | 0 |
| 2,5-Dimethylheptane | 0.0218979 | 0.00151555 | * | 0.00332057 | 0.00426084 | 0.000426485 |
| Isononane | 0 | 0 | * | 0 | 0.000375224 | 0 |
| 3,4-Dimethylheptane | 0.00575128 | 0.000326426 | * | 0.000744234 | 0.000924945 | 0 |
| Isopropylbenzene | 0.0593438 | 0.000505286 | * | 0 | 0.000833518 | 0 |
| 1,1,3-Trimethylcyclopentane | 0.00665127 | 0.000471743 | * | 0 | 0.000808073 | 0 |
| Methylcyclopropane | 0 | 0 | * | 0 | 0 | 0 |
| m-Ethyltoluene | 0 | 0 | * | 0.000522752 | 0.000613766 | 0.000127172 |
| p-Ethyltoluene | 0 | 0 | * | 0.000515146 | 0.000585114 | 0.000120265 |
| n-Nonane | 0.0155185 | 0.00110752 | * | 0.0019497 | 0.00247614 | 0.000567262 |
| Propylbenzene | 0.0435154 | 0.000387841 | * | 0.00134202 | 0.000846729 | 0.000243325 |
| Propylcyclohexane | 0.00828987 | 0.000304083 | * | 0.000775374 | 0 | 0.0001672 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,2-Diethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,3-Diethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,4-Diethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| 2-Methylnonane | 0 | 0 | * | 0 | 0 | 0 |
| 3-Ethyloctane | 0 | 0 | * | 0 | 0 | 0 |
| 3-Methylnonane | 0 | 0 | * | 0 | 0 | 0 |
| 4-Methylnonane | 0 | 0 | * | 0 | 0 | 0.000185799 |
| Butylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| Butylcyclohexane | 0 | 0 | * | 0 | 0 | 0 |
| Isobutylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| Naphthalene | 0 | 0 | * | 0.000306062 | 1.76788E-06 | 0.000105005 |
| n-Decane | 0 | 0 | * | 0.000334328 | 0 | 0.000240342 |
| sec-Butylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| Undecane | 0.00238105 | 0.000312577 | * | 0.000309387 | 0.00041987 | 0.000206341 |
| Pentylbenzene | 0 | 0 | * | 0 | 0 | 0 |
| Dodecane | 0.00178881 | 0.000394817 | * | 0.000404441 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Fraction | RH6 BTEX to RH5 TO % | RH6 Dehy Inlet % | | 30 % | 62 % | 96 % |
|---|---|---|---|---|---|---|
| n-Tridecane | 0.00193437 | 0.000653561 | * | 0.000319545 | 0.000257077 | 0.000183755 |
| n-Tetradecane | 0.00133819 | 0.000883615 | * | 0.000284071 | 0 | 0.000106406 |
| n-Pentadecane | 0.000501577 | 0.000627508 | * | 0 | 0 | 0 |
| H2O | 4.58492 | 0 | * | 0.326207 | 0.240746 | 0.113119 |
| MDEA | 0.0167014 | 0 | * | 1.45988E-05 | 6.76989E-05 | 5.15989E-06 |
| Piperazine | 1.75168E-08 | 0 | * | 0 | 1.49167E-05 | 0 |
| TEG | 1.66522E-10 | 0 | * | 0.00161841 | 0.0014918 | 0.000674268 |

| Mass Flow | RH6 BTEX to RH5 TO lb/h | RH6 Dehy Inlet lb/h | | 30 lb/h | 62 lb/h | 96 lb/h |
|---|---|---|---|---|---|---|
| Helium | 5.77725E-05 | 7.31334 | * | 0.00161488 | 0.002245 | 0.000454712 |
| N2 | 0.0192638 | 6712.91 | * | 0.73162 | 2.02573 | 0.205505 |
| CO2 | 49.9652 | 21773.7 | * | 0.231455 | 0.0804687 | 9.09835 |
| O2 | 4.2404E-05 | 14.7218 | * | 0.00308789 | 0.062075 | 0.000770878 |
| Argon | 0.00194801 | 18.379 | * | 0.0222365 | 0.451099 | 0.00528833 |
| H2S | 0.00880406 | 0.447991 | * | 0 | 0 | 0.012025 |
| C1 | 6.1416 | 157074 | * | 61.3687 | 85.7553 | 19.6706 |
| C2 | 15.5821 | 44348.5 | * | 42.5442 | 56.9883 | 15.9123 |
| C3 | 29.2524 | 30903.8 | * | 40.8545 | 57.0905 | 15.3725 |
| iC4 | 7.28682 | 5386.29 | * | 7.51857 | 11.1429 | 2.68583 |
| nC4 | 29.6822 | 12062.2 | * | 20.8102 | 30.0231 | 6.85144 |
| iC5 | 12.9678 | 3356.36 | * | 5.73233 | 8.94515 | 1.5318 |
| nC5 | 17.3888 | 3424.64 | * | 6.4529 | 9.14635 | 1.55041 |
| Neo-Pentane | 0 | 0 | * | 0 | 0 | 0 |
| 2,2-Dimethylbutane | 0.241184 | 40.961 | * | 0.0743411 | 0.108783 | 0.0150285 |
| 2,3-Dimethylbutane | 0.867459 | 103.841 | * | 0.203187 | 0.270983 | 0.0368726 |
| Cyclopentane | 2.56515 | 84.5099 | * | 0.243143 | 0.317184 | 0.0393638 |
| i-Hexane | 5.80493 | 791.455 | * | 1.51907 | 2.12152 | 0.283677 |
| 3-Methylpentane | 3.52873 | 377.835 | * | 0.784243 | 1.11087 | 0.13381 |
| Benzene | 37.7967 | 179.337 | * | 0.502938 | 0.573297 | 0.0610251 |
| Cyclohexane | 12.8222 | 377.559 | * | 0.948471 | 1.16834 | 0.115496 |
| Methylcyclopentane | 11.7062 | 349.36 | * | 1.0061 | 1.23122 | 0.136563 |
| C6 | 7.68887 | 811.584 | * | 1.6609 | 2.151 | 0.260496 |
| 1,1-Dimethylcyclopentane | 2.06137 | 56.1884 | * | 0.148571 | 0.185663 | 0.0146771 |
| 3-Methylhexane | 0.785439 | 57.3421 | * | 0.123158 | 0.155815 | 0.0129137 |
| 2,2-Dimethylpentane | 0.0693965 | 8.44292 | * | 0.0187412 | 0.0218808 | 0.0023666 |
| 2,3-Dimethylpentane | 0.381656 | 24.8546 | * | 0.0501538 | 0.0785935 | 0.00580523 |
| 2,4-Dimethylhexane | 0.105426 | 8.09323 | * | 0.0151613 | 0.0207839 | 0.00132458 |
| Ethylcyclopentane | 0.321829 | 6.9566 | * | 0.0170169 | 0.0229664 | 0.00139348 |
| 2,4-Dimethylpentane | 0.0156193 | 1.89669 | * | 0.00387869 | 0.00480693 | 0.000486563 |
| i-Heptane | 0.980383 | 90.8832 | * | 0.1879 | 0.238378 | 0.0203677 |
| 3,3-Dimethylpentane | 0.0689332 | 4.78125 | * | 0.010723 | 0.0144913 | 0.00119773 |
| cis-1,3-Dimethylcyclopentane | 0.769722 | 20.1858 | * | 0.056838 | 0.066699 | 0.00591129 |
| 3-Ethylpentane | 0.33577 | 20.6002 | * | 0.0489251 | 0.0580008 | 0.00535258 |
| Cycloheptane | 0.0226258 | 0.490447 | * | 0.0013938 | 0.00148107 | 0 |
| Methylcyclohexane | 2.2043 | 68.4432 | * | 0.159548 | 0.203126 | 0.0147397 |
| 2,2-Dimethylhexane | 0.880873 | 79.626 | * | 0.144751 | 0.187042 | 0.0141249 |
| i-Octane | 1.0101 | 79.626 | * | 0.152017 | 0.195271 | 0.0147015 |
| n-Heptane | 2.31858 | 166.883 | * | 0.349858 | 0.437856 | 0.0328358 |
| Toluene | 25.3195 | 100.162 | * | 0.247383 | 0.383367 | 0.0209773 |
| trans-1,2-Dimethylcyclopentane | 0.19856 | 4.98836 | * | 0.013889 | 0.0153268 | 0.0013879 |
| cis-1,2-Dimethylcyclopentane | 0.226241 | 4.98836 | * | 0.0135762 | 0.0149634 | 0.00134823 |
| trans-1,3-Dimethylcyclopentane | 1.35458 | 33.5053 | * | 0.0960299 | 0.105187 | 0.0097009 |
| 1-Ethyl-1-Methylcyclopentane | 0.149611 | 3.58432 | * | 0.00764808 | 0.011443 | 0.000784885 |
| 2,2,3-Trimethylpentane | 0.196031 | 10.796 | * | 0.0242303 | 0.0287276 | 0.00206861 |
| 2,3,4-Trimethylpentane | 0.275644 | 13.784 | * | 0.0303117 | 0.038153 | 0.00258667 |
| 2,5-Dimethylhexane | 0 | 0 | * | 0 | 0 | 0 |
| 2-Methylheptane | 0.25058 | 18.6415 | * | 0.0320396 | 0.0517103 | 0.00279279 |
| 4-Methylheptane | 0.283717 | 18.6415 | * | 0.0328329 | 0.0528456 | 0.00282958 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Flow | RH6 BTEX to RH5 TO lb/h | RH6 Dehy Inlet lb/h | 30 lb/h | 62 lb/h | 96 lb/h |
|---|---|---|---|---|---|
| 3,3-Dimethylhexane | 0.0617778 | 3.79886 * | 0.00649036 | 0.0124649 | 0.000716572 |
| 3-Methylheptane | 0.138315 | 8.87402 * | 0.0158693 | 0.0259198 | 0.00138603 |
| cis-1,2-Dimethylcyclohexane | 0.495213 | 19.7949 * | 0.03749 | 0.0495112 | 0.00368626 |
| cis-1,3-Dimethylcyclohexane | 0.0693387 | 3.08281 * | 0.00636543 | 0.0107242 | 0.000442673 |
| Cyclooctane | 0.213387 | 1.28327 * | 0.00094749 | 0.000775326 | 0 |
| Ethylbenzene | 0.95184 | 4.70294 * | 0.00891734 | 0.0174555 | 0.000710534 |
| Ethylcyclohexane | 0.214308 | 6.57863 * | 0.0119135 | 0.0191799 | 0.000821776 |
| m-Xylene | 1.04055 | 5.35884 * | 0.010624 | 0.018131 | 0.000730569 |
| p-Xylene | 1.00311 | 5.35884 * | 0.010738 | 0.0184317 | 0.000743716 |
| n-Octane | 0.372826 | 24.2797 * | 0.0467772 | 0.0678395 | 0.00331298 |
| o-Xylene | 0.8071 | 3.47488 * | 0.00564471 | 0.00977826 | 0.000518083 |
| trans-1,3-Dimethylcyclohexane | 0.0711421 | 2.96481 * | 0.00701018 | 0.00926066 | 0.000535201 |
| 1,1,2-Trimethylcyclohexane | 0.016351 | 0.879486 * | 0.000768678 | 0.00130463 | 0.000302476 |
| 1,2,3-Trimethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0.0674626 | 0.600366 * | 0.000984442 | 0.00155529 | 0.000102472 |
| tert-Butylbenzene | 0.0537408 | 0.67043 * | 0.00101679 | 0.00171703 | 0.000114311 |
| 1,3,5-Trimethylbenzene | 0 | 0 * | 0.00414296 | 0.00169093 | 0.000323949 |
| 2,2,3-Trimethylhexane | 0.0169792 | 1.87136 * | 0.00119171 | 0.0016844 | 0 |
| 2,2,4-Trimethylhexane | 0.0396437 | 4.55195 * | 0.00767231 | 0.0107986 | 0.000719647 |
| 2,2-Dimethylheptane | 0 | 0 * | 0.00121975 | 0.00296848 | 0.000324731 |
| 2,3,4-Trimethylhexane | 0.0395467 | 2.07366 * | 0.00290496 | 0.00550469 | 0.000228643 |
| 2,4,4-Trimethylhexane | 0 | 0 * | 0 | 0 | 0 |
| 2,5-Dimethylheptane | 0.0684276 | 4.38335 * | 0.0065101 | 0.0116895 | 0.000316769 |
| Isononane | 0 | 0 * | 0 | 0.00102941 | 0 |
| 3,4-Dimethylheptane | 0.0179719 | 0.944107 * | 0.0014591 | 0.00253755 | 0 |
| Isopropylbenzene | 0.18544 | 1.46142 * | 0 | 0.00228673 | 0 |
| 1,1,3-Trimethylcyclopentane | 0.0207842 | 1.3644 * | 0 | 0.00221692 | 0 |
| Methylcyclopropane | 0 | 0 * | 0 | 0 | 0 |
| m-Ethyltoluene | 0 | 0 * | 0.00102487 | 0.00168385 | 9.44563E-05 |
| p-Ethyltoluene | 0 | 0 * | 0.00100996 | 0.00160524 | 8.9326E-05 |
| n-Nonane | 0.0484928 | 3.20322 * | 0.00382245 | 0.00679319 | 0.000421331 |
| Propylbenzene | 0.135979 | 1.12174 * | 0.00263108 | 0.00232297 | 0.000180729 |
| Propylcyclohexane | 0.0259046 | 0.879486 * | 0.00152015 | 0 | 0.000124187 |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,3-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,4-Diethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-2-Propylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 1-Methyl-4-isopropylbenzene | 0 | 0 * | 0 | 0 | 0 |
| 2-Methylnonane | 0 | 0 * | 0 | 0 | 0 |
| 3-Ethyloctane | 0 | 0 * | 0 | 0 | 0 |
| 3-Methylnonane | 0 | 0 * | 0 | 0 | 0 |
| 4-Methylnonane | 0 | 0 * | 0 | 0 | 0.000138001 |
| Butylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Butylcyclohexane | 0 | 0 * | 0 | 0 | 0 |
| Isobutylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Naphthalene | 0 | 0 * | 0.000600046 | 4.85012E-06 | 7.79918E-05 |
| n-Decane | 0 | 0 * | 0.000655462 | 0 | 0.000178513 |
| sec-Butylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Undecane | 0.00744042 | 0.904052 * | 0.000606565 | 0.0011519 | 0.000153259 |
| Pentylbenzene | 0 | 0 * | 0 | 0 | 0 |
| Dodecane | 0.00558975 | 1.14191 * | 0.000792922 | 0 | 0 |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Flow | RH6 BTEX to RH5 TO lb/h | RH6 Dehy Inlet lb/h | | 30 lb/h | 62 lb/h | 96 lb/h |
|---|---|---|---|---|---|---|
| n-Tridecane | 0.00604462 | 1.89027 | * | 0.000626479 | 0.000705283 | 0.000136483 |
| n-Tetradecane | 0.00418164 | 2.55564 | * | 0.000556931 | 0 | 7.90323E-05 |
| n-Pentadecane | 0.00156735 | 1.81491 | * | 0 | 0 | 0 |
| H2O | 14.3272 | 0 | * | 0.639541 | 0.660478 | 0.0840185 |
| MDEA | 0.0521893 | 0 | * | 2.86216E-05 | 0.000185729 | 3.83248E-06 |
| Piperazine | 5.47374E-08 | 0 | * | 0 | 4.09235E-05 | 0 |
| TEG | 5.20357E-10 | 0 | * | 0.00317295 | 0.00409269 | 0.000500809 |

## Stream Properties

| Property | Units | RH6 BTEX to RH5 TO | RH6 Dehy Inlet | | 30 | 62 | 96 |
|---|---|---|---|---|---|---|---|
| Temperature | °F | 120 | 120 | * | 136.116 | 133.559 | 125.236 |
| Pressure | psig | 0 | 875 | * | 60 | 60 | 110 |
| Molecular Weight | lb/lbmol | 51.5924 | 22.0029 | | 28.0284 | 28.1242 | 29.1845 |
| Mass Density | lb/ft^3 | 0.108492 | 3.71668 | | 0.327458 | 0.330091 | 0.596142 |
| Mass Flow | lb/h | 312.485 | 289226 | | 196.054 | 274.346 | 74.2745 |
| Std Vapor Volumetric Flow | MMSCFD | 0.0551632 | 119.719 | | 0.0637063 | 0.0888434 | 0.023179 |
| Std Liquid Volumetric Flow | sgpm | 0.944405 | 1581.61 | | 0.974949 | 1.35742 | 0.350468 |
| Specific Gravity | | 1.78135 | 0.759703 | | 0.967749 | 0.971057 | 1.00766 |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 2211.27 | 1205.12 | | 1638.08 | 1637.2 | 1504.29 |

**Remarks**


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

## Connections

| | 132 | 158 | 232 | | |
|---|---|---|---|---|---|
| From Block | VLVE-113 | VLVE-120 | VLVE-125 | | |
| To Block | -- | -- | -- | | |

## Stream Composition

| Mole Fraction | 132 % | 158 % | 232 % | | |
|---|---|---|---|---|---|
| Helium | 0.00609984 | 0.00693243 | 0.00460473 | | |
| N2 | 0.354712 | 0.548741 | 0.33838 | | |
| CO2 | 0.163552 | 0.0631017 | 14.2963 | | |
| O2 | 0.00102814 | 0.00316887 | 0.000637053 | | |
| Argon | 0.00604176 | 0.0182205 | 0.00376785 | | |
| H2S | 0 | 0 | 0.000675828 | | |
| C1 | 46.1953 | 55.6615 | 46.8985 | | |
| C2 | 21.9276 | 20.2531 | 17.5483 | | |
| C3 | 17.5504 | 12.9667 | 11.4658 | | |
| iC4 | 2.48558 | 1.75997 | 1.57781 | | |
| nC4 | 6.87868 | 4.78376 | 4.33822 | | |
| iC5 | 1.39197 | 1.04608 | 0.966509 | | |
| nC5 | 1.50289 | 1.16274 | 1.07815 | | |
| Neo-Pentane | 0 | 0 | 0 | | |
| 2,2-Dimethylbutane | 0.0112511 | 0.0100683 | 0.0102352 | | |
| 2,3-Dimethylbutane | 0.0341867 | 0.0293002 | 0.0275057 | | |
| Cyclopentane | 0.050888 | 0.0428467 | 0.040141 | | |
| i-Hexane | 0.233653 | 0.215184 | 0.200452 | | |
| 3-Methylpentane | 0.113591 | 0.108222 | 0.100482 | | |
| Benzene | 0.0860839 | 0.0772746 | 0.0807654 | | |
| Cyclohexane | 0.123107 | 0.130955 | 0.126656 | | |
| Methylcyclopentane | 0.13168 | 0.13231 | 0.124836 | | |
| C6 | 0.224613 | 0.227576 | 0.210466 | | |
| 1,1-Dimethylcyclopentane | 0.0122794 | 0.0167175 | 0.015256 | | |
| 3-Methylhexane | 0.0099085 | 0.0136184 | 0.0124493 | | |
| 2,2-Dimethylpentane | 0.00158673 | 0.00216283 | 0.00174097 | | |
| 2,3-Dimethylpentane | 0.00499593 | 0.00617734 | 0.00558156 | | |
| 2,4-Dimethylhexane | 0.000910976 | 0.0015182 | 0.00137399 | | |
| Ethylcyclopentane | 0.00120205 | 0.00197396 | 0.00177975 | | |
| 2,4-Dimethylpentane | 0.000424111 | 0.000498238 | 0.000389291 | | |
| i-Heptane | 0.0153525 | 0.0207618 | 0.0189342 | | |
| 3,3-Dimethylpentane | 0.000838075 | 0.00108157 | 0.00108089 | | |
| cis-1,3-Dimethylcyclopentane | 0.00449977 | 0.00604487 | 0.00541941 | | |
| 3-Ethylpentane | 0.00378096 | 0.00510926 | 0.00458925 | | |
| Cycloheptane | 6.61553E-05 | 0.000136026 | 0.000122525 | | |
| Methylcyclohexane | 0.0122046 | 0.0179376 | 0.0169232 | | |
| 2,2-Dimethylhexane | 0.00938272 | 0.0140562 | 0.0132663 | | |
| i-Octane | 0.00987752 | 0.0147354 | 0.013868 | | |
| n-Heptane | 0.0255849 | 0.0386458 | 0.0350534 | | |
| Toluene | 0.0237547 | 0.0315115 | 0.0312384 | | |
| trans-1,2-Dimethylcyclopentane | 0.0011123 | 0.00142388 | 0.00134038 | | |
| cis-1,2-Dimethylcyclopentane | 0.00108281 | 0.00139251 | 0.00130937 | | |
| trans-1,3-Dimethylcyclopentane | 0.00759167 | 0.00977703 | 0.00901213 | | |
| 1-Ethyl-1-Methylcyclopentane | 0.000392043 | 0.00081369 | 0.000694577 | | |
| 2,2,3-Trimethylpentane | 0.00123445 | 0.00219168 | 0.00194778 | | |
| 2,3,4-Trimethylpentane | 0.00158862 | 0.00284041 | 0.00247919 | | |
| 2,5-Dimethylhexane | 0 | 0 | 0 | | |
| 2-Methylheptane | 0.00174993 | 0.00356965 | 0.00304936 | | |
| 4-Methylheptane | 0.00179108 | 0.00365709 | 0.0031184 | | |
| 3,3-Dimethylhexane | 0.000423474 | 0.000835997 | 0.000663792 | | |
| 3-Methylheptane | 0.000803348 | 0.00181949 | 0.00148021 | | |
| cis-1,2-Dimethylcyclohexane | 0.0018088 | 0.00380413 | 0.00332887 | | |
| cis-1,3-Dimethylcyclohexane | 0.000224575 | 0.000686716 | 0.000534933 | | |
| Cyclooctane | 0 | 0.000251013 | 0.000156916 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | 132 % | 158 % | 232 % | | |
|---|---|---|---|---|---|
| Ethylbenzene | 0.000490511 | 0.00110794 | 0.00102075 | | |
| Ethylcyclohexane | 0.000480114 | 0.00133287 | 0.00113321 | | |
| m-Xylene | 0.000527921 | 0.00120033 | 0.00109498 | | |
| p-Xylene | 0.00053537 | 0.00121331 | 0.00111641 | | |
| n-Octane | 0.00187782 | 0.00479533 | 0.0039004 | | |
| o-Xylene | 0.000321916 | 0.000665365 | 0.000655477 | | |
| trans-1,3-Dimethylcyclohexane | 0.000321357 | 0.000732679 | 0.000508197 | | |
| 1,1,2-Trimethylcyclohexane | 7.57636E-05 | 0.000103628 | 0.000119654 | | |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 | | |
| 1,2,4-Trimethylbenzene | 0 | 8.17055E-05 | 8.18579E-05 | | |
| tert-Butylbenzene | 0 | 7.59394E-05 | 8.30482E-05 | | |
| 1,3,5-Trimethylbenzene | 0 | 0.000134925 | 0 | | |
| 2,2,3-Trimethylhexane | 0 | 0.000115039 | 0.000230419 | | |
| 2,2,4-Trimethylhexane | 0.000304064 | 0.000667752 | 0.00057073 | | |
| 2,2-Dimethylheptane | 0 | 0.000151623 | 0 | | |
| 2,3,4-Trimethylhexane | 8.84942E-05 | 0.000283226 | 0.00027637 | | |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 | | |
| 2,5-Dimethylheptane | 0.000133575 | 0.000539838 | 0.000571594 | | |
| Isononane | 0 | 0 | 0 | | |
| 3,4-Dimethylheptane | 0 | 0.000139117 | 0.000124442 | | |
| Isopropylbenzene | 0 | 0.000284705 | 0.00023364 | | |
| 1,1,3-Trimethylcyclopentane | 0 | 0.000273889 | 0.000248816 | | |
| Methylcyclopropane | 0 | 0 | 0 | | |
| m-Ethyltoluene | 0 | 7.6436E-05 | 0 | | |
| p-Ethyltoluene | 0 | 7.52058E-05 | 0 | | |
| n-Nonane | 0 | 0.000417938 | 0.000383334 | | |
| Propylbenzene | 9.32789E-05 | 0.000309845 | 0.000168134 | | |
| Propylcyclohexane | 3.71199E-05 | 0 | 0.000120678 | | |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2-Diethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 | 0 | | |
| 1,3-Diethylbenzene | 0 | 0 | 0 | | |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 | 0 | | |
| 1,4-Diethylbenzene | 0 | 0 | 0 | | |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Propylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-4-isopropylbenzene | 0 | 0 | 0 | | |
| 2-Methylnonane | 0 | 0 | 0 | | |
| 3-Ethyloctane | 0 | 0 | 0 | | |
| 3-Methylnonane | 0 | 0 | 0 | | |
| 4-Methylnonane | 0 | 0 | 0 | | |
| Butylbenzene | 0 | 0 | 0 | | |
| Butylcyclohexane | 0 | 0 | 0 | | |
| Isobutylbenzene | 0 | 0 | 0 | | |
| Naphthalene | 0 | 8.3533E-05 | 0 | | |
| n-Decane | 0 | 0 | 0 | | |
| sec-Butylbenzene | 0 | 0 | 0 | | |
| Undecane | 0 | 6.54654E-05 | 6.31428E-05 | | |
| Pentylbenzene | 0 | 0 | 0 | | |
| Dodecane | 0 | 7.7795E-05 | 5.57509E-05 | | |
| n-Tridecane | 3.13446E-05 | 0.000116202 | 7.15961E-05 | | |
| n-Tetradecane | 2.10174E-05 | 0 | 6.59727E-05 | | |
| n-Pentadecane | 0 | 0 | 3.71536E-05 | | |
| H2O | 0.364984 | 0.511084 | 0.339378 | | |
| MDEA | 1.2406E-05 | 2.26752E-05 | 9.65968E-06 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | |
|---|---|---|
| Client Name: | Targa Northern Delaware | Job: |
| Location: | Red Hills GP | |
| Flowsheet: | TEG Dehydration | |

## Stream Composition

| Mole Fraction | 132 % | 158 % | 232 % | | |
|---|---|---|---|---|---|
| Piperazine | 5.8417E-06 | 1.47076E-05 | 3.71762E-06 | | |
| TEG | 0.000275227 | 0.000300142 | 0.000270315 | | |

| Mass Fraction | 132 % | 158 % | 232 % | | |
|---|---|---|---|---|---|
| Helium | 0.000799747 | 0.00100958 | 0.000609837 | | |
| N2 | 0.325486 | 0.559301 | 0.313645 | | |
| CO2 | 0.235773 | 0.101041 | 20.818 | | |
| O2 | 0.00107765 | 0.00368936 | 0.000674492 | | |
| Argon | 0.00790588 | 0.026483 | 0.0049803 | | |
| H2S | 0 | 0 | 0.000762104 | | |
| C1 | 24.2751 | 32.4891 | 24.8941 | | |
| C2 | 21.5974 | 22.1576 | 17.4591 | | |
| C3 | 25.3498 | 20.8036 | 16.7289 | | |
| iC4 | 4.73219 | 3.72185 | 3.03433 | | |
| nC4 | 13.096 | 10.1164 | 8.34297 | | |
| iC5 | 3.28966 | 2.74605 | 2.30729 | | |
| nC5 | 3.5518 | 3.05228 | 2.5738 | | |
| Neo-Pentane | 0 | 0 | 0 | | |
| 2,2-Dimethylbutane | 0.0317592 | 0.0315682 | 0.0291842 | | |
| 2,3-Dimethylbutane | 0.096501 | 0.0918685 | 0.0784283 | | |
| Cyclopentane | 0.116904 | 0.109333 | 0.0931489 | | |
| i-Hexane | 0.659548 | 0.674691 | 0.571559 | | |
| 3-Methylpentane | 0.32064 | 0.339322 | 0.286509 | | |
| Benzene | 0.220257 | 0.219617 | 0.208742 | | |
| Cyclohexane | 0.339372 | 0.400994 | 0.352694 | | |
| Methylcyclopentane | 0.363007 | 0.405142 | 0.347625 | | |
| C6 | 0.634028 | 0.713546 | 0.600112 | | |
| 1,1-Dimethylcyclopentane | 0.0394928 | 0.059722 | 0.0495632 | | |
| 3-Methylhexane | 0.0325219 | 0.0496495 | 0.0412752 | | |
| 2,2-Dimethylpentane | 0.005208 | 0.00788518 | 0.0057721 | | |
| 2,3-Dimethylpentane | 0.0163978 | 0.0225211 | 0.0185054 | | |
| 2,4-Dimethylhexane | 0.00340858 | 0.00630981 | 0.00519309 | | |
| Ethylcyclopentane | 0.00386602 | 0.0070518 | 0.00578199 | | |
| 2,4-Dimethylpentane | 0.00139203 | 0.00181646 | 0.00129068 | | |
| i-Heptane | 0.0503903 | 0.0756927 | 0.0627754 | | |
| 3,3-Dimethylpentane | 0.00275075 | 0.00394317 | 0.00358364 | | |
| cis-1,3-Dimethylcyclopentane | 0.0144721 | 0.0215948 | 0.0176063 | | |
| 3-Ethylpentane | 0.0124099 | 0.0186272 | 0.0152155 | | |
| Cycloheptane | 0.000212768 | 0.000485943 | 0.000398054 | | |
| Methylcyclohexane | 0.0392522 | 0.0640807 | 0.0549792 | | |
| 2,2-Dimethylhexane | 0.0351071 | 0.0584191 | 0.0501408 | | |
| i-Octane | 0.0369585 | 0.0612417 | 0.0524149 | | |
| n-Heptane | 0.0839754 | 0.140894 | 0.116218 | | |
| Toluene | 0.0716939 | 0.105639 | 0.0952352 | | |
| trans-1,2-Dimethylcyclopentane | 0.00357736 | 0.0050867 | 0.00435457 | | |
| cis-1,2-Dimethylcyclopentane | 0.00348252 | 0.00497464 | 0.00425384 | | |
| trans-1,3-Dimethylcyclopentane | 0.0244163 | 0.0349276 | 0.0292782 | | |
| 1-Ethyl-1-Methylcyclopentane | 0.00144101 | 0.0033221 | 0.00257887 | | |
| 2,2,3-Trimethylpentane | 0.00461892 | 0.00910886 | 0.00736177 | | |
| 2,3,4-Trimethylpentane | 0.00594408 | 0.011805 | 0.00937026 | | |
| 2,5-Dimethylhexane | 0 | 0 | 0 | | |
| 2-Methylheptane | 0.00654768 | 0.0148359 | 0.0115253 | | |
| 4-Methylheptane | 0.00670163 | 0.0151993 | 0.0117862 | | |
| 3,3-Dimethylhexane | 0.0015845 | 0.0034745 | 0.00250884 | | |
| 3-Methylheptane | 0.00300587 | 0.007562 | 0.00559453 | | |
| cis-1,2-Dimethylcyclohexane | 0.00664852 | 0.0155314 | 0.0123596 | | |
| cis-1,3-Dimethylcyclohexane | 0.000825458 | 0.0028037 | 0.00198613 | | |
| Cyclooctane | 0 | 0.00102483 | 0.000582609 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Fraction | 132 % | 158 % | 232 % | | |
|---|---|---|---|---|---|
| Ethylbenzene | 0.00170578 | 0.00427968 | 0.00358565 | | |
| Ethylcyclohexane | 0.00176473 | 0.00544181 | 0.00420746 | | |
| m-Xylene | 0.00183587 | 0.00463654 | 0.00384639 | | |
| p-Xylene | 0.00186177 | 0.00468669 | 0.00392169 | | |
| n-Octane | 0.00702618 | 0.0199299 | 0.0147418 | | |
| o-Xylene | 0.00111948 | 0.00257012 | 0.00230253 | | |
| trans-1,3-Dimethylcyclohexane | 0.00118119 | 0.00299135 | 0.00188687 | | |
| 1,1,2-Trimethylcyclohexane | 0.00031329 | 0.000475973 | 0.000499793 | | |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 | | |
| 1,2,4-Trimethylbenzene | 0 | 0.000357304 | 0.000325538 | | |
| tert-Butylbenzene | 0 | 0.000370843 | 0.000368815 | | |
| 1,3,5-Trimethylbenzene | 0 | 0.000590037 | 0 | | |
| 2,2,3-Trimethylhexane | 0 | 0.000536822 | 0.000977821 | | |
| 2,2,4-Trimethylhexane | 0.00127741 | 0.00311603 | 0.00242199 | | |
| 2,2-Dimethylheptane | 0 | 0.000707542 | 0 | | |
| 2,3,4-Trimethylhexane | 0.000371776 | 0.00132166 | 0.00117282 | | |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 | | |
| 2,5-Dimethylheptane | 0.000561168 | 0.00251913 | 0.00242566 | | |
| Isononane | 0 | 0 | 0 | | |
| 3,4-Dimethylheptane | 0 | 0.000649183 | 0.000528092 | | |
| Isopropylbenzene | 0 | 0.00124504 | 0.000929155 | | |
| 1,1,3-Trimethylcyclopentane | 0 | 0.00111823 | 0.000923818 | | |
| Methylcyclopropane | 0 | 0 | 0 | | |
| m-Ethyltoluene | 0 | 0.00033426 | 0 | | |
| p-Ethyltoluene | 0 | 0.00032888 | 0 | | |
| n-Nonane | 0 | 0.00195029 | 0.00162675 | | |
| Propylbenzene | 0.000367239 | 0.00135497 | 0.000668648 | | |
| Propylcyclohexane | 0.000153494 | 0 | 0.00050407 | | |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2-Diethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 | 0 | | |
| 1,3-Diethylbenzene | 0 | 0 | 0 | | |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 | 0 | | |
| 1,4-Diethylbenzene | 0 | 0 | 0 | | |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Propylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-4-isopropylbenzene | 0 | 0 | 0 | | |
| 2-Methylnonane | 0 | 0 | 0 | | |
| 3-Ethyloctane | 0 | 0 | 0 | | |
| 3-Methylnonane | 0 | 0 | 0 | | |
| 4-Methylnonane | 0 | 0 | 0 | | |
| Butylbenzene | 0 | 0 | 0 | | |
| Butylcyclohexane | 0 | 0 | 0 | | |
| Isobutylbenzene | 0 | 0 | 0 | | |
| Naphthalene | 0 | 0.000389546 | 0 | | |
| n-Decane | 0 | 0 | 0 | | |
| sec-Butylbenzene | 0 | 0 | 0 | | |
| Undecane | 0 | 0.000372311 | 0.000326567 | | |
| Pentylbenzene | 0 | 0 | 0 | | |
| Dodecane | 0 | 0.000482134 | 0.000314212 | | |
| n-Tridecane | 0.000189288 | 0.000779465 | 0.000436744 | | |
| n-Tetradecane | 0.00013658 | 0 | 0.000433059 | | |
| n-Pentadecane | 0 | 0 | 0.000261127 | | |
| H2O | 0.21538 | 0.335001 | 0.202298 | | |
| MDEA | 4.84241E-05 | 9.83111E-05 | 3.80863E-05 | | |
| Piperazine | 1.64821E-05 | 4.60933E-05 | 1.05953E-05 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Fraction | 132<br>% | 158<br>% | 232<br>% | | |
|---|---|---|---|---|---|
| TEG | 0.00135386 | 0.00163995 | 0.00134317 | | |

| Mass Flow | 132<br>lb/h | 158<br>lb/h | 232<br>lb/h | | |
|---|---|---|---|---|---|
| Helium | 0.00271897 | 0.00189159 | 0.00240603 | | |
| N2 | 1.10659 | 1.04793 | 1.23744 | | |
| CO2 | 0.801581 | 0.189316 | 82.1345 | | |
| O2 | 0.00366377 | 0.00691255 | 0.00266112 | | |
| Argon | 0.0268783 | 0.0496198 | 0.0196491 | | |
| H2S | 0 | 0 | 0.00300678 | | |
| C1 | 82.5302 | 60.8731 | 98.2165 | | |
| C2 | 73.4267 | 41.5155 | 68.8825 | | |
| C3 | 86.1842 | 38.9785 | 66.0018 | | |
| iC4 | 16.0885 | 6.97343 | 11.9715 | | |
| nC4 | 44.5237 | 18.9545 | 32.9161 | | |
| iC5 | 11.1841 | 5.14512 | 9.1031 | | |
| nC5 | 12.0754 | 5.7189 | 10.1546 | | |
| Neo-Pentane | 0 | 0 | 0 | | |
| 2,2-Dimethylbutane | 0.107975 | 0.0591476 | 0.115142 | | |
| 2,3-Dimethylbutane | 0.328084 | 0.172129 | 0.309428 | | |
| Cyclopentane | 0.397449 | 0.204851 | 0.367507 | | |
| i-Hexane | 2.24233 | 1.26413 | 2.25501 | | |
| 3-Methylpentane | 1.09011 | 0.635769 | 1.13038 | | |
| Benzene | 0.748829 | 0.411484 | 0.823563 | | |
| Cyclohexane | 1.1538 | 0.751321 | 1.39151 | | |
| Methylcyclopentane | 1.23415 | 0.759093 | 1.37151 | | |
| C6 | 2.15557 | 1.33693 | 2.36766 | | |
| 1,1-Dimethylcyclopentane | 0.134267 | 0.111898 | 0.195545 | | |
| 3-Methylhexane | 0.110568 | 0.0930256 | 0.162846 | | |
| 2,2-Dimethylpentane | 0.0177061 | 0.014774 | 0.0227731 | | |
| 2,3-Dimethylpentane | 0.055749 | 0.0421967 | 0.0730107 | | |
| 2,4-Dimethylhexane | 0.0115885 | 0.0118224 | 0.0204887 | | |
| Ethylcyclopentane | 0.0131437 | 0.0132126 | 0.0228121 | | |
| 2,4-Dimethylpentane | 0.0047326 | 0.0034034 | 0.00509219 | | |
| i-Heptane | 0.171317 | 0.141821 | 0.247672 | | |
| 3,3-Dimethylpentane | 0.00935197 | 0.0073881 | 0.0141388 | | |
| cis-1,3-Dimethylcyclopentane | 0.0492022 | 0.040461 | 0.0694635 | | |
| 3-Ethylpentane | 0.0421912 | 0.0349007 | 0.0600306 | | |
| Cycloheptane | 0.000723367 | 0.000910485 | 0.00157047 | | |
| Methylcyclohexane | 0.133449 | 0.120065 | 0.216913 | | |
| 2,2-Dimethylhexane | 0.119357 | 0.109457 | 0.197824 | | |
| i-Octane | 0.125651 | 0.114745 | 0.206796 | | |
| n-Heptane | 0.285499 | 0.263985 | 0.458522 | | |
| Toluene | 0.243745 | 0.197929 | 0.375738 | | |
| trans-1,2-Dimethylcyclopentane | 0.0121623 | 0.00953068 | 0.0171804 | | |
| cis-1,2-Dimethylcyclopentane | 0.0118398 | 0.00932072 | 0.0167829 | | |
| trans-1,3-Dimethylcyclopentane | 0.0830102 | 0.065442 | 0.115513 | | |
| 1-Ethyl-1-Methylcyclopentane | 0.00489913 | 0.00622444 | 0.0101746 | | |
| 2,2,3-Trimethylpentane | 0.0157034 | 0.0170668 | 0.0290449 | | |
| 2,3,4-Trimethylpentane | 0.0202087 | 0.0221185 | 0.0369691 | | |
| 2,5-Dimethylhexane | 0 | 0 | 0 | | |
| 2-Methylheptane | 0.0222608 | 0.0277972 | 0.0454714 | | |
| 4-Methylheptane | 0.0227841 | 0.0284781 | 0.0465008 | | |
| 3,3-Dimethylhexane | 0.00538699 | 0.00650998 | 0.00989831 | | |
| 3-Methylheptane | 0.0102193 | 0.0141685 | 0.0220725 | | |
| cis-1,2-Dimethylcyclohexane | 0.0226036 | 0.0291003 | 0.0487633 | | |
| cis-1,3-Dimethylcyclohexane | 0.00280639 | 0.00525314 | 0.00783602 | | |
| Cyclooctane | 0 | 0.00192016 | 0.0022986 | | |
| Ethylbenzene | 0.00579928 | 0.00801861 | 0.0141467 | | |
| Ethylcyclohexane | 0.00599971 | 0.010196 | 0.0166 | | |
| m-Xylene | 0.00624158 | 0.00868724 | 0.0151754 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

| Mass Flow | 132 lb/h | 158 lb/h | 232 lb/h | | |
|---|---|---|---|---|---|
| p-Xylene | 0.00632965 | 0.00878119 | 0.0154725 | | |
| n-Octane | 0.0238876 | 0.0373416 | 0.0581618 | | |
| o-Xylene | 0.00380599 | 0.0048155 | 0.00908434 | | |
| trans-1,3-Dimethylcyclohexane | 0.00401581 | 0.00560474 | 0.00744438 | | |
| 1,1,2-Trimethylcyclohexane | 0.00106512 | 0.000891805 | 0.00197186 | | |
| 1,2,3-Trimethylbenzene | 0 | 0 | 0 | | |
| 1,2,4-Trimethylbenzene | 0 | 0.000669461 | 0.00128437 | | |
| tert-Butylbenzene | 0 | 0.00069483 | 0.00145511 | | |
| 1,3,5-Trimethylbenzene | 0 | 0.00110552 | 0 | | |
| 2,2,3-Trimethylhexane | 0 | 0.00100582 | 0.00385786 | | |
| 2,2,4-Trimethylhexane | 0.00434294 | 0.00583835 | 0.00955564 | | |
| 2,2-Dimethylheptane | 0 | 0.00132568 | 0 | | |
| 2,3,4-Trimethylhexane | 0.00126396 | 0.00247633 | 0.00462721 | | |
| 2,4,4-Trimethylhexane | 0 | 0 | 0 | | |
| 2,5-Dimethylheptane | 0.00190786 | 0.00471995 | 0.00957011 | | |
| Isononane | 0 | 0 | 0 | | |
| 3,4-Dimethylheptane | 0 | 0.00121634 | 0.00208352 | | |
| Isopropylbenzene | 0 | 0.00233276 | 0.00366586 | | |
| 1,1,3-Trimethylcyclopentane | 0 | 0.00209516 | 0.0036448 | | |
| Methylcyclopropane | 0 | 0 | 0 | | |
| m-Ethyltoluene | 0 | 0.000626285 | 0 | | |
| p-Ethyltoluene | 0 | 0.000616205 | 0 | | |
| n-Nonane | 0 | 0.00365415 | 0.00641811 | | |
| Propylbenzene | 0.00124854 | 0.00253874 | 0.00263806 | | |
| Propylcyclohexane | 0.000521849 | 0 | 0.00198874 | | |
| 1,2,3,4-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,3,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2,4,5-Tetramethylbenzene | 0 | 0 | 0 | | |
| 1,2-Diethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-3-Ethylbenzene | 0 | 0 | 0 | | |
| 1,2-Dimethyl-4-Ethylbenzene | 0 | 0 | 0 | | |
| 1,3-Diethylbenzene | 0 | 0 | 0 | | |
| 1,3-Dimethyl-2-Ethylbenzene | 0 | 0 | 0 | | |
| 1,4-Diethylbenzene | 0 | 0 | 0 | | |
| 1,4-Dimethyl-2-ethylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-2-Propylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-3-Isopropylbenzene | 0 | 0 | 0 | | |
| 1-Methyl-4-isopropylbenzene | 0 | 0 | 0 | | |
| 2-Methylnonane | 0 | 0 | 0 | | |
| 3-Ethyloctane | 0 | 0 | 0 | | |
| 3-Methylnonane | 0 | 0 | 0 | | |
| 4-Methylnonane | 0 | 0 | 0 | | |
| Butylbenzene | 0 | 0 | 0 | | |
| Butylcyclohexane | 0 | 0 | 0 | | |
| Isobutylbenzene | 0 | 0 | 0 | | |
| Naphthalene | 0 | 0.000729871 | 0 | | |
| n-Decane | 0 | 0 | 0 | | |
| sec-Butylbenzene | 0 | 0 | 0 | | |
| Undecane | 0 | 0.00069758 | 0.00128843 | | |
| Pentylbenzene | 0 | 0 | 0 | | |
| Dodecane | 0 | 0.000903349 | 0.00123968 | | |
| n-Tridecane | 0.000643541 | 0.00146044 | 0.00172311 | | |
| n-Tetradecane | 0.000464344 | 0 | 0.00170858 | | |
| n-Pentadecane | 0 | 0 | 0.00103024 | | |
| H2O | 0.732249 | 0.627673 | 0.798141 | | |
| MDEA | 0.000164632 | 0.0001842 | 0.000150264 | | |
| Piperazine | 5.60359E-05 | 8.63625E-05 | 4.18025E-05 | | |
| TEG | 0.00460285 | 0.00307269 | 0.00529928 | | |


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# Process Streams Report
## All Streams
**Tabulated by Total Phase**

| | | | |
|---|---|---|---|
| Client Name: | Targa Northern Delaware | Job: | |
| Location: | Red Hills GP | | |
| Flowsheet: | TEG Dehydration | | |

## Stream Properties

| Property | Units | 132 | 158 | 232 | | |
|---|---|---|---|---|---|---|
| Temperature | °F | 132.822 | 136.138 | 132.566 | | |
| Pressure | psig | 60 | 60 | 60 | | |
| Molecular Weight | lb/lbmol | 30.5287 | 27.4845 | 30.2227 | | |
| Mass Density | lb/ft^3 | 0.360593 | 0.320765 | 0.354818 | | |
| Mass Flow | lb/h | 339.979 | 187.365 | 394.537 | | |
| Std Vapor Volumetric Flow | MMSCFD | 0.101426 | 0.0620878 | 0.118894 | | |
| Std Liquid Volumetric Flow | sgpm | 1.62352 | 0.941493 | 1.76025 | | |
| Specific Gravity | | 1.05408 | 0.948968 | 1.04351 | | |
| Gross Ideal Gas Heating Value | Btu/ft^3 | 1772.22 | 1606.41 | 1401.59 | | |

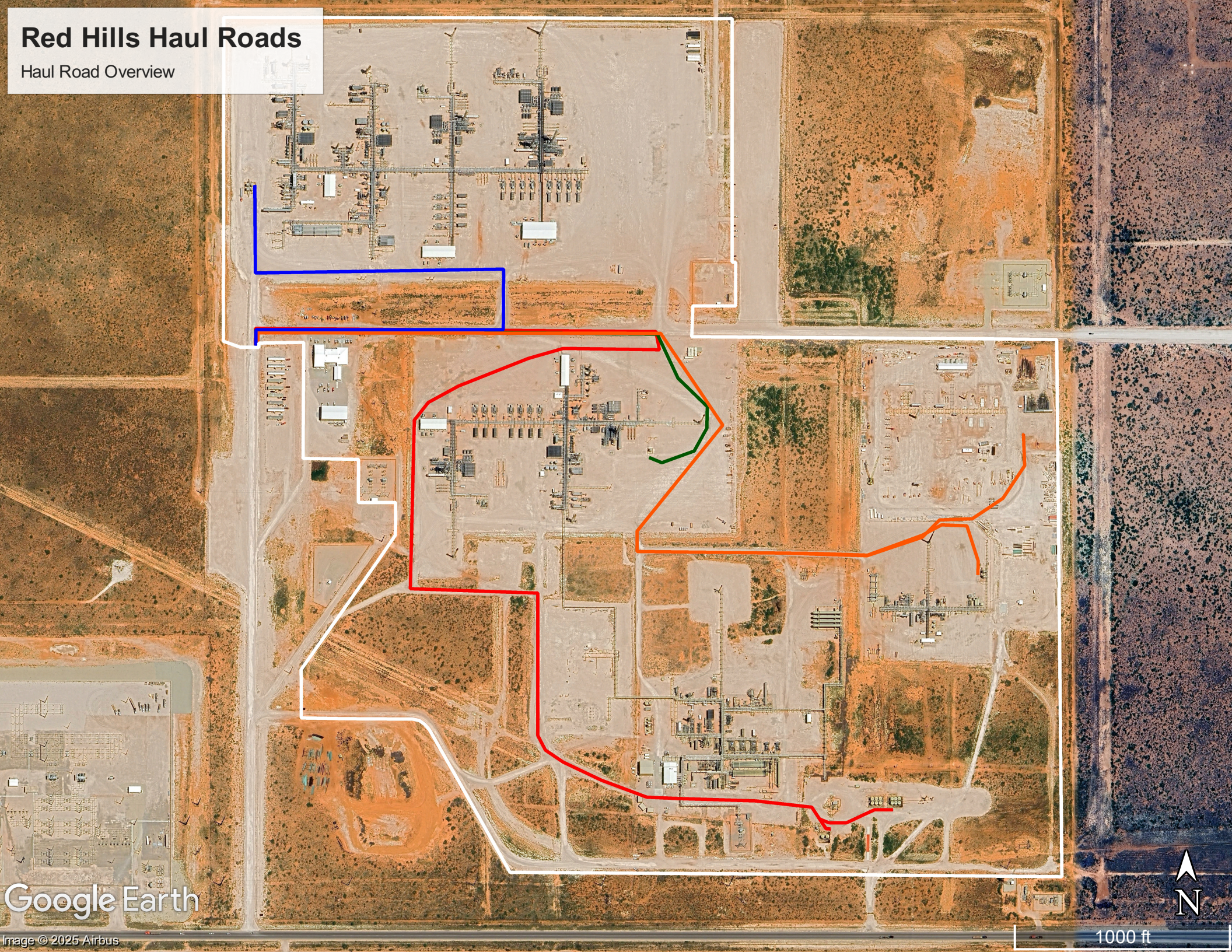
**Remarks**


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## Haul Road Maps

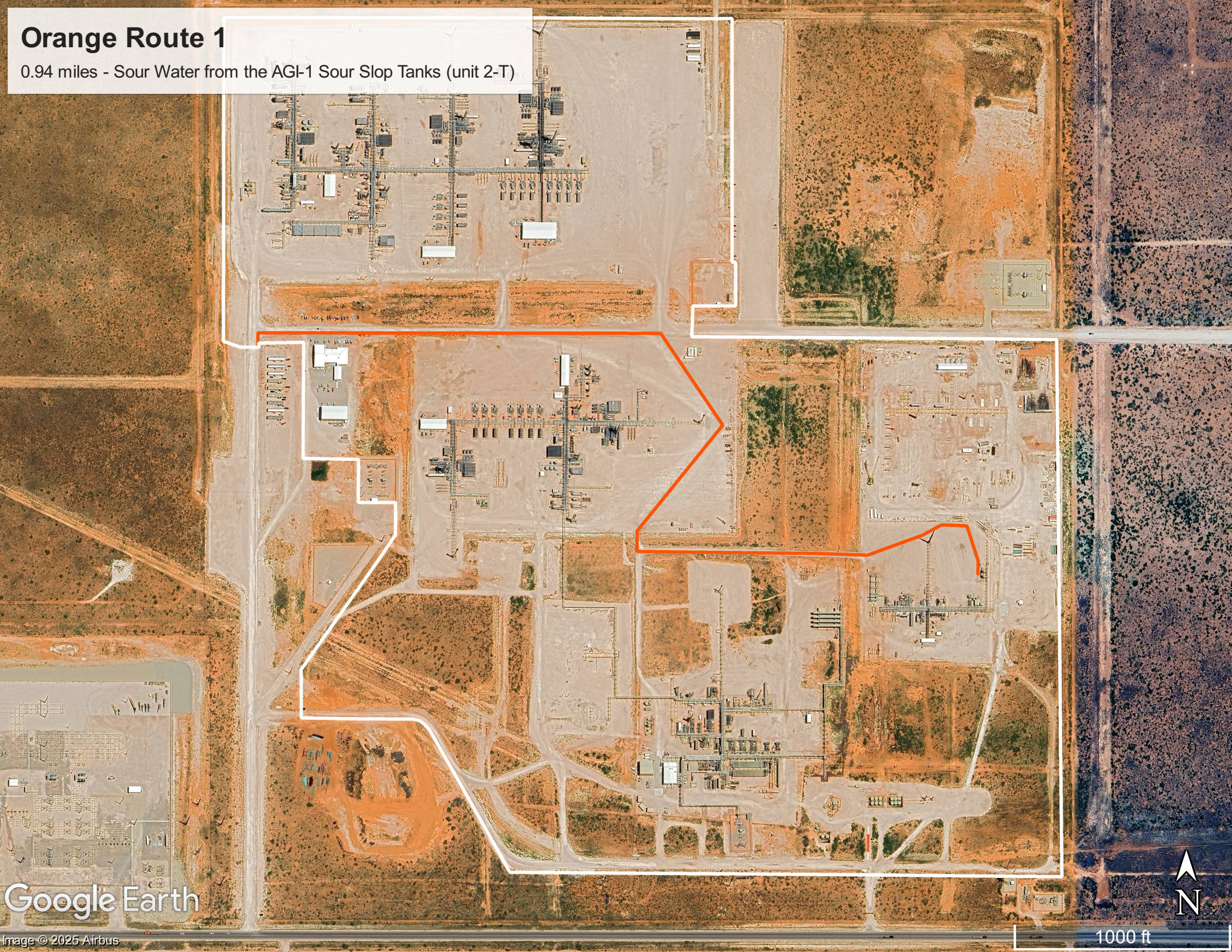
# Red Hills Haul Roads

Haul Road Overview



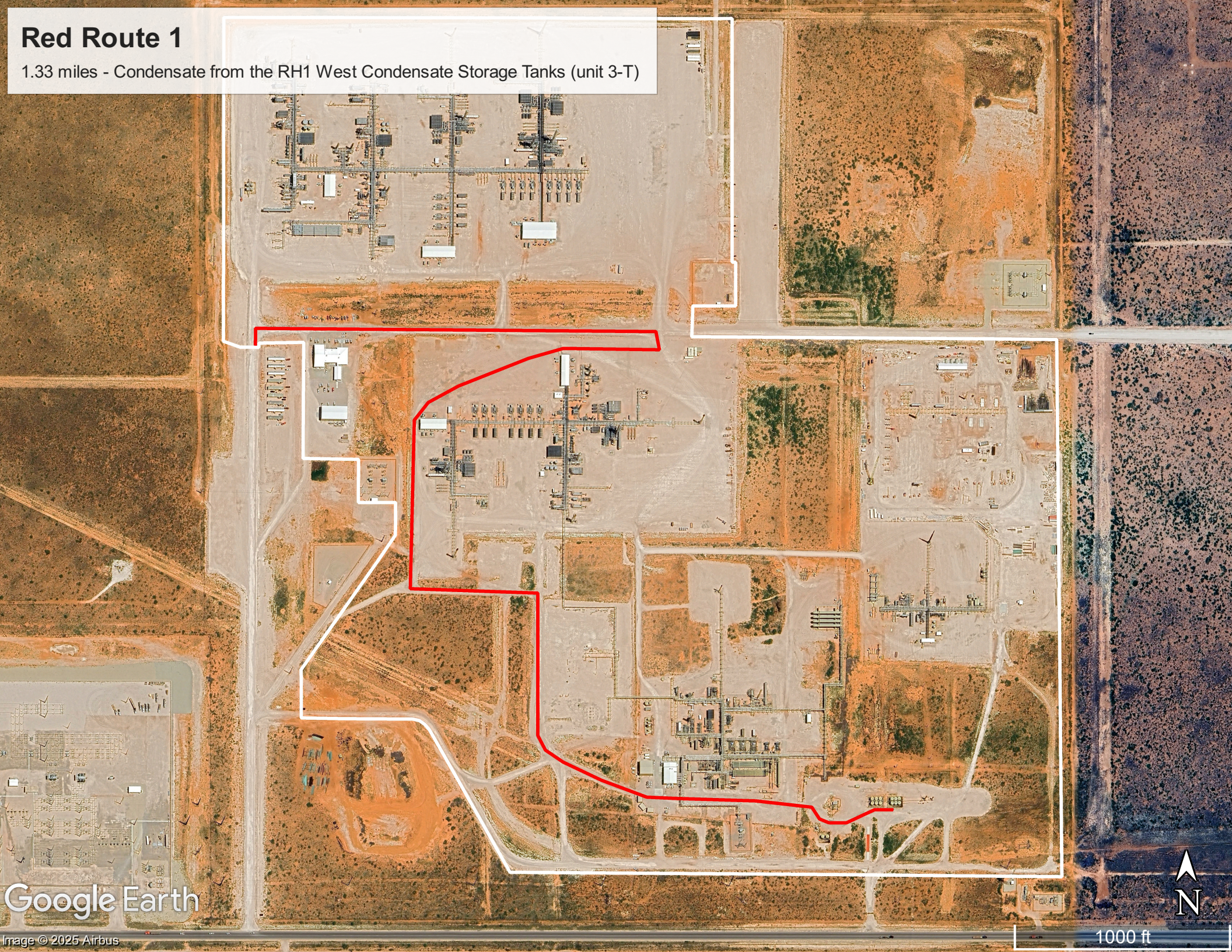
# Orange Route 1

0.94 miles - Sour Water from the AGI-1 Sour Slop Tanks (unit 2-T)



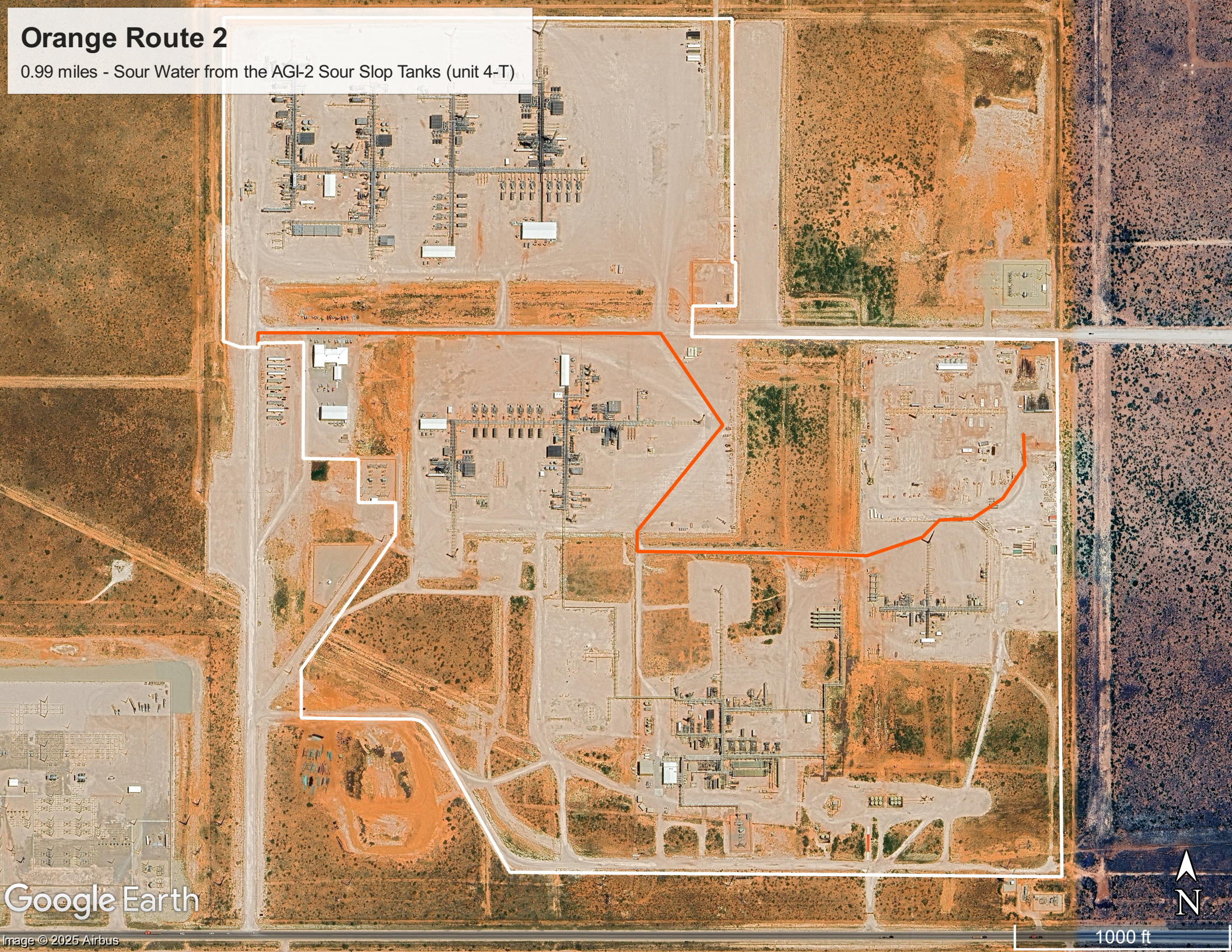
# Red Route 1

1.33 miles - Condensate from the RH1 West Condensate Storage Tanks (unit 3-T)



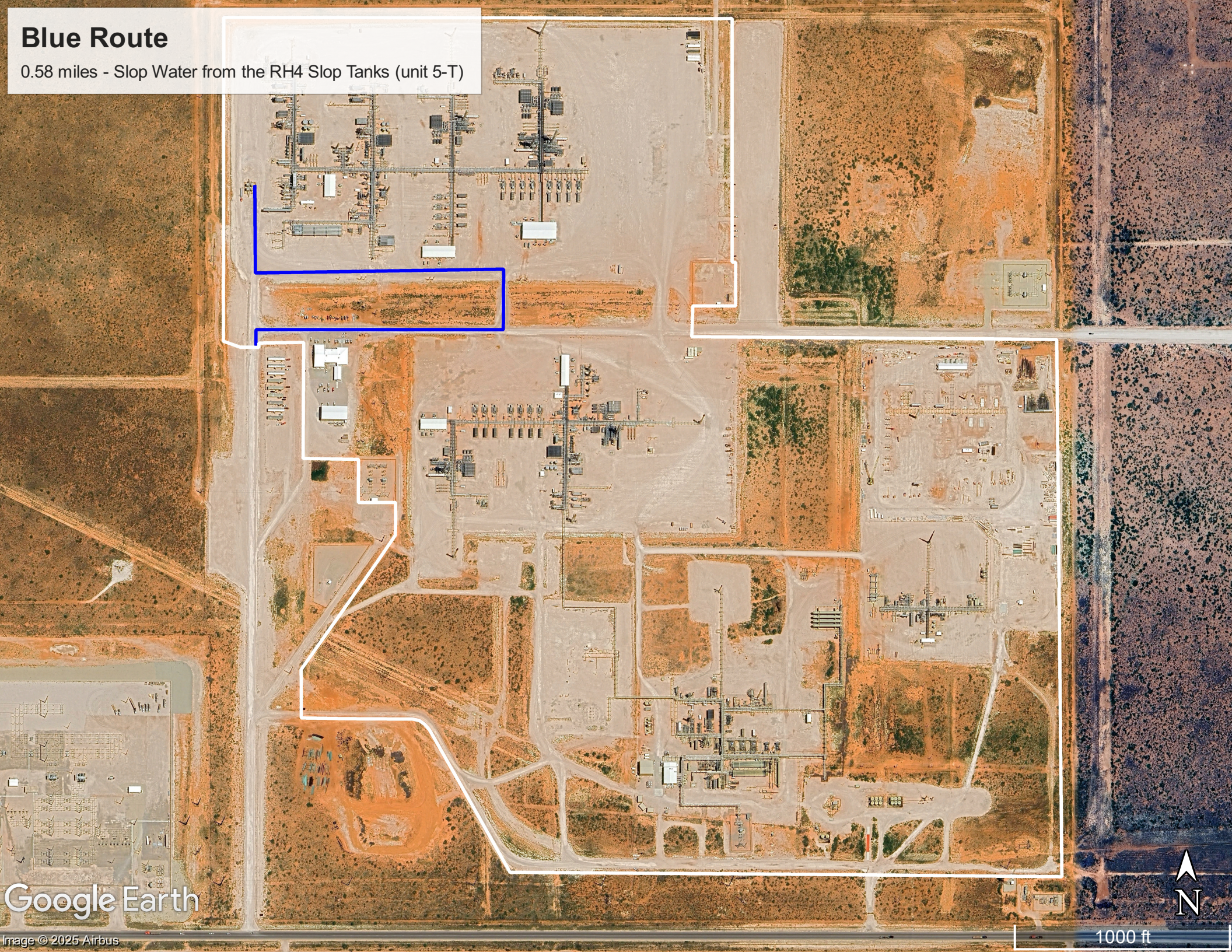
# Orange Route 2

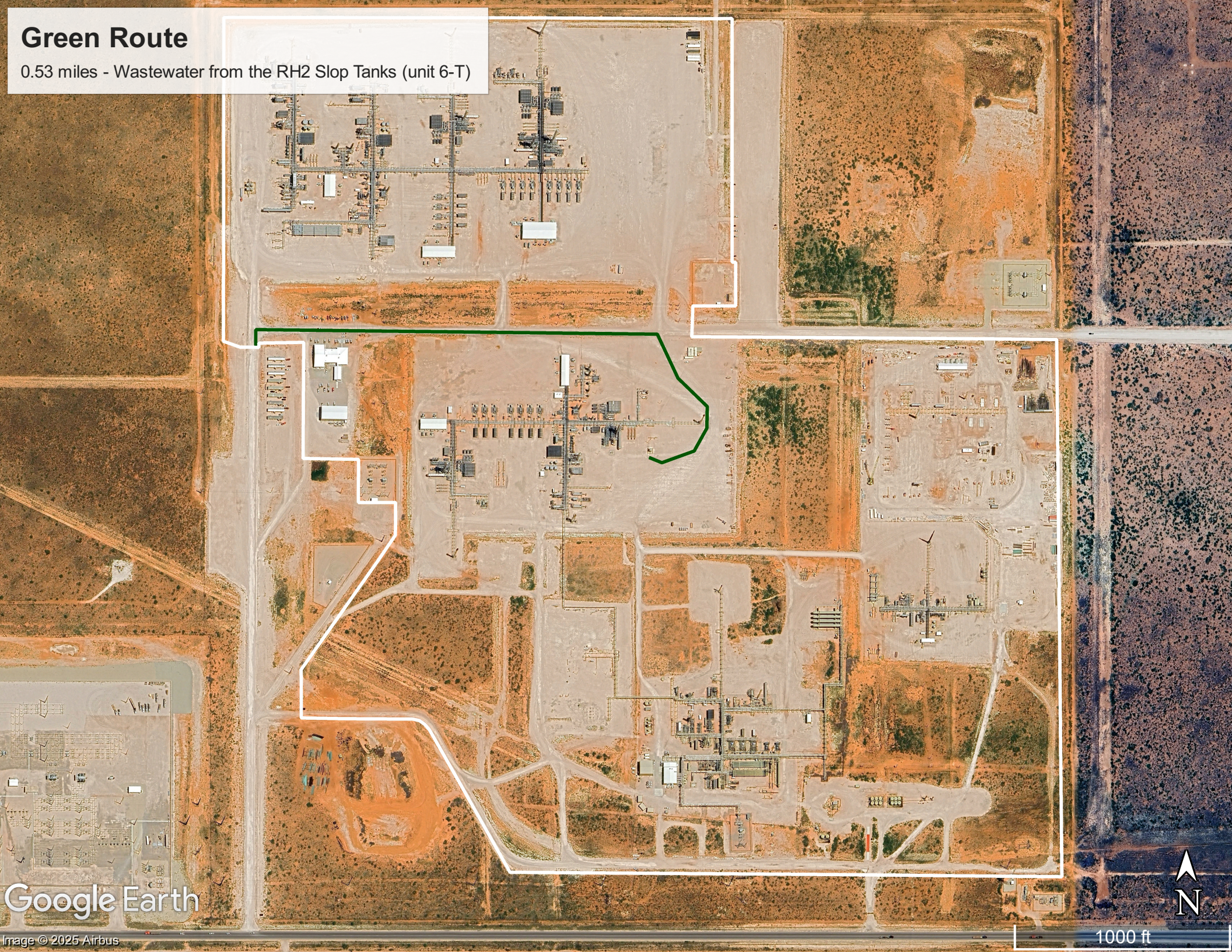
0.99 miles - Sour Water from the AGI-2 Sour Slop Tanks (unit 4-T)



# Blue Route

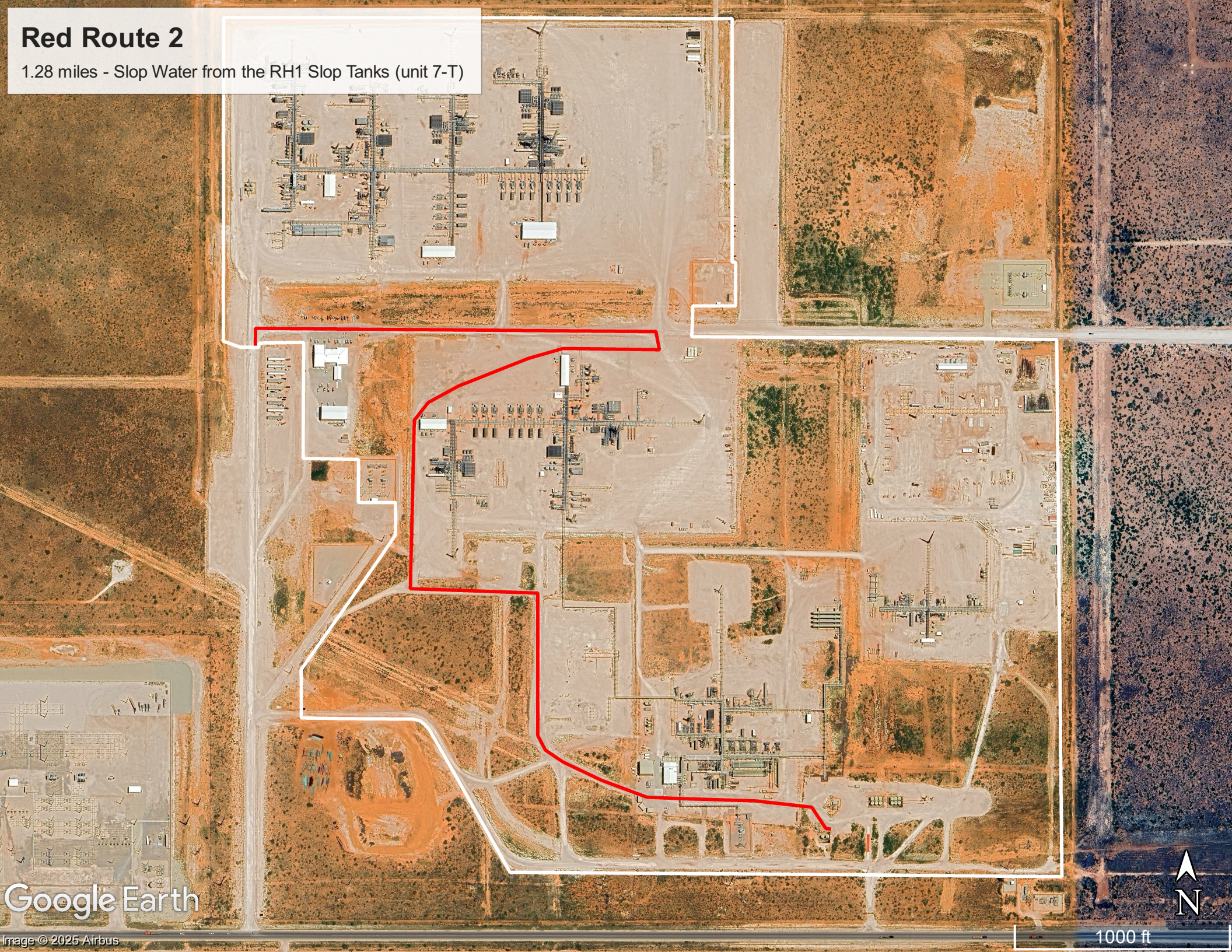
0.58 miles - Slop Water from the RH4 Slop Tanks (unit 5-T)




Green Route
0.53 miles - Wastewater from the RH2 Slop Tanks (unit 6-T)
Google Earth
Image © 2025 Airbus
N
1000 ft

# Red Route 2

1.28 miles - Slop Water from the RH1 Slop Tanks (unit 7-T)



## Loading Vapor Pressures

Loading Vapor Pressure

**RHA-TK-SLOP-LOAD**

High Inlet Gas Rate

Name: Sour Tanks (2-T) | Execute

Connections | Process Data | Tables | Streams | Notes

General | Working and Standing | Loading | Results

Summary | Working Details | Standing Details | Loading Details

| | | | |
|---|---|---|---|
| | Annual Net Throughput | 437341 | bbl/yr |
| S | Saturation Factor | 0.5 | |
| P | Vapor Pressure of Liquid Loaded | 0.709293 | psia |
| M | Vapor Molecular Weight | 29.3688 | lb/lbmol |
| T | Liquid Bulk Temperature | 67.9725 | °F |
| eff | Overall Reduction Efficiency | 0 | % |
| | Control Efficiency | 0 | % |
| | Collection Efficiency | 70 | % |

CO2 Slip

Name: Sour Tanks (2-T) | Execute

Connections | Process Data | Tables | Streams | Notes

General | Working and Standing | Loading | Results

Summary | Working Details | Standing Details | Loading Details

| | | | |
|---|---|---|---|
| | Annual Net Throughput | 437358 | bbl/yr |
| S | Saturation Factor | 0.5 | |
| P | Vapor Pressure of Liquid Loaded | 0.709604 | psia |
| M | Vapor Molecular Weight | 29.5191 | lb/lbmol |
| T | Liquid Bulk Temperature | 67.9725 | °F |
| eff | Overall Reduction Efficiency | 0 | % |
| | Control Efficiency | 0 | % |
| | Collection Efficiency | 70 | % |

**RH1-TK-COND-WEST-LOAD**

Summary | Working Details | Standing Details | Loading Details

| | | | |
|---|---|---|---|
| | Annual Net Throughput | 1.17649e+06 | bbl/yr |
| S | Saturation Factor | 0.5 | |
| P | Vapor Pressure of Liquid Loaded | 4.09949 | psia |
| M | Vapor Molecular Weight | 69.604 | lb/lbmol |
| T | Liquid Bulk Temperature | 67.9725 | °F |
| eff | Overall Reduction Efficiency | 0 | % |
| | Control Efficiency | 0 | % |
| | Collection Efficiency | 70 | % |

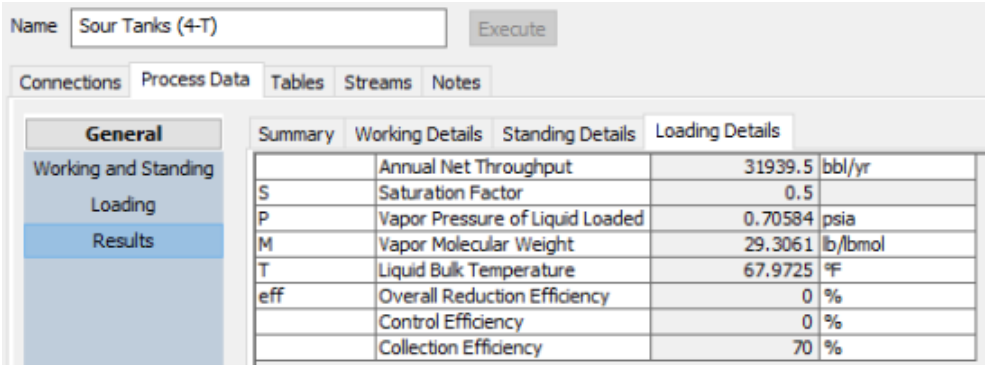
Specifications | Results | Details

| | | | |
|---|---|---|---|
| Mv(STE) | Short-Term Vapor Molecular Weight | 72.7159 | lb/lbmol |
| Pva(STE) | Vapor Pressure at Worst-Case Temperature | 6.43494 | psia |
| T(STE) | Worst-Case Liquid Surface Temperature | 95 | °F |
| FRm | Maximum Battery Filling Rate | 180 | bbl/hr |
| | Short-Term Number of Storage Tanks | 6 | |
| S | Saturation Factor | 1 | |
| | Maximum Loading Rate | 180 | bbl/hr |
| eff(STE) | Short-Term Overall Reduction Efficiency | 0 | % |
| | Short-Term Control Efficiency | 0 | % |
| | Short-Term Collection Efficiency | 70 | % |

Loading Vapor Pressure

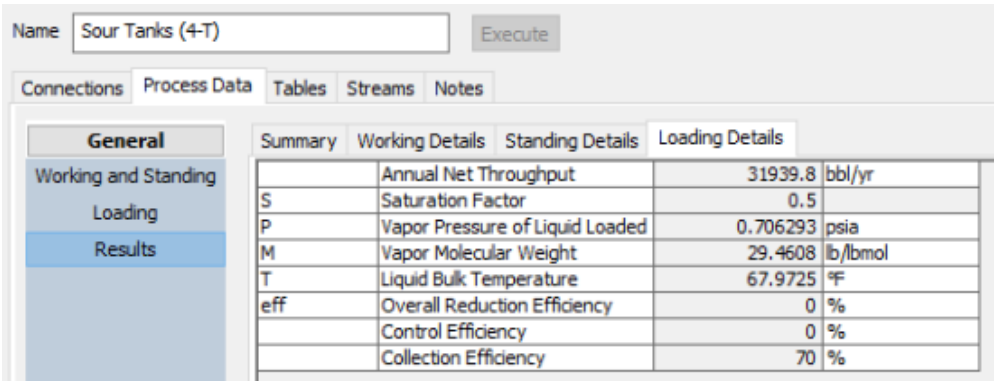
**RA2-TK-SLOP-LOAD**

High Inlet Gas Rate



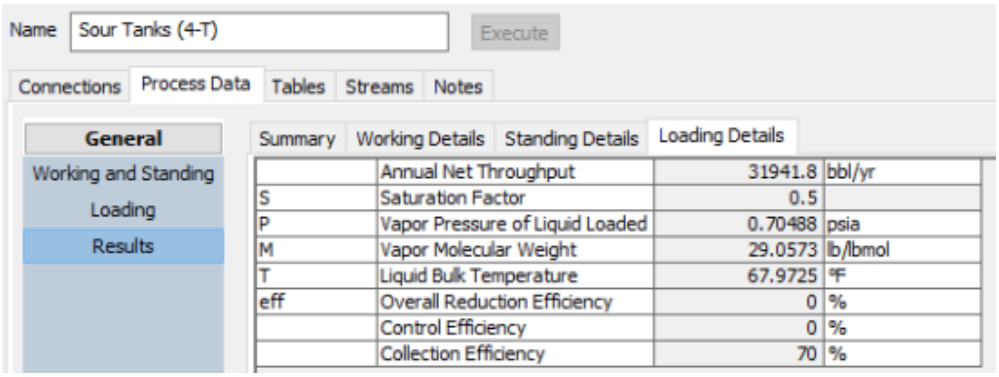

| | | | |
|---|---|---|---|
| | Annual Net Throughput | 31939.5 | bbl/yr |
| S | Saturation Factor | 0.5 | |
| P | Vapor Pressure of Liquid Loaded | 0.70584 | psia |
| M | Vapor Molecular Weight | 29.3061 | lb/lbmol |
| T | Liquid Bulk Temperature | 67.9725 | °F |
| eff | Overall Reduction Efficiency | 0 | % |
| | Control Efficiency | 0 | % |
| | Collection Efficiency | 70 | % |

CO2 Slip



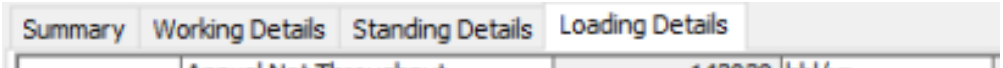

| | | | |
|---|---|---|---|
| | Annual Net Throughput | 31939.8 | bbl/yr |
| S | Saturation Factor | 0.5 | |
| P | Vapor Pressure of Liquid Loaded | 0.706293 | psia |
| M | Vapor Molecular Weight | 29.4608 | lb/lbmol |
| T | Liquid Bulk Temperature | 67.9725 | °F |
| eff | Overall Reduction Efficiency | 0 | % |
| | Control Efficiency | 0 | % |
| | Collection Efficiency | 70 | % |

High Inlet Acid Gas




| | | | |
|---|---|---|---|
| | Annual Net Throughput | 31941.8 | bbl/yr |
| S | Saturation Factor | 0.5 | |
| P | Vapor Pressure of Liquid Loaded | 0.70488 | psia |
| M | Vapor Molecular Weight | 29.0573 | lb/lbmol |
| T | Liquid Bulk Temperature | 67.9725 | °F |
| eff | Overall Reduction Efficiency | 0 | % |
| | Control Efficiency | 0 | % |
| | Collection Efficiency | 70 | % |

**RH1-TK-SLOP-LOAD, RH2-TK-SLOP-LOAD, and RH4-TK-SLOP-LOAD**




| | | | |
|---|---|---|---|
| | Annual Net Throughput | 143039 | bbl/yr |
| S | Saturation Factor | 0.6 | |
| P | Vapor Pressure of Liquid Loaded | 1.10776 | psia |
| T | Liquid Bulk Temperature | 67.9725 | °F |
| eff | Overall Reduction Efficiency | 0 | % |
| | Control Efficiency | 0 | % |
| | Collection Efficiency | 70 | % |

# Section 8

## Map(s)

---

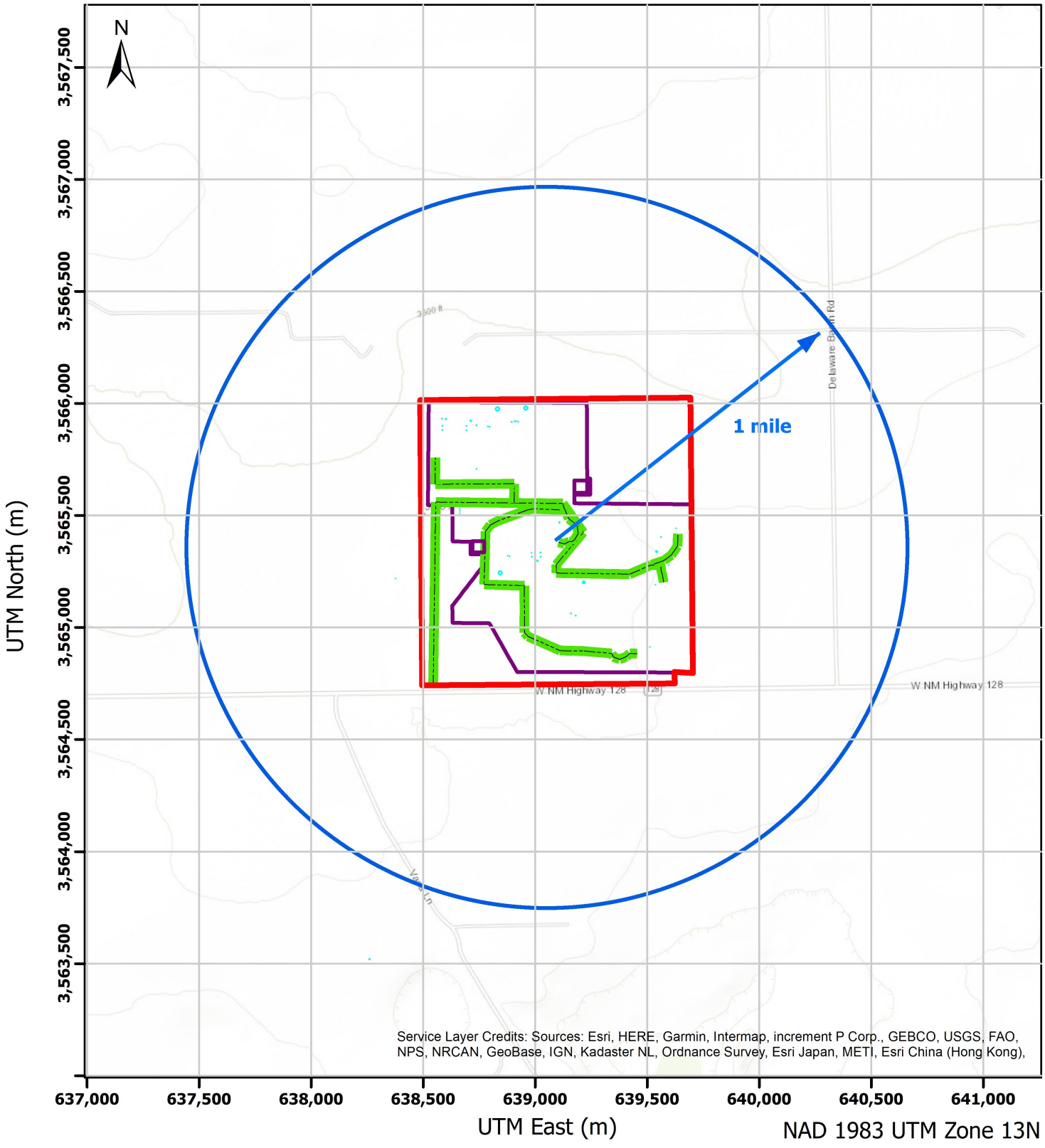
**A map** such as a 7.5 minute topographic quadrangle showing the exact location of the source. The map shall also include the following:

| | |
|---|---|
| The UTM or Longitudinal coordinate system on both axes | An indicator showing which direction is north |
| A minimum radius around the plant of 0.8km (0.5 miles) | Access and haul roads |
| Topographic features of the area | Facility property boundaries |
| The name of the map | The area which will be restricted to public access |
| A graphical scale | |

---

A topographical map is attached.

# Topographic Map of the Red Hills Gas Processing Plant



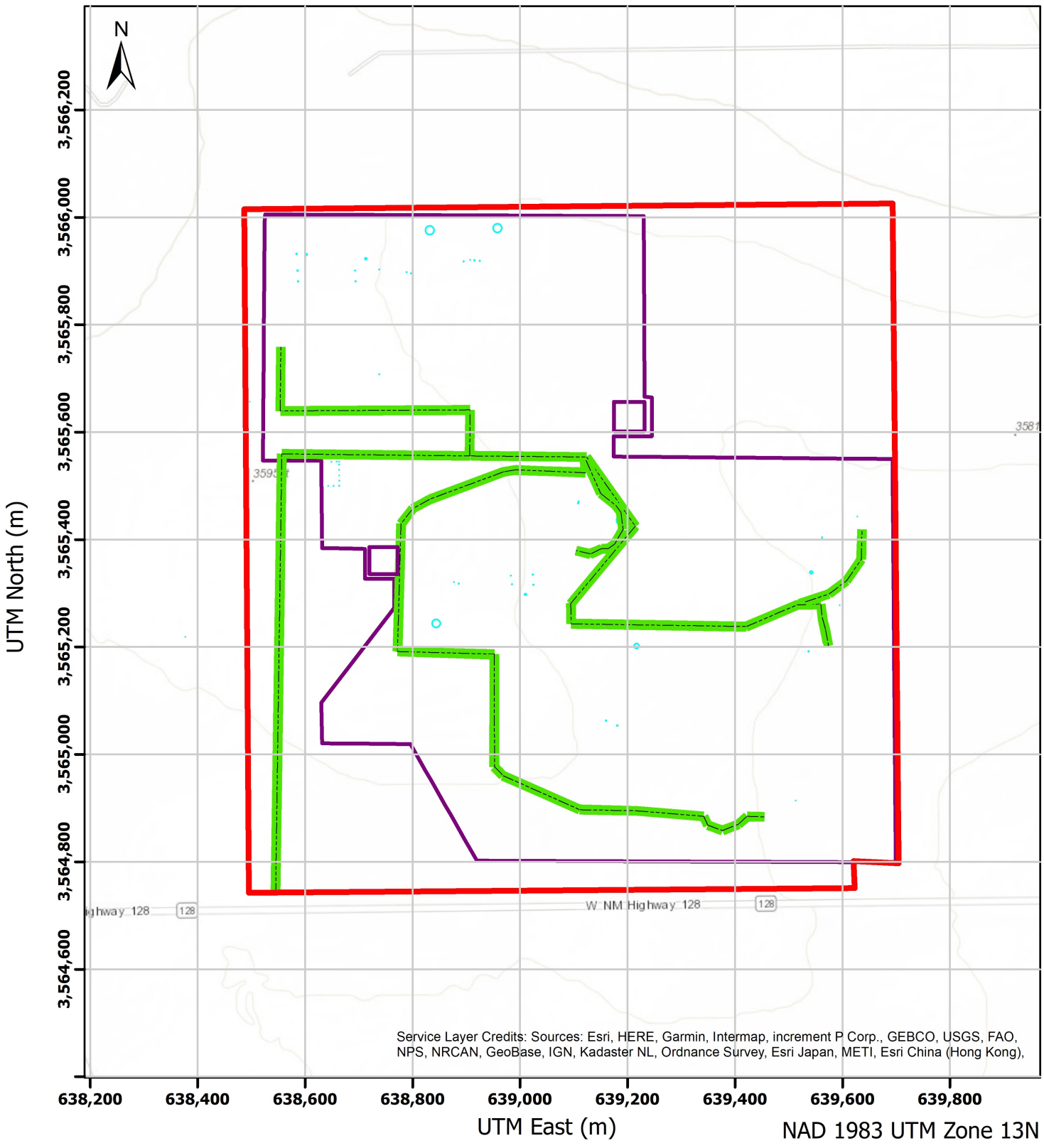

**Legend**

- Restricted Access Area
- Facility Property Boundary
- Access/Haul Roads

0 0.25 0.5 1 Miles

Trinity Consultants

# Topographic Map of the Red Hills Gas Processing Plant

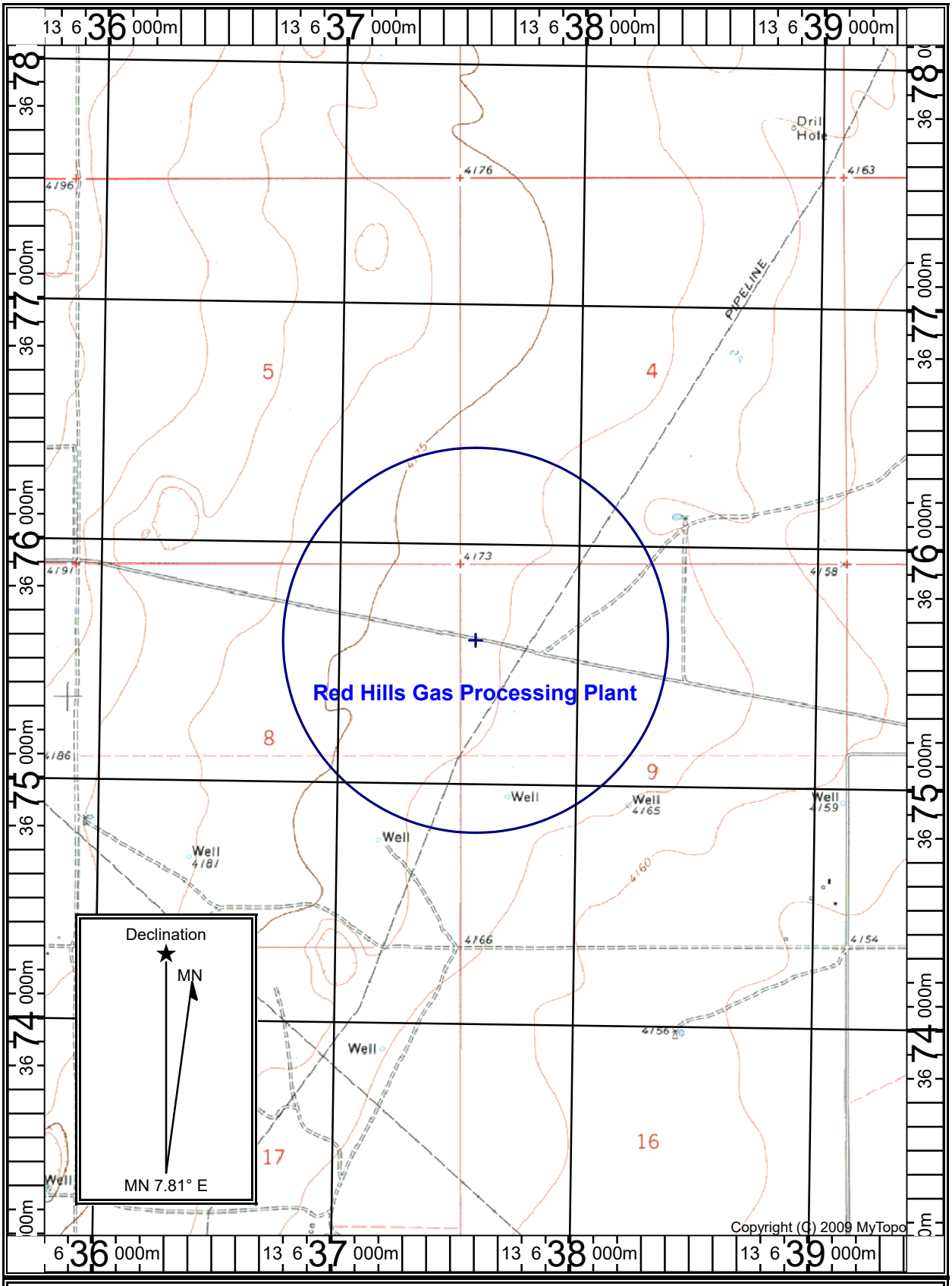



**Legend**

- Restricted Access Area
- Facility Property Boundary
- Access/Haul Roads

0 0.125 0.25 0.5 Miles

Trinity Consultants




Map Name: FRIER RANCH (NM) Scale: 1 inch = 2,000 ft. Horizontal Datum: WGS84
Print Date: 03/26/25 Map Center: 13 0637570 E 36755

# Section 9

## Proof of Public Notice

(for NSR applications submitting under 20.2.72 or 20.2.74 NMAC)
(This proof is required by: 20.2.72.203.A.14 NMAC "Documentary Proof of applicant's public notice")

---

☑ **I have read the AQB "Guidelines for Public Notification for Air Quality Permit Applications"**
This document provides detailed instructions about public notice requirements for various permitting actions. It also provides public notice examples and certification forms. Material mistakes in the public notice will require a re-notice before issuance of the permit.

---

Unless otherwise allowed elsewhere in this document, the following items document proof of the applicant's Public Notification. Please include this page in your proof of public notice submittal with checkmarks indicating which documents are being submitted with the application.

**New Permit** and **Significant Permit Revision** public notices must include all items in this list.

**Technical Revision** public notices require only items 1, 5, 9, and 10.

Per the Guidelines for Public Notification document mentioned above, include:

1. ☑ A copy of the certified letter receipts with post marks (20.2.72.203.B NMAC)
2. ☑ A list of the places where the public notice has been posted in at least four publicly accessible and conspicuous places, including the proposed or existing facility entrance. (e.g: post office, library, grocery, etc.)
3. ☑ A copy of the property tax record (20.2.72.203.B NMAC).
4. ☑ A sample of the letters sent to the owners of record.
5. ☑ A sample of the letters sent to counties, municipalities, and Indian tribes.
6. ☑ A sample of the public notice posted and a verification of the local postings.
7. ☑ A table of the noticed citizens, counties, municipalities and tribes and to whom the notices were sent in each group.
8. ☑ A copy of the public service announcement (PSA) sent to a local radio station and documentary proof of submittal.
9. ☑ A copy of the classified or legal ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
10. ☑ A copy of the display ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
11. ☑ A map with a graphic scale showing the facility boundary and the surrounding area in which owners of record were notified by mail. This is necessary for verification that the correct facility boundary was used in determining distance for notifying land owners of record.

---

9589 0710 5270 3302 0547 61

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*City, State, ZIP+4®*

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SHOUP 2018 GRANDCHILDREN'S EDU TRS
202 W STEVENS
CARLSBAD, NM 88220

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OR
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OWL MCCLOY LANDFILL, LLC
5005 LYNDON B JOHNSON FWY
SUITE 675
DALLAS, TX ~~75224~~ 75244

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BENBROOK, TX 76126

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QUAIL RANCH, LLC
PO BOX 2197
HOUSTON, TX 77252

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6120 S YALE AVE
SUITE 805
TULSA, OK 74136

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VANGARD WIRELESS, LLC
PO BOX 460389
HOUSTON, TX 77056

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6086 W 48TH AVE
AMARILLO, TX 79109

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TIP TOP SOLAR DEVCO, LLC
1 S WACKER DR
SUITE 1800
CHICAGO, IL 60606

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MAYOR OF JAL
PO DRAWER 340
710 W. WYOMING
JAL, NM 88252

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LEA COUNTY – COUNTY MANAGER
100 N. MAIN AVENUE
2ND FLOOR
LOVINGTON, NM 88260

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AGAVE ENERGY COMPANY
2424 RIDGE RD
ROCKWALL, TX 75087

**Publicly Accessible Posting Locations**

Facility Entrance East Gate and West Gate

Woolword Community Library, 100 E. Utah Ave, Jal, NM 88252

Jal City Hall, 309 South Main Street, Jal, NM, 88252

Jal United States Post Office, 111 South 4th Street, Jal, NM 88252

# General Posting of Notices – Certification

I, Mariaha O'Dell, the undersigned, certify that on {12/3/2025}, posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in the **Town** of **Jal, Lea** County, State of New Mexico on the following dates:

1. Facility entrance {12/3/2025}
2. Woolword Community Library, 100 E. Utah Ave, Jal, NM 88252 {12/3/2025}
3. Jal City Hall, 309 South Main Street, Jal, NM 88252 {12/3/2025}
4. Jal United States Post Office, 111 South 4th Street, Jal, NM 88252 {12/3/2025}

Signed this 3rd day of December, 2025,

Mariaha O'Dell — 12/3/2025

Signature — Date

Mariaha O'Dell

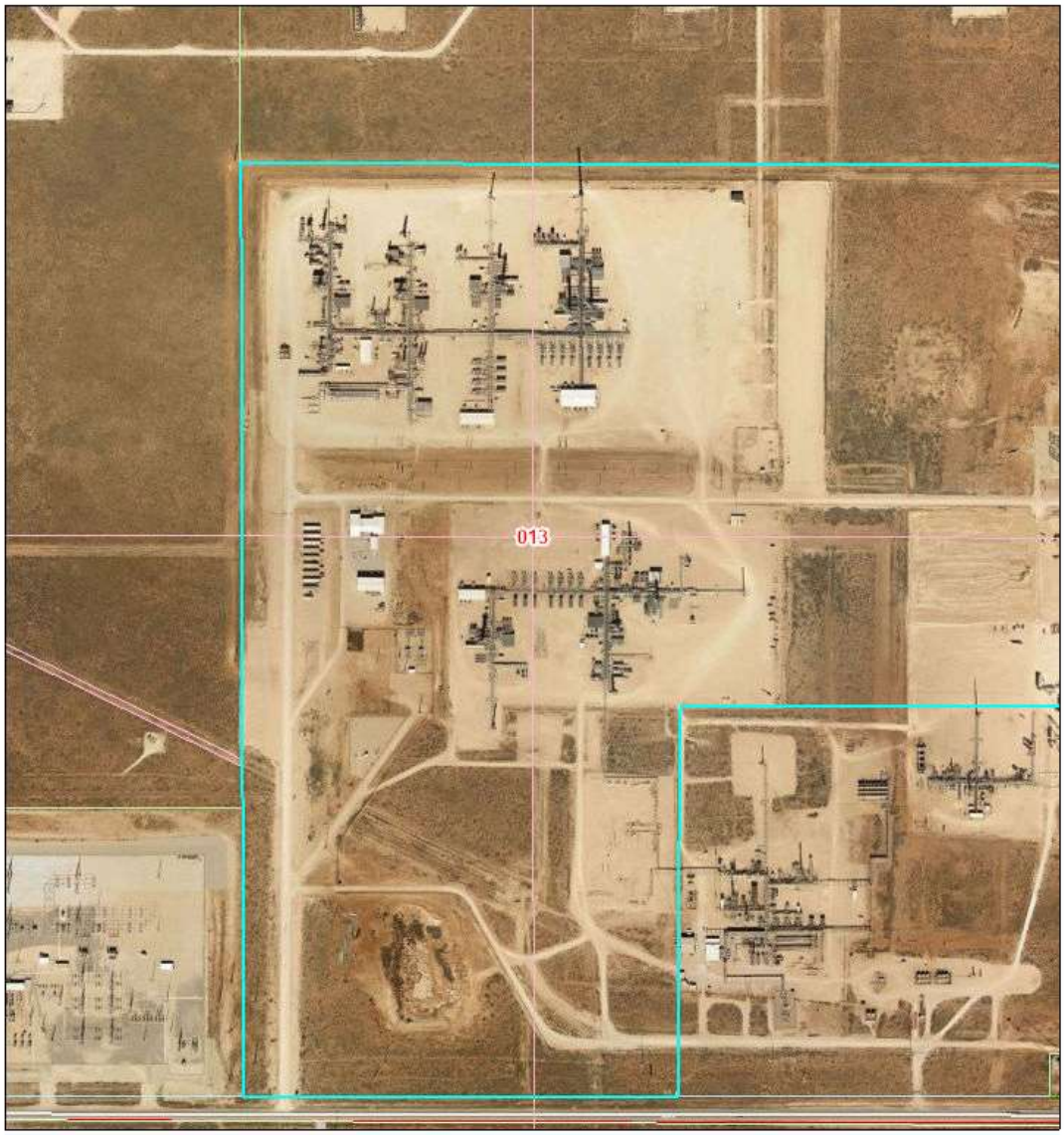
Printed Name

ES&H Specialist I

Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

Scanned with CamScanner

# Lea County Parcel Report




Sections

Lea County Roads

Parcels

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

# Parcel Details

**OWNER NUMBER:** 207339 **UPC CODE:** 4197141306275
**PARCEL NUMBER:** 4960212151901

| Owner Information | |
|---|---|
| **Owner:** | AGAVE ENERGY COMPANY |
| **Mailing Address:** | KE ANDREWS & CO % |
| **Property Address:** | |

| Subdivision Information | |
|---|---|
| **Name:** | |
| **Unit:** | |
| **Block:** | |
| **Lot:** | |

| Legal Information |
|---|
| TRACT "B" 300.09 AC |

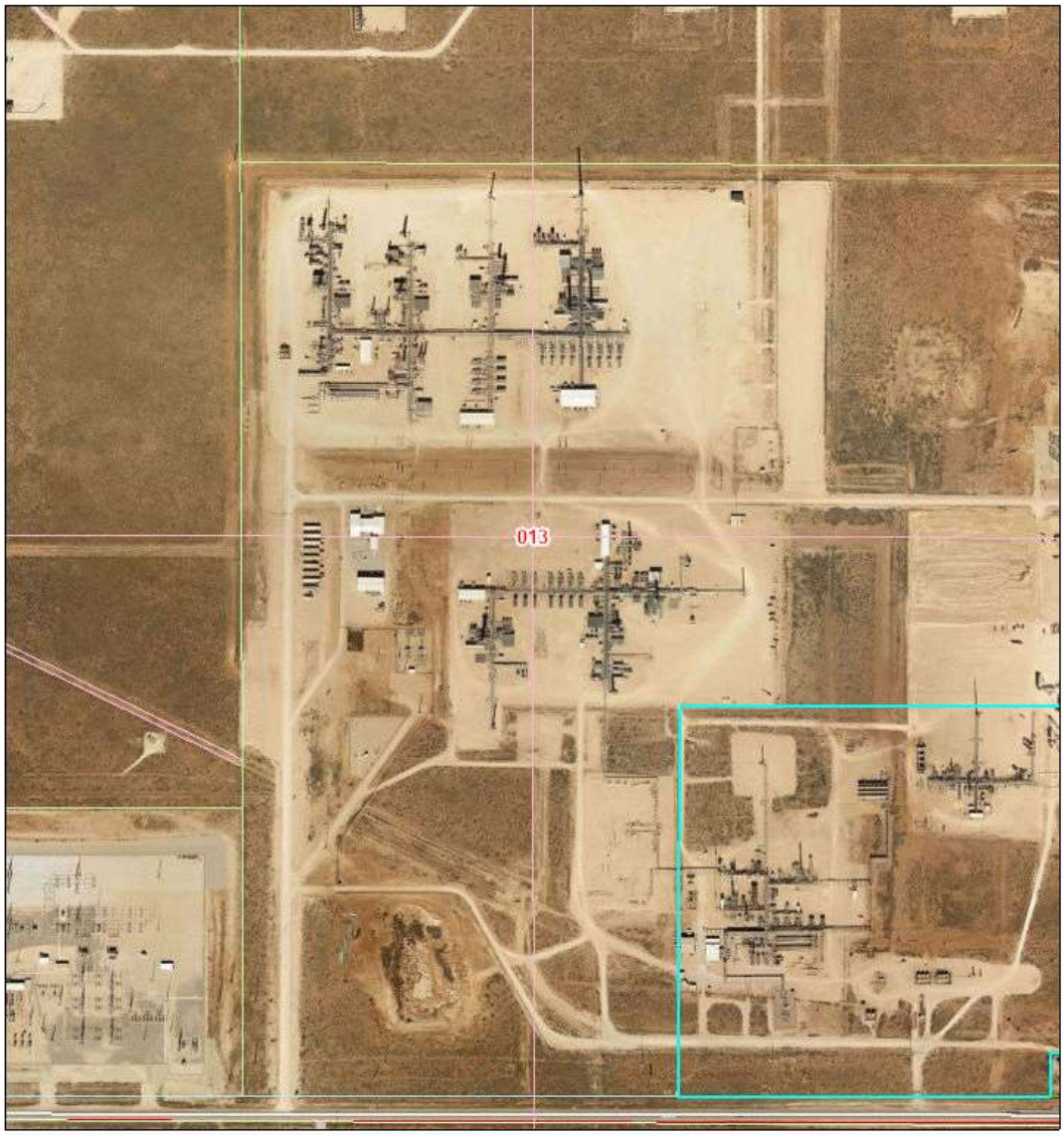
| Other Information | | | |
|---|---|---|---|
| **Taxable Value:** | $40091 | **Deed Book:** | 2004 |
| **Exempt Value:** | $0 | **Deed Page:** | 1 |
| **Net Value:** | $40091 | **District:** | 190 |
| **Livestock Value:** | $0 | **Section:** | 13 |
| **Manufactured Home Value:** | $0 | **Township:** | 24 |
| **Personal Property:** | $0 | **Range:** | 33 |
| **Land Value:** | $120273 | **Date Filed:** | 20160202 |
| **Improvement Value:** | $0 | **Most Current Tax:** | 885 |
| **Full Value:** | $120273 | **Year Recorded:** | 2016 |

**Square Foot and Year Built listed only to be used for comparative purposes, NOT to be used for commerce.**

| Building Information | | | |
|---|---|---|---|
| **Year Built:** | | **Number of Stories:** | |
| **Basement SQFT:** | | **First Floor SQFT:** | |
| **Second Floor SQFT:** | | | |

**Lea County, New Mexico Disclaimer**
**Information deeded reliable but not guaranteed. Copyright © 2023**
**MAP TO BE USED FOR TAX PURPOSES ONLY. NOT TO BE USED FOR CONVEYANCE.**

# Lea County Parcel Report




Sections
Lea County Roads
Parcels

1:9,028
0 0.05 0.1 0.2 mi
0 0.1 0.2 0.4 km

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

# Parcel Details

**OWNER NUMBER:** 207339 **UPC CODE:** 4197141431427
**PARCEL NUMBER:** 4000517880007

| Owner Information | |
|---|---|
| **Owner:** | AGAVE ENERGY COMPANY |
| **Mailing Address:** | KE ANDREWS & CO % |
| **Property Address:** | |

| Subdivision Information | |
|---|---|
| **Name:** | |
| **Unit:** | |
| **Block:** | |
| **Lot:** | |

| Legal Information |
|---|
| 79.69 AC LOC SE4 |

| Other Information | | | |
|---|---|---|---|
| **Taxable Value:** | $40091 | **Deed Book:** | 1736 |
| **Exempt Value:** | $0 | **Deed Page:** | 482 |
| **Net Value:** | $40091 | **District:** | 190 |
| **Livestock Value:** | $0 | **Section:** | 13 |
| **Manufactured Home Value:** | $0 | **Township:** | 24 |
| **Personal Property:** | $0 | **Range:** | 33 |
| **Land Value:** | $120273 | **Date Filed:** | 20110714 |
| **Improvement Value:** | $0 | **Most Current Tax:** | 885 |
| **Full Value:** | $120273 | **Year Recorded:** | 2011 |

**Square Foot and Year Built listed only to be used for comparative purposes, NOT to be used for commerce.**

| Building Information | | | |
|---|---|---|---|
| **Year Built:** | | **Number of Stories:** | |
| **Basement SQFT:** | | **First Floor SQFT:** | |
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**November 24, 2025**

CERTIFIED MAIL 9589 0710 5270 3302 0547 78
RETURN RECEIPT REQUESTED *(certified mail is required, **return receipt is optional**)*

Dear **Tip Top Solar Devco, LLC,**
**Targa Northern Delaware, LLC** announces its application submittal to the New Mexico Environment Department for an air quality permit for the **modification** of its **Red Hills Gas Processing Plant** facility. The expected date of application submittal to the Air Quality Bureau is **December 1, 2025.**

The exact location for the proposed facility known as **Red Hills Gas Processing Plant**, is at **1934 W NM Highway 128, Jal, NM 88252**. The approximate location of this facility is **20.7** miles **WNW** of Jal, NM in **Lea** county.

The proposed **modification** consists of updating calculation methodology, representation, and emission limits at the facility for all units.

The estimated maximum quantities of any regulated air contaminant will be as follows in pound per hour (pph) and tons per year (tpy) and could change slightly during the course of the Department's review:

| Pollutant: | Pounds per hour | Tons per year |
|---|---|---|
| Particulate Matter (PM) | 64 | 38 |
| $PM_{10}$ | 16 | 33 |
| $PM_{2.5}$ | 9 | 31 |
| Sulfur Dioxide ($SO_2$) | 382 | 502 |
| Nitrogen Oxides ($NO_x$) | 3,118 | 219 |
| Carbon Monoxide (CO) | 26,428 | 607 |
| Volatile Organic Compounds (VOC) | 21,416 | 1,710 |
| Total sum of all Hazardous Air Pollutants (HAPs) | 1,997 | 231 |
| Hydrogen Sulfide ($H_2S$) | 34 | 21 |
| Green House Gas Emissions as Total $CO_2e$ | N/A | 1,004,166 |

The standard and maximum operating schedules of the facility will be from 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include: **Targa Northern Delaware, LLC, 201 S 4th Street, Artesia, NM 88210.**

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816. Other comments and questions may be submitted verbally. (505) 476-4300; 1 800 224-7009.

Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

**Attención**

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-629-7748.

Sincerely,
**Targa Northern Delaware, LLC**
**201 S 4th Street**
**Artesia, NM 88210**

**Notice of Non-Discrimination**
NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@env.nm.gov. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.

**November 24, 2025**

CERTIFIED MAIL 9589 0710 5270 3302 0547 47
RETURN RECEIPT REQUESTED *(certified mail is required, **return receipt is optional**)*

Dear **Southwestern Public Service, Co,**
**Targa Northern Delaware, LLC** announces its application submittal to the New Mexico Environment Department for an air quality permit for the **modification** of its **Red Hills Gas Processing Plant** facility. The expected date of application submittal to the Air Quality Bureau is **December 1, 2025.**

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| Hydrogen Sulfide ($H_2S$) | 34 | 21 |
| Green House Gas Emissions as Total $CO_2e$ | N/A | 1,004,166 |

The standard and maximum operating schedules of the facility will be from 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include: **Targa Northern Delaware, LLC, 201 S 4th Street, Artesia, NM 88210.**

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Sincerely,
**Targa Northern Delaware, LLC**
**201 S 4th Street**
**Artesia, NM 88210**

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**November 24, 2025**

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Dear **Vangard Wireless, LLC,**
**Targa Northern Delaware, LLC** announces its application submittal to the New Mexico Environment Department for an air quality permit for the **modification** of its **Red Hills Gas Processing Plant** facility. The expected date of application submittal to the Air Quality Bureau is **December 1, 2025.**

The exact location for the proposed facility known as **Red Hills Gas Processing Plant**, is at **1934 W NM Highway 128, Jal, NM 88252**. The approximate location of this facility is **20.7** miles **WNW** of Jal, NM in **Lea** county.

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| Hydrogen Sulfide ($H_2S$) | 34 | 21 |
| Green House Gas Emissions as Total $CO_2e$ | N/A | 1,004,166 |

The standard and maximum operating schedules of the facility will be from 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include: **Targa Northern Delaware, LLC, 201 S 4th Street, Artesia, NM 88210.**

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816. Other comments and questions may be submitted verbally. (505) 476-4300; 1 800 224-7009.

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Sincerely,
**Targa Northern Delaware, LLC**
**201 S 4th Street**
**Artesia, NM 88210**

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**November 24, 2025**

CERTIFIED MAIL 9589 0710 5270 3302 0548 08
RETURN RECEIPT REQUESTED *(certified mail is required, **return receipt is optional**)*

Dear **Quail Ranch, LLC,**
**Targa Northern Delaware, LLC** announces its application submittal to the New Mexico Environment Department for an air quality permit for the **modification** of its **Red Hills Gas Processing Plant** facility. The expected date of application submittal to the Air Quality Bureau is **December 1, 2025.**

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| Hydrogen Sulfide ($H_2S$) | 34 | 21 |
| Green House Gas Emissions as Total $CO_2e$ | N/A | 1,004,166 |

The standard and maximum operating schedules of the facility will be from 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include: **Targa Northern Delaware, LLC, 201 S 4th Street, Artesia, NM 88210.**

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816. Other comments and questions may be submitted verbally. (505) 476-4300; 1 800 224-7009.

Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

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Sincerely,
**Targa Northern Delaware, LLC**
**201 S 4th Street**
**Artesia, NM 88210**

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**November 24, 2025**

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RETURN RECEIPT REQUESTED *(certified mail is required, **return receipt is optional**)*

Dear **NGL North Ranch, LLC,**
**Targa Northern Delaware, LLC** announces its application submittal to the New Mexico Environment Department for an air quality permit for the **modification** of its **Red Hills Gas Processing Plant** facility. The expected date of application submittal to the Air Quality Bureau is **December 1, 2025.**

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| Green House Gas Emissions as Total $CO_2e$ | N/A | 1,004,166 |

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Owners and operators of the facility include: **Targa Northern Delaware, LLC, 201 S 4th Street, Artesia, NM 88210.**

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**201 S 4th Street**
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**November 24, 2025**

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RETURN RECEIPT REQUESTED *(certified mail is required, **return receipt is optional**)*

Dear **Billie Mc Kandles Fortner,**
**Targa Northern Delaware, LLC** announces its application submittal to the New Mexico Environment Department for an air quality permit for the **modification** of its **Red Hills Gas Processing Plant** facility. The expected date of application submittal to the Air Quality Bureau is **December 1, 2025.**

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Sincerely,
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**201 S 4th Street**
**Artesia, NM 88210**

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**November 24, 2025**

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Dear **Owl McCloy Landfill, LLC,**
**Targa Northern Delaware, LLC** announces its application submittal to the New Mexico Environment Department for an air quality permit for the **modification** of its **Red Hills Gas Processing Plant** facility. The expected date of application submittal to the Air Quality Bureau is **December 1, 2025.**

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| Hydrogen Sulfide ($H_2S$) | 34 | 21 |
| Green House Gas Emissions as Total $CO_2e$ | N/A | 1,004,166 |

The standard and maximum operating schedules of the facility will be from 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

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Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

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Sincerely,
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**201 S 4th Street**
**Artesia, NM 88210**

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**November 24, 2025**

CERTIFIED MAIL 9589 0710 5270 3302 0547 61
RETURN RECEIPT REQUESTED *(certified mail is required, **return receipt is optional**)*

Dear **Shoup 2018 Grandchildren's EDU TRS,**
**Targa Northern Delaware, LLC** announces its application submittal to the New Mexico Environment Department for an air quality permit for the **modification** of its **Red Hills Gas Processing Plant** facility. The expected date of application submittal to the Air Quality Bureau is **December 1, 2025.**

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**November 24, 2025**

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Dear **Lea County - County Manager,**
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Dear **Mayor of Jal,**
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Dear **Agave Energy Company,**
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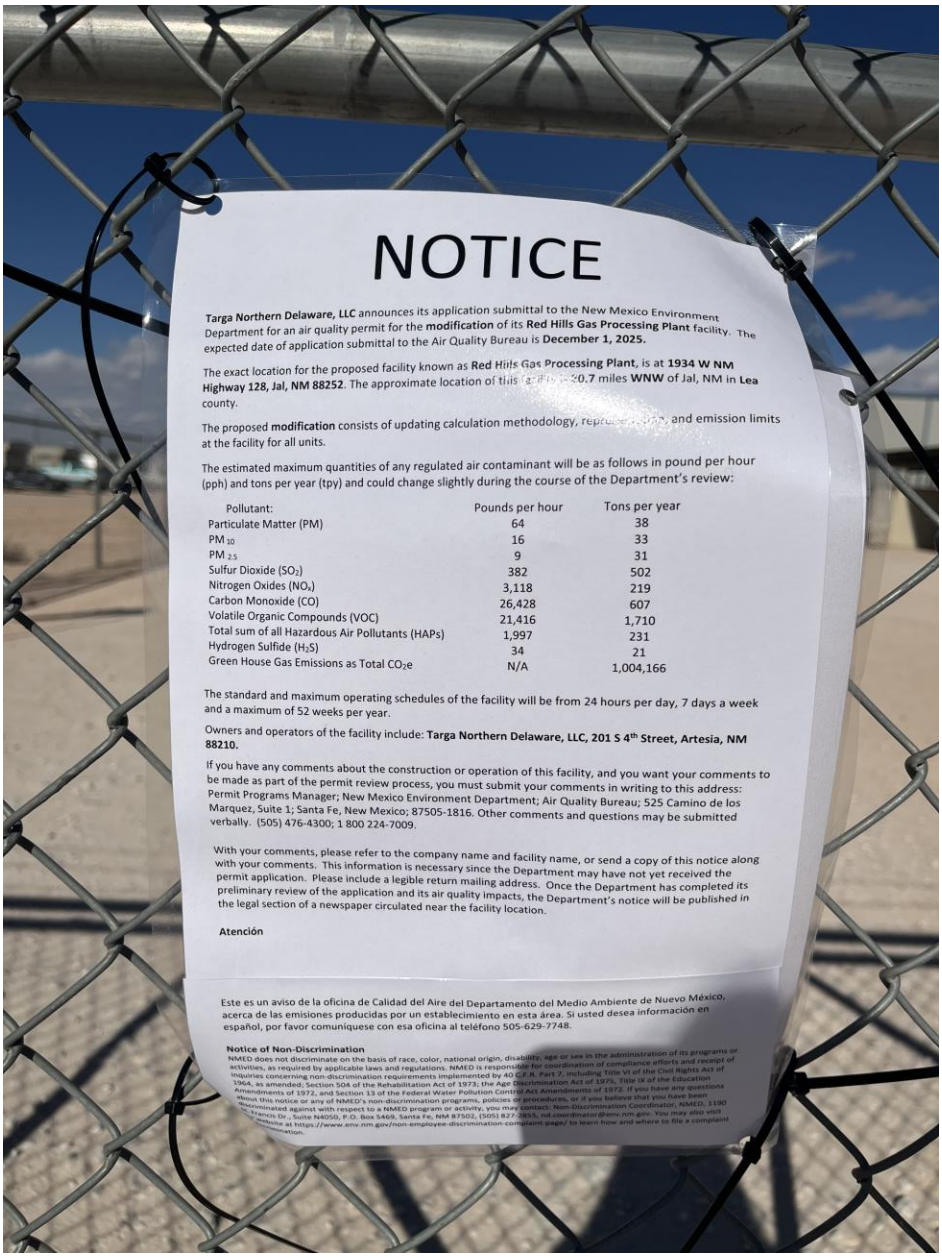
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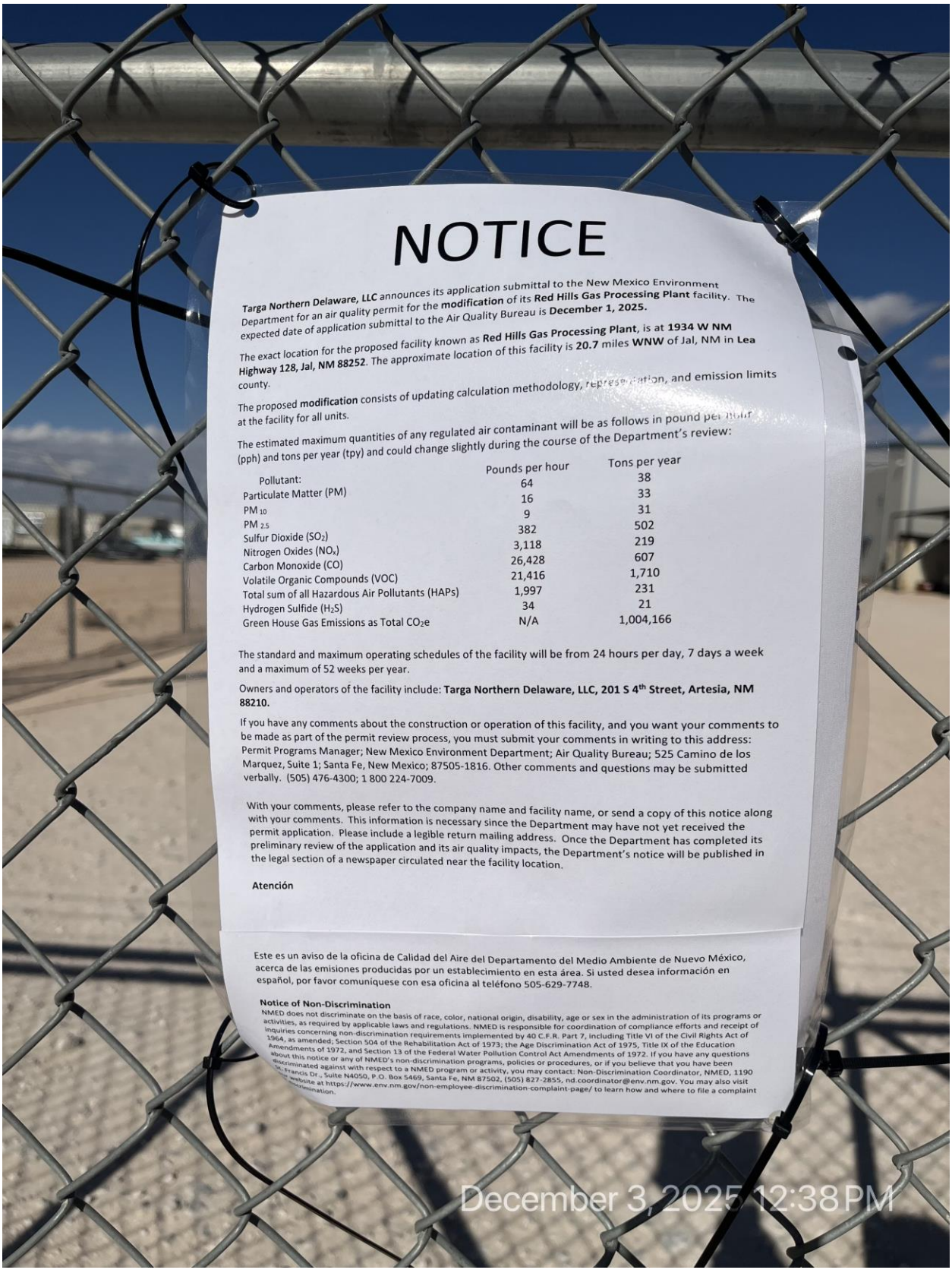
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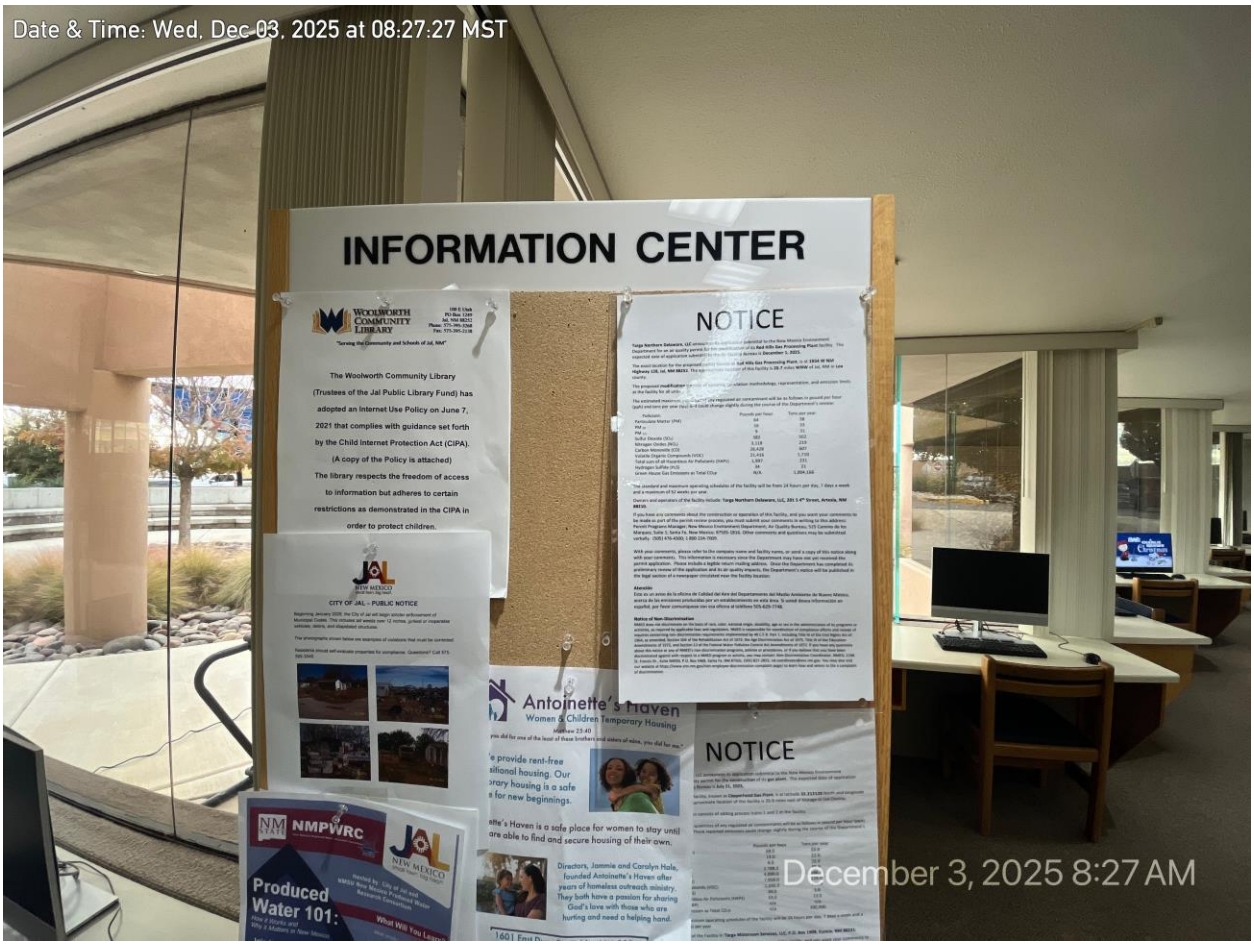
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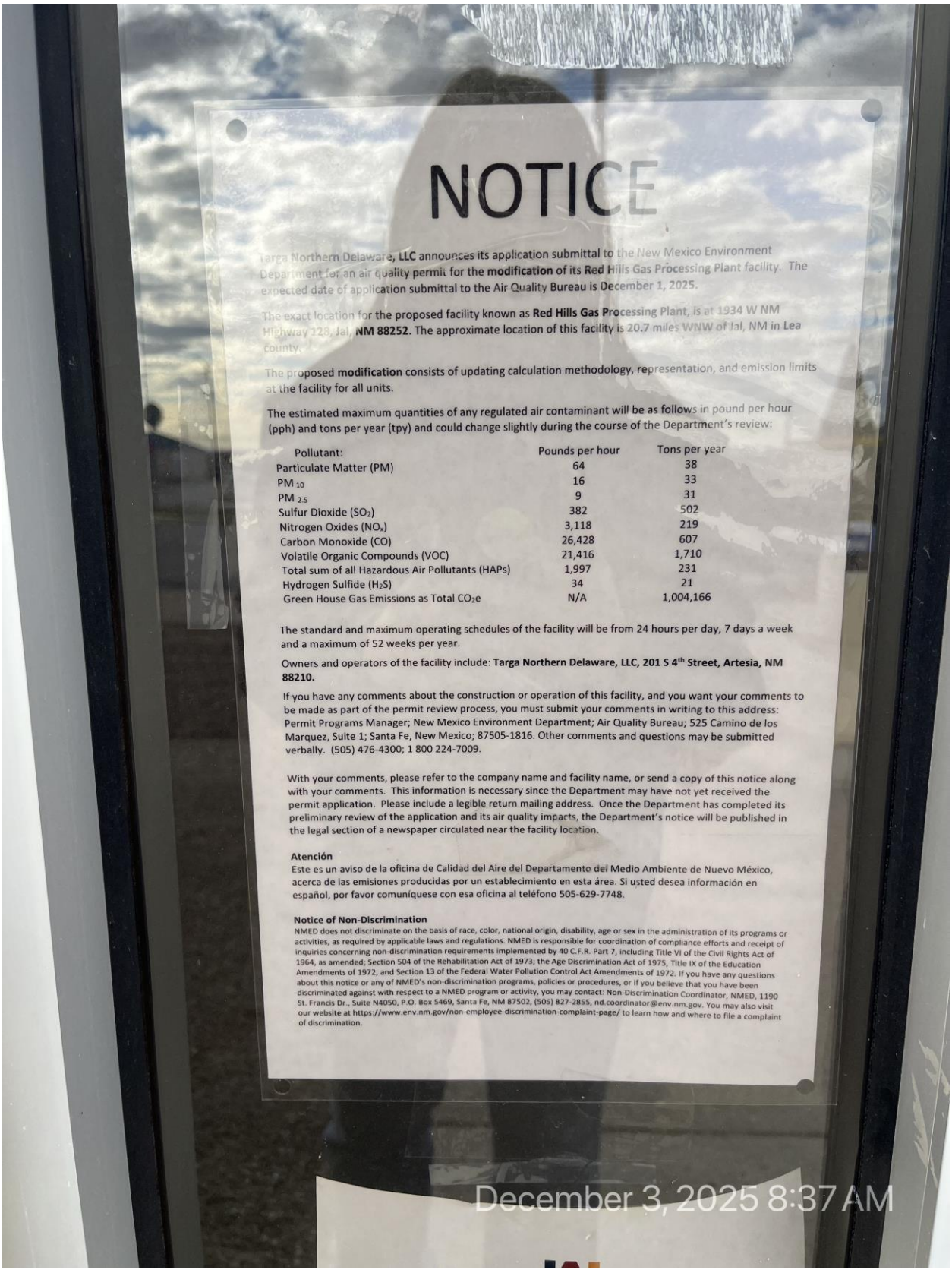
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The proposed modification consists of updating calculation methodology, representation, and emission limits at the facility for all units.
The estimated maximum quantities of any regulated air contaminant will be as follows in pound per hour (pph) and tons per year (tpy) and could change slightly during the course of the Department's review:
Pollutant: Pounds per hour Tons per year
Particulate Matter (PM) 64 38
PM 10 16 33
PM 2.5 9 31
Sulfur Dioxide ($SO_2$) 382 502
Nitrogen Oxides ($NO_x$) 3,118 219
Carbon Monoxide (CO) 26,428 607
Volatile Organic Compounds (VOC) 21,416 1,710
Total sum of all Hazardous Air Pollutants (HAPs) 1,997 231
Hydrogen Sulfide ($H_2S$) 34 21
Green House Gas Emissions as Total $CO_2e$ N/A 1,004,166
The standard and maximum operating schedules of the facility will be from 24 hours per day, 7 days a week and a maximum of 52 weeks per year.
Owners and operators of the facility include: Targa Northern Delaware, LLC, 201 S 4th Street, Artesia, NM 88210.
If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816. Other comments and questions may be submitted verbally. (505) 476-4300; 1 800 224-7009.
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Notice of Non-Discrimination
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December 3, 2025 12:38 PM


Date & Time: Wed, Dec 03, 2025 at 08:27:27 MST
INFORMATION CENTER
WOODWORTH COMMUNITY LIBRARY
"Serving the Community and Schools of Jal, NM"
The Woolworth Community Library
(Trustees of the Jal Public Library Fund) has
adopted an Internet Use Policy on June 7,
2021 that complies with guidance set forth
by the Child Internet Protection Act (CIPA).
(A copy of the Policy is attached)
The library respects the freedom of access
to information but adheres to certain
restrictions as demonstrated in the CIPA in
order to protect children.
NOTICE
JAL NEW MEXICO
CITY OF JAL – PUBLIC NOTICE
Antoinette's Haven
Women & Children Temporary Housing
Matthew 23:40
provide rent-free
sitional housing. Our
rary housing is a safe
for new beginnings.
NOTICE
NMPWRC
Produced
Water 101:
ette's Haven is a safe place for women to stay until
are able to find and secure housing of their own.
Directors, Jammie and Carolyn Hale,
founded Antoinette's Haven after
years of homeless outreach ministry.
They both have a passion for sharing
God's love with those who are
hurting and need a helping hand.
December 3, 2025 8:27 AM


NOTICE
Full Service Hours:
Mon. - Fri. 8:30am - 4:30pm
Closed for Lunch 11:30am - 12:30pm
Saturday Closed
Sunday & Holidays Closed
P.O. Box Section Hours:
24 Hours A Day/7 Days A Week
MISSING SHIHTZU
$REWARDS
Jal Post Office
Jal, New Mexico
SHIP BY
THESE DATES
INTERNATIONAL
Dec 9
Dec 16
December 3, 2025 8:37 AM



# NOTICE

Targa Northern Delaware, LLC announces its application submittal to the New Mexico Environment Department for an air quality permit for the **modification** of its **Red Hills Gas Processing Plant facility.** The expected date of application submittal to the Air Quality Bureau is **December 1, 2025.**

The exact location for the proposed facility known as **Red Hills Gas Processing Plant,** is at 1934 W NM Highway 128, Jal, **NM 88252**. The approximate location of this facility is 20.7 miles WNW of Jal, NM in Lea county.

The proposed **modification** consists of updating calculation methodology, representation, and emission limits at the facility for all units.

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| Hydrogen Sulfide ($H_2S$) | 34 | 21 |
| Green House Gas Emissions as Total $CO_2e$ | N/A | 1,004,166 |

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**Atención**

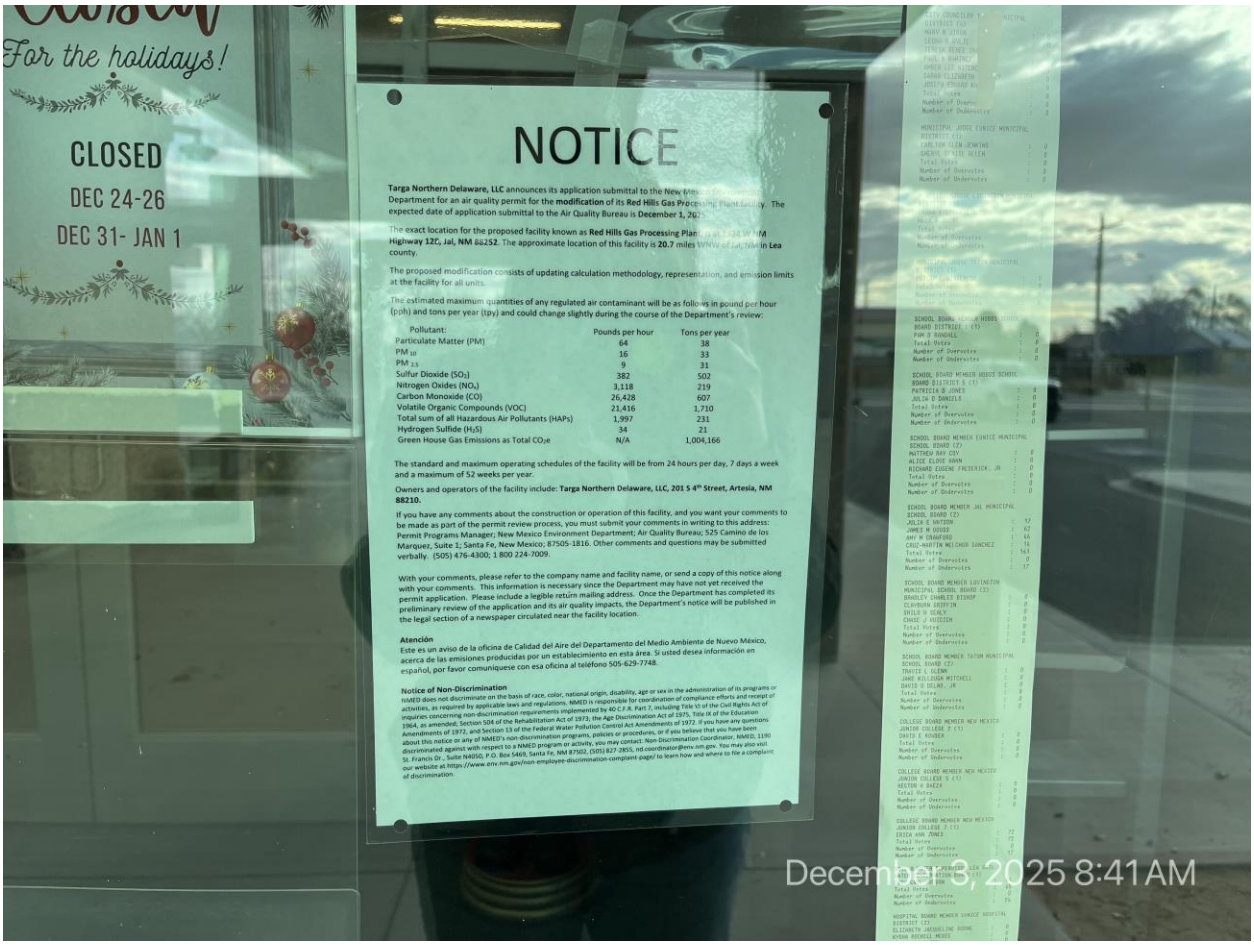
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December 3, 2025 8:37 AM


@FmLCrafts
NOTICE
NOTICE
Closed
CLOSED
December 3, 2025 8:41AM


For the holidays!
CLOSED
DEC 24-26
DEC 31- JAN 1
NOTICE
Targa Northern Delaware, LLC announces its application submittal to the New
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December 3, 2025 8:41 AM


TARGA
ALL VISITORS
MUST REPORT
TO MAIN OFFICE
TO SIGN IN
AND OUT
OF FACILITY
NOTICE


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AND OUT
OF FACILITY
NOTICE

**Table of Noticed Citizens**

| Name | Address | City | State | Zip Code |
|---|---|---|---|---|
| VANGARD WIRELESS, LLC | PO BOX 460389 | HOUSTON | TX | 77056 |
| SOUTHWESTER PUBLIC SERVCE CO | 6086 W 48TH AVE | AMARILLO | TX | 79109 |
| NGL NORTH RANCH, LLC | 6120 S YALE AVE, SUITE 805 | TULSA | OK | 74136 |
| SHOUP 2018 GRANDCHILDREN'S EDU TRS | 202 W STEVENS | CARLSBAD | NM | 88221 |
| TIP TOP SOLAR DEVCO, LLC | 1 S WACKER DR, SUITE 1800 | CHICAGO | IL | 60606 |
| OWL MCCLOY LANDFILL, LLC | 5005 LYNDON B JOHNSON FWY, SUITE 675 | DALLAS | TX | 77224 |
| AGAVE ENERGY COMPANY | 2424 RIDGE RD | ROCKWALL | TX | 75087 |
| QUAIL RANCH, LLC | PO BOX 2197 | HOUSTON | TX | 77252 |
| BILLIE MC KANDLES FORTNER | 1033 PARK CENTER ST | BENBROOK | TX | 76126 |

**Table of Noticed Municipalities**

| Name | Address | City | State | Zip Code |
|---|---|---|---|---|
| JAL CITY MANAGER | PO DRAWER 340, 710 W. WYOMING | JAL | NM | 88252 |

**Table of Noticed Counties**

| Name | Address | City | State | Zip Code |
|---|---|---|---|---|
| LEA COUNTY – COUNTY MANAGER | 100 N. MAIN AVENUE, 2ND FLOOR | LOVINGTON | NM | 88260 |

**Table of Noticed Tribes**

| Name | Address | City | State | Zip Code |
|---|---|---|---|---|
| N/A | | | | |

## Jaimy Karacaoglu

**From:** Daniel Dolce
**Sent:** Tuesday, July 8, 2025 9:41 AM
**To:** Aaron Forrister
**Cc:** Jaimy Karacaoglu; 'Charles Bates'
**Subject:** Request for Public Service Announcement

Good morning,

Per New Mexico Administrative Code 20.2.72.203.B NMAC and according to the Guidance for Public Notice for Air Quality Permit Applications – **(5) Notifications: Submittal of Public Service Announcement (PSA):** A public service announcement required for permits and significant permit revisions must be submitted to at least one radio or television station, which services the municipality, or county which the facility is or will be located. **Therefore, based on the above, we respectfully ask you to air the following script as a Public Service Announcement.**

> "This is a Public Service Announcement for a revision to the air quality permit of a gas processing plant facility per the requirements of New Mexico Administrative Code 20.2.72.203.D. The name of the facility is the Red Hills Gas Processing Plant. The Red Hills Gas Processing Plant is located at the following coordinates: 32.210556 degrees North and -103.523889 degrees West. The type of change for which the permit is sought is a Prevention of Significant Deterioration Major Modification Revision in which the calculation methodology, representation, and emission limits at the facility are updated for all units.
>
> Public notice has been posted near Jal, New Mexico at the following locations:
> (1) At the facility entrance of the Red Hills Gas Processing Plant,
> (2) At the Woolword Community Library located at 100 East Utah Avenue, in Jal New Mexico, Zip Code 88252,
> (3) At the Jal City Hall located at 309 South Main Street in Jal, New Mexico, Zip Code 88252,
> (4) At the Jal United States Post Office located at 111 South 4th Street in Jal, New Mexico, Zip Code 88252.
>
> Comments may be directed to the following address: Permits Program Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez; Suite 1, Santa Fe, New Mexico, 87505-1816. Comments may be directed to the following telephone numbers: (505) 476-4300 or 1(800) 224-7009."

Prior to payment for the PSA, we will need to know the following:
1. What **radio station** will the PSA be played on; and
2. What **date** and **time** will it be aired.

Please let me know if you have any questions.

Thank you and regards,
Daniel Dolce

---

**Daniel Dolce**
Consultant

P 505.266.6611 x3208 M 505.818.8761
Email: Daniel.Dolce@trinityconsultants.com
9400 Holly Avenue NE, Building 3, Suite B, Albuquerque, NM 87122

Want to meet? Book a meeting with Daniel Dolce at Trinity Consultants.

Trinity Consultants

Connect with us: LinkedIn / YouTube / trinityconsultants.com
*View our capabilities in the Environmental Consulting, Built Environment, Life Sciences, and Water & Ecology markets.*

# Submittal of Public Service Announcement – Certification

I, Daniel Dolce, the undersigned, certify that on **July 8, 2025,** submitted a public service announcement to 1 Radio Square (**KZOR-KIXN-KPZA-KEJL-KLEA-KBIM FM-KBIM)** that serves the City of **Hobbs, Lea** County, New Mexico, in which the source is or is proposed to be located and that 1 Radio Square **RESPONDED THAT IT WOULD AIR THE ANNOUNCEMENT.**

Signed this 11 day of July , 2025 ,

Daniel Dolce
Signature

7/11/2025
Date

Daniel Dolce
Printed Name

Consultant - Trinity Consultants
Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

**LEGAL NOTICE**
**November 23, 2025**

## NOTICE OF AIR QUALITY PERMIT APPLICATION

**Targa Northern Delaware, LLC** announces its application submittal to the New Mexico Environment Department for an air quality permit for the **modification** of its **Red Hills Gas Processing Plant** facility. The expected date of application submittal to the Air Quality Bureau is **December 1, 2025**.

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**#00306469**

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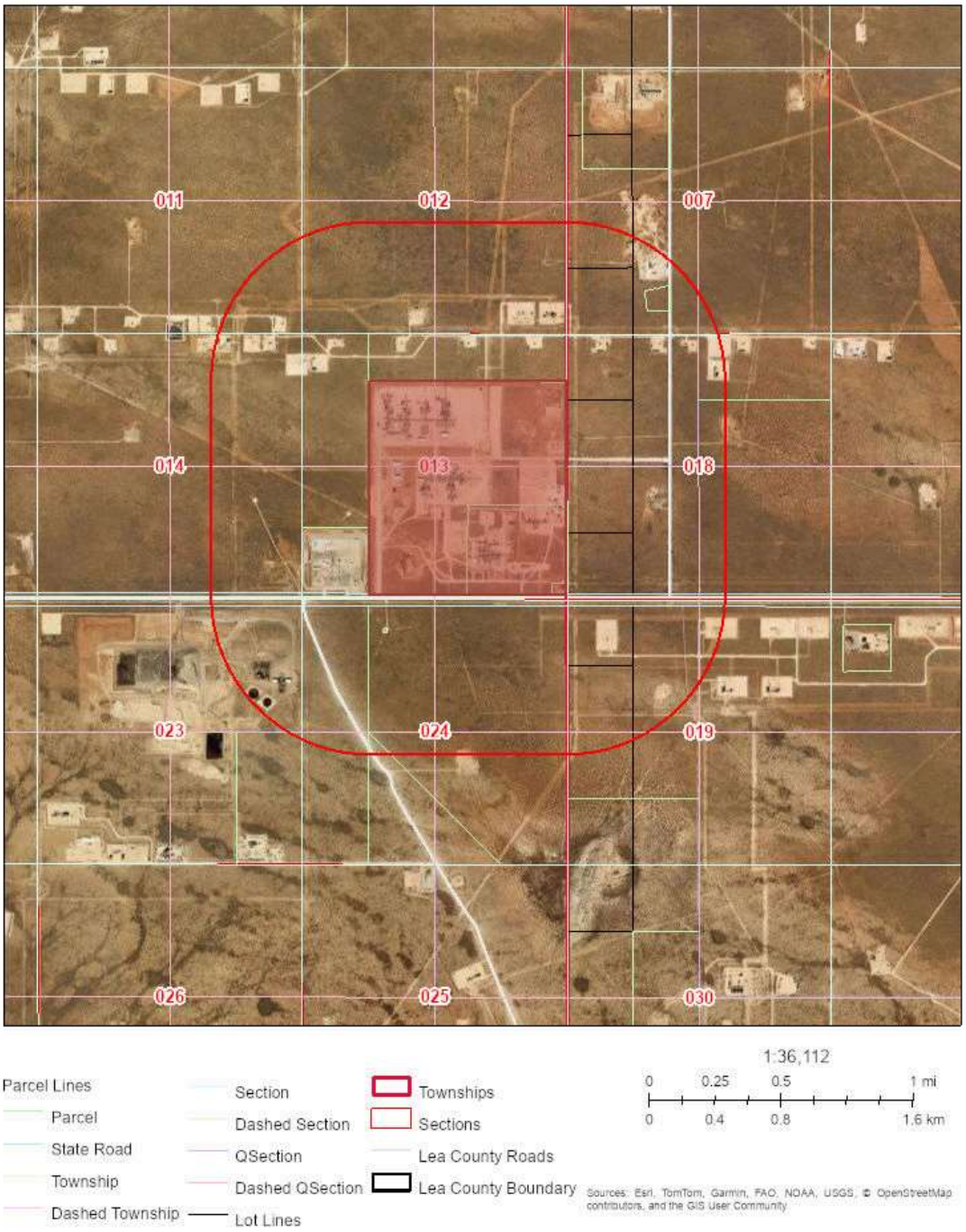
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# Red Hills Gas Processing Plant - Nearby Landowners

## Area of Interest (AOI) Information

Area : 2,296.75 acres

Apr 17 2025 19:44:57 Mountain Daylight Time



Targa Northern Delaware, LLC - Red Hills Gas Processing Plant - Nearby Landowners within 0.5 miles of the outer facility property boundary.

## Parcels

| # | Owner # | Calculated Acres | Township | Range | Section |
|---|---|---|---|---|---|
| 1 | 204523 | 0.15 | 24 | 33 | 24 |
| 2 | | 80.00 | 24 | 33 | *N/A* |
| 3 | 90142 | 2.07 | 24 | 33 | 13 |
| 4 | 681 | 80.00 | 24 | 33 | 24 |
| 5 | 212712 | 5.00 | 24 | 34 | 7 |
| 6 | | 31.30 | 25 | 36 | *N/A* |
| 7 | | 80.00 | 24 | 34 | *N/A* |
| 8 | 90142 | 40.00 | 24 | 33 | 13 |
| 9 | 211739 | 640.00 | 24 | 33 | 11 |
| 10 | | 673.54 | 25 | 36 | *N/A* |
| 11 | 210728 | 540.00 | 24 | 33 | 23 |
| 12 | 207339 | 80.00 | 24 | 33 | 13 |
| 13 | 51787 | 79.69 | 24 | 33 | 13 |
| 14 | | 156.00 | 24 | 33 | *N/A* |
| 15 | 51787 | 552.41 | 24 | 34 | 7 |
| 16 | 211739 | 117.43 | 24 | 33 | 13 |
| 17 | 51787 | 541.40 | 24 | 34 | 19 |
| 18 | 51787 | 239.16 | 24 | 34 | 18 |
| 19 | 51801 | 307.25 | 24 | 34 | 18 |
| 20 | 211739 | 627.96 | 24 | 33 | 14 |
| 21 | 51787 | 398.90 | 24 | 33 | 24 |
| 22 | 51787 | 640.00 | 24 | 33 | 12 |
| 23 | 207339 | 300.09 | 24 | 33 | 13 |

| # | Parcel Code | Year Built | Number of Stories | SQFT Basement | SQFT 1st Floor |
|---|---|---|---|---|---|
| 1 | 4960804143644 | | *N/A* | *N/A* | *N/A* |
| 2 | *N/A* | | *N/A* | *N/A* | *N/A* |
| 3 | 4000901420003 | | *N/A* | *N/A* | *N/A* |
| 4 | 4000006810008 | | *N/A* | *N/A* | *N/A* |
| 5 | 4980824100204 | | *N/A* | *N/A* | *N/A* |
| 6 | *N/A* | | *N/A* | *N/A* | *N/A* |
| 7 | *N/A* | | *N/A* | *N/A* | *N/A* |
| 8 | 4000516950003 | | *N/A* | *N/A* | *N/A* |
| 9 | 4000516950001 | 1986 | 1.00 | 0 | 1,885 |
| 10 | *N/A* | | *N/A* | *N/A* | *N/A* |
| 11 | 4000516950002 | 1975 | 1.00 | 0 | 1 |
| 12 | 4000517880007 | | *N/A* | *N/A* | *N/A* |
| 13 | 4000517890002 | | *N/A* | *N/A* | *N/A* |
| 14 | *N/A* | | *N/A* | *N/A* | *N/A* |
| 15 | 4000517890008 | | *N/A* | *N/A* | *N/A* |
| 16 | 4940212112255 | | *N/A* | *N/A* | *N/A* |
| 17 | 4000517900002 | | *N/A* | *N/A* | *N/A* |
| 18 | 4000517900001 | | *N/A* | *N/A* | *N/A* |
| 19 | 4000518010002 | | *N/A* | *N/A* | *N/A* |
| 20 | 4000516950004 | | *N/A* | *N/A* | *N/A* |
| 21 | 4000517890003 | | *N/A* | *N/A* | *N/A* |
| 22 | 4000517890001 | 1975 | 1.00 | 0 | 1 |
| 23 | 4960212151901 | | *N/A* | *N/A* | *N/A* |

| # | SQFT 2nd Floor | Date Modified | Total SQFT | Inspection Year | Subdivision Name |
|---|---|---|---|---|---|
| 1 | *N/A* | | | *N/A* | *N/A* |
| 2 | *N/A* | | | *N/A* | *N/A* |
| 3 | *N/A* | | | *N/A* | *N/A* |
| 4 | *N/A* | | | *N/A* | *N/A* |
| 5 | *N/A* | | | *N/A* | *N/A* |
| 6 | *N/A* | | | *N/A* | *N/A* |
| 7 | *N/A* | | | *N/A* | *N/A* |
| 8 | *N/A* | | | *N/A* | *N/A* |
| 9 | 0 | 06/30/2008 | 1,885 | 2008 | *N/A* |
| 10 | *N/A* | | | *N/A* | *N/A* |
| 11 | 0 | 06/17/2008 | 1 | 2008 | *N/A* |
| 12 | *N/A* | | | *N/A* | *N/A* |
| 13 | *N/A* | | | *N/A* | *N/A* |
| 14 | *N/A* | | | *N/A* | *N/A* |
| 15 | *N/A* | | | *N/A* | *N/A* |
| 16 | *N/A* | | | *N/A* | *N/A* |
| 17 | *N/A* | | | *N/A* | *N/A* |
| 18 | *N/A* | | | *N/A* | *N/A* |
| 19 | *N/A* | | | *N/A* | *N/A* |
| 20 | *N/A* | | | *N/A* | *N/A* |
| 21 | *N/A* | | | *N/A* | *N/A* |
| 22 | 0 | 06/17/2008 | 1 | 2008 | *N/A* |
| 23 | *N/A* | | | *N/A* | *N/A* |

| # | Unit | Block | Lot/Tract | Description | NEQ |
|---|---|---|---|---|---|
| 1 | *N/A* | *N/A* | *N/A* | LOC NE4NW4 - A 0.147 ACRE TRACT | *N/A* |
| 2 | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |
| 3 | *N/A* | *N/A* | *N/A* | CAB# 210-006 | *N/A* |
| 4 | *N/A* | *N/A* | *N/A* | 80.00 AC BEING | *N/A* |
| 5 | *N/A* | *N/A* | *N/A* | 5.00 AC LOC SW4 | *N/A* |
| 6 | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |
| 7 | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |
| 8 | *N/A* | *N/A* | *N/A* | 40 AC LOC SW4SW4NW4SW4 | *N/A* |
| 9 | *N/A* | *N/A* | *N/A* | 640.00 AC - ALL | *N/A* |
| 10 | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |
| 11 | *N/A* | *N/A* | *N/A* | 560.00 AC BEING N2, SW4, W2SE4 | *N/A* |
| 12 | *N/A* | *N/A* | *N/A* | 79.69 AC LOC SE4 | *N/A* |
| 13 | *N/A* | *N/A* | *N/A* | TR "A" 88.84 AC BEING N2N2E2NW4 & | *N/A* |
| 14 | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |
| 15 | *N/A* | *N/A* | *N/A* | 637.76 AC - ALL OF SEC 7 LOC SW4 | *N/A* |
| 16 | *N/A* | *N/A* | *N/A* | 117.43 AC W2W2 | *N/A* |
| 17 | *N/A* | *N/A* | *N/A* | 559.08 AC BEING N2, N2SW4, SE4 | *N/A* |
| 18 | *N/A* | *N/A* | *N/A* | 239.16 AC BEING N2NE4, NW4 | *N/A* |
| 19 | *N/A* | *N/A* | *N/A* | 307.25 AC BEING S2 | *N/A* |
| 20 | *N/A* | *N/A* | *N/A* | 627.96 AC - ALL | *N/A* |
| 21 | *N/A* | *N/A* | *N/A* | 398.90 AC BEING E2, E2W2 | *N/A* |
| 22 | *N/A* | *N/A* | *N/A* | 640.00 AC - ALL | *N/A* |
| 23 | *N/A* | *N/A* | *N/A* | TRACT "B" 300.09 AC | *N/A* |

| # | NWQ | SWQ | SEQ | Name | In Care of Name |
|---|---|---|---|---|---|
| 1 | Y | *N/A* | *N/A* | VANGARD WIRELESS LCC | INSITE WIRELESS GROUP LLC % |
| 2 | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |
| 3 | *N/A* | *N/A* | Y | SOUTHWESTERN PUBLIC SERVICE CO | *N/A* |
| 4 | *N/A* | Y | *N/A* | NGL NORTH RANCH LLC | *N/A* |
| 5 | *N/A* | *N/A* | *N/A* | SHOUP 2018 GRANDCHILDREN'S EDU TRS | CARLSBAD NATIONAL BANK TRUSTEE % |
| 6 | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |
| 7 | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |
| 8 | *N/A* | *N/A* | *N/A* | SOUTHWESTERN PUBLIC SERVICE CO | *N/A* |
| 9 | *N/A* | *N/A* | *N/A* | TIP TOP SOLAR DEVCO LLC | *N/A* |
| 10 | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |
| 11 | *N/A* | *N/A* | Y | OWL MCCLOY LANDFILL LLC | *N/A* |
| 12 | *N/A* | *N/A* | Y | AGAVE ENERGY COMPANY | LUCID ARTESIA COMPANY % |
| 13 | *N/A* | *N/A* | Y | QUAIL RANCH LLC | *N/A* |
| 14 | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |
| 15 | *N/A* | *N/A* | *N/A* | QUAIL RANCH LLC | *N/A* |
| 16 | *N/A* | *N/A* | *N/A* | TIP TOP SOLAR DEVCO LLC | *N/A* |
| 17 | *N/A* | *N/A* | Y | QUAIL RANCH LLC | *N/A* |
| 18 | Y | *N/A* | *N/A* | QUAIL RANCH LLC | *N/A* |
| 19 | *N/A* | *N/A* | *N/A* | FORTNER, BILLIE MC KANDLES | HALE, MARY NELL MC KANDLES |
| 20 | *N/A* | *N/A* | *N/A* | TIP TOP SOLAR DEVCO LLC | *N/A* |
| 21 | *N/A* | *N/A* | *N/A* | QUAIL RANCH LLC | *N/A* |
| 22 | *N/A* | *N/A* | *N/A* | QUAIL RANCH LLC | *N/A* |
| 23 | *N/A* | *N/A* | *N/A* | AGAVE ENERGY COMPANY | LUCID ARTESIA COMPANY % |

| # | Mailing Address 1 | Mailing Address 2 | Mailing City | Mailing State | Country Name |
|---|---|---|---|---|---|
| 1 | RYAN PTS DEPT 607 % | PO BOX 460389 | HOUSTON | TX | *N/A* |
| 2 | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |
| 3 | 6086 W 48TH AVE | *N/A* | AMARILLO | TX | *N/A* |
| 4 | 6120 S YALE AVE SUITE 805 | *N/A* | TULSA | OK | *N/A* |
| 5 | 202 W STEVENS | *N/A* | CARLSBAD | NM | *N/A* |
| 6 | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |
| 7 | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |
| 8 | 6086 W 48TH AVE | *N/A* | AMARILLO | TX | *N/A* |
| 9 | 1 S WACKER DR STE 1800 | *N/A* | CHICAGO | IL | *N/A* |
| 10 | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |
| 11 | 5005 LYNDON B JOHNSON FWY | SUITE 675 | DALLAS | TX | *N/A* |
| 12 | KE ANDREWS & CO % | 2424 RIDGE RD | ROCKWALL | TX | *N/A* |
| 13 | PO BOX 2197 | *N/A* | HOUSTON | TX | *N/A* |
| 14 | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |
| 15 | PO BOX 2197 | *N/A* | HOUSTON | TX | *N/A* |
| 16 | 1 S WACKER DR STE 1800 | *N/A* | CHICAGO | IL | *N/A* |
| 17 | PO BOX 2197 | *N/A* | HOUSTON | TX | *N/A* |
| 18 | PO BOX 2197 | *N/A* | HOUSTON | TX | *N/A* |
| 19 | 1033 PARK CENTER ST | *N/A* | BENBROOK | TX | *N/A* |
| 20 | 1 S WACKER DR STE 1800 | *N/A* | CHICAGO | IL | *N/A* |
| 21 | PO BOX 2197 | *N/A* | HOUSTON | TX | *N/A* |
| 22 | PO BOX 2197 | *N/A* | HOUSTON | TX | *N/A* |
| 23 | KE ANDREWS & CO % | 2424 RIDGE RD | ROCKWALL | TX | *N/A* |

| # | Mailing Zipcode | Mailing Zipcode Extension | District | Type | Year |
|---|---|---|---|---|---|
| 1 | 77056 | *N/A* | 190 | M | 2025 |
| 2 | *N/A* | *N/A* | *N/A* | *N/A* | |
| 3 | 79109 | *N/A* | 190 | M | 2025 |
| 4 | 74136 | *N/A* | 190 | M | 2025 |
| 5 | 88221 | 1359 | 190 | M | 2025 |
| 6 | *N/A* | *N/A* | *N/A* | *N/A* | |
| 7 | *N/A* | *N/A* | *N/A* | *N/A* | |
| 8 | 79109 | *N/A* | 190 | M | 2025 |
| 9 | 60606 | 4630 | 190 | M | 2025 |
| 10 | *N/A* | *N/A* | *N/A* | *N/A* | |
| 11 | 75224 | 6100 | 190 | M | 2025 |
| 12 | 75087 | 5116 | 190 | M | 2025 |
| 13 | 77252 | 2197 | 190 | M | 2025 |
| 14 | *N/A* | *N/A* | *N/A* | *N/A* | |
| 15 | 77252 | 2197 | 190 | M | 2025 |
| 16 | 60606 | 4630 | 190 | M | 2025 |
| 17 | 77252 | 2197 | 190 | M | 2025 |
| 18 | 77252 | 2197 | 190 | M | 2025 |
| 19 | 76126 | 2501 | 190 | M | 2025 |
| 20 | 60606 | 4630 | 190 | M | 2025 |
| 21 | 77252 | 2197 | 190 | M | 2025 |
| 22 | 77252 | 2197 | 190 | M | 2025 |
| 23 | 75087 | 5116 | 190 | M | 2025 |

| # | Reception Number | Recording Type | Book | Page | Recorded Date |
|---|---|---|---|---|---|
| 1 | 48405 | 1 | 2020 | 803 | 04/19/2016 |
| 2 | | *N/A* | *N/A* | *N/A* | |
| 3 | 0 | *N/A* | *N/A* | 0 | |
| 4 | 27749 | 1 | 2136 | 858 | 07/17/2018 |
| 5 | 29767 | 1 | 2138 | 868 | 08/31/2018 |
| 6 | | *N/A* | *N/A* | *N/A* | |
| 7 | | *N/A* | *N/A* | *N/A* | |
| 8 | 18567 | 1 | 1888 | 765 | 04/23/2014 |
| 9 | 49985 | 1 | 2224 | 382 | 05/16/2024 |
| 10 | | *N/A* | *N/A* | *N/A* | |
| 11 | 42125 | 1 | 1991 | 74 | 11/06/2015 |
| 12 | 32919 | 1 | 1736 | 482 | 07/14/2011 |
| 13 | 29729 | 1 | 2138 | 830 | 08/30/2018 |
| 14 | | *N/A* | *N/A* | *N/A* | |
| 15 | 29729 | 1 | 2138 | 830 | 08/30/2018 |
| 16 | 49985 | 1 | 2224 | 382 | 05/16/2024 |
| 17 | 29729 | 1 | 2138 | 830 | 08/30/2018 |
| 18 | 29729 | 1 | 2138 | 830 | 08/30/2018 |
| 19 | 0 | *N/A* | *N/A* | 0 | |
| 20 | 49985 | 1 | 2224 | 382 | 05/16/2024 |
| 21 | 29729 | 1 | 2138 | 830 | 08/30/2018 |
| 22 | 29729 | 1 | 2138 | 830 | 08/30/2018 |
| 23 | 45025 | 1 | 2004 | 1 | 02/02/2016 |

| # | Property Street Name | Property Street Number | Property Half Number | Property Street Direction | Total Value |
|---|---|---|---|---|---|
| 1 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 2 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 3 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 4 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 5 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 6 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 7 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 8 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 9 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 10 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 11 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 12 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 13 | NM HIGHWAY 128 | 1620 | *N/A* | W | 0 |
| 14 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 15 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 16 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 17 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 18 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 19 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 20 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 21 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 22 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |
| 23 | *N/A* | *N/A* | *N/A* | *N/A* | 0 |

| # | Total Land Value | Land Value | Improved Value | Cent Value | Pers Value |
|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 94830 | 0 |
| 2 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 127065168 | 0 |
| 4 | 0 | 3651 | 0 | 0 | 0 |
| 5 | 0 | 29847 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 127065168 | 0 |
| 9 | 0 | 5379 | 107013 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 0 |
| 11 | 0 | 354696 | 0 | 0 | 0 |
| 12 | 0 | 120273 | 0 | 0 | 0 |
| 13 | 0 | 259854 | 49365 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0 | 259854 | 49365 | 0 | 0 |
| 16 | 0 | 5379 | 107013 | 0 | 0 |
| 17 | 0 | 259854 | 49365 | 0 | 0 |
| 18 | 0 | 259854 | 49365 | 0 | 0 |
| 19 | 0 | 98868 | 0 | 0 | 0 |
| 20 | 0 | 5379 | 107013 | 0 | 0 |
| 21 | 0 | 259854 | 49365 | 0 | 0 |
| 22 | 0 | 259854 | 49365 | 0 | 0 |
| 23 | 0 | 120273 | 0 | 0 | 0 |

| # | MFG H Value | Livestock Value | Full Value | Taxable Value | Exempt Value |
|---|---|---|---|---|---|
| 1 | 0 | 0 | 94830 | 31610 | 0 |
| 2 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 127065168 | 42355056 | 0 |
| 4 | 0 | 0 | 3651 | 1217 | 0 |
| 5 | 0 | 0 | 29847 | 9949 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 127065168 | 42355056 | 0 |
| 9 | 0 | 0 | 112392 | 37464 | 0 |
| 10 | 0 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 354696 | 118232 | 0 |
| 12 | 0 | 0 | 120273 | 40091 | 0 |
| 13 | 0 | 0 | 309219 | 103073 | 0 |
| 14 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 309219 | 103073 | 0 |
| 16 | 0 | 0 | 112392 | 37464 | 0 |
| 17 | 0 | 0 | 309219 | 103073 | 0 |
| 18 | 0 | 0 | 309219 | 103073 | 0 |
| 19 | 0 | 0 | 98868 | 32956 | 0 |
| 20 | 0 | 0 | 112392 | 37464 | 0 |
| 21 | 0 | 0 | 309219 | 103073 | 0 |
| 22 | 0 | 0 | 309219 | 103073 | 0 |
| 23 | 0 | 0 | 120273 | 40091 | 0 |

| # | Net Value | Recording Year | Most Current Tax | Value | Code |
|---|---|---|---|---|---|
| 1 | 31610 | 2016 | $697.00 | 94830 | 054 |
| 2 | 0 | *N/A* | $ | 0 | *N/A* |
| 3 | 42355056 | *N/A* | $934,987.00 | 0 | *N/A* |
| 4 | 1217 | *N/A* | $26.00 | 252 | 120 |
| 5 | 9949 | 2018 | $219.00 | 29847 | 150 |
| 6 | 0 | *N/A* | $ | 0 | *N/A* |
| 7 | 0 | *N/A* | $ | 0 | *N/A* |
| 8 | 42355056 | 2014 | $934,987.00 | 127065168 | 040 |
| 9 | 37464 | 2024 | $636.00 | 2010 | 120 |
| 10 | 0 | *N/A* | $ | 0 | *N/A* |
| 11 | 118232 | 2015 | $2,609.00 | 354696 | 150 |
| 12 | 40091 | 2011 | $885.00 | 25233 | 150 |
| 13 | 103073 | *N/A* | $800.00 | 261 | 120 |
| 14 | 0 | *N/A* | $ | 0 | *N/A* |
| 15 | 103073 | *N/A* | $800.00 | 1602 | 120 |
| 16 | 37464 | *N/A* | $636.00 | 369 | 120 |
| 17 | 103073 | *N/A* | $800.00 | 1647 | 120 |
| 18 | 103073 | *N/A* | $800.00 | 696 | 120 |
| 19 | 32956 | *N/A* | $727.00 | 48897 | 150 |
| 20 | 37464 | *N/A* | $636.00 | 1977 | 120 |
| 21 | 103073 | *N/A* | $800.00 | 1002 | 120 |
| 22 | 103073 | *N/A* | $800.00 | 1974 | 120 |
| 23 | 40091 | 2016 | $885.00 | 95040 | 150 |

| # | ID | Category | Quantity | Location | Square Footage | Acres | Area(acres) |
|---|---|---|---|---|---|---|---|
| 1 | N | Central Assessed | *N/A* | *N/A* | 6,399.99 | 0.00 | 0.15 |
| 2 | *N/A* | *N/A* | *N/A* | *N/A* | 3,489,040.06 | *N/A* | 0.57 |
| 3 | *N/A* | *N/A* | *N/A* | *N/A* | 61,984.28 | 0.00 | 1.42 |
| 4 | N | Land | 80.00 | *N/A* | 3,467,029.10 | 1,158.00 | 2.28 |
| 5 | N | Land | 5.00 | *N/A* | 216,568.83 | 5.00 | 4.97 |
| 6 | *N/A* | *N/A* | *N/A* | *N/A* | 1,363,439.54 | *N/A* | 10.84 |
| 7 | *N/A* | *N/A* | *N/A* | *N/A* | 3,481,499.92 | *N/A* | 16.04 |
| 8 | N | Central Assessed | *N/A* | *N/A* | 1,730,972.49 | 0.00 | 39.74 |
| 9 | N | Land | 638.00 | *N/A* | 27,923,141.50 | 1,385.00 | 46.60 |
| 10 | *N/A* | *N/A* | *N/A* | *N/A* | 29,339,067.47 | *N/A* | 50.77 |
| 11 | N | Land | 560.00 | *N/A* | 23,606,179.19 | 560.00 | 76.11 |
| 12 | N | Land | 79.69 | *N/A* | 3,455,721.74 | 379.00 | 79.34 |
| 13 | N | Land | 83.30 | 1620 W NM HIGHWAY 128 | 3,761,898.98 | 21,693.00 | 86.36 |
| 14 | *N/A* | *N/A* | *N/A* | *N/A* | 6,796,674.14 | *N/A* | 86.69 |
| 15 | N | Land | 508.41 | *N/A* | 24,119,443.12 | 21,693.00 | 108.60 |
| 16 | N | Land | 117.43 | *N/A* | 5,116,331.33 | 1,385.00 | 117.46 |
| 17 | N | Land | 522.58 | *N/A* | 23,583,230.05 | 21,693.00 | 163.27 |
| 18 | N | Land | 221.16 | *N/A* | 10,398,076.61 | 21,693.00 | 173.95 |
| 19 | N | Land | 307.25 | *N/A* | 13,280,636.12 | 621.00 | 182.64 |
| 20 | N | Land | 627.96 | *N/A* | 27,266,348.06 | 1,385.00 | 213.67 |
| 21 | N | Land | 317.80 | *N/A* | 16,891,681.66 | 21,693.00 | 265.77 |
| 22 | N | Land | 626.50 | *N/A* | 27,995,922.89 | 21,693.00 | 267.14 |
| 23 | N | Land | 300.09 | *N/A* | 13,171,337.18 | 379.00 | 302.39 |

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Square Foot and Year Built listed only to be used for comparative purposes, NOT to be used for commerce.

# Section 10

## Written Description of the Routine Operations of the Facility

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**A written description of the routine operations of the facility**. Include a description of how each piece of equipment will be operated, how controls will be used, and the fate of both the products and waste generated. For modifications and/or revisions, explain how the changes will affect the existing process. In a separate paragraph describe the major process bottlenecks that limit production. The purpose of this description is to provide sufficient information about plant operations for the permit writer to determine appropriate emission sources.

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The Red Hills Gas Processing Plant (Red Hills) is an existing natural gas processing plant located in Lea County. The primary function of the plant is to remove $CO_2$, water, and other impurities from raw field gas to ensure the processed gas meets pipeline quality specifications. The plant has been designated a primary Standard Industrial Classification (SIC) Code of 1311.

The gas will be treated to remove acid gases ($H_2S$ and $CO_2$) dehydrated to remove water and processed to remove C2+ hydrocarbons from the gas stream. Several plant systems will be involved to perform these functions.

**Slug Catcher / Separator**
Several slug catchers have been installed to catch and separate any free hydrocarbon liquids and water present in the inlet pipeline gas stream prior to undergoing gas treating and processing. The slug catchers are capable of handling large volumes of liquid brought into the plant from pipeline pigging operations. This equipment acts as a three-phase separator to separate the free hydrocarbons, gas to be processed, and free water. Separate inlet systems consisting of a series of separators and slug catchers will be associated with various trains. The south inlet system handles Trains 1 through 3 and the north inlet system handles Trains 4 through 6. Front end treaters RHA-AMINE and RA2-AMINE each have their own inlet systems.

**Condensate Stabilizer / Compressor**
The condensate stabilization system is in place to lower the Reid Vapor Pressure (RVP) of the pipeline liquids / condensate to meet required specifications. Condensate stabilization is accomplished by using a distillation process that uses heat to separate lighter hydrocarbon compounds in vapor phase from heavier hydrocarbon compounds in liquid phase to decrease the condensate RVP to a nominal RVP 9 product. The condensate from various filters/separators and the slug catcher are combined, stabilized, and sent to the tank farms for truck or pipeline sales. Any vapors that are created/removed during the stabilization process are recycled back to the plant inlet via compression.

**Amine Treating**
The amine units are designed to remove $CO_2$ and $H_2S$ from the natural gas stream to meet pipeline specifications. Amine treating is an exothermic chemical reaction process. The treating solution is a mixture of reverse osmosis (RO) water and MDEA (Methyldiethanolamine). This aqueous mixture is regenerated and reused. Lean amine/water solution is pumped to the top of the contactor and allowed to flow downward. Inlet gas is fed into the bottom of the contactor and flows upward. As the lean amine/water solution flows down through the contactor, it contacts the gas. The $CO_2$ and $H_2S$ react with the amine to form amine carbonate. The reacted amine, known as “sour” or “rich” amine, flows to the regeneration system and the processed (“sweet”) gas continues to the glycol dehydration system. Sour gas is first treated in the front end treaters RHA-AMINE or RA2-AMINE to remove the majority of $H_2S$ present in the stream. Emissions from amine units RHA-AMINE and RA2-AMINE are controlled by a redundant Acid Gas Injection well system . During events such as AGI compressor downtime, startup, shutdown, or maintenance events on any associated equipment, or any other operational conditions that would prevent injection into the wells, the emissions are controlled by AGI Flares, units RHA-FL-5100 and RA2-FL-25100, respectively. Sweet gas from inlet pipelines, RHA-AMINE, and RH2-AMINE is then treated in the sweet amine units including RH1-AMINE, RH2-AMINE, RH4-AMINE, and RH5-AMINE. The emissions from these units are routed to various thermal oxidizers, including units RH2-TO-5500, RH4-TO-45500, and RH5-TO-55500, at the facility.

**Hot Oil System**
The hot oil system at the plant is used to provide heat to multiple processes within the facility. The system utilizes pumps to circulate hot oil through natural gas fired heaters to increase the oil temperature and then delivers it to various heat exchangers. Hot oil heaters within the hot oil system include RH1-H-23-704, RH1-H-1101, RH4-H-41100, RH2-H-781, RH2-H-0901, RH2-H-1001, RHA-H-4901, RH3-H-781, RH4-H-781, RH4-H-3901, RH4-H-4001, RH5-H-50902, RH5-H-50001, RH5-H-50781, RH6-H-60001, RH6-H-60781, and RA2-H-20001.

In addition to the hot oil system, the facility utilizes heaters for the regenerator gas, including units RH2-H-741, RH3-H-741, RH4-H-741, RH5-H-50741, and RH6-H-60741 and TEG reboilers, including units RH2-H-2301, RH3-H-6301, and RH4-H-5301.

**Glycol Dehydration**
Triethylene glycol (TEG) dehydration is used to remove water from the natural gas stream by reducing the inlet water dew point (temperature at which vapor begins to condense into a liquid) to the outlet dew point temperature which contains a specified amount of water. The water saturated inlet gas is brought into contact with "lean" TEG in a countercurrent contactor tower. Water vapor is absorbed in the TEG and consequently, the natural gas dew point is reduced. Wet inlet gas passing through the contactor tower is dehydrated, then flows to the molecular sieve beds. The water saturated (or "rich") glycol then flows from the absorber to a regeneration system in which it is partially decompressed, then heated to remove water vapor, resulting in "lean" glycol that is reintroduced to the contactor tower. Emissions from glycol dehydrator units, RH1-TEG, RH2-TEG, RH3-TEG, RH4-TEG, RH5-TEG, and RH6-TEG are controlled by various flares and thermal oxidizers at the facility, including units RH1-FL-29-1003, RH2-TO-5500, RH4-TO-45500, and RH5-TO-55500.

**Molecular Sieve Dehydration**
Molecular sieve dehydration is used upstream of the cryogenic units to achieve a gas stream dew point of -150°F. The process consists of three molecular sieve vessels cycling through one vessel in regeneration mode and two vessels in moisture adsorption mode. During the regeneration mode, hot, dry gas (regen gas) is passed up through the vessel to drive off the adsorbed moisture from the molecular sieve. The gas comes from a slipstream at the outlet of the molecular sieve dehy beds, and it is passed through a heater to achieve a temperature of approximately 500°F. After the gas passes through the molecular sieve vessels, it is cooled in an air-cooled exchanger. The water in the gas condenses and is separated from the gas stream in a separator. This process operates in a closed vent system.

**Cryogenic Unit**
The cryogenic unit is designed to liquefy natural gas components from the sweet, dehydrated inlet gas by removing work (heat) from the gas primarily by means of the propane refrigeration system and turbo expander. The cryogenic unit recovers natural gas liquids (NGL) by cooling the gas stream to extremely cold temperatures (-150°F and lower) and condensing components such as ethane, propane, butanes and heavier components into a liquid phase. The gas is cooled by a series of heat exchangers and by rapidly lowering the pressure of the gas from around 760 PSIG to approximately 190 PSIG. This process operates in a closed vent system under pressure. Once the gas has passed through the system of exchangers and expander, it is re-compressed using the energy obtained from expanding the gas. The gas is sent to residue compressors and pipelined out of the facility. The NGL's are pumped into a pipeline from the NGL Surge Tanks. In case the compressors are shut in, the gas may be temporarily sent to flares, including units RH1-FL-29-1003, RH2-FL-5100, RH3-FL-5100, RH4-FL-45100, and RH5-FL-55100.

**Propane Refrigeration**
The propane refrigeration system works to remove heavier hydrocarbons in the gas stream to increase cryogenic efficiencies later in the process. Typically, the gas stream is refrigerated to just below minus 20°F and C4+ components are dropped out of the process gas in varying efficiencies so the cryogenic equipment can concentrate on the lighter C2 and C3 components. This process operates in a closed vent system.

**Storage and Loading Operations**
The unstabilized liquids will be stored in up to four pressurized 90,000-gallon tanks, also called bullet tanks. These tanks are not a source of regulated pollutants and are considered process vessels. The tank loading will take place via a pressurized, closed loop system. Atmospheric tanks batteries include RH1-TK-COND-EAST (condensate), RHA-TK-SLOP (sour slop), RH1-TK-COND-WEST (condensate), and RA2-TK-SLOP (sour slop) are controlled by flares RHA-FL-5850, RA2-FL-25850, and RH1-FL-2850. RH2-TK-SLOP, and RH1-TK-SLOP contain slop water and are uncontrolled. Loading operations are quantified as units RHA-TK-SLOP-LOAD, RH1-TK-COND-WEST-LOAD, RA2-TK-SLOP-LOAD, RH2-TK-SLOP-LOAD, and RH1-TK-SLOP-LOAD. Haul road emissions associated with loading activities are quantified as RH-HAUL.

There are two scenarios for the slop tank battery at Train 4, RH4-TK-SLOP, and the associated loading, RH4-TK-SLOP-LOAD. RH4-TK-SLOP may receive a combination of condensate, produced water, and slop water from various process streams at the facility. In Tank Scenario 1, up to 19,860 bbls of condensate are routed to the tanks and the emissions from the tanks and associated loading are controlled by a new flare, RH4-FL-46200, with a 98% DRE. Note that the condensate contribution does not constitute the entire flowrate to this set of tanks, but rather a subset. In Tank Scenario 2, up to 120.7 bbls of condensate are routed to the tanks as the condensate streams that were previously routed to this tank battery will be rerouted to another part of facility's process. The rerouting of these streams will require the installation of additional piping at the facility and associated fugitives. Note that the condensate contribution does not constitute the entire flowrate to this set of tanks, but rather a subset. In this scenario, RH4-TK-SLOP and associated loading RH4-TK-SLOP-LOAD remain

uncontrolled. Additional details regarding these operating scenarios are detailed in Section 15. The UA2 tables have been represented with both Tank Scenario 1 and Tank Scenario 2 as appropriate.

**Flares**
The plant flares are used during startup, shutdown, maintenance and upset conditions as well as some AOS SSM situations, as described in Section 15. In most cases, the only steady state operations associated with this flare are from the pilot and purge gas streams. RH1-FL-29-1003 also controls steady state emissions associated with RH1-TEG. SSM emissions from the plant flare result from maintenance activities per manufacturer-recommended or other preventative maintenance schedules. These maintenance activities include, but are not limited to, equipment blowdowns for associated maintenance, instrument calibrations, and process safety device maintenance. The inclusion of flare malfunction emissions captures any emissions that occur during process equipment malfunctions and are routed to any of the included flares (RH1-FL-29-1003, RH2-FL-5100, RH3-FL-5100, RH4-FL-45100, RH5-FL-55100).

**AGI Flare**
During events such as AGI compressor downtime, startup, shutdown, or maintenance events on any associated equipment, or any other operational conditions that would prevent injection into the wells, acid gas will be flared for limited periods at the respective acid gas flares until the facility can safely be brought offline. Under startup, shutdown, maintenance, and upset conditions the AGI wells could be offline. The AGI Flare units, RHA-FL-5100 and RA2-FL-25100, will also control non-condensable and flash tank emissions from the amine vent units, RHA-AMINE and RA2-AMINE during such events.

**Pigging Operations**
Pipeline inspection gauges (PIG) are used in the pipelines to purge, clean, and inspect pipelines to maintain operations and flow assurance of materials. This includes the removal of any accumulated materials or liquids. PIG receivers are used to receive the PIG device as well as to isolate other portions of the pipeline for the pigging process. PIG launchers are used to "launch" the PIG device through the pipeline. Pig Launchers and receivers at the site include RHA-REC-WINKLER, RHA-REC-LIMESTONE-8INCH, RH1-REC-PLANTVIEW, RH1-REC-GUTLINE, RH1-REC-ABU, RH4-REC-24INCH, RHA-REC-LIMESTONE-10INCH, RA2-REC-GREYHOUND, RHA-LAU-LIMESTONE-10INCH, RH1-LAU-NGPL, RH1-LAU-TW, RH1-LAU-ETC, RH1-LAU-ONEOK, and RH2-LAU-GPX.

**Major Process Bottlenecks**
The production at the Red Hills facility is limited at various processes. Inlet separation is constrained by the maximum liquid handling capacity, which limits the ability to manage large slugs or high liquid-to-gas ratios. Amine treating is limited by amine recirculation rates, contactor surface area, and heat duty supplied by the reboilers and hot oil system, which restricts the amount of $CO_2$ and $H_2S$ that can be removed. Glycol dehydration is limited by reboiler capacity. Residue gas compression is constrained by the compression capacity and discharge temperature limits, which restrict the maximum gas throughput and the pressure that can be delivered to the pipeline. NGL production is limited by the heater duty and downstream pumping capacity which restricts how much stabilized product can be processed and exported. Liquid storage is limited by tank volume and export rates, restricting how long the plant can operate at full capacity without offloading. Heaters and the hot oil system are capped by the total installed heat duty, fluid temperature limits, and flow distribution constraints, which together cap how much thermal energy can be supplied to various processes.

# Section 11
## Source Determination

Source submitting under 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC

Sources applying for a construction permit, PSD permit, or operating permit shall evaluate surrounding and/or associated sources (including those sources directly connected to this source for business reasons) and complete this section. Responses to the following questions shall be consistent with the Air Quality Bureau's permitting guidance, Single Source Determination Guidance, which may be found on the Applications Page in the Permitting Section of the Air Quality Bureau website.

Typically, buildings, structures, installations, or facilities that have the same SIC code, that are under common ownership or control, and that are contiguous or adjacent constitute a single stationary source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes. Submission of your analysis of these factors in support of the responses below is optional, unless requested by NMED.

**A. Identify the emission sources evaluated in this section** (list and describe)**:** All items listed in Table 2-A of this application.

**B. Apply the 3 criteria for determining a single source:**

**SIC Code:** Surrounding or associated sources belong to the same 2-digit industrial grouping (2-digit SIC code) as this facility, OR surrounding or associated sources that belong to different 2-digit SIC codes are support facilities for this source.

☑ **Yes** ☐ **No**

**Common Ownership or Control:** Surrounding or associated sources are under common ownership or control as this source.

☑ **Yes** ☐ **No**

**Contiguous or Adjacent:** Surrounding or associated sources are contiguous or adjacent with this source.

☑ **Yes** ☐ **No**

**C. Make a determination:**

☑ The source, as described in this application, constitutes the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes. If in "A" above you evaluated only the source that is the subject of this application, all "**YES**" boxes should be checked. If in "A" above you evaluated other sources as well, you must check **AT LEAST ONE** of the boxes "**NO**" to conclude that the source, as described in the application, is the entire source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes.

☐ The source, as described in this application, **does not** constitute the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes (A permit may be issued for a portion of a source). The entire source consists of the following facilities or emissions sources (list and describe):

# Section 12

## Section 12.A
## PSD Applicability Determination for All Sources

(Submitting under 20.2.72, 20.2.74 NMAC)

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**A PSD applicability determination for all sources**. For sources applying for a significant permit revision, apply the applicable requirements of 20.2.74.AG and 20.2.74.200 NMAC and to determine whether this facility is a major or minor PSD source, and whether this modification is a major or a minor PSD modification. It may be helpful to refer to the procedures for Determining the Net Emissions Change at a Source as specified by Table A-5 (Page A.45) of the EPA New Source Review Workshop Manual to determine if the revision is subject to PSD review.

A. This facility is:

- ☐ **a minor PSD source before and after this modification (if so, delete C and D below).**
- ☐ **a major PSD source before this modification. This modification will make this a PSD minor source.**
- ☑ **an existing PSD Major Source that has never had a major modification requiring a BACT analysis.**
- ☐ **an existing PSD Major Source that has had a major modification requiring a BACT analysis**
- ☐ **a new PSD Major Source after this modification.**

B. **This facility is not one of the listed 20.2.74.501 Table I – PSD Source Categories. The "project" emissions** for this modification are **significant per 20.2.74.300.D NMAC, which states that "if a source or modification becomes a major stationary source or major modification solely due to a relaxation in any enforceable limitation, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then this part shall apply to the source or modification as though construction had not yet commenced." Because enforceable throughput limits are being increased, the entire facility is being treated, for PSD purposes, as if it has not yet been constructed. As such, all emissions associated with the facility are included as part of the analysis. The "project" emissions listed below do only result from changes described in this permit application, thus no emissions from other revisions or modifications, past or future are included to this facility. Also, specifically discuss whether this project results in "de-bottlenecking", or other associated emissions resulting in higher emissions. The project emissions (before netting) for this project are as follows [see Table 2 in 20.2.74.502 NMAC for a complete list of significance levels]:**

a. **NOx: 179.30 TPY**
b. **CO: 512.93 TPY**
c. **VOC: 916.62 TPY**
d. **SOx: 436.28 TPY**
e. **PM: 32.91 TPY**
f. **PM10: 28.17 TPY**
g. **PM2.5: 26.87 TPY**
h. **Fluorides: 0.00 TPY**
i. **Lead: 0.00 TPY**
j. **Sulfur compounds (listed in Table 2): 23.22 TPY**
k. **GHG: 735,360 TPY**

*The emissions represented here are the maximum between the two tank scenarios represented throughout this application.*

Red Hills Gas Processing Plant recently completed an air quality compliance audit under NMED Appendix D: Voluntary Environmental Disclosure policy. The information regarding the compliance status for each applicable permit requirement has been disclosed to the NMED's Compliance and Enforcement Division and a schedule has

been implemented for compliance demonstration. During the course of the audit, Targa Northern Delaware, LLC determined that the facility would be subject to PSD permitting per 20.2.74.300.D NMAC and 40 CFR 52.21(r)(4). This application is being submitted to resolve outstanding air quality permit compliance issues identified during the audit at the facility.

No de-bottlenecking was evaluated for this project as the facility is being re-permitted.

C. **Netting** **Applicant is submitting a PSD Major Modification and chooses not to net.**

D. **BACT** is **required, as this application is a major modification. A BACT analysis is included for all units operating at this facility for the following pollutants: $NO_X$, CO, VOC, $SO_2$, $H_2S$, $PM_{10}$, $PM_{2.5}$, and $CO_2e$. The BACT analysis is included as a separate attachment.**

E. If this is an existing PSD major source, or any facility with emissions greater than 250 TPY (or l00 TPY for 20.2.74.501 Table 1 – PSD Source Categories), determine whether any permit modifications are related, or could be considered a single project with this action, and provide an explanation for your determination whether a PSD modification is triggered.

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# Section 12.B
# Special Requirements for a PSD Application

(Submitting under 20.2.74 NMAC)

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## ***Prior*** *to Submitting a PSD application*, the permittee shall:

- ☑ Submit the BACT analysis for review prior to submittal of the application. No application will be ruled complete until the final determination regarding BACT is made, as this determination can ultimately affect information to be provided in the application. A pre-application meeting is recommended to discuss the requirements of the BACT analysis.
- ☑ Submit a modeling protocol prior to submitting the permit application. **[Except for GHG]**
- ☑ Submit the monitoring exemption analysis protocol prior to submitting the application. **[Except for GHG]**

## For PSD applications, the permittee shall also include the following:

- ☑ Documentation containing an analysis on the impact on visibility. **[Except for GHG]** ***included in modeling report***
- ☑ Documentation containing an analysis on the impact on soil. **[Except for GHG]** ***included in modeling report***
- ☑ Documentation containing an analysis on the impact on vegetation, including state and federal threatened and endangered species. **[Except for GHG]** ***included in modeling report***
- ☑ Documentation containing an analysis on the impact on water consumption and quality. **[Except for GHG]** ***included in modeling report***
- ☑ Documentation that the federal land manager of a Class I area within 100 km of the site has been notified and provided a copy of the application, including the BACT and modeling results. The name of any Class I Federal area located within one hundred (100) kilometers of the facility. ***included in modeling report***

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**PSD Determination**

All emissions from the facility are considered an increase, resulting in the project being a major modification in and of itself. Facility-wide emissions for VOC, CO, and $SO_2$ exceed the PSD threshold of 250 tpy. Each pollutant has been compared to the PSD Significant Emission Rate (SER), and all other pollutants have been deemed significant. Emission totals for each PSD subject pollutant are as follows:

| | $NO_X$ | CO | VOC | $SO_2$ | TSP | $PM_{10}$ | $PM_{2.5}$ | $H_2S$ |
|---|---|---|---|---|---|---|---|---|
| **Project Emission Increases (tpy)** | 179.30 | 512.93 | 916.62 | 436.28 | 32.91 | 28.17 | 26.87 | 23.22 |
| **PSD Threshold (tpy)** | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| **Is the Project a Major Modification?** | No | Yes | Yes | Yes | No | No | No | No |
| **PSD SER (tpy)** | 40 | 100 | 40 | 40 | 25 | 15 | 10 | 10 |
| **Section 17 Is the Pollutant Subject to PSD review?** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

*The emissions represented here are the maximum between the two tank scenarios represented throughout this application.*

The modeling protocol and report can be found in Section 16 of the application. Please note the following can be found in the modeling report:

- PSD Air Dispersion Modeling Report
- Visibility Impact Analysis
- Soil Impact Analysis
- Vegetation Impact Analysis
- Water Consumption and Quality Impact Analysis

# BACKGROUND AIR QUALITY MONITORING WAIVER

## Red Hills Gas Processing Plant




**Targa Northern Delaware LLC**

**Prepared By:**

**TRINITY CONSULTANTS**
9400 Holly Ave NE
Bldg 3, Suite B
Albuquerque, NM 87122
(505) 266-6611

April 2025

Trinity Project 233201.0054

Trinity Consultants

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# 1. EXECUTIVE SUMMARY

Targa Resources LLC, dba Targa Northern Delaware LLC, (Targa) owns and operates the Red Hills Gas Plant (Red Hills) at 1934 W NM Highway 128, Jal, 88252, Lea County, New Mexico under Construction Permit 4310-M6 and Title V Operating Permit P278-M1. Targa is developing a Prevention of Significant Deterioration (PSD) application for submittal to the New Mexico Environment Department (NMED). Per the monitoring requirements found in 20.2.74.306.A NMAC:

*"Any application for a permit under this part shall contain an analysis of ambient air quality. Air quality data can be that measured by the applicant or that available from a government agency in the area affected by the major stationary source or major modification. The analysis shall contain the following:*

> *(1) for a major stationary source, each pollutant for which the potential to emit is equal to or greater than the significant emission rates as listed in Table 2 of this part (20.2.74.502 NMAC); or*
> *(2) for a major modification, each pollutant that would result in a significant net emission increase."*

Preliminary calculations show nitrogen oxides ($NO_X$), particulate matter less than 10 microns in diameter ($PM_{10}$), particulate matter less than 2.5 microns in diameter ($PM_{2.5}$), carbon monoxide (CO), sulfur dioxide ($SO_2$), and volatile organic compound (VOC)[1] emission rates are above the significant emission rates listed in 20.2.74.502 NMAC Table 2. Per 20.2.74.306.C NMAC:

*"Continuous air quality monitoring data shall be required for all pollutants for which a national ambient air quality standard exists. Such data shall be submitted to the department for at least the one (1) year period prior to receipt of the permit application. The department has the discretion to:*

> *(1) determine that a complete and adequate analysis can be accomplished with monitoring data gathered over a period shorter than one year but not less than four months; or*
>
> *(2) determine that existing air quality monitoring data is representative of air quality in the affected area and accept such data in lieu of additional monitoring by the applicant."*

Targa contends that, based on the requirements of 40 CFR 51, Appendix W (Guideline),[2] the existing ambient monitoring programs operated by the New Mexico Environmental Department (NMED), Texas Commission on Environmental Quality (TCEQ), and Arizona Department Of Environmental Quality (ADEQ) are sufficient to meet the background ambient air quality monitoring requirements of 40 CFR 51, Appendix W, Section 8.3.1(a)(ii) and thus may be used in lieu collecting site-specific monitoring data for the PSD permit application. Targa is proposing to use ambient air quality data collected at the monitoring stations listed in **Table 1-1** for those pollutants and averaging periods that may exceed a significant impact level (SIL) for the facility-only, source-specific modeling analysis in lieu of collecting site-specific data for nitrogen dioxide ($NO_2$), $PM_{10}$, $PM_{2.5}$, CO, $SO_2$, and ozone.

[1] VOC is a precursor for ozone formation.

[2] Code of Federal Regulations, Title 40 – Protection of Environment, Part 51, Appendix W, Section 8.3. January 17, 2017.

**Table 1-1. Background Ambient Air Quality Design Value Concentrations for Modeling**

| Station/ AQS ID | Pollutant | Averaging Period | Monitored Design Value ($\mu g/m^3$) | NAAQS [a] ($\mu g/m^3$ unless noted) | NMAAQS ($\mu g/m^3$) |
|---|---|---|---|---|---|
| 5ZS Hobbs Jefferson/ 35-025-0008 | $NO_2$ | 1-Hour | 58.3 | 188.03 | --- |
| | | 24-Hour | --- | --- | 188.03 |
| | | Annual | 9.4 | 99.66 | 94.02 |
| El Paso Chamizal/ 48-141-0044 | CO | 1-Hour | 4,697 | 40,069.6 | 14,997.5 |
| | | 8-Hour | 2,291 | 10,303.6 | 9,960.1 |
| N/A | Ozone [b] | 8-Hour | --- | 0.070 ppm | --- |
| Douglas Red Cross/ 04-003-1005 | $PM_{10}$ | 24-Hour | 124 | 150 | --- |
| 5ZS Hobbs Jefferson/ 35-025-0008 | $PM_{2.5}$ | 24-Hour | 20 | 35 | --- |
| | | Annual | 6.6 | 9 | --- |
| N/A | $SO_2$ [c] | 1-Hour | --- | 196.4 | --- |
| | | 3-Hour | --- | 1309.3 | --- |
| | | 24-hour | --- | --- | 261.9 |
| | | Annual | --- | --- | 52.4 |

a. The NAAQS were converted from ppb to $\mu g/m^3$ by NMED.[3] The form of the monitored design value and NAAQS are found in: https://www.epa.gov/criteria-air-pollutants/naaqs-table.
b. If the Targa source-specific analysis shows that the significant impact level (SIL) of 1.0 ppb may be exceeded, Targa will consult with the NMED on how to address cumulative ambient ozone impacts.
c. Per NMED Air Dispersion Modeling Guidelines (Revised July 2024), Section 2.6.8.2, sources located in the Pecos-Permian Basin Intrastate Air Quality Control Regions (AQCR 155) should be modeled explicitly with the source and surrounding sources. Red Hills Gas Plant is located in Lea County, which is part of the AQCR 155, and will be explicitly modeled with surrounding sources; background $SO_2$ concentrations will not be added to the modeled impacts.

[3] NMED Air Dispersion Modeling Guidelines (Revised July 2024), Section 2.5.

# 2. RED HILLS GAS PROCESSING PLANT OVERVIEW

The Red Hills Gas Processing Plant is an existing natural gas processing plant located in Lea County, New Mexico consisting of several treating and processing trains. Natural gas will be treated to remove acid gases ($H_2S$ and $CO_2$), dehydrated to remove water, and processed to remove C2+ hydrocarbons from the gas stream. Amine treating units, glycol dehydration units, mole sieve dehydration units, cryogenic gas processing equipment, associated condensate stabilization systems, and other supporting equipment will be utilized to perform these functions. The plant has been designated a primary Standard Industrial Classification (SIC) Code of 1311.

# 3. EXISTING AIR QUALITY DATA EVALUATION

The NMED, TCEQ, and ADEQ operate air quality monitoring stations listed below and shown in **Figure 3-1** are evaluated in this report:

- NMED 5ZS Hobbs Jefferson (AQS ID 35-025-0008): $NO_2$ and $PM_{2.5}$
- TCEQ El Paso Chamizal (AQD ID 48-141-0044): CO
- ADEQ Douglas Red Cross (AQD ID 04-003-1005): $PM_{10}$

## 3.1 Background Ambient Monitoring Requirements for Modeling

The portion of the background air quality that accounts for Other Sources as defined in 40 CFR 51, Appendix W, Section 8.3.1.(ii)[4] [i.e., emission sources other than those that would be explicitly modeled under Section 8.3.1.(i)], should be characterized by ambient monitoring data. Other Sources are defined as the portion of the background attributable to natural sources, other unidentified sources in the vicinity of the project, and regional transport contributions from more distant sources (domestic and international).

Existing air quality monitoring may be used to account for Other Sources as stated in 40 CFR 51, Appendix W, Section 8.3.2.b, which may be applicable to the Red Hills Gas Plant under 40 CFR 51, Appendix W, Section 8.3.3, Sections (a) and (d):

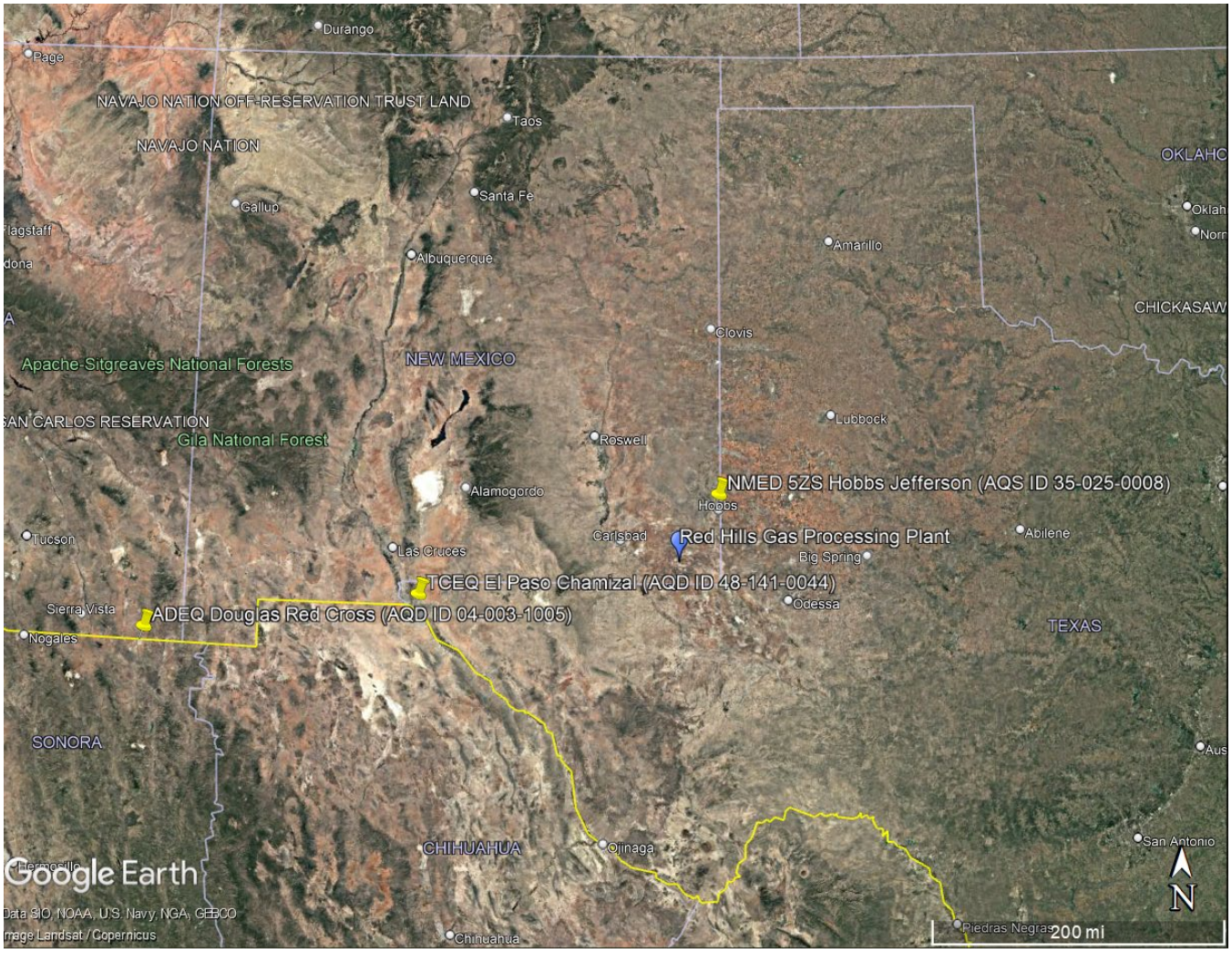
> *If there are no monitors located in the vicinity of the new or modifying source, a "regional site" may be used to determine background concentrations. A regional site is one that is located away from the area of interest but is impacted by similar or adequately representative sources.*

As described in this section, the existing air quality monitors operated by the NMED, TCEQ, and ADEQ are in source environments that may adequately represent Other Sources, as defined above, for purposes of estimating cumulative air quality impacts associated with the Red Hills Gas Plant.

Per NMED Air Dispersion Modeling Guidelines (Revised July 2024), Section 2.6.8.2, sources located in the Pecos-Permian Basin Intrastate Air Quality Control Regions (AQCR 155) should be modeled explicitly with the source and surrounding sources. Red Hills Gas Plant is located in Lea County, which is part of the AQCR 155, and will be explicitly modeled with surrounding sources; background $SO_2$ concentrations will not be added to the modeled impacts.

[4] Code of Federal Regulations, Title 40 – Protection of Environment, Part 51, Appendix W, Section 8.3. January 17, 2017.

## Figure 3-1 Existing Air Quality Monitoring Stations



## 3.2 Existing Data Assessment

### 3.2.1 Monitor Locations

The nearest active $NO_2$ and $PM_{2.5}$ data are collected at the Hobbs Jefferson monitoring station approximately 66 kilometers (km) northeast of the Red Hills Gas Plant. This monitoring station may be adequate to represent existing ambient air quality concentrations for purposes of cumulative NAAQS modeling. The Hobbs Jefferson monitors are located in the Permian Basin and are impacted by adjacent and nearby sources of emissions that are similar in nature to the industrial activity near the Red Hills Gas Plant. The Hobbs Jefferson monitoring station is recommended by NMED[5] for $NO_2$ and $PM_{2.5}$ and therefore proposed to characterize the concentrations from Other Sources defined in Section 8.3.2.b of the Guideline as cited above.

The nearest active $PM_{10}$ monitors are located in El Paso, Texas; Albuquerque, New Mexico; and Douglas, Arizona. The El Paso Chamizal monitor was not considered representative of air quality in the vicinity of the Red Hills Gas Plant because the monitor is located near significant adjacent highways and is immediately downwind of Ciudad Juarez, Mexico and impacted by the urban El Paso area. The El Paso Chamizal monitor was therefore not considered further for $PM_{10}$. The Albuquerque $PM_{10}$ monitors were also not considered representative of air quality in the vicinity of the Red Hills Gas Plant. These monitors are impacted by significant highway traffic, are located in a topographically different region of the state of New Mexico, and therefore not considered further for $PM_{10}$. The Douglas Red Cross monitor is located in a topographically and climatically similar area with similar population densities and industries present in the vicinity of the Red Hills Gas Plant. Therefore, this monitor was selected as a representative monitor for $PM_{10}$.

Carbon monoxide is collected at the TCEQ El Paso Chamizal monitor. The location of the monitor is impacted by higher levels of emissions, especially those emissions related to on road mobile and other urban sources, than those present in the vicinity of the Red Hills Gas Plant. If the Red Hills Gas Plant source-specific (i.e., significance) analysis shows that cumulative CO modeling is required, the TCEQ El Paso Chamizal monitor is adequate, and likely conservative, of the background ambient CO concentrations in the vicinity of the Plant.

It should be noted that nearby sources will be modeled explicitly, as applicable for each pollutant,[6] as part of the PSD permit application in conjunction with the Red Hills Gas Plant emission sources. The addition of adequately representative background concentrations to model-predicted impacts will represent the cumulative air quality impacts for the PSD application.

### 3.2.2 Data Quality

The NMED, TCEQ, and ADEQ have established their respective monitoring networks following each state's most recent annual network plan review documents.[7,8,9]

The Hobbs $NO_2$ and $PM_{2.5}$ monitors are maintained and operated by the NMED in accordance with the State's Quality Assurance Project Plan (QAPP) that has been approved by EPA Region 6. The monitors are

[5] NMED Air Quality Bureau Air Dispersion Modeling Guidelines, Sections 4.4.5 and 4.4.8 (Revised July 2024).

[6] NMED Air Quality Bureau Air Dispersion Modeling Guidelines, Table 20 (Revised July 2024).

[7] https://www.env.nm.gov/air-quality/wp-content/uploads/sites/2/2023/11/2023-Annual-Network-Review.pdf

[8] https://www.tceq.texas.gov/airquality/monops/past_network_reviews

[9] https://static.azdeq.gov/pn/aq_2023_monitoring_plan.pdf

subject to periodic calibrations, performance evaluations, and technical systems audits in accordance with 40 CFR 58 Appendix A. The quality assurance/quality control (QA/QC) requirements in 40 CFR 58 Appendix A (State and Local Air Monitoring Stations) are appropriate for characterizing the ambient background concentrations in the Red Hills Gas Plant project area with regards to data quality.

Similarly, TCEQ's El Paso Chamizal and ADEQ's Douglass Red Cross air quality monitors are maintained and operated by the respective agencies in accordance with QAPPs that have been approved by EPA Region 6 and EPA Region 9, respectively. The monitors are also subject to periodic calibrations, performance evaluations, and technical systems audits in accordance with 40 CFR 58, Appendix A.

The NMED, TCEQ, and ADEQ data that have been submitted to EPA's Air Quality System (AQS) database for calendar years 2021-2023 have been certified and are assumed to be acceptable for use in cumulative NAAQS modeling evaluations for the Red Hills Gas Plant PSD permit application.

### 3.2.3 Data Currentness and Completeness

The most recent 3-year period (2021-2023) of certified data are available in AQS and have been used in this evaluation and represent the 3-year period prior to the anticipated submittal date of the PSD permit application. The PSD data completeness requirement is 80 percent by pollutant by quarter. Each of the monitors presented in **Table 1-1** exceeded the quarterly completeness requirement for the respective pollutant.

## 3.3 Existing Air Quality Data Conclusions

The NMED, TCEQ, and ADEQ operate robust networks of ambient air quality monitors in the nearby arid desert southwest. The existing ambient air quality data summarized in this report are adequate to characterize Other Sources, as defined in 40 CFR 51, Appendix W, Section 8.3.1.(ii), in the forthcoming cumulative impact analyses that will be submitted with the PSD application for the Red Hills Gas Plant.

# STATE AND PSD AIR QUALITY IMPACTS ASSESSMENT PROTOCOL ADDENDUM (SUPPLEMENT) (REVISED)

## Red Hills Gas Processing Plant

**Targa Northern Delaware LLC**

**Prepared By:**

**TRINITY CONSULTANTS**
9400 Holly Ave NE
Bldg 3, Suite B
Albuquerque, NM 87122
505.266.6611

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Trinity Project No: 233201.0054

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# 1. EXECUTIVE SUMMARY (SUPPLEMENT)

Targa Resources LLC, dba Targa Northern Delaware LLC, (Targa) operates the Red Hills Gas Processing Plant (Red Hills) at 1934 W NM Highway 128, Jal, 88252, Lea County, New Mexico under Construction Permit 4310-M6 and Title V Operating Permit P278-M1.

The initial modeling protocol was submitted on April 10, 2025. After initial discussions, minor revisions and additional modeling methodologies were determined to be necessary. This addendum is being submitted as a supplement to the initial modeling protocol to address the following additional items:

- Daily flaring emission rates.
- Clarification on alternative operating scenarios.
- Updated Class I Q/D Analyses for all relevant operating scenarios.
- Additional flaring information for Class I AQRV Analyses and Class I PSD Increment Analyses.

In addition to the above, refined modeled emission rates are provided for all model scenarios in Appendix A to this supplement. The sections of this addendum parallel the original sections of the submitted modeling protocol for ease of integration. The emission rates presented herein are subject to change throughout the further development of the associated application.

The table below provides a cross reference between the unit IDs utilized throughout the application for the facility and the Model IDs presented herein.

**Table 1-1. Unit ID Cross Reference**

| Application Unit ID | Model ID |
|---|---|
| RH1-FL-29-1003 | 1-EP-2 |
| RH2-FL-5100 | 2-EP-2a |
| RH3-FL-5100 | 3-EP-2a |
| RH4-FL-45100 | 4-EP-2a |
| RH5-FL-55100 | 5-EP-2 |
| RHA-FL-5100 | 2.5-EP-5 |
| RA2-FL-25100 | 5.5-EP-1b |

# 2. RED HILLS GAS PROCESSING PLANT OVERVIEW

## 2.1 Plant Description

This section is unchanged from the previously submitted protocol.

## 2.2 Plant Location and Surrounding Area

This section is unchanged from the previously submitted protocol.

# 3. SOURCE CHARACTERIZATION (SUPPLEMENT)

## 3.1 Point Sources

This section is unchanged from the previously submitted protocol.

## 3.2 Flares (Supplement)

This section presents the way the flares and their corresponding emission rates will be represented in the AERMOD and CALPUFF models.

### 3.2.1 Sweet Gas Flares (Supplement)

Short-term emissions for sweet gas flares, which include the 1-hr, 8-hr, and 24-hr averaging periods reflect the sum of process emissions and the worst-case startup, shutdown and maintenance (SSM) emissions. Short-term emissions modeled for sweet gas flares, which include the 1-hr, 8-hr, and 24-hr averaging periods, reflect the sum of process emissions and the worst-case startup, shutdown and maintenance (SSM) emissions. Pilot, purge, and dehydrator still vent emissions are all included in process emissions, where appropriate, meaning that they are assumed to be emitted continuously over a 24-hour period. For 24-hour standards, process emissions are assumed to occur for the entire period, while worst-case SSM emissions are assumed to only occur for the duration of the worst-case SSM event, which is 12 hours. The worst case SSM event would expend all of its proposed annual tons per year (TPY) emissions limit within a 12-hour period at that rate; therefore, it is assumed that this approach is conservative.

Annual emissions for sweet gas flares only account for process emissions, which include pilot, purge, and dehydrator still vent emissions, where appropriate. Per NMED Modeling Guidance Section 4.1.6, SSM does not have to demonstrate compliance with the annual standards or annual increment consumption.[1]

The table below summarizes the hourly, daily, and annual $NO_x$ and $SO_2$ emission rates proposed to be modeled for each sweet gas flare. Due to the short averaging periods for CO (1-hour and 8-hour) and $H_2S$ ($^1/_2$ hour), emissions are not reported here. Modeling for both pollutants will utilize the highest hourly emission rate, as reported in Appendix A.

**Table 3-1. Sweet Gas Flares Emission Rates**

| Unit ID | Hourly Emission Rate (lb/hr) | | Daily Emission Rate[a] (lb/hr) | | Annual Emission Rate[b] (lb/hr) | |
|---|---|---|---|---|---|---|
| | $NO_x$ | $SO_2$ | $NO_x$ | $SO_2$ | $NO_x$ | $SO_2$ |
| 1-EP-2 | 211.68 | 2.56 | 106.12 | 1.35 | 0.56 | 0.15 |
| 2-EP-2a | 563.35 | 5.00 | 281.86 | 2.50 | 0.37 | 0.0017 |
| 3-EP-2a | 563.35 | 5.00 | 281.86 | 2.50 | 0.37 | 0.0017 |
| 4-EP-2a | 648.31 | 5.75 | 324.08 | 2.88 | 0.37 | 0.0017 |
| 5-EP-2 | 648.18 | 5.75 | 324.47 | 2.88 | 0.76 | 0.0035 |

a. Daily emission rates assume process emissions are emitted continuously over a 24-hour period, while worst-case SSM emissions are assumed to only occur for the duration of the worst-case SSM event, which is 12 hours.
b. Annual emission rates only account for process emissions.

[1] NMED Modeling Guidance (July 2024). Section 4.1.6 Startup, Shutdown, Maintenance (SSM), and Other Short-term Emissions

### 3.2.2 Acid Gas Flares (Supplement)

Flare units 2.5-EP-5 and 5.5-EP-1b are designed to combust SSM and gaseous emissions from various process equipment at the facility. These flares also handle acid gas emissions from RHA-AMINE and RA2-AMINE when AGI-1 and AGI-2 are offline. There are three (3) operating scenarios for these flares summarized in Table 3-2 below. Each flare unit will have hourly emission limits (represented by the three operating scenarios) based on whether the flares are operating simultaneously or exclusively, as represented in Table 3-3 below.

**Table 3-2. Acid Gas Flare Scenarios**

| Unit ID | AOS 1 Processes | AOS 2 Processes | AOS 3 Processes |
|---|---|---|---|
| **2.5-EP-5** | Pilot<br>Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge |
| **5.5-EP-1b** | Pilot<br>Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge | Pilot<br>Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions |

**Table 3-3. AGI Flaring Scenarios Hourly Emission Rates**

| Unit ID | Scenario | NOx (lb/hr) | CO (lb/hr) | $SO_2$ (lb/hr) | $H_2S$ (lb/hr) |
|---|---|---|---|---|---|
| **2.5-EP-5** | AOS 1 | 16.83 | 144.32 | 128.29 | 1.39 |
| | AOS 2 | 19.65 | 168.45 | 274.83 | 3.01 |
| | AOS 3 | 0.071 | 0.61 | 1.02E-03 | 2.86E-06 |
| **5.5-EP-1b** | AOS 1 | 16.92 | 145.07 | 127.13 | 1.38 |
| | AOS 2 | 0.17 | 1.47 | 1.83E-03 | 6.88E-06 |
| | AOS 3 | 53.99 | 215.79 | 258.17 | 2.80 |

In addition to the flaring scenarios represented above, each flare is also going to take a daily emission rate limit to more appropriately represent impacts over a 24-hour period. The proposed daily emission rate limits for these units, in lb/day, are presented in Table 3-4 below.

**Table 3-4. AGI Flaring Scenarios Daily Emission Rates**

| Unit ID | Scenario | NOx (lb/day) | CO (lb/day) | $SO_2$ (lb/day) | $H_2S$ (lb/day) |
|---|---|---|---|---|---|
| **2.5-EP-5** | AOS 1 | 269.31 | 2309.06 | 2052.62 | 22.25 |
| | AOS 2 | 314.34 | 2695.23 | 4397.29 | 48.20 |
| | AOS 3 | 1.71 | 14.66 | 0.025 | 6.86E-05 |
| **5.5-EP-1b** | AOS 1 | 270.72 | 2321.19 | 2034.08 | 22.05 |
| | AOS 2 | 2.75 | 23.54 | 0.029 | 1.10E-04 |
| | AOS 3 | 971.74 | 384.23 | 4646.98 | 50.38 |

## 3.3 Area Sources

This section is unchanged from the previously submitted protocol.

## 3.4 Volume Sources - Roads

This section is unchanged from the previously submitted protocol.

# 4. CLASS II MODELING PROCEDURES (SUPPLEMENT)

## 4.1 Model Selection

This section is unchanged from the previously submitted protocol.

## 4.2 Model Inputs Options

This section is unchanged from the previously submitted protocol.

## 4.3 Alternate Operating Scenarios (Supplement)

For units with alternative operating scenarios occurring at the same emission point, such as the flares at the facility, the scenario with the maximum modeled impact will be used for the modeling demonstration. The alternative operating scenarios, which have lesser impact, will be detailed Section 15 of the PSD permit application package submittal.

For alternative operating scenarios that occur at different emission points, all scenarios will be modeled in the significant impact analysis. The scenario that results in the most significant impact will be used to demonstrate compliance through a cumulative analysis.

The most significant alternative operating scenario revolves around the flares that operate on the acid gas trains. Three scenarios exist: RHA-FL-5100 operating independently (Scenario #1), RA2-FL-25100 operating independently (Scenario #2), and RHA-FL-5100 and RA2-FL-25100 operating simultaneously (Scenario #3). Details regarding the limitation of these scenarios and their associated emission rates will be provided in detail in the application and modeling report submitted to the NMED. Preliminary emissions associated with the scenarios are presented in Section 3.2. and Appendix A.

## 4.4 Portable Sources

This section is unchanged from the previously submitted protocol.

## 4.5 Land Use Classification

This section is unchanged from the previously submitted protocol.

## 4.6 Plume Downwash

This section is unchanged from the previously submitted protocol.

## 4.7 Meteorological Data

This section is unchanged from the previously submitted protocol.

## 4.8 Ambient Air Boundary

This section is unchanged from the previously submitted protocol.

## 4.9 Receptor Network and Terrain Elevations

This section is unchanged from the previously submitted protocol.

## 4.10 Nearby Source Inventory

This section is unchanged from the previously submitted protocol.

## 4.11 Background Concentrations

This section is unchanged from the previously submitted protocol.

## 4.12 Estimating $NO_2$ Impacts

This section is unchanged from the previously submitted protocol.

## 4.13 Secondary Pollutant Formation

This section is unchanged from the previously submitted protocol.

# 5. CLASS II MODELING ANALYSIS

## 5.1 Significant Impact Analysis

This section is unchanged from the previously submitted protocol.

## 5.2 Cumulative Impact Analysis

This section is unchanged from the previously submitted protocol.

# 6. ADDITIONAL IMPACTS

## 6.1 Growth Analysis

This section is unchanged from the previously submitted protocol.

## 6.2 Soil and Vegetation Analysis

This section is unchanged from the previously submitted protocol.

## 6.3 Visibility Impairment Analysis

This section is unchanged from the previously submitted protocol.

# 7. CLASS I MODELING PROCEDURES AND ANALYSES (SUPPLEMENT)

## 7.1 Initial Screening Analysis

This section is unchanged from the previously submitted protocol.

## 7.2 Q/D Analysis (Supplement)

A Q/D screening analysis was performed in a manner consistent with the proposed method as outlined in FLAG 2010.[2] This method compares the ratio of visibility-affecting pollutants (VAP, which includes $NO_X$, $SO_2$, $PM_{10}$ and $H_2SO_4$) emission rates associated with the project to the distance from the Class I area. There are no direct $H_2SO_4$ emissions, so the screening analysis only considers $NO_X$, $SO_2$, and $PM_{10}$ emissions.

For the FLAG 2010 approach, "Q" is calculated as the sum of the worst-case 24-hour emissions due to the "project", converted to an annual basis. The "D"' term is defined as the distance, in kilometers (km), from the facility to the closest receptor in the corresponding Class I area. A Q/D screening threshold of ten (10) is provided in the FLAG 2010 guidance document.

When considering the proposed emissions for facility, the total "Q" is roughly 7,100 tons per year (tpy). Table 7-1 through 7-3 show the project's Q/D for the three operating scenarios detailed in Section 3.2.2.

**Table 7-1. Class I AQRV Screening Analysis Result – Scenario 1**

| Class I Area | Distance (km) | Annualized Maximum Daily Emission Rate (tpy) | | | Q (tpy) | Q/D* | Additional Review? |
|---|---|---|---|---|---|---|---|
| | | $SO_2$ | $NO_X$ | $PM_{10}$ | | | (Yes/No) |
| Carlsbad Caverns National Park | 79.80 | 1,123 | 6,022 | 36.87 | 7,182 | 90.00 | Yes |
| Guadalupe Mountains National Park | 116.00 | | | | | 61.91 | Yes |
| Salt Creek Wilderness | 170.60 | | | | | 42.10 | Yes |
| Big Bend | 279.75 | | | | | 25.67 | Yes |

[2] Federal Land Managers' Air Quality Related Values Work Group (FLAG), Phase I Report-Revised (2010), NSP,/NRPC/NRR, 2010

**Table 7-2. Class I AQRV Screening Analysis Result – Scenario 2**

| Class I Area | Distance (km) | Annualized Maximum Daily Emission Rate (tpy) | | | Q (tpy) | Q/D* | Additional Review? |
|---|---|---|---|---|---|---|---|
| | | $SO_2$ | $NO_X$ | $PM_{10}$ | | | (Yes/No) |
| Carlsbad Caverns National Park | 79.80 | 1,136 | 5,673 | 36.87 | 7,146 | 89.55 | Yes |
| Guadalupe Mountains National Park | 116.00 | | | | | 61.60 | Yes |
| Salt Creek Wilderness | 170.60 | | | | | 41.89 | Yes |
| Big Bend | 279.75 | | | | | 25.54 | Yes |

**Table 7-3. Class I AQRV Screening Analysis Result – Scenario 3**

| Class I Area | Distance (km) | Annualized Maximum Daily Emission Rate (tpy) | | | Q (tpy) | Q/D* | Additional Review? |
|---|---|---|---|---|---|---|---|
| | | $SO_2$ | $NO_X$ | $PM_{10}$ | | | (Yes/No) |
| Carlsbad Caverns National Park | 79.80 | 1,132 | 5,981 | 36.87 | 7,150 | 89.59 | Yes |
| Guadalupe Mountains National Park | 116.00 | | | | | 61.64 | Yes |
| Salt Creek Wilderness | 170.60 | | | | | 41.91 | Yes |
| Big Bend | 279.75 | | | | | 25.56 | Yes |

* Q/D values are based on preliminary emission estimates and are subject to change during the course of the application development.

## 7.3 Class I AQRV

This section is unchanged from the previously submitted protocol.

## 7.4 Class I PSD Increment Analyses

This section is unchanged from the previously submitted protocol.

# APPENDIX. MODELED EMISSION RATES AND SOURCE PARAMETERS

The emission rates and stack parameters may change throughout the development of this application.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## AERMOD Inputs Summary- Scenario 1 - Updated 5/21/2025

| | Point Sources | | Stack Locations | | | Stack Parameters | | | | Short-Term Emissions (lb/hr) | | | | | | Long-Term Emissions (lb/hr) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Stack Height (m) | Stack Temperature (K) | Stack Velocity (m/s) | Stack Diameter (m) | 1-hr $NO_x$ | CO | 1-hr $SO_2$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $NO_x$ | Annual $SO_2$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 639,181.00 | 3,565,054.00 | 1,092.76 | 15.24 | 602.04 | 6.97 | 1.27 | 0.754 | 1.573 | 0.029 | 0.187 | 0.187 | 5.818E-04 | 0.754 | 0.029 | 0.187 | 0.187 |
| | 1.5EP1G | 10k Stabilizer Heater | 639,160.00 | 3,565,063.00 | 1,092.94 | 5.19 | 602.04 | 7.07 | 0.91 | 0.396 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 0.396 | 0.015 | 0.098 | 0.098 |
| | 4EP1G | 10 k Stabilizer Heater | 638,738.00 | 3,565,708.00 | 1,093.81 | 5.64 | 652.59 | 10.17 | 0.61 | 0.882 | 0.487 | 0.0090 | 0.058 | 0.058 | 1.802E-04 | 0.882 | 9.008E-03 | 0.058 | 0.058 |
| | 2EP1A | Mol Sieve Heater | 639,109.00 | 3,565,471.00 | 1,093.58 | 5.03 | 560.93 | 7.59 | 0.56 | 0.941 | 0.355 | 6.571E-03 | 0.067 | 0.067 | 1.314E-04 | 0.941 | 6.571E-03 | 0.067 | 0.067 |
| | 2EP1B | Cryo HMO Heater | 639,108.00 | 3,565,468.00 | 1,093.59 | 7.01 | 422.04 | 3.16 | 1.17 | 0.412 | 0.858 | 0.016 | 0.162 | 0.162 | 3.176E-04 | 0.412 | 0.016 | 0.162 | 0.162 |
| | 2EP1E | Gylcol Reboiler | 638,985.00 | 3,565,317.00 | 1,093.32 | 8.10 | 602.04 | 2.78 | 0.61 | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 2EP1H | Amine Reboiler | 639,024.00 | 3,565,335.00 | 1,093.36 | 8.38 | 477.59 | 13.85 | 1.07 | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2AEP1D | Amine Reboiler | 639,025.00 | 3,565,316.00 | 1,093.29 | 8.38 | 477.59 | 13.85 | 1.07 | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2.5EP1D | Amine Reboiler | 639,537.00 | 3,565,192.00 | 1,090.66 | 7.19 | 568.15 | 12.83 | 0.81 | 0.637 | 1.254 | 0.023 | 0.149 | 0.149 | 4.641E-04 | 0.637 | 0.023 | 0.149 | 0.149 |
| | 3EP1A | Mol Sieve Heater | 638,877.00 | 3,565,321.00 | 1,093.23 | 6.86 | 523.71 | 12.90 | 0.41 | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 3EP1B | Cryo HMO Heater | 638,886.00 | 3,565,318.00 | 1,093.25 | 8.08 | 523.71 | 10.19 | 0.71 | 0.455 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 0.455 | 0.015 | 0.098 | 0.098 |
| | 3EP1E | Glycol Reboiler | 638,983.00 | 3,565,333.00 | 1,093.31 | 9.91 | 602.04 | 22.70 | 0.21 | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 4EP1A | Mol Sieve Heater | 638,797.00 | 3,565,896.00 | 1,092.53 | 7.01 | 523.71 | 12.90 | 0.41 | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 4EP1B | Cryo HMO Heater | 638,789.00 | 3,565,898.00 | 1,092.61 | 8.23 | 523.71 | 10.19 | 0.71 | 0.455 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 0.455 | 0.015 | 0.098 | 0.098 |
| | 4EP1D | Amine Reboiler | 638,693.00 | 3,565,901.00 | 1,093.68 | 13.18 | 533.15 | 35.70 | 0.71 | 1.537 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 1.537 | 0.053 | 0.338 | 0.338 |
| | 4EP1E | Glycol Reboiler | 638,738.00 | 3,565,903.00 | 1,093.00 | 8.15 | 533.15 | 1.81 | 0.71 | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 4EP1H | Amine Reboiler | 638,694.00 | 3,565,881.00 | 1,093.67 | 13.18 | 533.15 | 35.70 | 0.71 | 1.537 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 1.537 | 0.053 | 0.338 | 0.338 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 638,586.00 | 3,565,901.00 | 1,094.68 | 13.79 | 533.71 | 14.21 | 1.22 | 1.800 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.800 | 0.062 | 0.396 | 0.396 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 638,587.00 | 3,565,881.00 | 1,094.74 | 13.79 | 533.71 | 14.21 | 1.22 | 1.800 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.800 | 0.062 | 0.396 | 0.396 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 638,925.00 | 3,565,919.00 | 1,091.89 | 6.93 | 523.71 | 4.15 | 0.71 | 0.481 | 0.336 | 6.215E-03 | 0.040 | 0.040 | 1.243E-04 | 0.481 | 6.215E-03 | 0.040 | 0.040 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 638,915.00 | 3,565,920.00 | 1,092.07 | 9.14 | 523.71 | 5.27 | 1.22 | 0.693 | 1.258 | 0.023 | 0.150 | 0.150 | 4.653E-04 | 0.693 | 0.023 | 0.150 | 0.150 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 638,907.00 | 3,565,921.00 | 1,092.15 | 8.59 | 560.93 | 13.60 | 0.41 | 0.482 | 0.337 | 6.229E-03 | 0.040 | 0.040 | 1.246E-04 | 0.482 | 6.229E-03 | 0.040 | 0.040 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 638,895.00 | 3,565,918.00 | 1,092.20 | 11.20 | 523.71 | 11.81 | 0.81 | 0.690 | 1.252 | 0.023 | 0.149 | 0.149 | 4.634E-04 | 0.690 | 0.023 | 0.149 | 0.149 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 638,584.00 | 3,565,932.00 | 1,094.69 | 13.93 | 510.93 | 13.61 | 1.22 | 1.880 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.880 | 0.062 | 0.396 | 0.396 |
| | 5.5EP1A | AGI 2 HMO Heater | 639,562.00 | 3,565,404.00 | 1,089.73 | 13.72 | 510.93 | 39.79 | 0.71 | 1.865 | 3.302 | 0.061 | 0.393 | 0.393 | 1.222E-03 | 1.865 | 0.061 | 0.393 | 0.393 |
| Flares | 1EP2 | Flare (SSM) | 639,217.00 | 3,565,202.00 | 1,093.05 | 51.27 | 1273.00 | 20.00 | 9.14 | 211.681 | 1811.272 | 2.555 | - | - | 0.028 | 5.63E-01 | 1.49E-01 | - | - |
| | 2EP2A | Emergency Flare A (Inlet) | 639,187.00 | 3,565,436.00 | 1,093.60 | 80.71 | 1273.00 | 20.00 | 14.92 | 563.351 | 4827.796 | 5.002 | - | - | 0.060 | 3.69E-01 | 1.69E-03 | - | - |
| | 2.5EP5 | Emergency AGI Flare | 639,512.00 | 3,565,274.00 | 1,090.62 | 62.06 | 1273.00 | 20.00 | 4.70 | 16.832 | 144.316 | 128.289 | - | - | 1.391 | 7.12E-02 | 1.02E-03 | - | - |
| | 3EP2A | Flare (SSM) | 638,844.00 | 3,565,244.00 | 1,093.95 | 80.71 | 1273.00 | 20.00 | 14.92 | 563.351 | 4827.796 | 5.002 | - | - | 0.060 | 3.69E-01 | 1.69E-03 | - | - |
| | 4EP2A | Flare (SSM) | 638,832.00 | 3,565,976.00 | 1,092.68 | 84.19 | 1273.00 | 20.00 | 16.00 | 648.307 | 5552.871 | 5.754 | - | - | 0.069 | 3.69E-01 | 1.69E-03 | - | - |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 638,958.00 | 3,565,980.00 | 1,092.68 | 114.36 | 1273.00 | 20.00 | 16.00 | 648.184 | 5552.625 | 5.753 | - | - | 0.069 | 7.55E-01 | 3.45E-03 | - | - |
| | 5.5EP1B | AGI 2 Flare SSM | 639,542.00 | 3,565,339.00 | 1,090.58 | 61.32 | 1273.00 | 20.00 | 4.84 | 16.920 | 145.075 | 127.130 | - | - | 1.378 | 1.72E-01 | 1.83E-03 | - | - |
| | EP9 | Sour Slop Tank Control Flare | 639,595.00 | 3,565,278.00 | 1,090.20 | 6.73 | 1273.00 | 20.00 | 0.08 | 0.760 | 3.058 | 1.595 | - | - | 0.020 | 7.07E-03 | 1.60E+00 | - | - |
| | EP13 | Sour Water Tanks Flare | 639,628.00 | 3,565,443.00 | 1,088.96 | 7.95 | 1273.00 | 20.00 | 0.08 | 3.182 | 12.703 | 1.813 | - | - | 0.024 | 7.08E-03 | 1.81E+00 | - | - |
| | EP79 | Condensate Tank Flare | 639,513.00 | 3,564,914.00 | 1,090.35 | 9.67 | 1273.00 | 20.00 | 0.11 | 7.730 | 30.759 | 6.588E-05 | - | - | 7.143E-07 | 6.84E-02 | 6.59E-05 | - | - |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 639,010.00 | 3,565,298.00 | 1,093.20 | 18.82 | 1088.71 | 1.38 | 3.05 | 1.706 | 6.272 | 19.361 | 0.671 | 0.671 | 9.754 | 1.521 | 19.361 | 0.671 | 0.671 |
| | EP8 | Thermal Oxidizer | 638,713.00 | 3,565,923.00 | 1,093.43 | 20.73 | 1088.71 | 1.65 | 3.05 | 1.250 | 0.761 | 14.074 | 0.596 | 0.596 | 6.441 | 1.353 | 14.075 | 0.596 | 0.596 |
| | EP10 | Thermal Oxidizer | 638,602.00 | 3,565,931.00 | 1,094.55 | 23.16 | 1255.37 | 117.56 | 3.05 | 1.240 | 0.755 | 14.149 | 0.559 | 0.559 | 6.471 | 1.345 | 14.150 | 0.559 | 0.559 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | 638,497.00 | 3,565,657.00 | 1,095.25 | 1.83 | 0.00 | 0.30 | 0.33 | - | - | - | - | - | 1.480E-04 | - | - | - | - |
| Generators | GEN1 | Diesel Fired Generator | 638,648.80 | 3,565,545.00 | 1,095.35 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN2 | Diesel Fired Generator | 638,658.80 | 3,565,545.20 | 1,095.22 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN3 | Diesel Fired Generator | 638,663.40 | 3,565,545.20 | 1,095.17 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN4 | Diesel Fired Generator | 638,663.40 | 3,565,539.80 | 1,095.17 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN5 | Diesel Fired Generator | 638,663.40 | 3,565,529.80 | 1,095.27 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN6 | Diesel Fired Generator | 638,663.50 | 3,565,519.80 | 1,095.39 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN7 | Diesel Fired Generator | 638,663.50 | 3,565,509.80 | 1,095.48 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN8 | Diesel Fired Generator | 638,663.50 | 3,565,500.30 | 1,095.57 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN9 | Diesel Fired Generator | 638,663.10 | 3,565,500.20 | 1,095.57 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN10 | Diesel Fired Generator | 638,653.10 | 3,565,500.10 | 1,095.68 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 638,643.10 | 3,565,500.00 | 1,095.75 | 4.51 | 689.82 | 93.21 | 0.21 | 0.305 | 0.185 | 0.594 | 0.023 | 0.023 | - | 0.0014 | 0.0027 | 0.0001 | 0.0001 |
| | GEN_WW | Well Water Generator | 638,377.00 | 3,565,219.00 | 1,093.36 | 4.57 | 500.00 | 5.00 | 0.08 | 0.009 | 0.081 | 0.001 | 0.087 | 0.087 | - | 0.0086 | 0.0011 | 0.0012 | 0.0012 |

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# AERMOD Inputs Summary- Scenario 1 - Updated 5/21/2025

| | Point Sources | | Short-Term Emissions (g/s) | | | | | | Long-Term Emissions (g/s) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Emission Units** | **Description** | **1-hr $NO_x$** | **CO** | **1-hr $SO_2$** | **24-hr $PM_{10}$** | **24-hr $PM_{2.5}$** | **$H_2S$** | **Annual $NO_x$** | **Annual $SO_2$** | **Annual $PM_{10}$** | **Annual $PM_{2.5}$** |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 0.095 | 0.198 | 3.665E-03 | 0.024 | 0.024 | 7.331E-05 | 0.095 | 3.665E-03 | 0.024 | 0.024 |
| | 1.5EP1G | 10k Stabilizer Heater | 0.050 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.050 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1G | 10 k Stabilizer Heater | 0.111 | 0.061 | 1.135E-03 | 7.296E-03 | 7.296E-03 | 2.270E-05 | 0.111 | 1.135E-03 | 7.296E-03 | 7.296E-03 |
| | 2EP1A | Mol Sieve Heater | 0.119 | 0.045 | 8.280E-04 | 8.467E-03 | 8.467E-03 | 1.656E-05 | 0.119 | 8.280E-04 | 8.467E-03 | 8.467E-03 |
| | 2EP1B | Cryo HMO Heater | 0.052 | 0.108 | 2.001E-03 | 0.020 | 0.020 | 4.002E-05 | 0.052 | 2.001E-03 | 0.020 | 0.020 |
| | 2EP1E | Gylcol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 2EP1H | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2AEP1D | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2.5EP1D | Amine Reboiler | 0.080 | 0.158 | 2.924E-03 | 0.019 | 0.019 | 5.848E-05 | 0.080 | 2.924E-03 | 0.019 | 0.019 |
| | 3EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 3EP1B | Cryo HMO Heater | 0.057 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.057 | 1.923E-03 | 0.012 | 0.012 |
| | 3EP1E | Glycol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 4EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 4EP1B | Cryo HMO Heater | 0.057 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.057 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1D | Amine Reboiler | 0.194 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.194 | 6.618E-03 | 0.043 | 0.043 |
| | 4EP1E | Glycol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 4EP1H | Amine Reboiler | 0.194 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.194 | 6.618E-03 | 0.043 | 0.043 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 0.227 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.227 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 0.227 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.227 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 0.061 | 0.042 | 7.831E-04 | 5.034E-03 | 5.034E-03 | 1.566E-05 | 0.061 | 7.831E-04 | 5.034E-03 | 5.034E-03 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 0.087 | 0.158 | 2.932E-03 | 0.019 | 0.019 | 5.863E-05 | 0.087 | 2.932E-03 | 0.019 | 0.019 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 0.061 | 0.042 | 7.848E-04 | 5.045E-03 | 5.045E-03 | 1.570E-05 | 0.061 | 7.848E-04 | 5.045E-03 | 5.045E-03 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 0.087 | 0.158 | 2.919E-03 | 0.019 | 0.019 | 5.839E-05 | 0.087 | 2.919E-03 | 0.019 | 0.019 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 0.237 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.237 | 7.757E-03 | 0.050 | 0.050 |
| | 5.5EP1A | AGI 2 HMO Heater | 0.235 | 0.416 | 7.697E-03 | 0.049 | 0.049 | 1.539E-04 | 0.235 | 7.697E-03 | 0.049 | 0.049 |
| Flares | 1EP2 | Flare (SSM) | 26.671 | 228.216 | 0.322 | 0 | 0 | 3.499E-03 | 0.071 | 0.019 | 0 | 0 |
| | 2EP2A | Emergency Flare A (Inlet) | 70.981 | 608.292 | 0.630 | 0 | 0 | 7.586E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 2.5EP5 | Emergency AGI Flare | 2.121 | 18.184 | 16.164 | 0 | 0 | 0.175 | 8.976E-03 | 1.291E-04 | 0 | 0 |
| | 3EP2A | Flare (SSM) | 70.981 | 608.292 | 0.630 | 0 | 0 | 7.546E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 4EP2A | Flare (SSM) | 81.685 | 699.650 | 0.725 | 0 | 0 | 8.722E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 81.670 | 699.619 | 0.725 | 0 | 0 | 8.679E-03 | 0.095 | 4.353E-04 | 0 | 0 |
| | 5.5EP1B | AGI 2 Flare SSM | 2.132 | 18.279 | 16.018 | 0 | 0 | 0.174 | 0.022 | 2.308E-04 | 0 | 0 |
| | EP9 | Sour Slop Tank Control Flare | 0.096 | 0.385 | 0.201 | 0 | 0 | 2.535E-03 | 8.908E-04 | 0.201 | 0 | 0 |
| | EP13 | Sour Water Tanks Flare | 0.401 | 1.601 | 0.228 | 0 | 0 | 2.965E-03 | 8.921E-04 | 0.228 | 0 | 0 |
| | EP79 | Condensate Tank Flare | 0.974 | 3.876 | 8.301E-06 | 0 | 0 | 9.000E-08 | 8.619E-03 | 8.301E-06 | 0 | 0 |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 0.215 | 0.790 | 2.439 | 0.084 | 0.084 | 1.229 | 0.192 | 2.439 | 0.084 | 0.084 |
| | EP8 | Thermal Oxidizer | 0.157 | 0.096 | 1.773 | 0.075 | 0.075 | 0.812 | 0.170 | 1.773 | 0.075 | 0.075 |
| | EP10 | Thermal Oxidizer | 0.156 | 0.095 | 1.783 | 0.070 | 0.070 | 0.815 | 0.169 | 1.783 | 0.070 | 0.070 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | - | 0 | 0 | 0 | 0 | 1.865E-05 | 0 | 0 | 0 | 0 |
| Generators | GEN1 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN2 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN3 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN4 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN5 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN6 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN7 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN8 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN9 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN10 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 3.839E-02 | 2.328E-02 | 7.488E-02 | 2.950E-03 | 2.950E-03 | 0.000E+00 | 1.753E-04 | 3.419E-04 | 1.347E-05 | 1.347E-05 |
| | GEN_WW | Well Water Generator | 1.089E-03 | 1.017E-02 | 1.402E-04 | 1.094E-02 | 1.094E-02 | 0.000E+00 | 1.089E-03 | 1.402E-04 | 1.498E-04 | 1.498E-04 |

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## AERMOD Inputs Summary- Scenario 2 - Updated 5/21/2025

| | Point Sources | | Stack Locations | | | Stack Parameters | | | | Short-Term Emissions (lb/hr) | | | | | | Long-Term Emissions (lb/hr) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Stack Height (m) | Stack Temperature (K) | Stack Velocity (m/s) | Stack Diameter (m) | 1-hr $NO_x$ | CO | 1-hr $SO_2$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $NO_x$ | Annual $SO_2$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 639,181.00 | 3,565,054.00 | 1,092.76 | 15.24 | 602.04 | 6.97 | 1.27 | 0.754 | 1.573 | 0.029 | 0.187 | 0.187 | 5.818E-04 | 0.754 | 0.029 | 0.187 | 0.187 |
| | 1.5EP1G | 10k Stabilizer Heater | 639,160.00 | 3,565,063.00 | 1,092.94 | 5.19 | 602.04 | 7.07 | 0.91 | 0.396 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 0.396 | 0.015 | 0.098 | 0.098 |
| | 4EP1G | 10 k Stabilizer Heater | 638,738.00 | 3,565,708.00 | 1,093.81 | 5.64 | 652.59 | 10.17 | 0.61 | 0.882 | 0.487 | 0.0090 | 0.058 | 0.058 | 1.802E-04 | 0.882 | 9.008E-03 | 0.058 | 0.058 |
| | 2EP1A | Mol Sieve Heater | 639,109.00 | 3,565,471.00 | 1,093.58 | 5.03 | 560.93 | 7.59 | 0.56 | 0.941 | 0.355 | 6.571E-03 | 0.067 | 0.067 | 1.314E-04 | 0.941 | 6.571E-03 | 0.067 | 0.067 |
| | 2EP1B | Cryo HMO Heater | 639,108.00 | 3,565,468.00 | 1,093.59 | 7.01 | 422.04 | 3.16 | 1.17 | 0.412 | 0.858 | 0.016 | 0.162 | 0.162 | 3.176E-04 | 0.412 | 0.016 | 0.162 | 0.162 |
| | 2EP1E | Gylcol Reboiler | 638,985.00 | 3,565,317.00 | 1,093.32 | 8.10 | 602.04 | 2.78 | 0.61 | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 2EP1H | Amine Reboiler | 639,024.00 | 3,565,335.00 | 1,093.36 | 8.38 | 477.59 | 13.85 | 1.07 | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2AEP1D | Amine Reboiler | 639,025.00 | 3,565,316.00 | 1,093.29 | 8.38 | 477.59 | 13.85 | 1.07 | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2.5EP1D | Amine Reboiler | 639,537.00 | 3,565,192.00 | 1,090.66 | 7.19 | 568.15 | 12.83 | 0.81 | 0.637 | 1.254 | 0.023 | 0.149 | 0.149 | 4.641E-04 | 0.637 | 0.023 | 0.149 | 0.149 |
| | 3EP1A | Mol Sieve Heater | 638,877.00 | 3,565,321.00 | 1,093.23 | 6.86 | 523.71 | 12.90 | 0.41 | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 3EP1B | Cryo HMO Heater | 638,886.00 | 3,565,318.00 | 1,093.25 | 8.08 | 523.71 | 10.19 | 0.71 | 0.455 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 0.455 | 0.015 | 0.098 | 0.098 |
| | 3EP1E | Glycol Reboiler | 638,983.00 | 3,565,333.00 | 1,093.31 | 9.91 | 602.04 | 22.70 | 0.21 | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 4EP1A | Mol Sieve Heater | 638,797.00 | 3,565,896.00 | 1,092.53 | 7.01 | 523.71 | 12.90 | 0.41 | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 4EP1B | Cryo HMO Heater | 638,789.00 | 3,565,898.00 | 1,092.61 | 8.23 | 523.71 | 10.19 | 0.71 | 0.455 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 0.455 | 0.015 | 0.098 | 0.098 |
| | 4EP1D | Amine Reboiler | 638,693.00 | 3,565,901.00 | 1,093.68 | 13.18 | 533.15 | 35.70 | 0.71 | 1.537 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 1.537 | 0.053 | 0.338 | 0.338 |
| | 4EP1E | Glycol Reboiler | 638,738.00 | 3,565,903.00 | 1,093.00 | 8.15 | 533.15 | 1.81 | 0.71 | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 4EP1H | Amine Reboiler | 638,694.00 | 3,565,881.00 | 1,093.67 | 13.18 | 533.15 | 35.70 | 0.71 | 1.537 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 1.537 | 0.053 | 0.338 | 0.338 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 638,586.00 | 3,565,901.00 | 1,094.68 | 13.79 | 533.71 | 14.21 | 1.22 | 1.800 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.800 | 0.062 | 0.396 | 0.396 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 638,587.00 | 3,565,881.00 | 1,094.74 | 13.79 | 533.71 | 14.21 | 1.22 | 1.800 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.800 | 0.062 | 0.396 | 0.396 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 638,925.00 | 3,565,919.00 | 1,091.89 | 6.93 | 523.71 | 4.15 | 0.71 | 0.481 | 0.336 | 6.215E-03 | 0.040 | 0.040 | 1.243E-04 | 0.481 | 6.215E-03 | 0.040 | 0.040 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 638,915.00 | 3,565,920.00 | 1,092.07 | 9.14 | 523.71 | 5.27 | 1.22 | 0.693 | 1.258 | 0.023 | 0.150 | 0.150 | 4.653E-04 | 0.693 | 0.023 | 0.150 | 0.150 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 638,907.00 | 3,565,921.00 | 1,092.15 | 8.59 | 560.93 | 13.60 | 0.41 | 0.482 | 0.337 | 6.229E-03 | 0.040 | 0.040 | 1.246E-04 | 0.482 | 6.229E-03 | 0.040 | 0.040 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 638,895.00 | 3,565,918.00 | 1,092.20 | 11.20 | 523.71 | 11.81 | 0.81 | 0.690 | 1.252 | 0.023 | 0.149 | 0.149 | 4.634E-04 | 0.690 | 0.023 | 0.149 | 0.149 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 638,584.00 | 3,565,932.00 | 1,094.69 | 13.93 | 510.93 | 13.61 | 1.22 | 1.880 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.880 | 0.062 | 0.396 | 0.396 |
| | 5.5EP1A | AGI 2 HMO Heater | 639,562.00 | 3,565,404.00 | 1,089.73 | 13.72 | 510.93 | 39.79 | 0.71 | 1.865 | 3.302 | 0.061 | 0.393 | 0.393 | 1.222E-03 | 1.865 | 0.061 | 0.393 | 0.393 |
| Flares | 1EP2 | Flare (SSM) | 639,217.00 | 3,565,202.00 | 1,093.05 | 51.27 | 1273.00 | 20.00 | 9.14 | 211.681 | 1811.272 | 2.555 | - | - | 0.028 | 5.63E-01 | 1.49E-01 | - | - |
| | 2EP2A | Emergency Flare A (Inlet) | 639,187.00 | 3,565,436.00 | 1,093.60 | 80.71 | 1273.00 | 20.00 | 14.92 | 563.351 | 4827.796 | 5.002 | - | - | 0.060 | 3.69E-01 | 1.69E-03 | - | - |
| | 2.5EP5 | Emergency AGI Flare | 639,512.00 | 3,565,274.00 | 1,090.62 | 64.71 | 1273.00 | 20.00 | 5.48 | 18.559 | 159.127 | 259.566 | - | - | 2.847 | 7.12E-02 | 1.02E-03 | - | - |
| | 3EP2A | Flare (SSM) | 638,844.00 | 3,565,244.00 | 1,093.95 | 80.71 | 1273.00 | 20.00 | 14.92 | 563.351 | 4827.796 | 5.002 | - | - | 0.060 | 3.69E-01 | 1.69E-03 | - | - |
| | 4EP2A | Flare (SSM) | 638,832.00 | 3,565,976.00 | 1,092.68 | 84.19 | 1273.00 | 20.00 | 16.00 | 648.307 | 5552.871 | 5.754 | - | - | 0.069 | 3.69E-01 | 1.69E-03 | - | - |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 638,958.00 | 3,565,980.00 | 1,092.68 | 114.36 | 1273.00 | 20.00 | 16.00 | 648.184 | 5552.625 | 5.753 | - | - | 0.069 | 7.55E-01 | 3.45E-03 | - | - |
| | 5.5EP1B | AGI 2 Flare SSM | 639,542.00 | 3,565,339.00 | 1,090.58 | 45.71 | 1273.00 | 20.00 | 0.38 | 0.172 | 1.471 | 1.832E-03 | - | - | 6.885E-06 | 1.72E-01 | 1.83E-03 | - | - |
| | EP9 | Sour Slop Tank Control Flare | 639,595.00 | 3,565,278.00 | 1,090.20 | 6.73 | 1273.00 | 20.00 | 0.08 | 0.760 | 3.058 | 1.595 | - | - | 0.020 | 7.07E-03 | 1.60E+00 | - | - |
| | EP13 | Sour Water Tanks Flare | 639,628.00 | 3,565,443.00 | 1,088.96 | 7.95 | 1273.00 | 20.00 | 0.08 | 3.182 | 12.703 | 1.813 | - | - | 0.024 | 7.08E-03 | 1.81E+00 | - | - |
| | EP79 | Condensate Tank Flare | 639,513.00 | 3,564,914.00 | 1,090.35 | 9.67 | 1273.00 | 20.00 | 0.11 | 7.730 | 30.759 | 6.588E-05 | - | - | 7.143E-07 | 6.84E-02 | 6.59E-05 | - | - |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 639,010.00 | 3,565,298.00 | 1,093.20 | 18.82 | 1088.71 | 1.38 | 3.05 | 1.706 | 6.272 | 19.361 | 0.671 | 0.671 | 9.754 | 1.521 | 19.361 | 0.671 | 0.671 |
| | EP8 | Thermal Oxidizer | 638,713.00 | 3,565,923.00 | 1,093.43 | 20.73 | 1088.71 | 1.65 | 3.05 | 1.250 | 0.761 | 14.074 | 0.596 | 0.596 | 6.441 | 1.353 | 14.075 | 0.596 | 0.596 |
| | EP10 | Thermal Oxidizer | 638,602.00 | 3,565,931.00 | 1,094.55 | 23.16 | 1255.37 | 117.56 | 3.05 | 1.240 | 0.755 | 14.149 | 0.559 | 0.559 | 6.471 | 1.345 | 14.150 | 0.559 | 0.559 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | 638,497.00 | 3,565,657.00 | 1,095.25 | 1.83 | 0.00 | 0.30 | 0.33 | - | - | - | - | - | 1.480E-04 | - | - | - | - |
| Generators | GEN1 | Diesel Fired Generator | 638,566.70 | 3,565,975.90 | 1,094.71 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN2 | Diesel Fired Generator | 638,663.50 | 3,565,509.80 | 1,095.48 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN3 | Diesel Fired Generator | 638,663.40 | 3,565,529.80 | 1,095.27 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN4 | Diesel Fired Generator | 638,787.20 | 3,565,307.10 | 1,092.93 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN5 | Diesel Fired Generator | 639,260.20 | 3,565,419.50 | 1,091.22 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN6 | Diesel Fired Generator | 639,637.40 | 3,565,517.70 | 1,089.85 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN7 | Diesel Fired Generator | 639,631.20 | 3,565,285.60 | 1,088.85 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN8 | Diesel Fired Generator | 639,395.10 | 3,565,200.80 | 1,091.95 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN9 | Diesel Fired Generator | 639,160.90 | 3,564,906.50 | 1,092.82 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN10 | Diesel Fired Generator | 639,394.50 | 3,564,891.10 | 1,091.17 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 638,663.50 | 3,565,519.80 | 1,095.39 | 4.51 | 689.82 | 93.21 | 0.21 | 0.305 | 0.185 | 0.594 | 0.023 | 0.023 | - | 0.0014 | 0.0027 | 0.0001 | 0.0001 |
| | GEN_WW | Well Water Generator | 638,377.00 | 3,565,219.00 | 1,093.36 | 4.57 | 500.00 | 5.00 | 0.08 | 0.009 | 0.081 | 0.001 | 0.087 | 0.087 | - | 0.0086 | 0.0011 | 0.0012 | 0.0012 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# AERMOD Inputs Summary- Scenario 2 - Updated 5/21/2025

| | Point Sources | | Short-Term Emissions (g/s) | | | | | | Long-Term Emissions (g/s) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Emission Units** | **Description** | **1-hr $NO_x$** | **CO** | **1-hr $SO_2$** | **24-hr $PM_{10}$** | **24-hr $PM_{2.5}$** | **$H_2S$** | **Annual $NO_x$** | **Annual $SO_2$** | **Annual $PM_{10}$** | **Annual $PM_{2.5}$** |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 0.095 | 0.198 | 3.665E-03 | 0.024 | 0.024 | 7.331E-05 | 0.095 | 3.665E-03 | 0.024 | 0.024 |
| | 1.5EP1G | 10k Stabilizer Heater | 0.050 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.050 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1G | 10 k Stabilizer Heater | 0.111 | 0.061 | 1.135E-03 | 7.296E-03 | 7.296E-03 | 2.270E-05 | 0.111 | 1.135E-03 | 7.296E-03 | 7.296E-03 |
| | 2EP1A | Mol Sieve Heater | 0.119 | 0.045 | 8.280E-04 | 8.467E-03 | 8.467E-03 | 1.656E-05 | 0.119 | 8.280E-04 | 8.467E-03 | 8.467E-03 |
| | 2EP1B | Cryo HMO Heater | 0.052 | 0.108 | 2.001E-03 | 0.020 | 0.020 | 4.002E-05 | 0.052 | 2.001E-03 | 0.020 | 0.020 |
| | 2EP1E | Gylcol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 2EP1H | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2AEP1D | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2.5EP1D | Amine Reboiler | 0.080 | 0.158 | 2.924E-03 | 0.019 | 0.019 | 5.848E-05 | 0.080 | 2.924E-03 | 0.019 | 0.019 |
| | 3EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 3EP1B | Cryo HMO Heater | 0.057 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.057 | 1.923E-03 | 0.012 | 0.012 |
| | 3EP1E | Glycol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 4EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 4EP1B | Cryo HMO Heater | 0.057 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.057 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1D | Amine Reboiler | 0.194 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.194 | 6.618E-03 | 0.043 | 0.043 |
| | 4EP1E | Glycol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 4EP1H | Amine Reboiler | 0.194 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.194 | 6.618E-03 | 0.043 | 0.043 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 0.227 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.227 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 0.227 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.227 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 0.061 | 0.042 | 7.831E-04 | 5.034E-03 | 5.034E-03 | 1.566E-05 | 0.061 | 7.831E-04 | 5.034E-03 | 5.034E-03 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 0.087 | 0.158 | 2.932E-03 | 0.019 | 0.019 | 5.863E-05 | 0.087 | 2.932E-03 | 0.019 | 0.019 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 0.061 | 0.042 | 7.848E-04 | 5.045E-03 | 5.045E-03 | 1.570E-05 | 0.061 | 7.848E-04 | 5.045E-03 | 5.045E-03 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 0.087 | 0.158 | 2.919E-03 | 0.019 | 0.019 | 5.839E-05 | 0.087 | 2.919E-03 | 0.019 | 0.019 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 0.237 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.237 | 7.757E-03 | 0.050 | 0.050 |
| | 5.5EP1A | AGI 2 HMO Heater | 0.235 | 0.416 | 7.697E-03 | 0.049 | 0.049 | 1.539E-04 | 0.235 | 7.697E-03 | 0.049 | 0.049 |
| Flares | 1EP2 | Flare (SSM) | 26.671 | 228.216 | 0.322 | 0 | 0 | 3.499E-03 | 0.071 | 0.019 | 0 | 0 |
| | 2EP2A | Emergency Flare A (Inlet) | 70.981 | 608.292 | 0.630 | 0 | 0 | 7.586E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 2.5EP5 | Emergency AGI Flare | 2.338 | 20.050 | 32.705 | 0 | 0 | 0.359 | 8.976E-03 | 1.291E-04 | 0 | 0 |
| | 3EP2A | Flare (SSM) | 70.981 | 608.292 | 0.630 | 0 | 0 | 7.546E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 4EP2A | Flare (SSM) | 81.685 | 699.650 | 0.725 | 0 | 0 | 8.722E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 81.670 | 699.619 | 0.725 | 0 | 0 | 8.679E-03 | 0.095 | 4.353E-04 | 0 | 0 |
| | 5.5EP1B | AGI 2 Flare SSM | 0.022 | 0.185 | 2.308E-04 | 0 | 0 | 8.675E-07 | 0.022 | 2.308E-04 | 0 | 0 |
| | EP9 | Sour Slop Tank Control Flare | 0.096 | 0.385 | 0.201 | 0 | 0 | 2.535E-03 | 8.908E-04 | 0.201 | 0 | 0 |
| | EP13 | Sour Water Tanks Flare | 0.401 | 1.601 | 0.228 | 0 | 0 | 2.965E-03 | 8.921E-04 | 0.228 | 0 | 0 |
| | EP79 | Condensate Tank Flare | 0.974 | 3.876 | 8.301E-06 | 0 | 0 | 9.000E-08 | 8.619E-03 | 8.301E-06 | 0 | 0 |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 0.215 | 0.790 | 2.439 | 0.084 | 0.084 | 1.229 | 0.192 | 2.439 | 0.084 | 0.084 |
| | EP8 | Thermal Oxidizer | 0.157 | 0.096 | 1.773 | 0.075 | 0.075 | 0.812 | 0.170 | 1.773 | 0.075 | 0.075 |
| | EP10 | Thermal Oxidizer | 0.156 | 0.095 | 1.783 | 0.070 | 0.070 | 0.815 | 0.169 | 1.783 | 0.070 | 0.070 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | - | 0 | 0 | 0 | 0 | 1.865E-05 | 0 | 0 | 0 | 0 |
| Generators | GEN1 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN2 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN3 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN4 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN5 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN6 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN7 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN8 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN9 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN10 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 3.839E-02 | 2.328E-02 | 7.488E-02 | 2.950E-03 | 2.950E-03 | 0.000E+00 | 1.753E-04 | 3.419E-04 | 1.347E-05 | 1.347E-05 |
| | GEN_WW | Well Water Generator | 1.089E-03 | 1.017E-02 | 1.402E-04 | 1.094E-02 | 1.094E-02 | 0.000E+00 | 1.089E-03 | 1.402E-04 | 1.498E-04 | 1.498E-04 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## AERMOD Inputs Summary- Scenario 3 - Updated 5/21/2025

| | Point Sources | | Stack Locations | | | Stack Parameters | | | | Short-Term Emissions (lb/hr) | | | | | | Long-Term Emissions (lb/hr) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Stack Height (m) | Stack Temperature (K) | Stack Velocity (m/s) | Stack Diameter (m) | 1-hr $NO_x$ | CO | 1-hr $SO_2$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $NO_x$ | Annual $SO_2$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 639,181.00 | 3,565,054.00 | 1,092.76 | 15.24 | 602.04 | 6.97 | 1.27 | 0.754 | 1.573 | 0.029 | 0.187 | 0.187 | 5.818E-04 | 0.754 | 0.029 | 0.187 | 0.187 |
| | 1.5EP1G | 10k Stabilizer Heater | 639,160.00 | 3,565,063.00 | 1,092.94 | 5.19 | 602.04 | 7.07 | 0.91 | 0.396 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 0.396 | 0.015 | 0.098 | 0.098 |
| | 4EP1G | 10 k Stabilizer Heater | 638,738.00 | 3,565,708.00 | 1,093.81 | 5.64 | 652.59 | 10.17 | 0.61 | 0.882 | 0.487 | 0.0090 | 0.058 | 0.058 | 1.802E-04 | 0.882 | 9.008E-03 | 0.058 | 0.058 |
| | 2EP1A | Mol Sieve Heater | 639,109.00 | 3,565,471.00 | 1,093.58 | 5.03 | 560.93 | 7.59 | 0.56 | 0.941 | 0.355 | 6.571E-03 | 0.067 | 0.067 | 1.314E-04 | 0.941 | 6.571E-03 | 0.067 | 0.067 |
| | 2EP1B | Cryo HMO Heater | 639,108.00 | 3,565,468.00 | 1,093.59 | 7.01 | 422.04 | 3.16 | 1.17 | 0.412 | 0.858 | 0.016 | 0.162 | 0.162 | 3.176E-04 | 0.412 | 0.016 | 0.162 | 0.162 |
| | 2EP1E | Gylcol Reboiler | 638,985.00 | 3,565,317.00 | 1,093.32 | 8.10 | 602.04 | 2.78 | 0.61 | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 2EP1H | Amine Reboiler | 639,024.00 | 3,565,335.00 | 1,093.36 | 8.38 | 477.59 | 13.85 | 1.07 | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2AEP1D | Amine Reboiler | 639,025.00 | 3,565,316.00 | 1,093.29 | 8.38 | 477.59 | 13.85 | 1.07 | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2.5EP1D | Amine Reboiler | 639,537.00 | 3,565,192.00 | 1,090.66 | 7.19 | 568.15 | 12.83 | 0.81 | 0.637 | 1.254 | 0.023 | 0.149 | 0.149 | 4.641E-04 | 0.637 | 0.023 | 0.149 | 0.149 |
| | 3EP1A | Mol Sieve Heater | 638,877.00 | 3,565,321.00 | 1,093.23 | 6.86 | 523.71 | 12.90 | 0.41 | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 3EP1B | Cryo HMO Heater | 638,886.00 | 3,565,318.00 | 1,093.25 | 8.08 | 523.71 | 10.19 | 0.71 | 0.455 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 0.455 | 0.015 | 0.098 | 0.098 |
| | 3EP1E | Glycol Reboiler | 638,983.00 | 3,565,333.00 | 1,093.31 | 9.91 | 602.04 | 22.70 | 0.21 | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 4EP1A | Mol Sieve Heater | 638,797.00 | 3,565,896.00 | 1,092.53 | 7.01 | 523.71 | 12.90 | 0.41 | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 4EP1B | Cryo HMO Heater | 638,789.00 | 3,565,898.00 | 1,092.61 | 8.23 | 523.71 | 10.19 | 0.71 | 0.455 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 0.455 | 0.015 | 0.098 | 0.098 |
| | 4EP1D | Amine Reboiler | 638,693.00 | 3,565,901.00 | 1,093.68 | 13.18 | 533.15 | 35.70 | 0.71 | 1.537 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 1.537 | 0.053 | 0.338 | 0.338 |
| | 4EP1E | Glycol Reboiler | 638,738.00 | 3,565,903.00 | 1,093.00 | 8.15 | 533.15 | 1.81 | 0.71 | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 4EP1H | Amine Reboiler | 638,694.00 | 3,565,881.00 | 1,093.67 | 13.18 | 533.15 | 35.70 | 0.71 | 1.537 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 1.537 | 0.053 | 0.338 | 0.338 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 638,586.00 | 3,565,901.00 | 1,094.68 | 13.79 | 533.71 | 14.21 | 1.22 | 1.800 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.800 | 0.062 | 0.396 | 0.396 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 638,587.00 | 3,565,881.00 | 1,094.74 | 13.79 | 533.71 | 14.21 | 1.22 | 1.800 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.800 | 0.062 | 0.396 | 0.396 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 638,925.00 | 3,565,919.00 | 1,091.89 | 6.93 | 523.71 | 4.15 | 0.71 | 0.481 | 0.336 | 6.215E-03 | 0.040 | 0.040 | 1.243E-04 | 0.481 | 6.215E-03 | 0.040 | 0.040 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 638,915.00 | 3,565,920.00 | 1,092.07 | 9.14 | 523.71 | 5.27 | 1.22 | 0.693 | 1.258 | 0.023 | 0.150 | 0.150 | 4.653E-04 | 0.693 | 0.023 | 0.150 | 0.150 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 638,907.00 | 3,565,921.00 | 1,092.15 | 8.59 | 560.93 | 13.60 | 0.41 | 0.482 | 0.337 | 6.229E-03 | 0.040 | 0.040 | 1.246E-04 | 0.482 | 6.229E-03 | 0.040 | 0.040 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 638,895.00 | 3,565,918.00 | 1,092.20 | 11.20 | 523.71 | 11.81 | 0.81 | 0.690 | 1.252 | 0.023 | 0.149 | 0.149 | 4.634E-04 | 0.690 | 0.023 | 0.149 | 0.149 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 638,584.00 | 3,565,932.00 | 1,094.69 | 13.93 | 510.93 | 13.61 | 1.22 | 1.880 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.880 | 0.062 | 0.396 | 0.396 |
| | 5.5EP1A | AGI 2 HMO Heater | 639,562.00 | 3,565,404.00 | 1,089.73 | 13.72 | 510.93 | 39.79 | 0.71 | 1.865 | 3.302 | 0.061 | 0.393 | 0.393 | 1.222E-03 | 1.865 | 0.061 | 0.393 | 0.393 |
| Flares | 1EP2 | Flare (SSM) | 639,217.00 | 3,565,202.00 | 1,093.05 | 51.27 | 1273.00 | 20.00 | 9.14 | 211.681 | 1811.272 | 2.555 | - | - | 0.028 | 5.63E-01 | 1.49E-01 | - | - |
| | 2EP2A | Emergency Flare A (Inlet) | 639,187.00 | 3,565,436.00 | 1,093.60 | 80.71 | 1273.00 | 20.00 | 14.92 | 563.351 | 4827.796 | 5.002 | - | - | 0.060 | 3.69E-01 | 1.69E-03 | - | - |
| | 2.5EP5 | Emergency AGI Flare | 639,512.00 | 3,565,274.00 | 1,090.62 | 46.41 | 1273.00 | 20.00 | 0.25 | 0.071 | 0.611 | 1.024E-03 | - | - | 2.859E-06 | 7.12E-02 | 1.02E-03 | - | - |
| | 3EP2A | Flare (SSM) | 638,844.00 | 3,565,244.00 | 1,093.95 | 80.71 | 1273.00 | 20.00 | 14.92 | 563.351 | 4827.796 | 5.002 | - | - | 0.060 | 3.69E-01 | 1.69E-03 | - | - |
| | 4EP2A | Flare (SSM) | 638,832.00 | 3,565,976.00 | 1,092.68 | 84.19 | 1273.00 | 20.00 | 16.00 | 648.307 | 5552.871 | 5.754 | - | - | 0.069 | 3.69E-01 | 1.69E-03 | - | - |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 638,958.00 | 3,565,980.00 | 1,092.68 | 114.36 | 1273.00 | 20.00 | 16.00 | 648.184 | 5552.625 | 5.753 | - | - | 0.069 | 7.55E-01 | 3.45E-03 | - | - |
| | 5.5EP1B | AGI 2 Flare SSM | 639,542.00 | 3,565,339.00 | 1,090.58 | 64.15 | 1273.00 | 20.00 | 5.68 | 53.985 | 215.790 | 258.166 | - | - | 2.799 | 1.72E-01 | 1.83E-03 | - | - |
| | EP9 | Sour Slop Tank Control Flare | 639,595.00 | 3,565,278.00 | 1,090.20 | 6.73 | 1273.00 | 20.00 | 0.08 | 0.760 | 3.058 | 1.595 | - | - | 0.020 | 7.07E-03 | 1.60E+00 | - | - |
| | EP13 | Sour Water Tanks Flare | 639,628.00 | 3,565,443.00 | 1,088.96 | 7.95 | 1273.00 | 20.00 | 0.08 | 3.182 | 12.703 | 1.813 | - | - | 0.024 | 7.08E-03 | 1.81E+00 | - | - |
| | EP79 | Condensate Tank Flare | 639,513.00 | 3,564,914.00 | 1,090.35 | 9.67 | 1273.00 | 20.00 | 0.11 | 7.730 | 30.759 | 6.588E-05 | - | - | 7.143E-07 | 6.84E-02 | 6.59E-05 | - | - |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 639,010.00 | 3,565,298.00 | 1,093.20 | 18.82 | 1088.71 | 1.38 | 3.05 | 1.706 | 6.272 | 19.361 | 0.671 | 0.671 | 9.754 | 1.521 | 19.361 | 0.671 | 0.671 |
| | EP8 | Thermal Oxidizer | 638,713.00 | 3,565,923.00 | 1,093.43 | 20.73 | 1088.71 | 1.65 | 3.05 | 1.250 | 0.761 | 14.074 | 0.596 | 0.596 | 6.441 | 1.353 | 14.075 | 0.596 | 0.596 |
| | EP10 | Thermal Oxidizer | 638,602.00 | 3,565,931.00 | 1,094.55 | 23.16 | 1255.37 | 117.56 | 3.05 | 1.240 | 0.755 | 14.149 | 0.559 | 0.559 | 6.471 | 1.345 | 14.150 | 0.559 | 0.559 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | 638,497.00 | 3,565,657.00 | 1,095.25 | 1.83 | 0.00 | 0.30 | 0.33 | - | - | - | - | - | 1.480E-04 | - | - | - | - |
| Generators | GEN1 | Diesel Fired Generator | 638,566.70 | 3,565,975.90 | 1,094.71 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN2 | Diesel Fired Generator | 638,663.50 | 3,565,509.80 | 1,095.48 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN3 | Diesel Fired Generator | 638,663.40 | 3,565,529.80 | 1,095.27 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN4 | Diesel Fired Generator | 638,787.20 | 3,565,307.10 | 1,092.93 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN5 | Diesel Fired Generator | 639,260.20 | 3,565,419.50 | 1,091.22 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN6 | Diesel Fired Generator | 639,637.40 | 3,565,517.70 | 1,089.85 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN7 | Diesel Fired Generator | 639,631.20 | 3,565,285.60 | 1,088.85 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN8 | Diesel Fired Generator | 639,395.10 | 3,565,200.80 | 1,091.95 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN9 | Diesel Fired Generator | 639,160.90 | 3,564,906.50 | 1,092.82 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN10 | Diesel Fired Generator | 639,394.50 | 3,564,891.10 | 1,091.17 | 4.51 | 689.82 | 22.01 | 0.21 | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 638,663.50 | 3,565,519.80 | 1,095.39 | 4.51 | 689.82 | 93.21 | 0.21 | 0.305 | 0.185 | 0.594 | 0.023 | 0.023 | - | 0.0014 | 0.0027 | 0.0001 | 0.0001 |
| | GEN_WW | Well Water Generator | 638,377.00 | 3,565,219.00 | 1,093.36 | 4.57 | 500.00 | 5.00 | 0.08 | 0.009 | 0.081 | 0.001 | 0.087 | 0.087 | - | 0.0086 | 0.0011 | 0.0012 | 0.0012 |

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# AERMOD Inputs Summary- Scenario 3 - Updated 5/21/2025

| | Point Sources | | Short-Term Emissions (g/s) | | | | | | Long-Term Emissions (g/s) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Emission Units** | **Description** | **1-hr $NO_x$** | **CO** | **1-hr $SO_2$** | **24-hr $PM_{10}$** | **24-hr $PM_{2.5}$** | **$H_2S$** | **Annual $NO_x$** | **Annual $SO_2$** | **Annual $PM_{10}$** | **Annual $PM_{2.5}$** |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 0.095 | 0.198 | 3.665E-03 | 0.024 | 0.024 | 7.331E-05 | 0.095 | 3.665E-03 | 0.024 | 0.024 |
| | 1.5EP1G | 10k Stabilizer Heater | 0.050 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.050 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1G | 10 k Stabilizer Heater | 0.111 | 0.061 | 1.135E-03 | 7.296E-03 | 7.296E-03 | 2.270E-05 | 0.111 | 1.135E-03 | 7.296E-03 | 7.296E-03 |
| | 2EP1A | Mol Sieve Heater | 0.119 | 0.045 | 8.280E-04 | 8.467E-03 | 8.467E-03 | 1.656E-05 | 0.119 | 8.280E-04 | 8.467E-03 | 8.467E-03 |
| | 2EP1B | Cryo HMO Heater | 0.052 | 0.108 | 2.001E-03 | 0.020 | 0.020 | 4.002E-05 | 0.052 | 2.001E-03 | 0.020 | 0.020 |
| | 2EP1E | Gylcol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 2EP1H | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2AEP1D | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2.5EP1D | Amine Reboiler | 0.080 | 0.158 | 2.924E-03 | 0.019 | 0.019 | 5.848E-05 | 0.080 | 2.924E-03 | 0.019 | 0.019 |
| | 3EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 3EP1B | Cryo HMO Heater | 0.057 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.057 | 1.923E-03 | 0.012 | 0.012 |
| | 3EP1E | Glycol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 4EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 4EP1B | Cryo HMO Heater | 0.057 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.057 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1D | Amine Reboiler | 0.194 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.194 | 6.618E-03 | 0.043 | 0.043 |
| | 4EP1E | Glycol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 4EP1H | Amine Reboiler | 0.194 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.194 | 6.618E-03 | 0.043 | 0.043 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 0.227 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.227 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 0.227 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.227 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 0.061 | 0.042 | 7.831E-04 | 5.034E-03 | 5.034E-03 | 1.566E-05 | 0.061 | 7.831E-04 | 5.034E-03 | 5.034E-03 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 0.087 | 0.158 | 2.932E-03 | 0.019 | 0.019 | 5.863E-05 | 0.087 | 2.932E-03 | 0.019 | 0.019 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 0.061 | 0.042 | 7.848E-04 | 5.045E-03 | 5.045E-03 | 1.570E-05 | 0.061 | 7.848E-04 | 5.045E-03 | 5.045E-03 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 0.087 | 0.158 | 2.919E-03 | 0.019 | 0.019 | 5.839E-05 | 0.087 | 2.919E-03 | 0.019 | 0.019 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 0.237 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.237 | 7.757E-03 | 0.050 | 0.050 |
| | 5.5EP1A | AGI 2 HMO Heater | 0.235 | 0.416 | 7.697E-03 | 0.049 | 0.049 | 1.539E-04 | 0.235 | 7.697E-03 | 0.049 | 0.049 |
| Flares | 1EP2 | Flare (SSM) | 26.671 | 228.216 | 0.322 | 0 | 0 | 3.499E-03 | 0.071 | 0.019 | 0 | 0 |
| | 2EP2A | Emergency Flare A (Inlet) | 70.981 | 608.292 | 0.630 | 0 | 0 | 7.586E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 2.5EP5 | Emergency AGI Flare | 8.976E-03 | 0.077 | 1.291E-04 | 0 | 0 | 3.602E-07 | 8.976E-03 | 1.291E-04 | 0 | 0 |
| | 3EP2A | Flare (SSM) | 70.981 | 608.292 | 0.630 | 0 | 0 | 7.546E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 4EP2A | Flare (SSM) | 81.685 | 699.650 | 0.725 | 0 | 0 | 8.722E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 81.670 | 699.619 | 0.725 | 0 | 0 | 8.679E-03 | 0.095 | 4.353E-04 | 0 | 0 |
| | 5.5EP1B | AGI 2 Flare SSM | 6.802 | 27.189 | 32.528 | 0 | 0 | 0.353 | 0.022 | 2.308E-04 | 0 | 0 |
| | EP9 | Sour Slop Tank Control Flare | 0.096 | 0.385 | 0.201 | 0 | 0 | 2.535E-03 | 8.908E-04 | 0.201 | 0 | 0 |
| | EP13 | Sour Water Tanks Flare | 0.401 | 1.601 | 0.228 | 0 | 0 | 2.965E-03 | 8.921E-04 | 0.228 | 0 | 0 |
| | EP79 | Condensate Tank Flare | 0.974 | 3.876 | 8.301E-06 | 0 | 0 | 9.000E-08 | 8.619E-03 | 8.301E-06 | 0 | 0 |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 0.215 | 0.790 | 2.439 | 0.084 | 0.084 | 1.229 | 0.192 | 2.439 | 0.084 | 0.084 |
| | EP8 | Thermal Oxidizer | 0.157 | 0.096 | 1.773 | 0.075 | 0.075 | 0.812 | 0.170 | 1.773 | 0.075 | 0.075 |
| | EP10 | Thermal Oxidizer | 0.156 | 0.095 | 1.783 | 0.070 | 0.070 | 0.815 | 0.169 | 1.783 | 0.070 | 0.070 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | - | 0 | 0 | 0 | 0 | 1.865E-05 | 0 | 0 | 0 | 0 |
| Generators | GEN1 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN2 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN3 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN4 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN5 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN6 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN7 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN8 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN9 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN10 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 3.839E-02 | 2.328E-02 | 7.488E-02 | 2.950E-03 | 2.950E-03 | 0.000E+00 | 1.753E-04 | 3.419E-04 | 1.347E-05 | 1.347E-05 |
| | GEN_WW | Well Water Generator | 1.089E-03 | 1.017E-02 | 1.402E-04 | 1.094E-02 | 1.094E-02 | 0.000E+00 | 1.089E-03 | 1.402E-04 | 1.498E-04 | 1.498E-04 |

| Area Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | Short-Term Emissions (g/s-m$^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Release Height (m) | Initial Vertical Dimension (m) | Area (m$^2$) | $H_2S$ | $H_2S$ |
| FUG1 | FUG-2 | 638,534.70 | 3,565,990.40 | 1,094.96 | 4.572 | 1.063 | 210,192 | 5.703E-05 | 3.419E-11 |
| FUG | FUG | 638,786.20 | 3,565,548.00 | 1,092.71 | 4.572 | 1.063 | 270,947 | 4.356E-04 | 2.026E-10 |
| FUGAGI1 | FUG-AGI1 | 639,414.90 | 3,565,297.60 | 1,090.08 | 4.572 | 1.063 | 46,493 | 0.248 | 6.726E-07 |
| FUGAGI2 | FUG-AGI2 | 639,414.90 | 3,565,543.30 | 1,089.95 | 4.572 | 1.063 | 56,793 | 0.511 | 1.134E-06 |

| Volume Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | | | Long-Term Emissions (lb/hr) | | Short-Term Emissions (g/s) | | | Long-Term Emissions (g/s) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Release Height (m) | Initial Lateral Dimension (m) | Initial Vertical Dimension (m) | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| RRGBOO01 | RRGBOO | 638,556.70 | 3,565,558.40 | 1,096.16 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO02 | RRGBOO | 638,573.60 | 3,565,559.30 | 1,096.00 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO03 | RRGBOO | 638,591.60 | 3,565,559.10 | 1,095.88 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO04 | RRGBOO | 638,609.60 | 3,565,558.90 | 1,095.75 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO05 | RRGBOO | 638,627.60 | 3,565,558.70 | 1,095.41 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO06 | RRGBOO | 638,645.60 | 3,565,558.50 | 1,095.32 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO07 | RRGBOO | 638,663.60 | 3,565,558.30 | 1,095.19 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO08 | RRGBOO | 638,681.60 | 3,565,558.10 | 1,094.92 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO09 | RRGBOO | 638,699.60 | 3,565,557.90 | 1,094.78 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO10 | RRGBOO | 638,717.60 | 3,565,557.80 | 1,094.59 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO11 | RRGBOO | 638,735.60 | 3,565,557.60 | 1,094.46 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO12 | RRGBOO | 638,753.60 | 3,565,557.40 | 1,094.34 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO13 | RRGBOO | 638,771.60 | 3,565,557.20 | 1,093.91 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO14 | RRGBOO | 638,789.60 | 3,565,557.00 | 1,093.11 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO15 | RRGBOO | 638,807.60 | 3,565,556.80 | 1,093.08 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO16 | RRGBOO | 638,825.60 | 3,565,556.60 | 1,093.01 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO17 | RRGBOO | 638,843.60 | 3,565,556.40 | 1,092.93 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO18 | RRGBOO | 638,861.60 | 3,565,556.20 | 1,092.85 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO19 | RRGBOO | 638,879.60 | 3,565,556.00 | 1,092.78 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO20 | RRGBOO | 638,897.60 | 3,565,555.80 | 1,092.72 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGOO066 | RRGOO | 638,918.50 | 3,565,555.60 | 1,092.64 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO067 | RRGOO | 638,936.50 | 3,565,555.50 | 1,092.59 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO068 | RRGOO | 638,954.50 | 3,565,555.30 | 1,092.51 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO069 | RRGOO | 638,972.50 | 3,565,555.10 | 1,092.44 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO070 | RRGOO | 638,990.50 | 3,565,555.00 | 1,092.35 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO071 | RRGOO | 639,008.50 | 3,565,554.80 | 1,092.33 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO072 | RRGOO | 639,026.50 | 3,565,554.70 | 1,092.03 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO073 | RRGOO | 639,044.50 | 3,565,554.50 | 1,092.26 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO074 | RRGOO | 639,062.50 | 3,565,554.30 | 1,092.24 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO075 | RRGOO | 639,080.50 | 3,565,554.20 | 1,092.27 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO076 | RRGOO | 639,098.50 | 3,565,554.00 | 1,092.43 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO077 | RRGOO | 639,116.50 | 3,565,553.90 | 1,092.27 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| O1O2078 | Orange 1 and 2 | 639,129.30 | 3,565,546.40 | 1,092.95 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2079 | Orange 1 and 2 | 639,139.60 | 3,565,531.70 | 1,093.18 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2080 | Orange 1 and 2 | 639,150.00 | 3,565,517.00 | 1,093.31 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2081 | Orange 1 and 2 | 639,160.30 | 3,565,502.30 | 1,093.40 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2082 | Orange 1 and 2 | 639,170.70 | 3,565,487.50 | 1,093.43 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2083 | Orange 1 and 2 | 639,181.00 | 3,565,472.80 | 1,093.46 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2084 | Orange 1 and 2 | 639,191.40 | 3,565,458.10 | 1,093.49 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2085 | Orange 1 and 2 | 639,201.80 | 3,565,443.40 | 1,093.44 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2086 | Orange 1 and 2 | 639,212.10 | 3,565,428.60 | 1,093.37 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2087 | Orange 1 and 2 | 639,205.80 | 3,565,414.60 | 1,093.42 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2088 | Orange 1 and 2 | 639,194.30 | 3,565,400.80 | 1,093.49 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2089 | Orange 1 and 2 | 639,182.80 | 3,565,387.00 | 1,093.48 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2090 | Orange 1 and 2 | 639,171.30 | 3,565,373.10 | 1,093.45 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2091 | Orange 1 and 2 | 639,159.70 | 3,565,359.30 | 1,093.42 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2092 | Orange 1 and 2 | 639,148.20 | 3,565,345.50 | 1,093.36 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2093 | Orange 1 and 2 | 639,136.70 | 3,565,331.70 | 1,093.29 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2094 | Orange 1 and 2 | 639,125.10 | 3,565,317.80 | 1,093.21 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2095 | Orange 1 and 2 | 639,113.60 | 3,565,304.00 | 1,093.14 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2096 | Orange 1 and 2 | 639,102.10 | 3,565,290.20 | 1,093.07 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2097 | Orange 1 and 2 | 639,094.60 | 3,565,274.90 | 1,092.95 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2098 | Orange 1 and 2 | 639,095.10 | 3,565,257.00 | 1,093.33 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2099 | Orange 1 and 2 | 639,099.40 | 3,565,242.90 | 1,093.32 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |

| Volume Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | | | Long-Term Emissions (lb/hr) | | Short-Term Emissions (g/s) | | | Long-Term Emissions (g/s) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Release Height (m) | Initial Lateral Dimension (m) | Initial Vertical Dimension (m) | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| O1O2100 | Orange 1 and 2 | 639,117.40 | 3,565,242.70 | 1,093.31 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2101 | Orange 1 and 2 | 639,135.40 | 3,565,242.40 | 1,093.40 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2102 | Orange 1 and 2 | 639,153.40 | 3,565,242.10 | 1,093.47 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2103 | Orange 1 and 2 | 639,171.40 | 3,565,241.90 | 1,093.48 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2104 | Orange 1 and 2 | 639,189.40 | 3,565,241.60 | 1,093.35 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2105 | Orange 1 and 2 | 639,207.40 | 3,565,241.40 | 1,093.27 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2106 | Orange 1 and 2 | 639,225.40 | 3,565,241.10 | 1,093.16 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2107 | Orange 1 and 2 | 639,243.40 | 3,565,240.80 | 1,093.05 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2108 | Orange 1 and 2 | 639,261.40 | 3,565,240.60 | 1,093.00 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2109 | Orange 1 and 2 | 639,279.40 | 3,565,240.30 | 1,092.98 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2110 | Orange 1 and 2 | 639,297.40 | 3,565,240.00 | 1,092.96 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2111 | Orange 1 and 2 | 639,315.40 | 3,565,239.80 | 1,092.88 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2112 | Orange 1 and 2 | 639,333.40 | 3,565,239.50 | 1,092.63 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2113 | Orange 1 and 2 | 639,351.40 | 3,565,239.20 | 1,092.34 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2114 | Orange 1 and 2 | 639,369.40 | 3,565,239.00 | 1,092.26 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2115 | Orange 1 and 2 | 639,387.40 | 3,565,238.70 | 1,092.23 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2116 | Orange 1 and 2 | 639,405.40 | 3,565,238.40 | 1,091.12 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2117 | Orange 1 and 2 | 639,423.30 | 3,565,238.90 | 1,090.19 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2118 | Orange 1 and 2 | 639,439.80 | 3,565,246.00 | 1,090.23 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2119 | Orange 1 and 2 | 639,456.40 | 3,565,253.10 | 1,090.33 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2120 | Orange 1 and 2 | 639,472.90 | 3,565,260.20 | 1,090.41 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2121 | Orange 1 and 2 | 639,489.40 | 3,565,267.30 | 1,090.49 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2122 | Orange 1 and 2 | 639,506.00 | 3,565,274.30 | 1,090.58 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1123 | Orange 1 | 639,523.20 | 3,565,278.50 | 1,090.65 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1124 | Orange 1 | 639,541.20 | 3,565,279.30 | 1,090.60 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1125 | Orange 1 | 639,559.20 | 3,565,280.10 | 1,090.46 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1126 | Orange 1 | 639,561.70 | 3,565,262.80 | 1,090.46 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1127 | Orange 1 | 639,564.90 | 3,565,245.20 | 1,090.42 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1128 | Orange 1 | 639,569.30 | 3,565,227.70 | 1,090.40 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1129 | Orange 1 | 639,572.60 | 3,565,210.00 | 1,090.38 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O2130 | Orange 2 | 639,539.50 | 3,565,286.70 | 1,090.61 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2131 | Orange 2 | 639,556.60 | 3,565,292.50 | 1,090.48 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2132 | Orange 2 | 639,573.60 | 3,565,298.30 | 1,090.36 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2133 | Orange 2 | 639,588.20 | 3,565,308.70 | 1,090.26 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2134 | Orange 2 | 639,602.60 | 3,565,319.60 | 1,089.83 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2135 | Orange 2 | 639,614.20 | 3,565,333.00 | 1,089.20 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2136 | Orange 2 | 639,624.50 | 3,565,347.80 | 1,089.43 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2137 | Orange 2 | 639,634.80 | 3,565,362.50 | 1,089.83 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2138 | Orange 2 | 639,635.70 | 3,565,380.40 | 1,089.02 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2139 | Orange 2 | 639,636.10 | 3,565,398.40 | 1,088.86 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2140 | Orange 2 | 639,636.40 | 3,565,416.40 | 1,088.80 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| R1R2141 | Red 1 and 2 | 639,120.60 | 3,565,537.90 | 1,093.12 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2142 | Red 1 and 2 | 639,117.20 | 3,565,524.70 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2143 | Red 1 and 2 | 639,099.20 | 3,565,525.40 | 1,093.24 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2144 | Red 1 and 2 | 639,081.20 | 3,565,526.20 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2145 | Red 1 and 2 | 639,063.20 | 3,565,526.90 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2146 | Red 1 and 2 | 639,045.20 | 3,565,527.70 | 1,093.23 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2147 | Red 1 and 2 | 639,027.30 | 3,565,528.40 | 1,093.16 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2148 | Red 1 and 2 | 639,009.30 | 3,565,529.20 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2149 | Red 1 and 2 | 638,991.30 | 3,565,529.90 | 1,093.24 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2150 | Red 1 and 2 | 638,973.50 | 3,565,526.90 | 1,093.23 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2151 | Red 1 and 2 | 638,956.50 | 3,565,521.40 | 1,093.26 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2152 | Red 1 and 2 | 638,939.60 | 3,565,515.20 | 1,093.32 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2153 | Red 1 and 2 | 638,922.70 | 3,565,508.90 | 1,093.36 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2154 | Red 1 and 2 | 638,905.80 | 3,565,502.70 | 1,093.36 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |

| Volume Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | | | Long-Term Emissions (lb/hr) | | Short-Term Emissions (g/s) | | | Long-Term Emissions (g/s) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Release Height (m) | Initial Lateral Dimension (m) | Initial Vertical Dimension (m) | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| R1R2155 | Red 1 and 2 | 638,888.90 | 3,565,496.40 | 1,093.37 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2156 | Red 1 and 2 | 638,872.10 | 3,565,490.20 | 1,093.37 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2157 | Red 1 and 2 | 638,855.20 | 3,565,483.90 | 1,093.39 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2158 | Red 1 and 2 | 638,838.30 | 3,565,477.70 | 1,093.42 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2159 | Red 1 and 2 | 638,822.20 | 3,565,469.80 | 1,093.38 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2160 | Red 1 and 2 | 638,806.50 | 3,565,460.90 | 1,093.26 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2161 | Red 1 and 2 | 638,793.70 | 3,565,448.70 | 1,093.11 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2162 | Red 1 and 2 | 638,782.40 | 3,565,434.70 | 1,093.04 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2163 | Red 1 and 2 | 638,778.30 | 3,565,418.00 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2164 | Red 1 and 2 | 638,777.80 | 3,565,400.00 | 1,093.30 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2165 | Red 1 and 2 | 638,777.30 | 3,565,382.00 | 1,093.37 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2166 | Red 1 and 2 | 638,776.70 | 3,565,364.00 | 1,093.52 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2167 | Red 1 and 2 | 638,776.20 | 3,565,346.00 | 1,093.62 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2168 | Red 1 and 2 | 638,775.70 | 3,565,328.10 | 1,093.75 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2169 | Red 1 and 2 | 638,775.20 | 3,565,310.10 | 1,093.83 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2170 | Red 1 and 2 | 638,774.70 | 3,565,292.10 | 1,093.86 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2171 | Red 1 and 2 | 638,774.20 | 3,565,274.10 | 1,093.98 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2172 | Red 1 and 2 | 638,773.70 | 3,565,256.10 | 1,094.61 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2173 | Red 1 and 2 | 638,773.20 | 3,565,238.10 | 1,094.73 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2174 | Red 1 and 2 | 638,772.70 | 3,565,220.10 | 1,094.86 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2175 | Red 1 and 2 | 638,772.20 | 3,565,202.10 | 1,094.92 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2176 | Red 1 and 2 | 638,779.40 | 3,565,191.40 | 1,095.01 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2177 | Red 1 and 2 | 638,797.40 | 3,565,190.90 | 1,094.99 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2178 | Red 1 and 2 | 638,815.40 | 3,565,190.40 | 1,095.06 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2179 | Red 1 and 2 | 638,833.40 | 3,565,190.00 | 1,095.08 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2180 | Red 1 and 2 | 638,851.40 | 3,565,189.50 | 1,094.99 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2181 | Red 1 and 2 | 638,869.40 | 3,565,189.00 | 1,094.60 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2182 | Red 1 and 2 | 638,887.40 | 3,565,188.50 | 1,094.07 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2183 | Red 1 and 2 | 638,905.30 | 3,565,188.00 | 1,093.80 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2184 | Red 1 and 2 | 638,923.30 | 3,565,187.60 | 1,093.50 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2185 | Red 1 and 2 | 638,941.30 | 3,565,187.10 | 1,093.34 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2186 | Red 1 and 2 | 638,952.00 | 3,565,179.50 | 1,093.50 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2187 | Red 1 and 2 | 638,952.10 | 3,565,161.50 | 1,093.81 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2188 | Red 1 and 2 | 638,952.10 | 3,565,143.50 | 1,094.15 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2189 | Red 1 and 2 | 638,952.20 | 3,565,125.50 | 1,094.37 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2190 | Red 1 and 2 | 638,952.20 | 3,565,107.50 | 1,094.48 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2191 | Red 1 and 2 | 638,952.30 | 3,565,089.50 | 1,094.52 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2192 | Red 1 and 2 | 638,952.30 | 3,565,071.50 | 1,094.46 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2193 | Red 1 and 2 | 638,952.40 | 3,565,053.50 | 1,094.51 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2194 | Red 1 and 2 | 638,952.40 | 3,565,035.50 | 1,094.49 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2195 | Red 1 and 2 | 638,952.50 | 3,565,017.50 | 1,094.33 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2196 | Red 1 and 2 | 638,952.50 | 3,564,999.50 | 1,093.96 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2197 | Red 1 and 2 | 638,952.60 | 3,564,981.50 | 1,093.60 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2198 | Red 1 and 2 | 638,962.00 | 3,564,967.30 | 1,093.38 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2199 | Red 1 and 2 | 638,976.40 | 3,564,957.00 | 1,093.49 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2200 | Red 1 and 2 | 638,992.80 | 3,564,949.70 | 1,093.39 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2201 | Red 1 and 2 | 639,009.30 | 3,564,942.40 | 1,093.05 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2202 | Red 1 and 2 | 639,025.70 | 3,564,935.10 | 1,092.79 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2203 | Red 1 and 2 | 639,042.20 | 3,564,927.80 | 1,092.70 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2204 | Red 1 and 2 | 639,058.60 | 3,564,920.50 | 1,092.67 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2205 | Red 1 and 2 | 639,075.10 | 3,564,913.20 | 1,092.73 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2206 | Red 1 and 2 | 639,091.50 | 3,564,905.80 | 1,092.71 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2207 | Red 1 and 2 | 639,108.00 | 3,564,898.50 | 1,092.82 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2208 | Red 1 and 2 | 639,125.60 | 3,564,896.70 | 1,093.00 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2209 | Red 1 and 2 | 639,143.60 | 3,564,896.40 | 1,093.04 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2210 | Red 1 and 2 | 639,161.60 | 3,564,896.10 | 1,092.88 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2211 | Red 1 and 2 | 639,179.60 | 3,564,895.80 | 1,092.66 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2212 | Red 1 and 2 | 639,197.60 | 3,564,895.50 | 1,092.57 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2213 | Red 1 and 2 | 639,215.60 | 3,564,895.10 | 1,092.39 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2214 | Red 1 and 2 | 639,233.60 | 3,564,893.80 | 1,092.34 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2215 | Red 1 and 2 | 639,251.50 | 3,564,892.30 | 1,092.39 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2216 | Red 1 and 2 | 639,269.50 | 3,564,890.80 | 1,092.27 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2217 | Red 1 and 2 | 639,287.40 | 3,564,889.30 | 1,091.85 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2218 | Red 1 and 2 | 639,305.30 | 3,564,887.80 | 1,091.71 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2219 | Red 1 and 2 | 639,323.30 | 3,564,886.30 | 1,091.63 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2220 | Red 1 and 2 | 639,341.20 | 3,564,884.80 | 1,091.47 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2221 | Red 1 and 2 | 639,349.40 | 3,564,869.10 | 1,091.35 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |

| Volume Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | | | Long-Term Emissions (lb/hr) | | Short-Term Emissions (g/s) | | | Long-Term Emissions (g/s) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Release Height (m) | Initial Lateral Dimension (m) | Initial Vertical Dimension (m) | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| R1R2222 | Red 1 and 2 | 639,365.90 | 3,564,862.40 | 1,091.32 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |

| Volume Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | | | Long-Term Emissions (lb/hr) | | Short-Term Emissions (g/s) | | | Long-Term Emissions (g/s) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Release Height (m) | Initial Lateral Dimension (m) | Initial Vertical Dimension (m) | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| R1R2223 | Red 1 and 2 | 639,382.70 | 3,564,860.50 | 1,091.15 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1224 | Red 1 | 639,399.30 | 3,564,867.30 | 1,091.06 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| R1225 | Red 1 | 639,414.10 | 3,564,877.10 | 1,091.00 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| R1226 | Red 1 | 639,429.10 | 3,564,884.60 | 1,090.96 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| R1227 | Red 1 | 639,447.10 | 3,564,883.90 | 1,090.80 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| GRN228 | Green | 639,126.60 | 3,565,539.30 | 1,093.08 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN229 | Green | 639,133.90 | 3,565,522.80 | 1,093.27 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN230 | Green | 639,141.10 | 3,565,506.30 | 1,093.39 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN231 | Green | 639,148.30 | 3,565,489.80 | 1,093.43 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN232 | Green | 639,160.70 | 3,565,477.40 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN233 | Green | 639,174.90 | 3,565,466.30 | 1,093.49 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN234 | Green | 639,186.30 | 3,565,452.50 | 1,093.52 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN235 | Green | 639,189.90 | 3,565,435.10 | 1,093.58 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN236 | Green | 639,191.20 | 3,565,417.50 | 1,093.51 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN237 | Green | 639,182.20 | 3,565,401.90 | 1,093.51 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN238 | Green | 639,171.20 | 3,565,388.10 | 1,093.48 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN239 | Green | 639,154.80 | 3,565,383.20 | 1,093.48 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN240 | Green | 639,138.30 | 3,565,376.80 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN241 | Green | 639,121.30 | 3,565,375.80 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN242 | Green | 639,105.30 | 3,565,379.50 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| BLUE243 | Blue | 638,906.60 | 3,565,565.60 | 1,093.07 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE244 | Blue | 638,906.70 | 3,565,583.60 | 1,093.17 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE245 | Blue | 638,906.80 | 3,565,601.60 | 1,092.98 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE246 | Blue | 638,906.90 | 3,565,619.60 | 1,092.90 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE247 | Blue | 638,907.10 | 3,565,637.60 | 1,092.79 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE248 | Blue | 638,893.00 | 3,565,641.40 | 1,092.86 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE249 | Blue | 638,875.00 | 3,565,641.30 | 1,093.05 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE250 | Blue | 638,857.00 | 3,565,641.20 | 1,093.07 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE251 | Blue | 638,839.00 | 3,565,641.10 | 1,093.29 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE252 | Blue | 638,821.00 | 3,565,641.00 | 1,093.44 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE253 | Blue | 638,803.00 | 3,565,640.90 | 1,093.62 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE254 | Blue | 638,785.00 | 3,565,640.80 | 1,093.93 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE255 | Blue | 638,767.00 | 3,565,640.70 | 1,094.26 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE256 | Blue | 638,749.00 | 3,565,640.70 | 1,094.39 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE257 | Blue | 638,731.00 | 3,565,640.60 | 1,094.52 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE258 | Blue | 638,713.00 | 3,565,640.50 | 1,094.72 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE259 | Blue | 638,695.00 | 3,565,640.40 | 1,094.77 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE260 | Blue | 638,677.00 | 3,565,640.30 | 1,095.18 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE261 | Blue | 638,659.00 | 3,565,640.20 | 1,095.07 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE262 | Blue | 638,641.00 | 3,565,640.10 | 1,095.14 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE263 | Blue | 638,623.00 | 3,565,640.00 | 1,095.13 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE264 | Blue | 638,605.00 | 3,565,639.90 | 1,095.20 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE265 | Blue | 638,587.00 | 3,565,639.80 | 1,095.23 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE266 | Blue | 638,569.00 | 3,565,639.70 | 1,095.35 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE267 | Blue | 638,553.70 | 3,565,642.30 | 1,095.29 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE268 | Blue | 638,553.90 | 3,565,660.30 | 1,095.10 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE269 | Blue | 638,554.10 | 3,565,678.30 | 1,094.96 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE270 | Blue | 638,554.30 | 3,565,696.30 | 1,094.87 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE271 | Blue | 638,554.50 | 3,565,714.30 | 1,094.77 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE272 | Blue | 638,554.60 | 3,565,732.30 | 1,094.62 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE273 | Blue | 638,554.80 | 3,565,750.30 | 1,094.59 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| REC1 | Pig Receiver | 639,444.48 | 3,565,129.27 | 1,090.29 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 6.807E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 8.576E-06 | 0.000E+00 | 0.000E+00 |
| REC2 | Pig Receiver | 639,307.68 | 3,565,616.31 | 1,090.50 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 3.274E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 4.125E-06 | 0.000E+00 | 0.000E+00 |
| REC3 | Pig Receiver | 639,289.00 | 3,564,912.00 | 1,091.98 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 1.594E-04 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.009E-05 | 0.000E+00 | 0.000E+00 |
| REC4 | Pig Receiver | 639,286.00 | 3,564,921.00 | 1,092.09 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 3.551E-04 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 4.474E-05 | 0.000E+00 | 0.000E+00 |
| REC5 | Pig Receiver | 638,891.26 | 3,565,000.22 | 1,093.81 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 4.137E-04 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 5.212E-05 | 0.000E+00 | 0.000E+00 |
| REC8 | Pig Receiver | 639,430.70 | 3,565,122.22 | 1,090.20 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 2.348E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.959E-06 | 0.000E+00 | 0.000E+00 |
| REC9 | Pig Receiver | 639,429.84 | 3,565,538.30 | 1,090.24 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 6.136E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 7.732E-06 | 0.000E+00 | 0.000E+00 |
| LAU1 | Pig Launcher | 639,302.32 | 3,565,634.42 | 1,090.69 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 2.348E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.959E-06 | 0.000E+00 | 0.000E+00 |
| LAU2 | Pig Launcher | 639,652.45 | 3,564,850.18 | 1,089.03 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| LAU3 | Pig Launcher | 639,263.00 | 3,564,922.00 | 1,092.16 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| LAU4 | Pig Launcher | 639,303.12 | 3,565,242.78 | 1,093.00 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| LAU5 | Pig Launcher | 639,362.08 | 3,565,239.57 | 1,092.24 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| LAU6 | Pig Launcher | 639,221.30 | 3,565,513.72 | 1,093.24 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| 1EP1T | Train 1 Venting SSM | 639,227.80 | 3,565,009.60 | 1,092.60 | 4.572 | 25.180 | 1.063 | 6.786E+00 | 0.000E+00 | 9.421E-02 | 4.632E-03 | 4.625E-04 | 8.551E-01 | 0.000E+00 | 1.187E-02 | 5.837E-04 | 5.827E-05 |
| 2EP1T | Train 2 Venting SSM | 639,000.30 | 3,565,399.20 | 1,093.61 | 4.572 | 7.589 | 1.063 | 0.000E+00 | 0.000E+00 | 6.376E-02 | 4.632E-03 | 4.625E-04 | 0.000E+00 | 0.000E+00 | 8.034E-03 | 5.837E-04 | 5.827E-05 |
| 3EP1T | Train 3 Venting SSM | 638,841.10 | 3,565,382.90 | 1,093.47 | 4.572 | 5.917 | 1.063 | 0.000E+00 | 0.000E+00 | 1.122E-01 | 4.632E-03 | 4.625E-04 | 0.000E+00 | 0.000E+00 | 1.414E-02 | 5.837E-04 | 5.827E-05 |

| Volume Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | | | Long-Term Emissions (lb/hr) | | Short-Term Emissions (g/s) | | | Long-Term Emissions (g/s) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Emission Units** | **Description** | **X Coordinate (m)** | **Y Coordinate (m)** | **Elevation (m)** | **Release Height (m)** | **Initial Lateral Dimension (m)** | **Initial Vertical Dimension (m)** | **24-hr $PM_{10}$** | **24-hr $PM_{2.5}$** | **$H_2S$** | **Annual $PM_{10}$** | **Annual $PM_{2.5}$** | **24-hr $PM_{10}$** | **24-hr $PM_{2.5}$** | **$H_2S$** | **Annual $PM_{10}$** | **Annual $PM_{2.5}$** |
| 4EP1T | Train 4 Venting SSM | 638,783.00 | 3,565,787.30 | 1,091.86 | 4.572 | 36.143 | 1.063 | 0.000E+00 | 0.000E+00 | 4.555E-02 | 4.632E-03 | 4.625E-04 | 0.000E+00 | 0.000E+00 | 5.739E-03 | 5.837E-04 | 5.827E-05 |
| 5EP1T | Train 5 Venting SSM | 638,611.90 | 3,565,851.90 | 1,094.56 | 4.572 | 7.250 | 1.063 | 0.000E+00 | 0.000E+00 | 4.555E-02 | 4.632E-03 | 4.625E-04 | 0.000E+00 | 0.000E+00 | 5.739E-03 | 5.837E-04 | 5.827E-05 |
| 6EP1T | Train 6 Venting SSM | 638,963.10 | 3,565,826.70 | 1,091.89 | 4.572 | 7.427 | 1.063 | 0.000E+00 | 0.000E+00 | 9.219E-03 | 4.632E-03 | 4.625E-04 | 0.000E+00 | 0.000E+00 | 1.162E-03 | 5.837E-04 | 5.827E-05 |
| 2.5EP1T | Train 2.5 Venting SSM | 639,510.30 | 3,565,175.80 | 1,090.64 | 4.572 | 7.070 | 1.063 | 0.000E+00 | 0.000E+00 | 1.786E+00 | 4.632E-03 | 4.625E-04 | 0.000E+00 | 0.000E+00 | 2.251E-01 | 5.837E-04 | 5.827E-05 |
| 5.5EP1T | Train 5.5 Venting SSM | 639,530.90 | 3,565,459.50 | 1,089.80 | 4.572 | 6.932 | 1.063 | 0.000E+00 | 0.000E+00 | 1.704E+01 | 4.632E-03 | 4.625E-04 | 0.000E+00 | 0.000E+00 | 2.147E+00 | 5.837E-04 | 5.827E-05 |
| 2LOAD | Sour Water Loading - AGI1 | 639,585.16 | 3,565,230.21 | 1,090.32 | 3.962 | 0.233 | 0.921 | 0.000E+00 | 0.000E+00 | 7.722E-02 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 9.729E-03 | 0.000E+00 | 0.000E+00 |
| 4LOAD | Sour Water Loading - AGI2 | 639,611.04 | 3,565,413.64 | 1,089.08 | 3.962 | 0.233 | 0.921 | 0.000E+00 | 0.000E+00 | 9.344E-02 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.177E-02 | 0.000E+00 | 0.000E+00 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## CALPUFF Inputs Summary - Updated 5/15/2025

| SN | Capped? | Description | UTM-E (m) | UTM-N (m) | LAT | LONG | LCC X km | LCC Y km | Elevation (m) | Stack Height (m) | Exit Temp (K) | Exit Velocity (m/s) | Diameter (m) | Scenario 1 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Short Term Emission Rate | | | | Daily Emission Rate | | | | Annual Emission Rate | | | |
| | | | | | | | | | | | | | | Total PM10 (g/s) | Total PM2.5 (g/s) | NOx (g/s) | SO2 (g/s) | Total PM10 (g/s) | Total PM2.5 (g/s) | NOx (g/s) | SO2 (g/s) | Total PM10 (g/s) | Total PM2.5 (g/s) | NOx (g/s) | SO2 (g/s) |
| 1EP1 | Yes | Hot Oil Heater | 639,181 | 3,565,054 | 32.21347 | 103.52313 | -613.9757 | -904.1628 | 1,092.76 | 15.24 | 602.039 | 6.970841674 | 1.271016 | 0.0236 | 0.0236 | 0.0950 | 0.0037 | 0.0236 | 0.0236 | 0.0950 | 0.0037 | 0.0236 | 0.0236 | 0.0950 | 0.0037 |
| 1.5EP1G | Yes | 10k Stabilizer Heater | 639,160 | 3,565,063 | 32.21355 | 103.52335 | -613.9937 | -904.1504 | 1,092.94 | 5.193792 | 602.039 | 7.067 | 0.914 | 0.0124 | 0.0124 | 0.0498 | 0.0019 | 0.0124 | 0.0124 | 0.0498 | 0.0019 | 0.0124 | 0.0124 | 0.0498 | 0.0019 |
| 4EP1G | Yes | 10 k Stabilizer Heater | 638,738 | 3,565,708 | 32.21942 | 103.52773 | -614.3608 | -903.4765 | 1,093.81 | 5.6388 | 652.594 | 10.171 | 0.610 | 0.0073 | 0.0073 | 0.1111 | 0.0011 | 0.0073 | 0.0073 | 0.1111 | 0.0011 | 0.0073 | 0.0073 | 0.1111 | 0.0011 |
| 2EP1A | Yes | Mol Sieve Heater | 639,109 | 3,565,471 | 32.21724 | 103.52383 | -614.0119 | -903.7472 | 1,093.58 | 5.0292 | 560.928 | 7.590 | 0.559 | 0.0085 | 0.0085 | 0.1186 | 0.0008 | 0.0085 | 0.0085 | 0.1186 | 0.0008 | 0.0085 | 0.0085 | 0.1186 | 0.0008 |
| 2EP1B | Yes | Cryo HMO Heater | 639,108 | 3,565,468 | 32.21721 | 103.52384 | -614.0157 | -903.7469 | 1,093.59 | 7.0104 | 422.039 | 3.157 | 1.168 | 0.0205 | 0.0205 | 0.0519 | 0.0020 | 0.0205 | 0.0205 | 0.0519 | 0.0020 | 0.0205 | 0.0205 | 0.0519 | 0.0020 |
| 2EP1E | Yes | Gylcol Reboiler | 638,985 | 3,565,317 | 32.21587 | 103.52517 | -614.1513 | -903.8856 | 1,093.32 | 8.1026 | 602.039 | 2.781 | 0.610 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 |
| 2EP1H | Yes | Amine Reboiler | 639,024 | 3,565,335 | 32.21602 | 103.52475 | -614.1106 | -903.8718 | 1,093.36 | 8.382 | 477.594 | 13.854 | 1.067 | 0.0416 | 0.0416 | 0.1676 | 0.0065 | 0.0416 | 0.0416 | 0.1676 | 0.0065 | 0.0416 | 0.0416 | 0.1676 | 0.0065 |
| 2AEP1D | Yes | Amine Reboiler | 639,025 | 3,565,316 | 32.21585 | 103.52474 | -614.1110 | -903.8908 | 1,093.29 | 8.382 | 477.594 | 13.854 | 1.067 | 0.0416 | 0.0416 | 0.1676 | 0.0065 | 0.0416 | 0.0416 | 0.1676 | 0.0065 | 0.0416 | 0.0416 | 0.1676 | 0.0065 |
| 2.5EP1D | Yes | Amine Reboiler | 639,537 | 3,565,192 | 32.21467 | 103.51933 | -613.6121 | -904.0584 | 1,090.66 | 7.1882 | 568.150 | 12.831 | 0.813 | 0.0188 | 0.0188 | 0.0803 | 0.0029 | 0.0188 | 0.0188 | 0.0803 | 0.0029 | 0.0188 | 0.0188 | 0.0803 | 0.0029 |
| 3EP1A | Yes | Mol Sieve Heater | 638,877 | 3,565,321 | 32.21592 | 103.52631 | -614.2580 | -903.8724 | 1,093.23 | 6.858 | 523.706 | 12.904 | 0.405 | 0.0051 | 0.0051 | 0.0614 | 0.0008 | 0.0051 | 0.0051 | 0.0614 | 0.0008 | 0.0051 | 0.0051 | 0.0614 | 0.0008 |
| 3EP1B | Yes | Cryo HMO Heater | 638,886 | 3,565,318 | 32.21589 | 103.52622 | -614.2498 | -903.8763 | 1,093.25 | 8.0772 | 523.706 | 10.192 | 0.710 | 0.0124 | 0.0124 | 0.0573 | 0.0019 | 0.0124 | 0.0124 | 0.0573 | 0.0019 | 0.0124 | 0.0124 | 0.0573 | 0.0019 |
| 3EP1E | Yes | Glycol Reboiler | 638,983 | 3,565,333 | 32.21601 | 103.52519 | -614.1520 | -903.8700 | 1,093.31 | 9.906 | 602.039 | 22.701 | 0.213 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 |
| 4EP1A | Yes | Mol Sieve Heater | 638,797 | 3,565,896 | 32.22111 | 103.52708 | -614.2889 | -903.2908 | 1,092.53 | 7.0104 | 523.706 | 12.904 | 0.405 | 0.0051 | 0.0051 | 0.0614 | 0.0008 | 0.0051 | 0.0051 | 0.0614 | 0.0008 | 0.0051 | 0.0051 | 0.0614 | 0.0008 |
| 4EP1B | Yes | Cryo HMO Heater | 638,789 | 3,565,898 | 32.22113 | 103.52716 | -614.2962 | -903.2880 | 1,092.61 | 8.2296 | 523.706 | 10.192 | 0.710 | 0.0124 | 0.0124 | 0.0573 | 0.0019 | 0.0124 | 0.0124 | 0.0573 | 0.0019 | 0.0124 | 0.0124 | 0.0573 | 0.0019 |
| 4EP1D | Yes | Amine Reboiler | 638,693 | 3,565,901 | 32.22117 | 103.52818 | -614.3917 | -903.2767 | 1,093.68 | 13.1826 | 533.150 | 35.696 | 0.710 | 0.0425 | 0.0425 | 0.1937 | 0.0066 | 0.0425 | 0.0425 | 0.1937 | 0.0066 | 0.0425 | 0.0425 | 0.1937 | 0.0066 |
| 4EP1E | Yes | Glycol Reboiler | 638,738 | 3,565,903 | 32.22118 | 103.52770 | -614.3466 | -903.2788 | 1,093.00 | 8.1534 | 533.150 | 1.814 | 0.710 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 |
| 4EP1H | Yes | Amine Reboiler | 638,694 | 3,565,881 | 32.22099 | 103.52817 | -614.3922 | -903.2968 | 1,093.67 | 13.1826 | 533.150 | 35.696 | 0.710 | 0.0425 | 0.0425 | 0.1937 | 0.0066 | 0.0425 | 0.0425 | 0.1937 | 0.0066 | 0.0425 | 0.0425 | 0.1937 | 0.0066 |
| 5EP1A | Yes | Train 5 - Amine/Glycol Reboiler 1 | 638,586 | 3,565,901 | 32.22118 | 103.52932 | -614.4988 | -903.2679 | 1,094.68 | 13.7922 | 533.706 | 14.212 | 1.219 | 0.0499 | 0.0499 | 0.2268 | 0.0078 | 0.0499 | 0.0499 | 0.2268 | 0.0078 | 0.0499 | 0.0499 | 0.2268 | 0.0078 |
| 5EP1B | Yes | Train 5 - Amine/Glycol Reboiler 2 | 638,587 | 3,565,881 | 32.22100 | 103.52931 | -614.4993 | -903.2879 | 1,094.74 | 13.7922 | 533.706 | 14.212 | 1.219 | 0.0499 | 0.0499 | 0.2268 | 0.0078 | 0.0499 | 0.0499 | 0.2268 | 0.0078 | 0.0499 | 0.0499 | 0.2268 | 0.0078 |
| 5EP1C | Yes | Cryo Train 5 - Mol Sieve Heater | 638,925 | 3,565,919 | 32.22130 | 103.52572 | -614.1596 | -903.2789 | 1,091.89 | 6.9342 | 523.706 | 4.149 | 0.710 | 0.0050 | 0.0050 | 0.0606 | 0.0008 | 0.0050 | 0.0050 | 0.0606 | 0.0008 | 0.0050 | 0.0050 | 0.0606 | 0.0008 |
| 5EP1D | Yes | Cryo Train 5 - HMO Heater | 638,915 | 3,565,920 | 32.22131 | 103.52582 | -614.1689 | -903.2771 | 1,092.07 | 9.144 | 523.706 | 5.270 | 1.219 | 0.0188 | 0.0188 | 0.0873 | 0.0029 | 0.0188 | 0.0188 | 0.0873 | 0.0029 | 0.0188 | 0.0188 | 0.0873 | 0.0029 |
| 6EP1C | Yes | Cryo Train 6 - Mole Sieve Heater | 638,907 | 3,565,921 | 32.22132 | 103.52591 | -614.1773 | -903.2754 | 1,092.15 | 8.5852 | 560.928 | 13.601 | 0.406 | 0.0050 | 0.0050 | 0.0608 | 0.0008 | 0.0050 | 0.0050 | 0.0608 | 0.0008 | 0.0050 | 0.0050 | 0.0608 | 0.0008 |
| 6EP1D | Yes | Cryo Train 6 - HMO Heater | 638,895 | 3,565,918 | 32.22130 | 103.52604 | -614.1896 | -903.2767 | 1,092.20 | 11.2014 | 523.706 | 11.809 | 0.813 | 0.0188 | 0.0188 | 0.0870 | 0.0029 | 0.0188 | 0.0188 | 0.0870 | 0.0029 | 0.0188 | 0.0188 | 0.0870 | 0.0029 |
| 6EP1A | Yes | Train 6 - Amine/Glycol Reboiler 1 | 638,584 | 3,565,932 | 32.22146 | 103.52933 | -614.4975 | -903.2367 | 1,094.69 | 13.92936 | 510.928 | 13.605 | 1.219 | 0.0499 | 0.0499 | 0.2369 | 0.0078 | 0.0499 | 0.0499 | 0.2369 | 0.0078 | 0.0499 | 0.0499 | 0.2369 | 0.0078 |
| 5.5EP1A | Yes | AGI 2 HMO Heater | 639,562 | 3,565,404 | 32.21658 | 103.51904 | -613.5696 | -903.8482 | 1,089.73 | 13.716 | 510.928 | 39.786 | 0.710 | 0.0495 | 0.0495 | 0.2350 | 0.0077 | 0.0495 | 0.0495 | 0.2350 | 0.0077 | 0.0495 | 0.0495 | 0.2350 | 0.0077 |
| 1EP2 | No | Flare (SSM) | 639,217 | 3,565,202 | 32.21480 | 103.52272 | -613.9296 | -904.0210 | 1,093.05 | 51.270 | 1273.000 | 20.000 | 9.145 | 0.000 | 0.000 | 26.671 | 0.322 | 0.000 | 0.000 | 13.371 | 0.170 | 0.000 | 0.000 | 0.071 | 0.019 |
| 2EP2A | No | Emergency Flare A (Inlet) | 639,187 | 3,565,436 | 32.21691 | 103.52301 | -613.9400 | -903.7847 | 1,093.60 | 80.706 | 1273.000 | 20.000 | 14.918 | 0.000 | 0.000 | 70.981 | 0.630 | 0.000 | 0.000 | 35.514 | 0.315 | 0.000 | 0.000 | 0.047 | 0.00021 |
| 2.5EP5 | No | Emergency AGI Flare | 639,512 | 3,565,274 | 32.21541 | 103.51958 | -613.6297 | -903.9745 | 1,090.62 | 62.062 | 1273.000 | 20.000 | 4.700 | 0.000 | 0.000 | 2.121 | 16.164 | 0.000 | 0.000 | 1.414 | 10.776 | 0.000 | 0.000 | 0.009 | 1.29E-04 |
| 3EP2A | No | Flare (SSM) | 638,844 | 3,565,244 | 32.21523 | 103.52668 | -614.2983 | -903.9465 | 1,093.95 | 80.706 | 1273.000 | 20.000 | 14.918 | 0.000 | 0.000 | 70.981 | 0.630 | 0.000 | 0.000 | 35.514 | 0.315 | 0.000 | 0.000 | 0.047 | 0.00021 |
| 4EP2A | No | Flare (SSM) | 638,832 | 3,565,976 | 32.22183 | 103.52670 | -614.2474 | -903.2134 | 1,092.68 | 84.194 | 1273.000 | 20.000 | 16.004 | 0.000 | 0.000 | 81.685 | 0.725 | 0.000 | 0.000 | 40.834 | 0.362 | 0.000 | 0.000 | 0.047 | 0.00021 |
| 5EP2 | No | Cryo 5 & 6 Flare SSM | 638,958 | 3,565,980 | 32.22185 | 103.52536 | -614.1214 | -903.2203 | 1,092.68 | 114.365 | 1273.000 | 20.000 | 16.002 | 0.000 | 0.000 | 81.670 | 0.725 | 0.000 | 0.000 | 40.882 | 0.363 | 0.000 | 0.000 | 0.095 | 0.00044 |
| 5.5EP1B | No | AGI 2 Flare SSM | 639,542 | 3,565,339 | 32.21600 | 103.51926 | -613.5949 | -903.9111 | 1,090.58 | 61.320 | 1273.000 | 20.000 | 4.840 | 0.000 | 0.000 | 2.132 | 16.018 | 0.000 | 0.000 | 1.421 | 10.679 | 0.000 | 0.000 | 0.022 | 2.31E-04 |
| EP9 | No | Sour Slop Tank Control Flare | 639,595 | 3,565,278 | 32.21544 | 103.51870 | -613.5468 | -903.9771 | 1,090.20 | 6.730 | 1273.000 | 20.000 | 0.078 | 0.000 | 0.000 | 0.096 | 0.201 | 0.000 | 0.000 | 0.096 | 0.201 | 0.000 | 0.000 | 0.001 | 0.201 |
| EP13 | No | Sour Water Tanks Flare | 639,628 | 3,565,443 | 32.21692 | 103.51833 | -613.5002 | -903.8152 | 1,088.96 | 7.949 | 1273.000 | 20.000 | 0.078 | 0.000 | 0.000 | 0.401 | 0.228 | 0.000 | 0.000 | 0.401 | 0.228 | 0.000 | 0.000 | 0.001 | 0.228 |
| EP79 | No | Condensate Tank Flare | 639,513 | 3,564,914 | 32.21217 | 103.51963 | -613.6603 | -904.3340 | 1,090.35 | 9.675 | 1273.000 | 20.000 | 0.112 | 0.000 | 0.000 | 0.974 | 8.30E-06 | 0.000 | 0.000 | 0.974 | 8.30E-06 | 0.000 | 0.000 | 0.009 | 8.30E-06 |
| EP5 | No | Thermal Oxidizer | 639,010 | 3,565,298 | 32.21569 | 103.52491 | -614.1283 | -903.9074 | 1,093.20 | 18.821 | 1088.710 | 1.377 | 3.048 | 0.084 | 0.084 | 0.215 | 2.439 | 0.084 | 0.084 | 0.215 | 2.439 | 0.084 | 0.084 | 0.179 | 2.439 |
| EP8 | No | Thermal Oxidizer | 638,713 | 3,565,923 | 32.22137 | 103.52797 | -614.3704 | -903.2559 | 1,093.43 | 20.726 | 1088.710 | 1.648 | 3.048 | 0.075 | 0.075 | 0.157 | 1.773 | 0.075 | 0.075 | 0.157 | 1.773 | 0.075 | 0.075 | 0.157 | 1.773 |
| EP10 | No | Thermal Oxidizer | 638,602 | 3,565,931 | 32.22145 | 103.52914 | -614.4797 | -903.2391 | 1,094.55 | 23.165 | 1255.372 | 117.565 | 3.048 | 0.070 | 0.070 | 0.156 | 1.783 | 0.070 | 0.070 | 0.156 | 1.783 | 0.070 | 0.070 | 0.156 | 1.783 |
| REC6 | No | Pig Receiver | 638,497 | 3,565,657 | 32.21899 | 103.53030 | -614.6083 | -903.5045 | 1,095.25 | 1.829 | 0.000 | 0.299 | 0.330 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# CALPUFF Inputs Summary - Updated 5/15/2025

| SN | Capped? | Description | UTM-E (m) | UTM-N (m) | LAT | LONG | LCC X km | LCC Y km | Elevation (m) | Stack Height (m) | Exit Temp (K) | Exit Velocity (m/s) | Diameter (m) | Scenario 2 – Short Term Emission Rate: Total PM10 (g/s) | Total PM2.5 (g/s) | NOx (g/s) | SO2 (g/s) | Daily Emission Rate: Total PM10 (g/s) | Total PM2.5 (g/s) | NOx (g/s) | SO2 (g/s) | Annual Emission Rate: Total PM10 (g/s) | Total PM2.5 (g/s) | NOx (g/s) | SO2 (g/s) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1EP1 | Yes | Hot Oil Heater | 639,181 | 3,565,054 | 32.21347 | 103.52313 | -613.9757 | -904.1628 | 1092.76 | 15.24 | 602.039 | 6.970841674 | 1.271016 | 0.0236 | 0.0236 | 0.0950 | 0.0037 | 0.0236 | 0.0236 | 0.0950 | 0.0037 | 0.0236 | 0.0236 | 0.0950 | 0.0037 |
| 1.5EP1G | Yes | 10k Stabilizer Heater | 639,160 | 3,565,063 | 32.21355 | 103.52335 | -613.9937 | -904.1504 | 1092.94 | 5.193792 | 602.039 | 7.067 | 0.914 | 0.0124 | 0.0124 | 0.0498 | 0.0019 | 0.0124 | 0.0124 | 0.0498 | 0.0019 | 0.0124 | 0.0124 | 0.0498 | 0.0019 |
| 4EP1G | Yes | 10 k Stabilizer Heater | 638,738 | 3,565,708 | 32.21942 | 103.52773 | -614.3608 | -903.4765 | 1093.81 | 5.6388 | 652.594 | 10.171 | 0.610 | 0.0073 | 0.0073 | 0.1111 | 0.0011 | 0.0073 | 0.0073 | 0.1111 | 0.0011 | 0.0073 | 0.0073 | 0.1111 | 0.0011 |
| 2EP1A | Yes | Mol Sieve Heater | 639,109 | 3,565,471 | 32.21724 | 103.52383 | -614.0119 | -903.7472 | 1093.58 | 5.0292 | 560.928 | 7.590 | 0.559 | 0.0085 | 0.0085 | 0.1186 | 0.0008 | 0.0085 | 0.0085 | 0.1186 | 0.0008 | 0.0085 | 0.0085 | 0.1186 | 0.0008 |
| 2EP1B | Yes | Cryo HMO Heater | 639,108 | 3,565,468 | 32.21721 | 103.52384 | -614.0157 | -903.7469 | 1093.59 | 7.0104 | 422.039 | 3.157 | 1.168 | 0.0205 | 0.0205 | 0.0519 | 0.0020 | 0.0205 | 0.0205 | 0.0519 | 0.0020 | 0.0205 | 0.0205 | 0.0519 | 0.0020 |
| 2EP1E | Yes | Gylcol Reboiler | 638,985 | 3,565,317 | 32.21587 | 103.52517 | -614.1513 | -903.8856 | 1093.32 | 8.1026 | 602.039 | 2.781 | 0.610 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 |
| 2EP1H | Yes | Amine Reboiler | 639,024 | 3,565,335 | 32.21602 | 103.52475 | -614.1106 | -903.8718 | 1093.36 | 8.382 | 477.594 | 13.854 | 1.067 | 0.0416 | 0.0416 | 0.1676 | 0.0065 | 0.0416 | 0.0416 | 0.1676 | 0.0065 | 0.0416 | 0.0416 | 0.1676 | 0.0065 |
| 2AEP1D | Yes | Amine Reboiler | 639,025 | 3,565,316 | 32.21585 | 103.52474 | -614.1110 | -903.8908 | 1093.29 | 8.382 | 477.594 | 13.854 | 1.067 | 0.0416 | 0.0416 | 0.1676 | 0.0065 | 0.0416 | 0.0416 | 0.1676 | 0.0065 | 0.0416 | 0.0416 | 0.1676 | 0.0065 |
| 2.5EP1D | Yes | Amine Reboiler | 639,537 | 3,565,192 | 32.21467 | 103.51933 | -613.6121 | -904.0584 | 1090.66 | 7.1882 | 568.150 | 12.831 | 0.813 | 0.0188 | 0.0188 | 0.0803 | 0.0029 | 0.0188 | 0.0188 | 0.0803 | 0.0029 | 0.0188 | 0.0188 | 0.0803 | 0.0029 |
| 3EP1A | Yes | Mol Sieve Heater | 638,877 | 3,565,321 | 32.21592 | 103.52631 | -614.2580 | -903.8724 | 1093.23 | 6.858 | 523.706 | 12.904 | 0.405 | 0.0051 | 0.0051 | 0.0614 | 0.0008 | 0.0051 | 0.0051 | 0.0614 | 0.0008 | 0.0051 | 0.0051 | 0.0614 | 0.0008 |
| 3EP1B | Yes | Cryo HMO Heater | 638,886 | 3,565,318 | 32.21589 | 103.52622 | -614.2498 | -903.8763 | 1093.25 | 8.0772 | 523.706 | 10.192 | 0.710 | 0.0124 | 0.0124 | 0.0573 | 0.0019 | 0.0124 | 0.0124 | 0.0573 | 0.0019 | 0.0124 | 0.0124 | 0.0573 | 0.0019 |
| 3EP1E | Yes | Glycol Reboiler | 638,983 | 3,565,333 | 32.21601 | 103.52519 | -614.1520 | -903.8700 | 1093.31 | 9.906 | 602.039 | 22.701 | 0.213 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 |
| 4EP1A | Yes | Mol Sieve Heater | 638,797 | 3,565,896 | 32.22111 | 103.52708 | -614.2889 | -903.2908 | 1092.53 | 7.0104 | 523.706 | 12.904 | 0.405 | 0.0051 | 0.0051 | 0.0614 | 0.0008 | 0.0051 | 0.0051 | 0.0614 | 0.0008 | 0.0051 | 0.0051 | 0.0614 | 0.0008 |
| 4EP1B | Yes | Cryo HMO Heater | 638,789 | 3,565,898 | 32.22113 | 103.52716 | -614.2962 | -903.2880 | 1092.61 | 8.2296 | 523.706 | 10.192 | 0.710 | 0.0124 | 0.0124 | 0.0573 | 0.0019 | 0.0124 | 0.0124 | 0.0573 | 0.0019 | 0.0124 | 0.0124 | 0.0573 | 0.0019 |
| 4EP1D | Yes | Amine Reboiler | 638,693 | 3,565,901 | 32.22117 | 103.52818 | -614.3917 | -903.2767 | 1093.68 | 13.1826 | 533.150 | 35.696 | 0.710 | 0.0425 | 0.0425 | 0.1937 | 0.0066 | 0.0425 | 0.0425 | 0.1937 | 0.0066 | 0.0425 | 0.0425 | 0.1937 | 0.0066 |
| 4EP1E | Yes | Glycol Reboiler | 638,738 | 3,565,903 | 32.22118 | 103.52770 | -614.3466 | -903.2788 | 1093 | 8.1534 | 533.150 | 1.814 | 0.710 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 |
| 4EP1H | Yes | Amine Reboiler | 638,694 | 3,565,881 | 32.22099 | 103.52817 | -614.3922 | -903.2968 | 1093.67 | 13.1826 | 533.150 | 35.696 | 0.710 | 0.0425 | 0.0425 | 0.1937 | 0.0066 | 0.0425 | 0.0425 | 0.1937 | 0.0066 | 0.0425 | 0.0425 | 0.1937 | 0.0066 |
| 5EP1A | Yes | Train 5 - Amine/Glycol Reboiler 1 | 638,586 | 3,565,901 | 32.22118 | 103.52932 | -614.4988 | -903.2679 | 1094.68 | 13.7922 | 533.706 | 14.212 | 1.219 | 0.0499 | 0.0499 | 0.2268 | 0.0078 | 0.0499 | 0.0499 | 0.2268 | 0.0078 | 0.0499 | 0.0499 | 0.2268 | 0.0078 |
| 5EP1B | Yes | Train 5 - Amine/Glycol Reboiler 2 | 638,587 | 3,565,881 | 32.22100 | 103.52931 | -614.4993 | -903.2879 | 1094.74 | 13.7922 | 533.706 | 14.212 | 1.219 | 0.0499 | 0.0499 | 0.2268 | 0.0078 | 0.0499 | 0.0499 | 0.2268 | 0.0078 | 0.0499 | 0.0499 | 0.2268 | 0.0078 |
| 5EP1C | Yes | Cryo Train 5 - Mol Sieve Heater | 638,925 | 3,565,919 | 32.22130 | 103.52572 | -614.1596 | -903.2789 | 1091.89 | 6.9342 | 523.706 | 4.149 | 0.710 | 0.0050 | 0.0050 | 0.0606 | 0.0008 | 0.0050 | 0.0050 | 0.0606 | 0.0008 | 0.0050 | 0.0050 | 0.0606 | 0.0008 |
| 5EP1D | Yes | Cryo Train 5 - HMO Heater | 638,915 | 3,565,920 | 32.22131 | 103.52582 | -614.1689 | -903.2771 | 1092.07 | 9.144 | 523.706 | 5.270 | 1.219 | 0.0188 | 0.0188 | 0.0873 | 0.0029 | 0.0188 | 0.0188 | 0.0873 | 0.0029 | 0.0188 | 0.0188 | 0.0873 | 0.0029 |
| 6EP1C | Yes | Cryo Train 6 - Mole Sieve Heater | 638,907 | 3,565,921 | 32.22132 | 103.52591 | -614.1773 | -903.2754 | 1092.15 | 8.5852 | 560.928 | 13.601 | 0.406 | 0.0050 | 0.0050 | 0.0608 | 0.0008 | 0.0050 | 0.0050 | 0.0608 | 0.0008 | 0.0050 | 0.0050 | 0.0608 | 0.0008 |
| 6EP1D | Yes | Cryo Train 6 - HMO Heater | 638,895 | 3,565,918 | 32.22130 | 103.52604 | -614.1896 | -903.2767 | 1092.2 | 11.2014 | 523.706 | 11.809 | 0.813 | 0.0188 | 0.0188 | 0.0870 | 0.0029 | 0.0188 | 0.0188 | 0.0870 | 0.0029 | 0.0188 | 0.0188 | 0.0870 | 0.0029 |
| 6EP1A | Yes | Train 6 - Amine/Glycol Reboiler 1 | 638,584 | 3,565,932 | 32.22146 | 103.52933 | -614.4975 | -903.2367 | 1094.69 | 13.92936 | 510.928 | 13.605 | 1.219 | 0.0499 | 0.0499 | 0.2369 | 0.0078 | 0.0499 | 0.0499 | 0.2369 | 0.0078 | 0.0499 | 0.0499 | 0.2369 | 0.0078 |
| 5.5EP1A | Yes | AGI 2 HMO Heater | 639,562 | 3,565,404 | 32.21658 | 103.51904 | -613.5696 | -903.8482 | 1089.73 | 13.716 | 510.928 | 39.786 | 0.710 | 0.0495 | 0.0495 | 0.2350 | 0.0077 | 0.0495 | 0.0495 | 0.2350 | 0.0077 | 0.0495 | 0.0495 | 0.2350 | 0.0077 |
| 1EP2 | No | Flare (SSM) | 639,217 | 3,565,202 | 32.21480 | 103.52272 | -613.9296 | -904.0210 | 1093.050 | 51.270 | 1273.000 | 20.000 | 9.145 | 0.000 | 0.000 | 26.671 | 0.322 | 0.000 | 0.000 | 13.371 | 0.170 | 0.000 | 0.000 | 0.071 | 0.019 |
| 2EP2A | No | Emergency Flare A (Inlet) | 639,187 | 3,565,436 | 32.21691 | 103.52301 | -613.9400 | -903.7847 | 1093.600 | 80.706 | 1273.000 | 20.000 | 14.918 | 0.000 | 0.000 | 70.981 | 0.630 | 0.000 | 0.000 | 35.514 | 0.315 | 0.000 | 0.000 | 0.047 | 2.13E-04 |
| 2.5EP5 | No | Emergency AGI Flare | 639,512 | 3,565,274 | 32.21541 | 103.51958 | -613.6297 | -903.9745 | 1090.620 | 64.709 | 1273.000 | 20.000 | 5.484 | 0.000 | 0.000 | 2.338 | 32.705 | 0.000 | 0.000 | 1.559 | 21.803 | 0.000 | 0.000 | 0.009 | 1.29E-04 |
| 3EP2A | No | Flare (SSM) | 638,844 | 3,565,244 | 32.21523 | 103.52668 | -614.2983 | -903.9465 | 1093.950 | 80.706 | 1273.000 | 20.000 | 14.918 | 0.000 | 0.000 | 70.981 | 0.630 | 0.000 | 0.000 | 35.514 | 0.315 | 0.000 | 0.000 | 0.047 | 2.13E-04 |
| 4EP2A | No | Flare (SSM) | 638,832 | 3,565,976 | 32.22183 | 103.52670 | -614.2474 | -903.2134 | 1092.680 | 84.194 | 1273.000 | 20.000 | 16.004 | 0.000 | 0.000 | 81.685 | 0.725 | 0.000 | 0.000 | 40.834 | 0.362 | 0.000 | 0.000 | 0.047 | 2.13E-04 |
| 5EP2 | No | Cryo 5 & 6 Flare SSM | 638,958 | 3,565,980 | 32.22185 | 103.52536 | -614.1214 | -903.2203 | 1092.680 | 114.365 | 1273.000 | 20.000 | 16.002 | 0.000 | 0.000 | 81.670 | 0.725 | 0.000 | 0.000 | 40.882 | 0.363 | 0.000 | 0.000 | 0.095 | 4.35E-04 |
| 5.5EP1B | No | AGI 2 Flare SSM | 639,542 | 3,565,339 | 32.21600 | 103.51926 | -613.5949 | -903.9111 | 1090.580 | 45.707 | 1273.000 | 20.000 | 0.382 | 0.000 | 0.000 | 0.022 | 2.31E-04 | 0.000 | 0.000 | 0.014 | 1.54E-04 | 0.000 | 0.000 | 0.022 | 2.31E-04 |
| EP9 | No | Sour Slop Tank Control Flare | 639,595 | 3,565,278 | 32.21544 | 103.51870 | -613.5468 | -903.9771 | 1090.200 | 6.730 | 1273.000 | 20.000 | 0.078 | 0.000 | 0.000 | 0.096 | 0.201 | 0.000 | 0.000 | 0.096 | 0.201 | 0.000 | 0.000 | 0.001 | 0.201 |
| EP13 | No | Sour Water Tanks Flare | 639,628 | 3,565,443 | 32.21692 | 103.51833 | -613.5002 | -903.8152 | 1088.960 | 7.949 | 1273.000 | 20.000 | 0.078 | 0.000 | 0.000 | 0.401 | 0.228 | 0.000 | 0.000 | 0.401 | 0.228 | 0.000 | 0.000 | 0.001 | 0.228 |
| EP79 | No | Condensate Tank Flare | 639,513 | 3,564,914 | 32.21217 | 103.51963 | -613.6603 | -904.3340 | 1090.350 | 9.675 | 1273.000 | 20.000 | 0.112 | 0.000 | 0.000 | 0.974 | 8.30E-06 | 0.000 | 0.000 | 0.974 | 8.30E-06 | 0.000 | 0.000 | 0.009 | 8.30E-06 |
| EP5 | No | Thermal Oxidizer | 639,010 | 3,565,298 | 32.21569 | 103.52491 | -614.1283 | -903.9074 | 1093.200 | 18.821 | 1088.710 | 1.377 | 3.048 | 0.084 | 0.084 | 0.215 | 2.439 | 0.084 | 0.084 | 0.215 | 2.439 | 0.084 | 0.084 | 0.179 | 2.439 |
| EP8 | No | Thermal Oxidizer | 638,713 | 3,565,923 | 32.22137 | 103.52797 | -614.3704 | -903.2559 | 1093.430 | 20.726 | 1088.710 | 1.648 | 3.048 | 0.075 | 0.075 | 0.157 | 1.773 | 0.075 | 0.075 | 0.157 | 1.773 | 0.075 | 0.075 | 0.157 | 1.773 |
| EP10 | No | Thermal Oxidizer | 638,602 | 3,565,931 | 32.22145 | 103.52914 | -614.4797 | -903.2391 | 1094.550 | 23.165 | 1255.372 | 117.565 | 3.048 | 0.070 | 0.070 | 0.156 | 1.783 | 0.070 | 0.070 | 0.156 | 1.783 | 0.070 | 0.070 | 0.156 | 1.783 |
| REC6 | No | Pig Receiver | 638,497 | 3,565,657 | 32.21899 | 103.53030 | -614.6083 | -903.5045 | 1095.250 | 1.829 | 0.000 | 0.299 | 0.330 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## CALPUFF Inputs Summary - Updated 5/15/2025

| | | | | | | | | | | | | | | Scenario 3 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Short Term Emission Rate | | | | Daily Emission Rate | | | | Annual Emission Rate | | | |
| SN | Capped? | Description | UTM-E (m) | UTM-N (m) | LAT | LONG | LCC X km | LCC Y km | Elevation (m) | Stack Height (m) | Exit Temp (K) | Exit Velocity (m/s) | Diameter (m) | Total PM10 (g/s) | Total PM2.5 (g/s) | NOx (g/s) | SO2 (g/s) | Total PM10 (g/s) | Total PM2.5 (g/s) | NOx (g/s) | SO2 (g/s) | Total PM10 (g/s) | Total PM2.5 (g/s) | NOx (g/s) | SO2 (g/s) |
| 1EP1 | Yes | Hot Oil Heater | 639,181 | 3,565,054 | 32.21347 | 103.52313 | -613.9757 | -904.1628 | 1092.76 | 15.24 | 602.039 | 6.970841674 | 1.271016 | 0.0236 | 0.0236 | 0.0950 | 0.0037 | 0.0236 | 0.0236 | 0.0950 | 0.0037 | 0.0236 | 0.0236 | 0.0950 | 0.0037 |
| 1.5EP1G | Yes | 10k Stabilizer Heater | 639,160 | 3,565,063 | 32.21355 | 103.52335 | -613.9937 | -904.1504 | 1092.94 | 5.193792 | 602.039 | 7.067 | 0.914 | 0.0124 | 0.0124 | 0.0498 | 0.0019 | 0.0124 | 0.0124 | 0.0498 | 0.0019 | 0.0124 | 0.0124 | 0.0498 | 0.0019 |
| 4EP1G | Yes | 10 k Stabilizer Heater | 638,738 | 3,565,708 | 32.21942 | 103.52773 | -614.3608 | -903.4765 | 1093.81 | 5.6388 | 652.594 | 10.171 | 0.610 | 0.0073 | 0.0073 | 0.1111 | 0.0011 | 0.0073 | 0.0073 | 0.1111 | 0.0011 | 0.0073 | 0.0073 | 0.1111 | 0.0011 |
| 2EP1A | Yes | Mol Sieve Heater | 639,109 | 3,565,471 | 32.21724 | 103.52383 | -614.0119 | -903.7472 | 1093.58 | 5.0292 | 560.928 | 7.590 | 0.559 | 0.0085 | 0.0085 | 0.1186 | 0.0008 | 0.0085 | 0.0085 | 0.1186 | 0.0008 | 0.0085 | 0.0085 | 0.1186 | 0.0008 |
| 2EP1B | Yes | Cryo HMO Heater | 639,108 | 3,565,468 | 32.21721 | 103.52384 | -614.0157 | -903.7469 | 1093.59 | 7.0104 | 422.039 | 3.157 | 1.168 | 0.0205 | 0.0205 | 0.0519 | 0.0020 | 0.0205 | 0.0205 | 0.0519 | 0.0020 | 0.0205 | 0.0205 | 0.0519 | 0.0020 |
| 2EP1E | Yes | Gylcol Reboiler | 638,985 | 3,565,317 | 32.21587 | 103.52517 | -614.1513 | -903.8856 | 1093.32 | 8.1026 | 602.039 | 2.781 | 0.610 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 |
| 2EP1H | Yes | Amine Reboiler | 639,024 | 3,565,335 | 32.21602 | 103.52475 | -614.1106 | -903.8718 | 1093.36 | 8.382 | 477.594 | 13.854 | 1.067 | 0.0416 | 0.0416 | 0.1676 | 0.0065 | 0.0416 | 0.0416 | 0.1676 | 0.0065 | 0.0416 | 0.0416 | 0.1676 | 0.0065 |
| 2AEP1D | Yes | Amine Reboiler | 639,025 | 3,565,316 | 32.21585 | 103.52474 | -614.1110 | -903.8908 | 1093.29 | 8.382 | 477.594 | 13.854 | 1.067 | 0.0416 | 0.0416 | 0.1676 | 0.0065 | 0.0416 | 0.0416 | 0.1676 | 0.0065 | 0.0416 | 0.0416 | 0.1676 | 0.0065 |
| 2.5EP1D | Yes | Amine Reboiler | 639,537 | 3,565,192 | 32.21467 | 103.51933 | -613.6121 | -904.0584 | 1090.66 | 7.1882 | 568.150 | 12.831 | 0.813 | 0.0188 | 0.0188 | 0.0803 | 0.0029 | 0.0188 | 0.0188 | 0.0803 | 0.0029 | 0.0188 | 0.0188 | 0.0803 | 0.0029 |
| 3EP1A | Yes | Mol Sieve Heater | 638,877 | 3,565,321 | 32.21592 | 103.52631 | -614.2580 | -903.8724 | 1093.23 | 6.858 | 523.706 | 12.904 | 0.405 | 0.0051 | 0.0051 | 0.0614 | 0.0008 | 0.0051 | 0.0051 | 0.0614 | 0.0008 | 0.0051 | 0.0051 | 0.0614 | 0.0008 |
| 3EP1B | Yes | Cryo HMO Heater | 638,886 | 3,565,318 | 32.21589 | 103.52622 | -614.2498 | -903.8763 | 1093.25 | 8.0772 | 523.706 | 10.192 | 0.710 | 0.0124 | 0.0124 | 0.0573 | 0.0019 | 0.0124 | 0.0124 | 0.0573 | 0.0019 | 0.0124 | 0.0124 | 0.0573 | 0.0019 |
| 3EP1E | Yes | Glycol Reboiler | 638,983 | 3,565,333 | 32.21601 | 103.52519 | -614.1520 | -903.8700 | 1093.31 | 9.906 | 602.039 | 22.701 | 0.213 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 |
| 4EP1A | Yes | Mol Sieve Heater | 638,797 | 3,565,896 | 32.22111 | 103.52708 | -614.2889 | -903.2908 | 1092.53 | 7.0104 | 523.706 | 12.904 | 0.405 | 0.0051 | 0.0051 | 0.0614 | 0.0008 | 0.0051 | 0.0051 | 0.0614 | 0.0008 | 0.0051 | 0.0051 | 0.0614 | 0.0008 |
| 4EP1B | Yes | Cryo HMO Heater | 638,789 | 3,565,898 | 32.22113 | 103.52716 | -614.2962 | -903.2880 | 1092.61 | 8.2296 | 523.706 | 10.192 | 0.710 | 0.0124 | 0.0124 | 0.0573 | 0.0019 | 0.0124 | 0.0124 | 0.0573 | 0.0019 | 0.0124 | 0.0124 | 0.0573 | 0.0019 |
| 4EP1D | Yes | Amine Reboiler | 638,693 | 3,565,901 | 32.22117 | 103.52818 | -614.3917 | -903.2767 | 1093.68 | 13.1826 | 533.150 | 35.696 | 0.710 | 0.0425 | 0.0425 | 0.1937 | 0.0066 | 0.0425 | 0.0425 | 0.1937 | 0.0066 | 0.0425 | 0.0425 | 0.1937 | 0.0066 |
| 4EP1E | Yes | Glycol Reboiler | 638,738 | 3,565,903 | 32.22118 | 103.52770 | -614.3466 | -903.2788 | 1093 | 8.1534 | 533.150 | 1.814 | 0.710 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 | 0.0022 | 0.0022 | 0.0482 | 0.0003 |
| 4EP1H | Yes | Amine Reboiler | 638,694 | 3,565,881 | 32.22099 | 103.52817 | -614.3922 | -903.2968 | 1093.67 | 13.1826 | 533.150 | 35.696 | 0.710 | 0.0425 | 0.0425 | 0.1937 | 0.0066 | 0.0425 | 0.0425 | 0.1937 | 0.0066 | 0.0425 | 0.0425 | 0.1937 | 0.0066 |
| 5EP1A | Yes | Train 5 - Amine/Glycol Reboiler 1 | 638,586 | 3,565,901 | 32.22118 | 103.52932 | -614.4988 | -903.2679 | 1094.68 | 13.7922 | 533.706 | 14.212 | 1.219 | 0.0499 | 0.0499 | 0.2268 | 0.0078 | 0.0499 | 0.0499 | 0.2268 | 0.0078 | 0.0499 | 0.0499 | 0.2268 | 0.0078 |
| 5EP1B | Yes | Train 5 - Amine/Glycol Reboiler 2 | 638,587 | 3,565,881 | 32.22100 | 103.52931 | -614.4993 | -903.2879 | 1094.74 | 13.7922 | 533.706 | 14.212 | 1.219 | 0.0499 | 0.0499 | 0.2268 | 0.0078 | 0.0499 | 0.0499 | 0.2268 | 0.0078 | 0.0499 | 0.0499 | 0.2268 | 0.0078 |
| 5EP1C | Yes | Cryo Train 5 - Mol Sieve Heater | 638,925 | 3,565,919 | 32.22130 | 103.52572 | -614.1596 | -903.2789 | 1091.89 | 6.9342 | 523.706 | 4.149 | 0.710 | 0.0050 | 0.0050 | 0.0606 | 0.0008 | 0.0050 | 0.0050 | 0.0606 | 0.0008 | 0.0050 | 0.0050 | 0.0606 | 0.0008 |
| 5EP1D | Yes | Cryo Train 5 - HMO Heater | 638,915 | 3,565,920 | 32.22131 | 103.52582 | -614.1689 | -903.2771 | 1092.07 | 9.144 | 523.706 | 5.270 | 1.219 | 0.0188 | 0.0188 | 0.0873 | 0.0029 | 0.0188 | 0.0188 | 0.0873 | 0.0029 | 0.0188 | 0.0188 | 0.0873 | 0.0029 |
| 6EP1C | Yes | Cryo Train 6 - Mole Sieve Heater | 638,907 | 3,565,921 | 32.22132 | 103.52591 | -614.1773 | -903.2754 | 1092.15 | 8.5852 | 560.928 | 13.601 | 0.406 | 0.0050 | 0.0050 | 0.0608 | 0.0008 | 0.0050 | 0.0050 | 0.0608 | 0.0008 | 0.0050 | 0.0050 | 0.0608 | 0.0008 |
| 6EP1D | Yes | Cryo Train 6 - HMO Heater | 638,895 | 3,565,918 | 32.22130 | 103.52604 | -614.1896 | -903.2767 | 1092.2 | 11.2014 | 523.706 | 11.809 | 0.813 | 0.0188 | 0.0188 | 0.0870 | 0.0029 | 0.0188 | 0.0188 | 0.0870 | 0.0029 | 0.0188 | 0.0188 | 0.0870 | 0.0029 |
| 6EP1A | Yes | Train 6 - Amine/Glycol Reboiler 1 | 638,584 | 3,565,932 | 32.22146 | 103.52933 | -614.4975 | -903.2367 | 1094.69 | 13.92936 | 510.928 | 13.605 | 1.219 | 0.0499 | 0.0499 | 0.2369 | 0.0078 | 0.0499 | 0.0499 | 0.2369 | 0.0078 | 0.0499 | 0.0499 | 0.2369 | 0.0078 |
| 5.5EP1A | Yes | AGI 2 HMO Heater | 639,562 | 3,565,404 | 32.21658 | 103.51904 | -613.5696 | -903.8482 | 1089.73 | 13.716 | 510.928 | 39.786 | 0.710 | 0.0495 | 0.0495 | 0.2350 | 0.0077 | 0.0495 | 0.0495 | 0.2350 | 0.0077 | 0.0495 | 0.0495 | 0.2350 | 0.0077 |
| 1EP2 | No | Flare (SSM) | 639,217 | 3,565,202 | 32.21480 | 103.52272 | -613.9296 | -904.0210 | 1093.050 | 51.270 | 1273.000 | 20.000 | 9.145 | 0.000 | 0.000 | 26.671 | 0.322 | 0.000 | 0.000 | 13.371 | 0.170 | 0.000 | 0.000 | 0.071 | 0.019 |
| 2EP2A | No | Emergency Flare A (Inlet) | 639,187 | 3,565,436 | 32.21691 | 103.52301 | -613.9400 | -903.7847 | 1093.600 | 80.706 | 1273.000 | 20.000 | 14.918 | 0.000 | 0.000 | 70.981 | 0.630 | 0.000 | 0.000 | 35.514 | 0.315 | 0.000 | 0.000 | 0.047 | 0.000 |
| 2.5EP5 | No | Emergency AGI Flare | 639,512 | 3,565,274 | 32.21541 | 103.51958 | -613.6297 | -903.9745 | 1090.620 | 46.408 | 1273.000 | 20.000 | 0.246 | 0.000 | 0.000 | 0.009 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| 3EP2A | No | Flare (SSM) | 638,844 | 3,565,244 | 32.21523 | 103.52668 | -614.2983 | -903.9465 | 1093.950 | 80.706 | 1273.000 | 20.000 | 14.918 | 0.000 | 0.000 | 70.981 | 0.630 | 0.000 | 0.000 | 35.514 | 0.315 | 0.000 | 0.000 | 0.047 | 0.000 |
| 4EP2A | No | Flare (SSM) | 638,832 | 3,565,976 | 32.22183 | 103.52670 | -614.2474 | -903.2134 | 1092.680 | 84.194 | 1273.000 | 20.000 | 16.004 | 0.000 | 0.000 | 81.685 | 0.725 | 0.000 | 0.000 | 40.834 | 0.362 | 0.000 | 0.000 | 0.047 | 0.000 |
| 5EP2 | No | Cryo 5 & 6 Flare SSM | 638,958 | 3,565,980 | 32.22185 | 103.52536 | -614.1214 | -903.2203 | 1092.680 | 114.365 | 1273.000 | 20.000 | 16.002 | 0.000 | 0.000 | 81.670 | 0.725 | 0.000 | 0.000 | 40.882 | 0.363 | 0.000 | 0.000 | 0.095 | 0.000 |
| 5.5EP1B | No | AGI 2 Flare SSM | 639,542 | 3,565,339 | 32.21600 | 103.51926 | -613.5949 | -903.9111 | 1090.580 | 64.146 | 1273.000 | 20.000 | 5.679 | 0.000 | 0.000 | 6.802 | 32.528 | 0.000 | 0.000 | 5.102 | 24.396 | 0.000 | 0.000 | 0.022 | 0.000 |
| EP9 | No | Sour Slop Tank Control Flare | 639,595 | 3,565,278 | 32.21544 | 103.51870 | -613.5468 | -903.9771 | 1090.200 | 6.730 | 1273.000 | 20.000 | 0.078 | 0.000 | 0.000 | 0.096 | 0.201 | 0.000 | 0.000 | 0.096 | 0.201 | 0.000 | 0.000 | 0.001 | 0.201 |
| EP13 | No | Sour Water Tanks Flare | 639,628 | 3,565,443 | 32.21692 | 103.51833 | -613.5002 | -903.8152 | 1088.960 | 7.949 | 1273.000 | 20.000 | 0.078 | 0.000 | 0.000 | 0.401 | 0.228 | 0.000 | 0.000 | 0.401 | 0.228 | 0.000 | 0.000 | 0.001 | 0.228 |
| EP79 | No | Condensate Tank Flare | 639,513 | 3,564,914 | 32.21217 | 103.51963 | -613.6603 | -904.3340 | 1090.350 | 9.675 | 1273.000 | 20.000 | 0.112 | 0.000 | 0.000 | 0.974 | 0.000 | 0.000 | 0.000 | 0.974 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| EP5 | No | Thermal Oxidizer | 639,010 | 3,565,298 | 32.21569 | 103.52491 | -614.1283 | -903.9074 | 1093.200 | 18.821 | 1088.710 | 1.377 | 3.048 | 0.084 | 0.084 | 0.215 | 2.439 | 0.084 | 0.084 | 0.215 | 2.439 | 0.084 | 0.084 | 0.179 | 2.439 |
| EP8 | No | Thermal Oxidizer | 638,713 | 3,565,923 | 32.22137 | 103.52797 | -614.3704 | -903.2559 | 1093.430 | 20.726 | 1088.710 | 1.648 | 3.048 | 0.075 | 0.075 | 0.157 | 1.773 | 0.075 | 0.075 | 0.157 | 1.773 | 0.075 | 0.075 | 0.157 | 1.773 |
| EP10 | No | Thermal Oxidizer | 638,602 | 3,565,931 | 32.22145 | 103.52914 | -614.4797 | -903.2391 | 1094.550 | 23.165 | 1255.372 | 117.565 | 3.048 | 0.070 | 0.070 | 0.156 | 1.783 | 0.070 | 0.070 | 0.156 | 1.783 | 0.070 | 0.070 | 0.156 | 1.783 |
| REC6 | No | Pig Receiver | 638,497 | 3,565,657 | 32.21899 | 103.53030 | -614.6083 | -903.5045 | 1095.250 | 1.829 | 0.000 | 0.299 | 0.330 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

# BEST AVAILABLE CONTROL TECHNOLOGY REVIEW

## Targa Northern Delaware, LLC
## Red Hills Gas Processing Plant




**Prepared By:**

Targa Northern Delaware, LLC
811 Louisiana Street
Suite 2100
Houston, TX 77002-1400
(713) 584-1000

**TRINITY CONSULTANTS**
1999 Broadway
Suite 820
Denver, CO 80202

March 2026

Project 233201.0054 & 250601.0072

Trinity Consultants

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# 1. BACT DEFINITION

This report discusses the regulatory basis and approach used in completing the Best Available Control Technology (BACT) analysis for pollutants triggering this requirement for the Targa Northern Delaware, LLC (Targa) Red Hills Gas Processing Plant (Red Hills). In addition, this report also documents the emission units for which the BACT analyses were performed.

The requirement to conduct a BACT analysis is set forth in the PSD regulations in 40 CFR §52.21(j)(2):

> *(j) Control Technology Review.*
>
> *(2) A new major stationary source shall apply best available control technology for each regulated NSR pollutant that it would have the potential to emit in significant amounts.*

BACT is defined in the PSD regulations 40 CFR §52.21(b)(12)(emphasis added) in relevant part as:

> *…an emissions limitation (including a visible emission standard) based on the maximum degree of reduction for each pollutant subject to regulation under Act which would be emitted from any proposed major stationary source or major modification which the Administrator, on a case-by-case basis taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such a source or modification through application of production processes or available methods, systems, and techniques, including fuel cleaning or treatment or innovative fuel combustion techniques for control of such pollutant. In no event shall application of best available control technology result in emissions of any pollutant which would exceed the emissions allowed by any applicable standard under 40 CFR parts 60 and 61.*

Although this definition was not changed by the Tailoring Rule, differences in the characteristics of criteria pollutants and GHG emissions from large industrial sources present several GHG-specific considerations under the BACT definition, which warrants further discussion. Those underlined terms in the BACT definition are addressed further below.

## 1.1 Emission Limitation

BACT is "an emission limitation," not an emission reduction rate or a specific technology. While BACT is prefaced upon the application of technologies reflecting the maximum reduction rate achievable, the final result of BACT is an emission limit. Typically, when quantifiable and measurable[1], this limit would be expressed as an emission rate limit of a pollutant (e.g., lb/MMBtu, ppm, or lb/hr).[2] Furthermore, EPA's guidance on GHG BACT has indicated that GHG BACT limitations should be averaged over long-term timeframes such as a 30- or 365-day rolling average.[3]

[1] The definition of BACT allows use of a work practice where emissions are not easiily measured or enforceable. 40 CFR §52.21(b)(12).

[2] Emission limits can be broadly differentiated as "rate-based' or "mass-based." For a turbine, a rate-basedlimit would typically be in units of lb/MMBtu (mass emissions per heat input. In contrast, a typical mass-based limit would be in units of lb/hr (mass emissions per time).

[3] PSD and Title V Permitting Guidance for Greenhouse Gases. March 2011, page 46.

## 1.2 Each Pollutant

Since BACT applies to "each pollutant subject to regulation under the Act," the BACT evaluation process is typically conducted for each regulated NSR pollutant individually and not for a combination of pollutants.[4] For PSD applicability assessments involving GHGs, the regulated NSR pollutant subject to regulation under the Clean Air Act (CAA) is the sum of six greenhouse gases and not a single pollutant.[5] In the final Tailoring Rule preamble, EPA went beyond applying this combined pollutant approach for GHGs to PSD applicability and made the following recommendations that suggest applicants should conduct a single GHG BACT evaluation on a $CO_2e$ basis for emission sources that emit more than one GHG:

> *However, we disagree with the commenter's ultimate conclusion that BACT will be required for each constituent gas rather than for the regulated pollutant, which is defined as the combination of the six well-mixed GHGs. To the contrary, we believe that, in combination with the sum-of-six gases approach described above, the use of the $CO_2e$ metric will enable the implementation of flexible approaches to design and implement mitigation and control strategies that look across all six of the constituent gases comprising the air pollutant (e.g., flexibility to account for the benefits of certain $CH_4$ control options, even though those options may increase $CO_2$). Moreover, we believe that the $CO_2e$ metric is the best way to achieve this goal because it allows for tradeoffs among the constituent gases to be evaluated using a common currency.*[6]

For this project, the GHG emissions are driven primarily by $CO_2$. $CO_2$ emissions represent more than 99% of the total $CO_2e$ for the project as a whole. As such, the top-down GHG BACT analysis in the relevant sections should and will focus on $CO_2$.

## 1.3 BACT Applies to the Source

BACT applies to the type of source proposed by the applicant. BACT does not redefine the source. The applicant defines the source (i.e., its goals, aims, and objectives). Although BACT is based on the type of source as proposed by the applicant, the scope of the applicant's ability to define the source is not absolute. A key task for the reviewing agency is to determine which parts of the proposed process are inherent to the applicant's purpose and which parts may be changed without changing that purpose. The project is discussed in Form UA3, Section 3 and a process description has been included in Form UA3, Section 10 of this application to guide the technical reviewers in the areas of need and scope of this project and how BACT should be reviewed in light of this detailed information.

## 1.4 Case-By-Case Basis

The PSD program's BACT evaluation is case-by-case. BACT permit limits are not simply the requirement for a control technology because of its application elsewhere or the direct transference of the lowest emission rate found in other permits for similar sources, applied to the proposed source. EPA has explained how the top-down BACT analysis process works on a case-by-case basis. To assist applicants and regulators with the case-by-case process, in 1990 EPA issued a Draft Manual on New Source Review permitting which included a "top-down" BACT analysis.

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[4] 40 CFR §52.21(b)(12).

[5] 40 CFR §52.21(b)(49)(i).

[6] 75 FR 31,531, Prevention of Significant Deterioration and Title V Greenhouse Gas Tailoring Rule; Final Rule, June 3, 2010.

*In brief, the top-down process provides that all available control technologies be ranked in descending order of control effectiveness. The PSD applicant first examines the most stringent--or "top"--alternative. That alternative is established as BACT unless the applicant demonstrates, and the permitting authority in its informed judgment agrees, that technical considerations, or energy, environmental, or economic impacts justify a conclusion that the most stringent technology is not "achievable" in that case. If the most stringent technology is eliminated in this fashion, then the next most stringent alternative is considered, and so on.*[7]

The five steps in a top-down BACT evaluation can be summarized as follows:

- Step 1. Identify all available control technologies;
- Step 2. Eliminate technically infeasible options;
- Step 3. Rank the technically feasible control technologies by control effectiveness;
- Step 4. Evaluate the most effective controls; and
- Step 5. Select BACT.

Additionally, it is important to note that the top-down process is conducted on a unit-by-unit, pollutant-by-pollutant basis and only considers the portions of the facility that are considered "emission units" as defined under the PSD regulations.[8]

## 1.5 Achievable

BACT is to be set at the lowest value that is "achievable." However, there is an important distinction between emission rates achieved at a specific time on a specific unit and an emission limitation that a unit must be able to meet continuously over its operating life. As discussed by the DC Circuit Court of Appeals:

*In National Lime Ass'n v. EPA, 627 F.2d 416, 431 n.46 (D.C. Cir. 1980), we said that where a statute requires that a standard be "achievable," it must be achievable" under most adverse circumstances which can reasonably be expected to recur."*[9]

EPA has reached similar conclusions in prior determinations for PSD permits.

*Agency guidance and our prior decisions recognize a distinction between, on the one hand, measured 'emissions rates,' which are necessarily data obtained from a particular facility at a specific time, and on the other hand, the 'emissions limitation' determined to be BACT and set forth in the permit, which the facility is required to continuously meet throughout the facility's life. Stated simply, if there is uncontrollable fluctuation or variability in the measured emission rate, then the lowest measured emission rate will necessarily be more stringent than the "emissions limitation" that is "achievable" for that pollution control method over the life of the facility. Accordingly, because the "emissions limitation" is applicable for the facility's life, it is wholly appropriate for the permit issuer to consider, as part of the*

[7] Draft NSR Manual at B-2. "The NSR Manual has been used as a guidance document in conjunction with new source review worshops and training, and as a smiple guide for state and federal permitting officials with respect to PSD requirements and policy. Although it is not binding Agency regulation, the NSR Manual has been looked to be this Board as a statement of the Agency's thinking on certain PSD issues. E.g., *In re RockGen Energy Ctr.*, 8 E.A.D. 536, 542 n. 10 (EAB 1999), *In re Knauf Fiber Glass, GmbH*, 8 E.A.D. 121, 129 n. 13 (EAB 1999)." *In re Prairie State Generating Company* 13 E.A.D. 1, 13 n 2 (2006).

[8] Pursuant to 40 CFR §52.21(a)(7), emission unit means any part of a stationary source that emits or would have the potential to emit any regulated NSR pollutant.

[9] As quated in Sierra Club v. U.S. EPA (97-1686).

*BACT analysis, the extent to which the available data demonstrate whether the emissions rate at issue has been achieved by other facilities over a long term.*[10]

Thus, BACT must be set at the lowest feasible emission rate recognizing that the facility must be in compliance with that limit for the lifetime of the facility on a continuous basis. While viewing individual unit performance can be instructive in evaluating what BACT might be, any actual performance data must be viewed carefully, as rarely will the data be adequate to truly assess the performance that a unit will achieve during its entire operating life.

To assist in meeting the BACT limit, the source must consider production processes or available methods, systems, or techniques, as long as those considerations do not redefine the source.

## 1.6 Production Process

The definition of BACT lists both production processes and control technologies as possible means for reducing emissions.

## 1.7 Available

The term "available" is the definition of BACT implemented through a feasibility analysis – a determination that the technology being evaluated is demonstrated or available and applicable.

## 1.8 Floor

For Criteria pollutants, the least stringent emission rate allowable for BACT is any applicable limit under either New Source Performance Standards (NSPS – Part 60) or National Emission Standards for Hazardous Air Pollutants (NESHAP – Parts 61). Since no GHG limits have been incorporated into any existing NSPS or Part 61 NESHAPs, no floor for a GHG BACT analysis is available for consideration.

[10] U.S. EPA Environmental Appeals Board decisison, *In re: Newmont Nevada Energy Investment L.L. C.* PSD Appeal No. 05-04, decided December 21, 2005. Environmental Administrative Decisions, Volume 12, Page 442.

# 2. PROJECT DEFINITION

Targa Northern Delaware, LLC (Targa) owns and operates the Red Hills Gas Processing Plant (Red Hills) in Lea County, NM. The facility is currently authorized to operate under NSR Permit No. 4310-M6 and Title V Operating Permit No. P278-M1. The Red Hills Gas Processing Plant dehydrates and removes $CO_2$, $H_2S$, and natural gas liquids from field gas for transportation via a sales pipeline.

For the purposes of this BACT Review, all permitted equipment at the facility is included, as detailed below:

- Two (2) Hot Oil Heaters (Units RH1-H-23-704 and RA2-H-20001)
- Two (2) Stabilizer Hot Oil Heaters (Units RH1-H-1101 and RH6-H-60001)
- One (1) Liquids In-Line Heater (Unit RH4-H-41100)
- Five (5) Regen Gas Heaters (Units RH2-H-741, RH3-H-741, RH4-H-741, RH5-H-50741, and RH6-H-60741)
- Five (5) Cryo Hot Oil Heaters (Units RH2-H-781, RH3-H-781, RH4-H-781, RH5-H-50781, and RH6-H-60781)
- Five (5) Amine Hot Oil Heaters (Units RH2-H-0901, RH2-H-1001, RHA-H-4901, RH4-H-3901, and RH4-H-4001)
- Two (2) Amine/TEG Hot Oil Heaters (Units RH5-H-50902 and RH5-H-50001)
- Three (3) TEG Reboilers (Units RH2-H-2301, RH3-H-6301, and RH4-H-5301)
- Six (6) Glycol Dehydrators (Units RH1-TEG, RH2-TEG, RH3-TEG, RH4-TEG, RH5-TEG, and RH6-TEG)
- Six (6) Amine Units (Units RH1-AMINE, RH2-AMINE, RHA-AMINE, RH4-AMINE, RH5-AMINE, and RA2-AMINE)
- Eleven (11) Flares (Units RH1-FL-29-1003, RH2-FL-5100, RH3-FL-5100, RH4-FL-45100, RH5-FL-55100, RHA-FL-5100, RA2-FL-25100, RHA-FL-5850, RA2-FL-25850, RH1-FL-2850, and RH4-FL-46200)
- Twelve (12) Condensate Storage Tanks (Units RH1-TK-COND-EAST and RH1-TK-COND-WEST)
- Four (4) Sour Slop Water Storage Tanks (Units RHA-TK-SLOP and RA2-TK-SLOP)
- Seven (7) Slop Water Storage Tanks (Units RH4-TK-SLOP, RH2-TK-SLOP, and RH1-TK-SLOP)
- Three (3) Thermal Oxidizers (Units RH2-TO-5500, RH4-TO-45500, and RH5-TO-55500)
- One (1) Methanol Tank (RH-TK-METHANOL)

# 3. BACT ASSESSMENT METHODOLOGY

BACT for the project has been evaluated via a "top-down" approach which includes the steps outlined in the following subsections.

Additionally, EPA's March 2011 GHG Permitting Guidance generally directed that a BACT review for GHGs should be done in the same manner as it is done for any other regulated pollutant.[11] It should be noted that the scope of a BACT review was clarified in two ways with respect to GHGs:

- EPA stressed that applicants should clearly define the scope of the project being reviewed.[12] Targa has provided this information in Section 2 and the BACT Evaluation section for each source type.
- EPA clarified that the scope of the BACT should focus on the project's largest contributors to $CO_2e$ and that applicants may subject less significant contributors for $CO_2e$ to less stringent BACT review.[13]

## 3.1 Step 1 – Identify All Available Control Technologies

Available control technologies with the practical potential for application to the emission unit and regulated air pollutant in question are identified. Available control options include the application of alternate production processes and control methods, systems, and techniques including fuel cleaning and innovative fuel combustion, when applicable and consistent with the project. The application of demonstrated control technologies in other similar source categories to the emission unit in question must also be considered. While identified technologies may be eliminated in subsequent steps in the analysis based on technical and economic infeasibility or environmental, energy, economic, or other impacts, control technologies with potential application to the emission unit under review are identified in this step.

Under Step 1 of a criteria pollutant BACT analysis, the following resources are typically consulted when identifying potential technologies:

1. EPA's Reasonably Available Control Technology (RACT)/Best Available Control Technology (BACT)/Lowest Achievable Emission Reduction (LAER) Clearinghouse (RBLC) database;
2. Determinations of BACT by regulatory agencies for other similar sources or air permits and permit files from federal or state agencies;
3. Engineering experience with similar control applications;
4. Information provided by air pollution control equipment vendors with significant market share in the industry; and/or
5. Review of literature from industrial technical or trade organizations.

EPA's "top-down" BACT analysis procedure also recommends the consideration of inherently lower-emitting processes as available control options under Step 1.[14]

[11] *PSD and Title V Permitting Guidance for Greenhouse Gases*. March 2011, page 17.

[12] Ibid, pages 22-23.

[13] Ibid, page 31.

[14] Ibid, page 24.

For GHG BACT analyses, low-carbon intensity fuel selection is the primary control option that can be considered a lower-emitting process. Additionally, EPA's GHG BACT guidance suggests that carbon capture and sequestration (CCS) be evaluated as an available control for substantial, large projects such as steel mills, refineries, and cement plants where $CO_2e$ emission levels are in the order of 1,000,000 tpy, or for industrial facilities with high-purity $CO_2$ streams.[15] However, EPA explained that "this does not necessarily mean CCS should be selected as BACT for such sources."

## 3.2 Step 2 – Eliminate Technically Infeasible Options

After the available control technologies have been identified, each technology is evaluated with respect to its technical feasibility in controlling individual pollutant emissions from the source in question. The first question in determining whether a technology is feasible is whether it is demonstrated. Whether or not a control technology is demonstrated is a relatively straightforward determination, although a source may cite specific site-specific differences to eliminate a technology from consideration.

> Demonstrated "means that it has been installed and operated successfully elsewhere on a similar facility." *Prairie State*, slip op. at 45. "This step should be straightforward for control technologies that are demonstrated--if the control technology has been installed and operated successfully on the type of source under review, it is demonstrated, and it is technically feasible."[16]

A technology "not demonstrated" is only technically feasible if it is "available" and "applicable." A control technology or process is only considered available if it has reached the licensing and commercial sales phase of development and is "commercially available".[17] Control technologies in the R&D and pilot scale phases are not considered available. Based on EPA guidance, an available control technology is presumed to be applicable if it has been permitted or implemented by a similar source. Decisions about technical feasibility of a control option consider the physical or chemical properties of the emissions stream in comparison to emissions streams from similar sources successfully implementing the control alternative. The NSR Manual explains the concept of applicability as follows: "An available technology is "applicable" if it can reasonably be installed and operated on the source type under consideration."[18] Applicability of a technology is determined by technical judgment and consideration of the use of the technology on similar sources as described in the NSR Manual.

## 3.3 Step 3 – Rank Remaining Control Technologies by Control Effectiveness

All remaining technically feasible control options are ranked based on their overall control effectiveness for the pollutant under review. For GHGs, this ranking may be based on energy efficiency and/or emission rate. The analysis conducted in step 3 should also document the energy impacts, secondary environmental impacts, and cost-effectiveness of each control option.

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[15] *PSD and Title V Permitting Guidance for Greenhouse Gases*. March 2011, pages 32-33.

[16] NSR Workshop Manual (Draft), Prevention of Significant Deterioriation (PSD) and Nonattainment New Source Review (NNSR) Permitting, page B.17.

[17] Ibid, page B.18.

[18] Ibid, page B.18.

## 3.4 Step 4 – Evaluate Most Effective Controls and Document Results

After identifying and ranking available and technically feasible control technologies, the economic, environmental, and energy impacts are evaluated to select the best control option. If adverse collateral impacts do not disqualify the top-ranked option from consideration it is selected as the basis for the BACT limit. Alternatively, in the judgment of the permitting agency, if unreasonable adverse economic, environmental, or energy impacts are associated with the top control option, the next most stringent option is evaluated. This process continues until a control technology is identified.

The energy, environment, and economic impacts analysis under Step 4 of a GHG BACT assessment presents a unique challenge with respect to the evaluation of $CO_2$ and $CH_4$ emissions. The technologies that are most frequently used to control emissions of $CH_4$ in hydrocarbon-rich streams (e.g., flares, combustors, and thermal oxidizers) convert $CH_4$ emissions to $CO_2$ emissions. Consequently, the reduction of one GHG (i.e., $CH_4$) results in a proportional increase in emissions of another GHG (i.e., $CO_2$). However, since the GWP of $CH_4$ is 25 times higher than $CO_2$, the conversion of $CH_4$ emissions to $CO_2$ results in a net reduction of $CO_2e$ emissions.

Permitting authorities have historically considered the effects of multiple pollutants in the application of BACT as part of the PSD review process, including the environmental impacts of collateral emissions resulting from the implementation of emission control technologies. To clarify the permitting agency's expectations with respect to the BACT evaluation process, states have sometimes prioritized the reduction of one pollutant above another. For example, technologies historically used to control $NO_X$ emissions frequently caused increases in CO emissions. Accordingly, several states prioritized the reduction of $NO_X$ emissions above the reduction of CO emissions, approving low $NO_X$ control strategies as BACT that result in higher CO emissions relative to the uncontrolled emissions scenario.

## 3.5 Step 5 – Select BACT

In the final step, the BACT emission limit is determined for each emission unit under review based on evaluations from the previous step.

Although the first four steps of the top-down BACT process involve technical and economic evaluations of potential control options (i.e., defining the appropriate technology), the selection of BACT in the fifth step involves an evaluation of emission rates achievable with the selected control technology. BACT is an emission limit unless technological or economic limitations of the measurement methodology would make the imposition of an emissions standard infeasible, in which case a work practice or operating standard can be imposed.

Establishing an appropriate averaging period for the BACT limit is a key consideration under Step 5 of the BACT process. Localized GHG emissions are not known to cause adverse public health or environmental impacts. Rather, EPA has determined that GHG emissions are anticipated to contribute to long-term environmental consequences on a global scale. Accordingly, EPA's Climate Change Workgroup has characterized the category of regulated GHGs as a "global pollutant." Given the global nature of impacts from GHG emissions, NAAQS are not established for GHGs and a dispersion modeling analysis for GHG emissions is not a required element of a PSD permit application for GHGs. Since localized short-term health and environmental effects from GHG emissions are not recognized, Targa proposes only an annual average GHG BACT limit as noted in the multiple sections that contain GHG BACT selections.

# 4. BACT REQUIREMENT

For the Red Hills Gas Processing Plant, the BACT requirement applies to each emission unit from which there are emissions increases of pollutants subject to PSD review. The facility is subject to PSD permitting for $NO_x$, CO, VOC, $SO_2$, TSP, $PM_{10}$, $PM_{2.5}$, $H_2S$, and $CO_2e$. Therefore, the project is subject to BACT analysis for these pollutants.

Table 4-1 identifies the pollutants considered in the PSD BACT analysis for each emission unit.

**Table 4.1 Pollutants Evaluated in the BACT Analysis for Each Emission Unit**

| Equipment | $NO_x$ | CO | VOC | $SO_2$ | TSP/$PM_{10}$ /$PM_{2.5}$ | $H_2S$ | $CO_2e$ |
|---|---|---|---|---|---|---|---|
| Heaters ≤ 20 MMBtu/hr | X | X | X | X | X | -- | X |
| 20 MMBtu/hr < Heaters ≤ 50 MMBtu/hr | | | | | | | |
| 50 MMBtu/hr < Heaters ≤ 100 MMBtu/hr | | | | | | | |
| Glycol Dehydrators | -- | -- | X | -- | -- | X | -- |
| Amine Still Vents | -- | -- | X | -- | -- | X | X |
| Thermal Oxidizers | X | X | X | X | X | -- | X |
| Flares | X | X | X | X | -- | X | X |
| Fixed Roof Tanks | -- | -- | X | -- | -- | X | -- |
| Truck Loading and Unloading | -- | -- | X | -- | -- | X | -- |
| Fugitives | -- | -- | X | -- | -- | X | X |
| Haul Roads | -- | -- | -- | -- | X | -- | -- |

The following sections provide details on the BACT assessment methodology utilized in preparing the BACT analysis for the Red Hills facility. The minimum control efficiency to be considered in a BACT assessment must result in an emission rate less than or equal to any applicable NSPS or NESHAP emission rate for the source.

## 4.1 Identification of Potential Control Technologies

Potentially applicable emission control technologies were identified by researching the U.S. EPA control technology database RACT/BACT/LAER Clearinghouse (RBLC), The Texas Commission on Environmental Quality's (TCEQ) BACT Guidelines, the California Air Resources Board's (CARB) Interim BACT Clearinghouse, technical literature, control equipment vendor information, state permitting authority files, and by using process knowledge and engineering experience. The RBLC, a database made available to the public through the U.S. EPA's Office of Air Quality Planning and Standards (OAQPS) Technology Transfer Network (TTN), lists technologies and corresponding emission limits that regulatory agencies have approved in major source permit actions. These technologies are grouped into industry categories and can be referenced in determining what emissions levels were proposed for similar types of emissions units.
An RBLC database search was performed in September 2023, April 2024, and February 2025 to identify the emission control technologies and emission levels that were determined by permitting authorities as BACT

within the past ten years for sources comparable to those at Red Hills. The following categories were searched:

- Heaters & Reboilers < 100 MMBtu/hr (RBLC Code 13.310, process contains "heater" or "reboiler");
- Amine Units (process name contains "amine");
- Unpaved Haul Roads (RBLC Code 99.150);
- Fugitives (RBLC Codes 50.007 and 99.999 or process name contains "fugitive");
- Truck Loading and Unloading (process name contains "loading");
- Fixed Roof and Internal Floating Roof Storage Tanks (RBLC Codes 42.005 and 42.006);
- Flares (RBLC Codes 13.330, 19.390, or process name contains "flare");
- Thermal Oxidizers (RBLC Codes 19.20, 50.002, process name contains "thermal oxidizer");
- Glycol Dehydrators (RBLC Codes 50.002 or process contains "dehydrator"); and
- SSM Activities (RBLC Codes 42.006 and 99.999)

Appendix A includes the RBLC search results.

Additionally, the following guidance documents were utilized as resources in completing the GHG BACT evaluation for the project:

- TCEQ Current Tier I BACT for Combustion Sources
- TCEQ Current Tier I BACT for Chemical Sources

## 4.2 Proposed Primary BACT Limits Summary

Based on the BACT assessment, Targa proposes the BACT limits shown in Table 4-2. A detailed discussion of the determination for each emission source is provided in the following Sections of this report.

**Table 4.2 Proposed Primary BACT Limits Summary**

| Unit | Pollutant | Limit | Proposed BACT |
|---|---|---|---|
| Heaters <50 MMBtu/hr | $NO_X$ (<20 MMBtu/hr) | 0.1 lb/MMBtu | Good combustion practices, pipeline quality natural gas |
| | $NO_X$ (>20 & <50 MMBtu/hr) | 30 ppm @ 3% $O_2$ | Ultra-low $NO_X$ burners, good combustion practices, and/or pipeline-quality natural gas to meet 20.2.50.119 NMAC |
| | CO | 0.037 lb/MMBtu | Good combustion practices and pipeline-quality natural gas |
| | VOC | 0.0054 lb/MMBtu | Good combustion practices and pipeline-quality natural gas |
| | $SO_2$ | 2 gr/100 scf | Good combustion practices and pipeline quality natural gas/low sulfur fuel |
| | TSP/$PM_{10}$/$PM_{2.5}$ | 0.007 lb/MMBtu | Good combustion practices and pipeline-quality natural gas |
| | $CO_2e$ | 117 lb/MMBtu | Good Combustion, Operating & Maintenance Practices, Use of Low Carbon Fuel (Natural Gas) |
| Heaters >50 & <100 MMBtu/hr | $NO_x$ | 30 ppm @ 3% $O_2$ | Ultra-low $NO_x$ burners, good combustion practices, and/or pipeline-quality natural gas to meet 20.2.50.119 NMAC |
| | CO | 0.037 lb/MMBtu | Good combustion practices and pipeline-quality natural gas |
| | VOC | 0.0054 lb/MMBtu | Good combustion practices and pipeline-quality natural gas |
| | $SO_2$ | 2 gr/100 scf | Good combustion practices and pipeline quality natural gas/low sulfur fuel |

## Table 4.2 Proposed Primary BACT Limits Summary (cont)

| Unit | Pollutant | Limit | Proposed BACT |
|---|---|---|---|
| Heaters >50 & <100 MMBtu/hr | $TSP/PM_{10}/PM_{2.5}$ | 0.007 lb/MMBtu | Good combustion practices and pipeline-quality natural gas |
| | $CO_2e$ | 117 lb/MMBtu | Good Combustion, Operating & Maintenance Practices, Use of Low Carbon Fuel (Natural Gas) |
| Dehydrator | VOC<br>$H_2S$ | 98% DRE | Flash tank and still vent condenser, flash gas recovery, thermal incineration, manufacturer recommended operation and maintenance. |
| Amine | VOC<br>$H_2S$ | 99% DRE for thermal incineration<br>100% via AGI[19] | All Amine Units: Flash gas recovery, manufacturer-recommended operation and maintenance.<br>Secondary Amine Units: Thermal Incineration<br>Inlet Amine Units: Acid Gas Injection |
| | $CO_2e$ | 99% DRE methane for thermal incineration<br>100% via AGI[20] | All Amine Units: Proper design, manufacturer-recommended operation and maintenance.<br>Secondary Amine Units: Thermal Incineration<br>Inlet Amine Units: Acid Gas Injection |
| Thermal Oxidizers | $NO_x$ | 0.06 lb/MMBtu | Low $NO_x$ Burners |
| | CO | 0.06 lb/MMBtu | Good Combustion Practices & Manufacturer Recommended Operation/Maintenance |
| | VOC | 0.0054 lb/MMBtu | Manufacturer-recommended operation/maintenance and good combustion practices |
| | $TSP/PM_{10}/PM_{2.5}$ | 0.0075 lb/MMBtu | Manufacturer-recommended operation/maintenance and good combustion practices |
| | $SO_2$ | 2 gr/100 scf | Manufacturer-recommended operation/maintenance and good combustion practices<br>Pipeline Natural Gas<br>Process streams $H_2S$ BACT is covered under respective sources (dehy and amine vents) |
| | $CO_2e$ | 117 lb/MMBtu | Manufacturer-recommended operation/maintenance and good combustion practices |
| Flares | $NO_x$ | Emission rates as determined in calculations | Pipeline quality natural gas for pilot, good combustion, operating and maintenance practices with a 98% DRE, meet 60.18. |
| | CO | | |
| | VOC | | |
| | $SO_2$ | | |
| | $H_2S$ | | |
| | $CO_2e$ | | |
| Fixed Roof Tanks | VOC | 98% DRE | Submerged Fill, Closed Vent System to Combustion Device |
| | $H_2S$ | 98% DRE | Closed Vent System to Combustion Device |
| Loading and Unloading | VOC | 100%<br>98% control | Submerged fill and vapor balancing with return vapors to Combustion Device for loading of condensate and sour slop, and submerged fill for loading of contact water |
| | $H_2S$ | 98% DRE | Closed Vent System to Combustion Device for loading of sour slop |

[19] Excluding downtime and maintenance

[20] Excluding downtime and maintenance

| Unit | Pollutant | Limit | Proposed BACT |
|---|---|---|---|
| Fugitives | VOC | N/A | AVO and OGI monitoring under 20.2.50 NMAC. |
| | $H_2S$ | N/A | AVO and OGI monitoring under 20.2.50 NMAC. |
| Haul Roads | TSP/$PM_{10}$/$PM_{2.5}$ | 78% Reduction | Limit Speed, Use of Aggregate Base Course, 78% Reduction |
| SSM | $NO_x$ | Emission rates as determined in calculations | Good combustion, operating, and maintenance practices. |
| | CO | | |
| | $SO_2$ | | |
| | TSP/$PM_{10}$/$PM_{2.5}$ | | |
| | VOC | 100% capture efficiency and 98% DRE[21] | Good operating and maintenance practices, vent SSM emissions to control device |
| | $H_2S$ | | |

## 4.3 Overall Project Efficiency Considerations

While the five-step top-down BACT analysis is the EPA's preferred methodology with respect to the selection of control technologies, EPA has also indicated that an overarching evaluation of energy efficiency should take place, as increases in energy efficiency will inherently reduce the total amount of GHG emissions produced by the source. As such, overall energy efficiency was a basic criterion in the selection of technologies and processing alternatives for the Red Hills Gas Processing Plant.

The Red Hills Gas Processing Plant is designed and constructed using new or updated energy-efficient equipment. The plant is designed with heat and process integration in mind for increased energy efficiency. Where feasible, the facility utilizes available process streams to transfer heat which reduces combustion heating requirements in the process. Equipment (vessels), piping, and components in hot service are designed to prevent heat loss to the atmosphere from equipment containing hot streams as appropriate.

The facility recycles the flash gas from the amine and dehydrator units, which are sent back to the fuel gas system or to the process instead of sending these overheads to a control device, except during cold-weather events where this is not feasible. The recycling of this material reduces the amount of natural gas required to fuel the facility's combustion sources and avoids the formation of additional GHG from combusting this material in a control device.

Process control instrumentation and pneumatic components are operated using compressed air rather than fuel gas or off-gas; therefore, no GHG emissions will be emitted to the atmosphere from these components. Targa operating and maintenance policies maintains all equipment according to manufacturer specifications or industry standards in order to keep all equipment operating efficiently.

[21] Excluding low-emitting activities, activities not routable to a control device, and fugitive SSM emissions.

# 5. BACT EVALUATION FOR HEATERS & REBOILERS

The BACT evaluation for combustion emissions from the heaters for $NO_X$, CO, VOC, $SO_2$, TSP/$PM_{10}$/$PM_{2.5}$, and GHG (as $CO_2e$) are provided in Sections 5.1 through 5.6. Appendix A provides a summary of RBLC and permit search results. The following provides a detailed list of the heaters and reboilers with rated capacity that are covered in this BACT evaluation.

**Table 5.1 List of Heaters and Reboilers with Rated Capacities**

| Equipment Type | Unit ID | Equipment Description | Rated Capacity | Units |
|---|---|---|---|---|
| Hot Oil Heaters | RH1-H-23-704 | Hot Oil Heater | 42.5 | MMBTU/HR |
| | RA2-H-20001 | Hot Oil Heater | 89.24 | MMBTU/HR |
| Stabilizer Hot Oil Heaters | RH1-H-1101 | Stabilizer Hot Oil Heater | 22.3 | MMBTU/HR |
| | RH6-H-60001 | Stabilizer Hot Oil Heater | 89.94 | MMBTU/HR |
| Regen Gas Heaters | RH2-H-741 | Regen Gas Heater | 9.6 | MMBTU/HR |
| | RH3-H-741 | Regen Gas Heater | 9.2 | MMBTU/HR |
| | RH4-H-741 | Regen Gas Heater | 9.2 | MMBTU/HR |
| | RH5-H-50741 | Regen Gas Heater | 9.08 | MMBTU/HR |
| | RH6-H-60741 | Regen Gas Heater | 9.1 | MMBTU/HR |
| Cryo Hot Oil Heaters | RH2-H-781 | Cryo Hot Oil Heater | 13.2 | MMBTU/HR |
| | RH3-H-781 | Cryo Hot Oil Heater | 19.8 | MMBTU/HR |
| | RH4-H-781 | Cryo Hot Oil Heater | 22.3 | MMBTU/HR |
| | RH5-H-50781 | Cryo Hot Oil Heater | 33.99 | MMBTU/HR |
| | RH6-H-60781 | Cryo Hot Oil Heater | 33.85 | MMBTU/HR |
| Amine Hot Oil Heaters | RH2-H-0901 | Amine Hot Oil Heater | 75 | MMBTU/HR |
| | RH2-H-1001 | Amine Hot Oil Heater | 75 | MMBTU/HR |
| | RHA-H-4901 | Amine Hot Oil Heater | 33.9 | MMBTU/HR |
| | RH4-H-3901 | Amine Hot Oil Heater | 76.73 | MMBTU/HR |
| | RH4-H-4001 | Amine Hot Oil Heater | 76.73 | MMBTU/HR |
| Amine/TEG Hot Oil Heaters | RH5-H-50902 | Amine/TEG Hot Oil Heater | 89.94 | MMBTU/HR |
| | RH5-H-50001 | Amine/TEG Hot Oil Heater | 89.94 | MMBTU/HR |
| TEG Reboilers | RH2-H-2301 | TEG Reboiler | 4.0 | MMBTU/HR |
| | RH3-H-6301 | TEG Reboiler | 4.0 | MMBTU/HR |
| | RH4-H-5301 | TEG Reboiler | 4.0 | MMBTU/HR |
| Liquids In-Line Heaters | RH4-H-41100 | RH4, Liquids In-Line Heater | 13.16 | MMBTU/HR |

## 5.1 $NO_X$ BACT

### 5.1.1 Background on Pollutant Formation

In combustion processes, $NO_X$ is formed by two fundamentally different mechanisms known as "fuel $NO_X$" and "thermal $NO_X$". $NO_X$ formation from natural gas combustion is primarily thermal $NO_X$.

"Fuel $NO_X$" forms when fuels containing nitrogen are burned. When these fuels are burned, the nitrogen bonds break and some of the resulting free nitrogen oxidizes to form $NO_X$. With excess air, the degree of fuel $NO_X$ formation is primarily a function of the nitrogen content of the fuel. Therefore, since natural gas contains little or no fuel-bound nitrogen, fuel $NO_X$ is an insignificant contributor to $NO_X$ emissions from natural gas-fired heaters.[22]

Thermal $NO_X$ is formed by a series of chemical reactions in which oxygen and nitrogen present in the combustion air dissociate and react to form $NO_X$. Prompt $NO_X$, a form of thermal $NO_X$, is formed in the proximity of the flame front as intermediate combustion products (e.g., HCN, N, and NH) are oxidized to form $NO_X$. Prompt $NO_X$ is usually negligible when compared to thermal $NO_X$ but can become significant with ultra-low-$NO_X$-burners.[23]

### 5.1.2 Identify All Available Control Technologies

Using the RBLC search and permit review results, potentially applicable $NO_X$ control technologies for heaters and reboilers rated <100 MMBtu/hr were identified.

The heaters and reboilers have a heat release duty ranging from 3.9 MMBtu/hr up to 89.94 MMBtu/hr and RBLC searches were performed for these sources rated <100 MMBtu/hr. Differences were found for heaters based on their respective heat release duty. Therefore, the heater and reboiler units were categorized into three groups based on heat release duty ranges of less than 20 MMBtu/hr, greater than 20 MMBtu/hr and less than 50 MMBtu/hr, and greater than 50 MMBtu/hr but less than 100 MMBtu/hr.

Tables 5.1-1, 5.1-2 and 5.1-3 outline the top-down BACT analysis for $NO_X$ emissions from the heaters and reboilers.

### 5.1.3 Selection of BACT for $NO_X$

Based on the review of the RBLC search and other permit review results, the selected BACT is included in Tables 5.1-1, 5.1-2 and 5.1-3.

Targa has determined that $NO_X$ BACT for heaters/reboilers <20 MMBtu/hr is utilizing good combustion practices and pipeline-quality natural gas, which is typically able to achieve an emissions rate of 0.1 lb/MMBtu. Installation of ultra-low or low-$NO_X$ burners is not economically reasonable as shown in Table 5-4.

[22] AP-42, Fifth Edition, Chapter 1.4 Natural Gas Combustion, Section 1.4.3. https://www.epa.gov/sites/default/files/2020-09/documents/1.4_natural_gas_combustion.pdf

[23] AP-42, Fifth Edition, Chapter 1.4 Natural Gas Combustion, Section 1.4.3. https://www.epa.gov/sites/default/files/2020-09/documents/1.4_natural_gas_combustion.pdf

For heaters/reboilers 20 MMBtu/hr to 50 MMBtu/hr, Targa has determined that $NO_X$ BACT consists of the use of ultra-low or low $NO_X$ burners, good combustion practices, and pipeline-quality natural gas. Regarding the emissions rates, the effectiveness of low $NO_X$ burners can vary based on the physical layout of the combustion unit, among other factors. Flame lengths from low $NO_X$ burners are longer because air and fuel stage mechanisms introduce a delay in fuel/air mixing as compared to conventional burners. Flame diameters are also greater, and burners must meet any space constraints for the heater/reboiler(s) under consideration. $NO_X$ emission reductions can vary for low $NO_X$ burners and can be from 40 to 85% relative to uncontrolled emission levels.[24]

Per the established requirements in 20.2.50.119 NMAC, natural gas-fired heaters with a rated capacity equal to or greater than 20 MMBtu/hr must meet the 30 ppm $NO_x$ emission limit.[25] Therefore, this limit is proposed as BACT.

For heaters/reboilers greater than 50 MMBtu/hr, an additional control technology was evaluated for $NO_X$ BACT. Selective Catalytic Reduction (SCR) is included in the RBLC for the control of $NO_X$ emissions. The overall control effectiveness ranges from 70% to 90%, higher than that of low or ultra-low $NO_X$ burners, but capital costs are higher than that of other $NO_X$ control technologies primarily due to catalyst and installation costs.

To evaluate the cost for the Targa heaters and reboilers, the study-level total annual cost of SCR controls was calculated following the EPA OAQPS Air Pollution Control Cost Manual (APCCM), which provides guidelines to estimate costs based on the capacity of the heater among other factors. Targa believes the estimated costs derived from the APCCM are conservatively low and that actual bids for the cost of installing and operating SCR controls would be higher.

To estimate the total capital investment (TCI) of SCR controls the nearest benchmark was used, and the average capital cost was multiplied by the maximum firing rate. The TCI was scaled up by the Consumer Price Index to translate costs to 2024 dollars. Relevant direct annual costs for SCR include maintenance costs, electricity costs, reagent costs, and catalyst replacement costs. These were calculated using the relevant equations of APCCM Chapter 2 as described in more detail in the notes of the calculations in Table 5-5. The $NO_X$ emission reduction was based on the difference between the existing emissions rate and a rate of 0.015 lb/MMBtu for SCR $NO_X$ control. SCR cost-effectiveness for the heaters ranges from $20,000 to $255,000 per ton of $NO_X$ removed, which is not economically reasonable.

Additionally, the operation of SCR would result in ammonia slip emissions, typically at the 2-10 ppm range, from the 10 heaters over 50 MMBtu/hr. Ammonia is a precursor that contributes to the formation of fine particulate ($PM_{2.5}$) that can cause haze and reduced visibility. Red Hills Gas Plant is near two designated Class I areas which are Carlsbad Caverns National Park (80 km away) and Guadalupe Mountains National Park (116 km away).

Therefore, due to the economically unreasonable costs and the secondary adverse environmental impact near Class I areas, SCR is eliminated as a BACT option. Targa proposes ultra-low $NO_X$ burners, good combustion practices, or pipeline-quality natural gas to achieve an emission rate of 30 ppm $NO_x$ for heaters and reboilers above 50 MMBtu/hr and below 100 MMBtu/hr.

[24] AP-42, Fifth Edition, Chapter 1.4 Natural Gas Combustion, Section 1.4.4. https://www.epa.gov/sites/default/files/2020-09/documents/1.4_natural_gas_combustion.pdf

[25] 20.2.50.119 NMAC – Emission standards for natural gas-fired heaters with a rated heat input equal to or greater than 20 MMBtu/hr.

**Table 5.1-1 BACT Analysis for Natural Gas-Fired Heaters (<20 MMBtu/hr) – $NO_x$**

**Table 5.1-1 BACT Analysis for Natural Gas-Fired Heaters/reboilers (<20 MMBtu/hr) - $NO_x$**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Ultra Low $NO_x$ Burners (ULNB)** | **Low $NO_X$ Burners [1]** | **Good Combustion Practices & Pipeline Quality Natural Gas** | **Selective Catalytic Reduction (SCR)** | **Selective Non-Catalytic Reduction (SNCR)** |
| | | **Control Technology Description** | $NO_x$ control from these burners is based on combustion modification techniques. These burners can manage and optimize the fuel and air mixing which causes a large and much more balanced flame reducing peak flame temperature. The flame structure also reduces the oxygen supply to the hottest part of the flame which reduces $NO_x$ production. | $NO_X$ control from these special burners is based on combustion modification techniques and staging the combustion process. Staging of either or both air and/or fuel partially delays the combustion process, resulting in a cooler flame which suppresses thermal NOx formation. | Operation at the appropriate oxygen range and temprature to promote complete combustion and minimuze $NO_x$ formation. | A nitrogen-based reagent (e.g., ammonia, urea) is injected into the exhaust stream downstream of the combustion unit. The reagent reacts selectively with $NO_X$ to produce molecular $N_2$ and water in a reactor vessel containing a metallic or ceramic catalyst. | A nitrogen-based reagent (e.g., ammonia, urea) is injected into the exhaust stream downstream of the combustion unit. The reagent reacts with $NO_x$ to produce molecular $N_2$ and water. However, unlike SCR, this reaction is non-catalyzed as the $NO_X$ reduction reaction is favored for a specific temperature range in the presence of oxygen. |
| | | **Other Considerations** | N/A | N/A | N/A | Untreated reagent may form ammonium sulfates which may plug or corrode downstream equipment. Particulate-laden streams may blind the catalyst and may necessitate the application of a soot blower. | N/A |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for heaters this size | Included in RBLC for heaters this size | Noted in most entries in RBLC for the control of $NO_x$ emissions from natural gas fired-heaters <20 MMBtu/hr. | Not included in RBLC for the control of $NO_x$ emissions from natural gas fired heaters < 20 MMBtu/hr | Not included in RBLC for the control of $NO_x$ emissions from natural gas fired heaters < 20 MMBtu/hr |
| | | **Feasibility Discussion** | -- | -- | -- | Not implemented on heaters of this size. | Not implemented on heaters of this size. |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | 80% to 90% | 40% to 85% | Base Case | | |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | $41367 per ton, see Table 5.1-4 for details | | | | |
| *Step 5.* | **SELECT BACT** | | Not economically reasonable | | **Good Combustion Practices & Pipeline Quality Natural Gas (0.1 lb/MMBtu)** | | |
| *Units Subject to Selected BACT* | | | **RH2-H-741, RH2-H-781, RH3-H-781, RH3-H-741, RH4-H-741, RH5-H-50741, RH6-H-60741, RH2-H-2301, RH3-H-6301, RH4-H-5301** | | | | |

**Table 5.1-2 BACT Analysis for Natural Gas-Fired Heaters (>20 MMBtu/hr & <50 MMBtu/hr) – $NO_X$**

**Table 5.1-2 BACT Analysis for Natural Gas-Fired Heaters/Reboilers (>20 MMBtu/hr - <50 MMBtu/hr) - $NO_x$**

| | | | | | | |
|---|---|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Ultra Low $NO_x$ Burners (ULNB)** | **Good Combustion Practices & Pipeline Quality Natural Gas** | **Selective Catalytic Reduction (SCR)** | **Selective Non-Catalytic Reduction (SNCR)** |
| | | **Control Technology Description** | $NO_x$ control from these burners is based on combustion modification techniques. These burners can manage and optimize the fuel and air mixing which causes a large and much more balanced flame reducing peak flame temperature. The flame structure also reduces the oxygen supply to the hottest part of the flame which reduces $NO_x$ production | Operation at the appropriate oxygen range and temperature to promote complete combustion and minimuze $NO_x$ formation. | A nitrogen-based reagent (e.g., ammonia, urea) is injected into the exhaust stream downstream of the combustion unit. The reagent reacts selectively with $NO_X$ to produce molecular $N_2$ and water in a reactor vessel containing a metallic or ceramic catalyst. | A nitrogen-based reagent (e.g., ammonia, urea) is injected into the exhaust stream downstream of the combustion unit. The reagent reacts with $NO_x$ to produce molecular $N_2$ and water. However, unlike SCR, this reaction is non-catalyzed as the $NO_X$ reduction reaction is favored for a specific temperature range in the presence of oxygen. |
| | | **Other Considerations** | N/A | N/A | Untreated reagent may form ammonium sulfates which may plug or corrode downstream equipment. Particulate-laden streams may blind the catalyst and may necessitate the application of a soot blower. | N/A |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for the control of $NO_x$ emissions from natural gas fired-heaters <50 MMBtu/hr | Included in RBLC for the control of $NO_x$ emissions from natural gas fired-heaters <50 MMBtu/hr | Not included in RBLC for the control of $NO_x$ emissions from natural gas fired heaters <50 MMBtu/hr | Not included in RBLC for the control of $NO_x$ emissions from natural gas fired heaters <50 MMBtu/hr |
| | | **Feasibility Discussion** | -- | -- | Not implemented on heaters of this size. | Not implemented on heaters of this size. |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | 40% to 85% | Base Case | | |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | | | |
| *Step 5.* | **SELECT BACT** | | **ULNB, Good Combustion Practices, and/or Pipeline Quality Natural Gas to meet the standard of 30 ppm NOx at 3% O2 as required per 20.2.50.119 NMAC** | | | |
| *Units Subject to Selected BACT* | | | **RH1-H-23-704, RH1-H-1101, RH4-H-781, RH5-H-50781, RH6-H-60781, RHA-H-4901** | | | |

**Table 5.1-3. BACT Analysis for Natural Gas-Fired Heaters (>50 MMBtu/hr & <100 MMBtu/hr) – $NO_X$**

**Table 5.1-3 BACT Analysis for Natural Gas-Fired Heaters/Reboilers (>50 &<100 MMBtu/hr) - $NO_x$**

| | | | | | | |
|---|---|---|---|---|---|---|
| | | **Control Technology** | **Ultra Low/Low $NO_x$ Burners (ULNB)** | **Good Combustion Practices & Pipeline Quality Natural Gas** | **Selective Catalytic Reduction (SCR)** | **Selective Non-Catalytic Reduction (SNCR)** |
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology Description** | $NO_x$ control from these burners is based on combustion modification techniques. These burners can manage and optimize the fuel and air mixing which causes a large and much more balanced flame reducing peak flame temperature. The flame structure also reduces the oxygen supply to the hottest part of the flame which reduces $NO_x$ production | Operation at the appropriate oxygen range and temprature to promote complete combustion and minimuze $NO_x$ formation. | A nitrogen-based reagent (e.g., ammonia, urea) is injected into the exhaust stream downstream of the combustion unit. The reagent reacts selectively with $NO_X$ to produce molecular $N_2$ and water in a reactor vessel containing a metallic or ceramic catalyst. | A nitrogen-based reagent (e.g., ammonia, urea) is injected into the exhaust stream downstream of the combustion unit. The reagent reacts with $NO_x$ to produce molecular $N_2$ and water. However, unlike SCR, this reaction is non-catalyzed as the $NO_X$ reduction reaction is favored for a specific temperature range in the presence of oxygen. |
| | | **Other Considerations** | N/A | N/A | Ammonia emissions from an SCR is a precursor that contributes to the formation of fine particulate (PM2.5), and can cause haze and reduced visibility. Red Hills Gas Plant is near two designated Class I areas (Carlsbad Caverns National Park and Guadalupe Mountains National Park).<br><br>Untreated reagent may form ammonium sulfates which may plug or corrode downstream equipment. Particulate-laden streams may blind the catalyst and may necessitate the application of a soot | N/A |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for the control of $NO_x$ emissions from natural gas fired-heaters (< 100 MMBtu/hr) | Included in RBLC for the control of $NO_x$ emissions from natural gas fired-heaters (<100 MMBtu/hr) | Included in RBLC for the control of $NO_x$ emissions from natural gas fired-heaters (<100 MMBtu/hr) | Not included in RBLC for the control of $NO_x$ emissions from natural gas fired heaters <50 MMBtu/hr |
| | | **Feasibility Discussion** | Feasible | Feasible | Feasible | Not implemented on heaters of this size. |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | 40% to 85% | Base Case | 70% - 90% | |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | | $20,000 to $255,000 | |
| *Step 5.* | **SELECT BACT** | | **ULNB, Good Combustion Practices, and/or Pipeline Quality Natural Gas to meet the standard of 30 ppm NOx at 3% O2 as required per 20.2.50.119 NMAC** | | Eliminated due to not economically reasonable and collateral ammonia emissions which will lead to adverse environmental impact to Class I areas. | |
| *Units Subject to Selected BACT* | | | **RA2-H-20001, RH6-H-60001, RH2-H-0901, RH2-H-1001, RH4-H-3901, RH4-H-4001, RH5-H-50902, RH5-H-50001, RH4-H-41100** | | | |

**Table 5.1-4 $NO_X$ Control Cost Analysis for Low-$NO_X$ Burners for Heaters/Reboilers <20 MMBtu/hr**

**Table 5.1-4 NOx Control Cost Analysis for Low-Nox Burners for Heaters/Reboilers <20 MMBtu/hr**

| No. | Category | Subcategory | Item Description | Reference | Percentage | Basis | Value |
|---|---|---|---|---|---|---|---|
| 1 | **Capital Costs** | *Direct Costs* | New Burners | Vendor Quote for Similar Unit | | | $ 222,000.00 |
| 2 | Capital Costs | *Direct Costs* | Instrumentation | APCCM Sec. 1, Chap. 2, ¶2.6.4.1. | 10.00% | FCC | $ 22,200.00 |
| 3 | Capital Costs | *Direct Costs* | Freight | APCCM Sec. 1, Chap. 2, ¶2.6.4.1. | 5.00% | FCC | $ 11,100.00 |
| 4 | Capital Costs | *Direct Costs* | Sales Tax and other Fees | Engineering Estimate based on similar unit | | | $ 92,925.00 |
| 5 | Capital Costs | *Direct Costs* | Heater Floor Modification | Excluded retrofit costs | | | $ - |
| 6 | Capital Costs | *Direct Costs* | Fuel Gas Piping Modification | Engineering Estimate based on similar unit | | | $ 73,500.00 |
| 7 | Capital Costs | *Direct Costs* | Total Direct Costs (TDC) | Sum Items 1--6 | | | $ 421,725.00 |
| 8 | Capital Costs | *Indirect Costs* | Engineering | Engineering Estimate based on similar unit | | | $ 150,000.00 |
| 9 | Capital Costs | *Indirect Costs* | Construction, Installation, and Field Expenses | Included in Item 13 | 0.00% | TDC | $ 480,250.00 |
| 10 | Capital Costs | *Indirect Costs* | Start-up | Included in Item 13 | 0.00% | TDC | - |
| 11 | Capital Costs | *Indirect Costs* | Performance Test | Included in Item 13 | 0.00% | TDC | - |
| 12 | Capital Costs | *Indirect Costs* | Model study | Included in Item 13 | 0.00% | TDC | - |
| 13 | Capital Costs | *Indirect Costs* | CFD Modeling and Testing | Engineering Estimate based on similar unit | | | $ 165,000.00 |
| 14 | Capital Costs | *Indirect Costs* | Contractor Fees | Engineering Estimate based on similar unit | | | $ 125,000.00 |
| 15 | Capital Costs | *Indirect Costs* | Total Indirect Costs (IC) | Sum Items 8--13 | | | $ 920,250.00 |
| 16 | Capital Costs | *Indirect Costs* | Total Capital Investment (TCI) before contingency-- (CNC) | IC+TDC | | | $ 1,341,975.00 |
| 17 | Capital Costs | *Indirect Costs* | Contingency | APCCM Sec. 1, Chap. 2, ¶2.6.4.2. | 15.00% | CNC | $ 201,296.25 |
| 18 | Capital Costs | | Total Capital Investment (TCI) | Sum Items 16--17 | | | $ 1,543,271.25 |
| 19 | **Annual Costs** | *Direct Costs* | | | | | |
| 20 | Annual Costs | *Direct Costs* | Operating and Supervisory Labor (AC) | APCCM Sec. 1, Chap. 2 ¶ 2.6.5.2 (assume no scale-up) | | | $ - |
| 21 | Annual Costs | *Direct Costs* | Maintenance Labor | APCCM Sec. 1, Chap. 2 ¶ 2.6.5.2 (assume no scale-up) | 0.00% | TCI | $ - |
| 22 | Annual Costs | *Direct Costs* | Total Direct Annual Costs (DAC) | Sum Items 20--21 | | | $ - |
| 23 | Annual Costs | *Indirect Costs* | Property Taxes | Assume exemption from State taxation | 0.00% | TCI | - |
| 24 | Annual Costs | *Indirect Costs* | Insurance and Administrative Charges | APCCM Sec. 1, Chap. 2, ¶2.6.5.8 | 3.00% | TCI | $ 46,298.14 |
| 25 | Annual Costs | *Indirect Costs* | Capital Recovery | ¶3.4.1.2 (Assume 25-year life, 8.50% annual interest [prime rate as of 2/28/2024]) | 9.77% | TCI | $ 150,795.63 |
| 26 | Annual Costs | *Indirect Costs* | Total Indirect Annual Costs (IAC) | Sum Items 23--25 | | | $ 197,093.77 |
| 27 | Annual Costs | *Recovery Credits* | Materials | No materials recovery | | | $ - |
| 28 | Annual Costs | *Recovery Credits* | Energy | No energy recovery | | | $ - |
| 29 | **Total Costs** | | Total Annualized Costs (TAC) | IAC+DAC | | | $ 197,093.77 |
| 30 | **Cost Effectiveness** | | | | | | |
| 31 | Cost Effectiveness | | NOX Emission Rate (20 MMBtu/hr @ 0.1 lb/MMBtu) | | | | 8.8 tons/yr |
| 32 | Cost Effectiveness | | NOX Emission Rate (37 ppmvd 3% O2 or ~0.04 lb/MMBtu) | | | | 4.0 tons/yr |
| 33 | Cost Effectiveness | | Emissions Reduction | Difference between items 31 and 32 | | | 4.8 tons/yr |
| 34 | Cost Effectiveness | | Cost Effectiveness ($/ton reduced) | Item 29 / Item 33 | | | **$ 41,366.51** |
| ***Heaters Applicable to Costs*** | | | **RH2-H-741, RH3-H-741, RH2-H-781, RH3-H-781, RH4-H-741, RH5-H-50741, RH6-H-60741, RH2-H-2301, RH3-H-6301, RH4-H-5301** | | | | |

*Cost analysis following guidelines from EPA Air Pollution Control Cost Manual, Chapter 2
https://www.epa.gov/sites/default/files/2017-12/documents/scrcostmanualchapter7thedition_2016revisions2017.pdf

**Table 5.1-5 $NO_X$ Control Cost Analysis for SCR for Heaters/Reboilers 50-100 MMBtu/hr**

**Table 5.1-5 NOx Control Cost Analysis for SCR for Heaters/Reboilers 50-100 MMBtu/hr**

| | | | Unit ID(s): | RH2-H-0901<br>RH2-H-1001 | RH4-H-3901<br>RH4-H-4001 | RH5-H-50902<br>RH5-H-50001<br>RH6-H-60001 | RA2-H-20001 |
|---|---|---|---|---|---|---|---|
| **Total Capital Investment** | **Note** | **Unit** | **Basis*** | | | | |
| Max Capacity | | MMBtu/hr | | 75.00 | 76.73 | 89.94 | 89.24 |
| Implied hours per year | | hr/yr | | 8760 | 8760 | 8760 | 8760 |
| Total Capital Investment | 1,2 | | | $ 830,254 | $ 849,405 | $ 995,640 | $ 987,891 |
| Interest Rate | | | | 7% | 7% | 7% | 7% |
| Equipment Life of SCR System | | | | 7 | 7 | 7 | 7 |
| Capital Recovery Factor | | | Eqn. 2.71 | 0.1856 | 0.1856 | 0.1856 | 0.1856 |
| **Indirect Annual Costs** | | | | | | | |
| Operator Labor Cost | | $/yr | *28 hr/week @$75/hr* | $ 109,500 | $ 109,500 | $ 109,500 | $ 109,500 |
| Annual Maintenance | | $/yr | Eqn 2.57 | $ 4,151 | $ 4,247 | $ 4,978 | $ 4,939 |
| Administrative Charges | | $/yr | Eqn 2.69 | $ 3,290 | $ 3,290 | $ 3,291 | $ 3,291 |
| Capital Recovery Costs | | $/yr | Eqn 2.70 | $ 154,056 | $ 157,610 | $ 184,744 | $ 183,306 |
| Total Indirect Annual Costs | | $/yr | | $ 157,346 | $ 160,900 | $ 188,035 | $ 186,597 |
| **Direct Annual Costs** | | | | | | | |
| Maintenance | 3 | $/yr | Eqn 2.57 | $ 4,151 | $ 4,247 | $ 4,978 | $ 4,939 |
| Reagent use | 4 | $/yr | Eqn. 2.35 | $ 1,812 | $ 5,122 | $ 4,899 | $ 4,861 |
| Electricity | 5 | $/yr | Eqn. 2.61 | $ 20,493 | $ 20,966 | $ 24,575 | $ 24,384 |
| Catalyst use | 6 | $/yr | Eqn. 2.67 | $ 46,055 | $ 47,117 | $ 55,229 | $ 54,799 |
| Total Direct Annual Costs | | $/yr | Eqn 2.56 | $ 72,511 | $ 77,452 | $ 89,682 | $ 88,984 |
| Total Annual Costs | | $/yr | Eqn. 2.72 | $ 229,857 | $ 238,352 | $ 277,717 | $ 275,581 |
| **NOx Emissions** | | | | | | | |
| Burner NOx emissions basis | | lb/MMBtu | | 0.018 | 0.049 | 0.040 | 0.040 |
| Emissions from low-NOx burner control | | ton NOx/yr | | 5.83 | 16.47 | 15.76 | 15.63 |
| SCR Control NOx emission basis | | lb/MMBtu | | 0.015 | 0.015 | 0.015 | 0.015 |
| Emissions from SCR NOx control | | ton NOx/yr | | 4.93 | 5.04 | 5.91 | 5.86 |
| Tons per year removed with SCR control | | ton NOx/yr | | 0.90 | 11.43 | 9.85 | 9.77 |
| | | | | | | | |
| ***Cost Effectiveness (each)*** | 7 | ***$/ton NOx*** | | ***$ 255,000*** | ***$ 20,000*** | ***$ 28,000*** | ***$ 28,000*** |
| ***Heaters Applicable to Costs*** | | | **RA2-H-20001, RH6-H-60001, RH2-H-0901, RH2-H-1001, RH4-H-3901, RH4-H-4001, RH5-H-50902, RH5-H-50001, RH4-H-41100** | | | | |

*Cost analysis following guidelines from EPA Air Pollution Control Cost Manual, Chapter 2: Selective Catalytic Reduction dated June 2019.
https://www.epa.gov/sites/default/files/2017-12/documents/scrcostmanualchapter7thedition_2016revisions2017.pdf

**Notes:**

1. Total Capital Investment (TCI) based on Maximum capacity and EPA OAQPS Air Pollution Control Cost Manual. ("APCCM") benchmark values, scaled by Consumer Price Index values Federal Reserve Bank of Minneapolis for 2024 and 1999. (314.4/166.6)
2. Retrofit factor of 40% applied to calculated TCI values for existing equipment.
3. Annual maintenance costs figured as 0.5% of Total Capital Investment.
4. Electricity costs assuming 5.57 ¢/kW-h
5. Reagent costs conservatively assuming use of anhydrous ammonia obtained at $800/t (higher costs apply for aqueous ammonia). Also use SRF=1.05.
6. Catalyst replacement costs assuming $400/ft$^3$ catalyst cost and η=90%.
7. Cost effectiveness is Total Annual Costs divided by Tons per year removed with SCR control, rounded down to the nearest thousands of dollars.

## 5.2 CO BACT

### 5.2.1 Background on Pollutant Formation

CO from combustion sources is a by-product of incomplete combustion. Conditions leading to incomplete combustion include the following: insufficient oxygen availability, poor fuel/air mixing, reduced combustion temperature, reduced combustion gas residence time, and load reduction.

### 5.2.2 Identify All Available Control Technologies

Using the RBLC search potentially applicable CO control technologies for heaters were identified. Additionally, Table 5.2-1 outlines the top-down BACT analysis for CO emissions from the heaters.

### 5.2.3 Selection of BACT for CO

Based on the review of the RBLC search and other permit review results, Targa has determined that CO BACT is good combustion practices and use of pipeline-quality natural gas. The proposed emissions rate for CO is 0.037 lb/MMBtu.

**Table 5.2-1 BACT Analysis for Natural Gas-Fired Heaters (<100 MMBtu/hr) – CO**

**Table 5.2-1 BACT Analysis for Natural Gas-Fired Heaters (<100 MMBtu/hr) - CO**

| | | | | |
|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Good Combustion Practices & Pipeline Quality Natural Gas** | **Catalytic Oxidation** |
| | | **Control Technology Description** | Operation at the appropriate oxygen range and temprature to promote complete combustion and minimize CO formation. | Waste stream is heated by a flame and then passes through a catalyst bed that increases the oxidation rate more quickly and at lower temperatures. |
| | | **Other Considerations** | N/A | N/A |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for the control of CO emissions from natural gas-fired heaters (< 100 MMBtu/hr). | Not included in RBLC for the control of CO emissions from natural gas-fired heaters (< 100 MMBtu/hr) |
| | | **Feasibility Discussion** | Feasible | Technically feasible. Not implemented on heaters of this size. |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Controll Efficiency** | Base Case | |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | |
| *Step 5.* | **SELECT BACT** | | **Good Combustion Practices & Pipeline Quality Natural Gas (~0.037 lb/MMBtu)** | |
| *Units Subject to Selected BACT* | | | **RH1-H-23-704, RA2-H-20001, RH1-H-1101, RH6-H-60001, RH2-H-741, RH3-H-741, RH4-H-741, RH5-H-50741, RH6-H-60741, RH2-H-781, RH3-H-781, RH4-H-781, RH5-H-50781, RH6-H-60781, RH2-H-0901, RH2-H-1001, RHA-H-4901, RH4-H-3901, RH4-H-4001, RH5-H-50902,RH5-H-50001, RH2-H-2301, RH3-H-6301, RH4-H-5301, RH4-H-41100** | |

## 5.3 VOC BACT

### 5.3.1 Background on Pollutant Formation

The formation of VOC is the result of incomplete combustion from natural gas. VOC results when there is insufficient residence time at high temperatures to complete the final step in hydrocarbon oxidation.

### 5.3.2 Identify All Available Control Technologies

Using the RBLC search potentially applicable VOC control technologies for heaters were identified.

Table 5.3-1 outlines the top-down BACT analysis for VOC emissions from the heaters.

### 5.3.3 Selection of BACT for VOC

Based on the review of the RBLC search and other permit review results, Targa has determined that BACT is good combustion practices and use of pipeline quality natural gas. The proposed emission rate of VOC is 0.0054 lb/MMBtu.

**Table 5.3-1 BACT Analysis for Natural Gas-Fired Heaters (<100 MMBtu/hr) – VOC**

**Table 5.3-1 BACT Analysis for Natural Gas-Fired Heaters (<100 MMBtu/hr) - VOC**

| | | | | |
|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Good Combustion Practices & Pipeline Quality Natural Gas** | **Catalytic Oxidation** |
| | | **Control Technology Description** | Operation at the appropriate oxygen range and temprature to promote complete combustion and select clean natural gas fuel that is primarily methane and ethane. | Waste stream is heated by a fale and then passes through a catalyst bed that increases the oxidation rate more quickly and at lower temperatures. |
| | | **Other Considerations** | N/A | Dependent upon VOC composition, concentration, operating temperature, oxygen concentration, catalyst characterisitics, and space velocity. |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for the control of VOC emissions from natural gas-fired heaters <100 MMBtu/hr. | Not included in RBLC for the control of VOC emissions from natural gas-fired heaters <100 MMBtu/hr |
| | | **Feasibility Discussion** | Feasible | Not implemented on heaters of this size. |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Controll Efficiency** | Base Case | |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | |
| *Step 5.* | **SELECT BACT** | | **Good Combustion Practices & Pipeline Quality Natural Gas (~0.005 lb/MMBtu)** | |
| *Units Subject to Selected BACT* | | | **RH1-H-23-704, RA2-H-20001, RH1-H-1101, RH6-H-60001, RH2-H-741, RH3-H-741, RH4-H-741, RH5-H-50741, RH6-H-60741, RH2-H-781, RH3-H-781, RH4-H-781, RH5-H-50781, RH6-H-60781, RH2-H-0901, RH2-H-1001, RHA-H-4901, RH4-H-3901, RH4-H-4001, RH5-H-50902,RH5-H-50001, RH2-H-2301, RH3-H-6301, RH4-H-5301, RH4-H-41100** | |

## 5.4 $SO_2$ BACT

### 5.4.1 Background on Pollutant Formation

$SO_2$ emissions result from the oxidation of fuel-bound sulfur. Emissions of $SO_2$ from heaters is dependent on the amount of sulfur-containing compounds in the fuel.

### 5.4.2 Identify All Available Control Technologies

Using the RBLC search potentially applicable $SO_2$ control technologies for heaters were identified.

Table 5.4-1 outlines the top-down BACT analysis for $SO_2$ emissions from the heaters.

### 5.4.3 Selection of BACT for $SO_2$

Based on the review of the RBLC search, Targa has determined that $SO_2$ BACT is the use of pipeline-quality natural gas as fuel with a proposed limit of 2 grains sulfur/100 scf in the fuel gas.

**Table 5.4-1 BACT Analysis for Natural Gas-Fired Heaters (<100 MMBtu/hr) – $SO_2$**

**Table 5.4-1 BACT Analysis for Natural Gas-Fired Heaters (<100 MMBtu/hr) - $SO_2$**

| | | | |
|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Good Combustion Practices and Pipeline Quality Natural Gas/Low Sulfur Fuel** |
| | | **Control Technology Description** | Use of pipeline-quality natural gas (low sulfur fuel) to reduce emissions. |
| | | **Other Considerations** | N/A |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for the control of SO2 emissions from natural gas fired heaters <100 MMBtu/hr |
| | | **Feasibility Discussion** | Feasible |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Controll Efficiency** | Base Case |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | |
| *Step 5.* | **SELECT BACT** | | **2 gr sulfur/100 scf in natural gas** |
| *Units Subject to Selected BACT* | | | **RH1-H-23-704, RA2-H-20001, RH1-H-1101, RH6-H-60001, RH2-H-741, RH3-H-741, RH4-H-741, RH5-H-50741, RH6-H-60741, RH2-H-781, RH3-H-781, RH4-H-781, RH5-H-50781, RH6-H-60781, RH2-H-0901, RH2-H-1001, RHA-H-4901, RH4-H-3901, RH4-H-4001, RH5-H-50902,RH5-H-50001, RH2-H-2301, RH3-H-6301, RH4-H-5301, RH4-H-41100** |

## 5.5 TSP/$PM_{10}$/$PM_{2.5}$ BACT

### 5.5.1 Background on Pollutant Formation

Particulate matter emissions from natural gas combustion are typically low and consists of both filterable and condensable fractions. Filterable PM emissions from combustion are formed by ash and sulfur in the fuel. Combustion of natural gas generates low filterable PM emissions in comparison to other fuels due to its low ash and sulfur content. Particulate matter emissions from natural gas combustion can result from higher molecular weight hydrocarbons that are not fully combusted due to poor air/fuel mixing or maintenance issues.

### 5.5.2 Identify All Available Control Technologies

Using the RBLC search potentially applicable TSP/$PM_{10}$/$PM_{2.5}$ control technologies for heaters were identified.

Table 5.5-1 outlines the top-down BACT analysis for filterable and condensable TSP/$PM_{10}$/$PM_{2.5}$ emissions from the heaters.

### 5.5.3 Selection of BACT for TSP/$PM_{10}$/$PM_{2.5}$

Based on the review of the RBLC search and other literature, Targa has determined that TSP/$PM_{10}$/$PM_{2.5}$ BACT is good combustion practices and use of pipeline quality natural gas, with a proposed emission rate of 0.007 lb/MMBtu.

**Table 5.5-1 BACT Analysis for Natural Gas-Fired Heaters (<100 MMBtu/hr) – TSP/$PM_{10}$/$PM_{2.5}$**

| Table 5-5.1 BACT Analysis for Natural Gas-Fired Heaters (<100 MMBtu/hr) - TSP, $PM_{10}$, and $PM_{2.5}$ | | | |
|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** [1] | **Control Technology** | **Good Combustion Practices & Pipeline Quality Natural Gas** |
| | | **Control Technology Description** | Operation at the appropriate oxygen range and temperature to promote complete combustion and select pipeline-quality natural gas fuel that is primarily methane and ethane. |
| | | **Other Considerations** | N/A |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for the control of PM emissions from natural gas fired heaters <100 MMBtu/hr. No other control option in RBLC for natural gas fired heaters <100 MMBtu/hr. |
| | | **Feasibility Discussion** | Feasible |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | Base Case |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | |
| *Step 5.* | **SELECT BACT** | | **Good Combustion Practices & Pipeline Quality Natural Gas (0.007 lb/MMBtu)** |
| *Units Subject to Selected BACT* | | | **RH1-H-23-704, RA2-H-20001, RH1-H-1101, RH6-H-60001, RH2-H-741, RH3-H-741, RH4-H-741, RH5-H-50741, RH6-H-60741, RH2-H-781, RH3-H-781, RH4-H-781, RH5-H-50781, RH6-H-60781, RH2-H-0901, RH2-H-1001, RHA-H-4901, RH4-H-3901, RH4-H-4001, RH5-H-50902,RH5-H-50001, RH2-H-2301, RH3-H-6301, RH4-H-5301, RH4-H-41100** |

Notes:

1. Other filterable particulate matter control technologies include baghouse/fabric filer, electrostatic precipitator (ESP), and cyclone; however, these technologies are technically infeasible for use on natural gas-fired heaters of these sizes, nor are included in the RBLC for control of PM for heaters < 100 MMBtu/hr.
2. Other condensable particulate matter control technologies possibly include catalytic oxidation and thermal incineration; however, these technologies are technically infeasible, are not proven to reduce condensable particulate matter, are not implemented on any heaters of this size, nor are in the RBLC for control of PM for heaters <100 MMBtu/hr.

## 5.6 $CO_2e$ BACT

### 5.6.1 Background on Pollutant Formation

GHG emissions from the heaters include $CO_2$, $CH_4$, and $N_2O$ which result from the combustion of natural gas. The majority of carbon combusted in the fuel stream is converted to $CO_2$ since each carbon atom results in nearly one molecule of $CO_2$ emissions. $CH_4$ and $N_2O$ form as the result of incomplete combustion and are emitted in much lower quantities. Even when scaling $CH_4$ and $N_2O$ by their relative global warming potentials (GWPs), these constituents combined contribute approximately one percent of the total GHG emissions (on $CO_2e$ basis) resulting from the combustion of natural gas. Therefore, BACT assessment for the heaters is focused on $CO_2$. In addition, using $CO_2$ as a surrogate for a $CO_2e$ BACT analysis is consistent with federal regulations.[26]

### 5.6.2 Identify All Available Control Technologies

Using the RBLC search potentially applicable $CO_2e$ control technologies for heaters were identified.

Low-carbon intensity fuel selection is the primary control option that can be considered a lower-emitting process. Table C-1 of 40 CFR Part 98 shows $CO_2$ emissions per unit heat input (MMBtu) for a wide variety of industrial fuel types. Only biogas (captured methane) and coke oven gas result in lower $CO_2$ emissions per unit heat input than natural gas, but these fuel types are not readily available for this project.

Table 5.6-1 outlines the top-down BACT analysis for $CO_2e$ emissions from the heaters.

### 5.6.3 Selection of BACT for $CO_2e$

Based on the review of the RBLC search and other literature, Targa has determined that $CO_2e$ BACT is good combustion practices and use of pipeline quality natural gas.

[26] 40 CFR § 52.21(b)(49)(i)

**Table 5.6-1 BACT Analysis for Natural Gas-Fired Heaters (<100 MMBtu/hr) – $CO_2e$**

**Table 5.6-1 BACT Analysis for Natural Gas-Fired Heaters (<100 MMBtu/hr) - $CO_2e$**

| | | | | | |
|---|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Good Combustion, Operating & Maintenance Practices** | **Low Carbon Fuel - Natural Gas** | **Heat Integration** |
| | | **Control Technology Description** | Good combustion & operating practices, proper air-to-fuel ratios to improve mixing of fuel, and proper maintenance and tune-up of the heaters to improve the fuel efficiency of the heaters. | Use of low carbon fuels such as natural gas have lower carbon intensity and reduces greenhouse gas emissions | Includes process-to-process cross heat exchanges for heat integration, high efficiency mass transfer equipment to reduce energy use and minimize the size of the heaters. |
| | | **Other Considerations** | N/A | N/A | N/A |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for the control of GHG emissions from natural gas fired heaters <100 MMBtu/hr | Included in RBLC for the control of GHG emissions from natural gas fired heaters <100 MMBtu/hr | Not included in RBLC for the control of GHG emissions from natural gas fired heaters <100 MMBtu/hr |
| | | **Feasibility Discussion** | Feasible | Feasible | Not typically implemented on heaters of this size. |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | Base Case | Base Case | |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | | |
| *Step 5.* | **SELECT BACT** | | **Yes** | **Yes** | |
| *Units Subject to Selected BACT* | | | **All heater units** | | |

# 6. BACT EVALUATION FOR GLYCOL DEHYDRATORS

The BACT evaluation for the glycol dehydrators (Unit IDs RH1-TEG, RH2-TEG, RH3-TEG, RH4-TEG, RH5-TEG, RH6-TEG) for VOC and $H_2S$ are provided in this Section. Appendix A provides a summary of RBLC and permit search results.

**Table 6.1 List of Glycol Dehydrators with Rated Capacities**

| Equipment Type | Unit ID | Equipment Description | Rated Capacity | Units |
|---|---|---|---|---|
| Glycol Dehydrators | RH1-TEG | RH1, TEG Regeneration System | 75 | MMSCF/D |
| | RH2-TEG | RH2, TEG Regeneration System | 300 | MMSCF/D |
| | RH3-TEG | RH3, TEG Regeneration System | 300 | MMSCF/D |
| | RH4-TEG | RH4, TEG Regeneration System | 300 | MMSCF/D |
| | RH5-TEG | RH5, TEG Regeneration System | 300 | MMSCF/D |
| | RH6-TEG | RH6, TEG Regeneration System | 300 | MMSCF/D |

## 6.1 VOC and $H_2S$ BACT

### 6.1.1 Background on Pollutant Formation

VOC emissions are a result of water and volatiles being removed from the wet gas stream during the glycol recovery process. Triethylene glycol (TEG) is used to absorb water from the wet gas with VOC HAP, and $H_2S$ also being absorbed. The TEG is regenerated by heating in a reboiler where the absorbed water, VOC, and HAP create a vapor stream (i.e., regenerator vent or still column vent).

### 6.1.2 Identify All Available Control Technologies

Using the RBLC search potentially applicable VOC and $H_2S$ control technologies were identified based on the principles of control technology and engineering experience for TEG dehydration units.

Table 6.1-1 outlines the top-down BACT analysis for VOC and $H_2S$ emissions from glycol dehydration units.

### 6.1.3 Selection of BACT for VOC and $H_2S$

Based on the review of the RBLC search and other permit review results, Targa has determined that VOC and $H_2S$ BACT is flash gas recovery with the gas being recycled back to the process, and utilizing a condenser and a vapor combustion device with 98% efficiency for the dehydrator still vent.

**Table 6.1-2 BACT Analysis for Glycol Dehydrators – VOC & $H_2S$**

**Table 6.1-1 BACT Analysis for Glycol Dehydrators - VOC and $H_2S$**

| | | | | | |
|---|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Flash Gas Recovery** | **Still Vent Condenser** | **Thermal Incineration** |
| | | **Control Technology Description** | Flash gas from the glycol dehydrator flash tank separator is routed back to process. | Condensers are supplemental emissions control devices that reduce the temperature of the still column vent vapors to condense water and VOC. Typically used prior to another control device. | A high temperature control device used for disposing of waste gas streams. |
| | | **Other Considerations** | N/A | N/A | Typically not utilized for low-concentration, high-flow organic vapor streams. |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in the RBLC for control of emissions from glycol dehydrators | Included in the RBLC for control of VOC from glycol dehydrators | Included in RBLC for the control of emissions from dehydrator units. |
| | | **Feasibility Discussion** | Feasible | Feasible | Feasible |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | Base case | Base case | 98% - 99% |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | | |
| *Step 5.* | **SELECT BACT** | | **Yes - Recovery of flash gas back to process, flash tank and still vent vapor condenser, and thermal incineration (98%-99%)** | | |
| *Units Subject to Selected BACT* | | | **RH1-TEG, RH2-TEG, RH3-TEG, RH4-TEG, RH5-TEG, RH6-TEG** | | |

# 7. BACT EVALUATION FOR AMINE STILL VENTS

The BACT evaluation for control of emissions from the amine still vents (Units RH1-AMINE, RH2-AMINE, RHA-AMINE, RH4-AMINE, RH5-AMINE, and RA2-AMINE) for VOC and $H_2S$ are provided in Sections 7.1, for $SO_2$ in Section 7.2, and for $CO_2e$ in Section 7.3.

**Table 7.1.1 List of Amine Still Vents with Rated Capacities**

| Equipment Type | Unit ID | Equipment Description | Rated Capacity | Units |
|---|---|---|---|---|
| Amine Still Vents | RH1-AMINE | RH1, Amine Regeneration System | 75 | MMSCF/D |
| | RH2-AMINE | RH2, Amine Regeneration System | 290 | MMSCF/D |
| | RHA-AMINE | RHA, Amine Regeneration System | 20-75 | MMSCF/D |
| | RH4-AMINE | RH4, Amine Regeneration System | 290 | MMSCF/D |
| | RH5-AMINE | RH5, Amine Regeneration System | 290 | MMSCF/D |
| | RA2-AMINE | RA2, Amine Regeneration System | 60-260 | MMSCF/D |

## 7.1 VOC and $H_2S$ BACT for Amine Units

### 7.1.1 Background on Pollutant Formation

VOC and $H_2S$ emissions are a result of removal of acidic contaminants from natural gas. The amine units are used to remove $CO_2$ and $H_2S$ in order to produce pipeline quality natural gas for transportation to end use customers. Amine absorbs the $CO_2$ and $H_2S$ from the gas, and the rich amine is regenerated in an amine regenerator. The regenerator overhead vapor stream contains $CO_2$ and $H_2S$, and some residual VOC. If the stream is combusted, the $H_2S$ is converted to $SO_2$ emissions.

### 7.1.2 Identify All Available Control Technologies

Using the RBLC search potentially applicable VOC and $H_2S$ control technologies were identified based on the principles of control technology and engineering experience for amine still vents. Table 7.1-2 outlines the top-down BACT analysis for VOC and $H_2S$ from amine still vents. One control technology is to use a high temperature control device for control of the acid gas streams from the amine units, such as a thermal oxidizer. $H_2S$ removed from the sour gas is converted to $SO_2$ when burned. Alternatives include a sulfur recovery unit with or without a tailgas treating unit (TGTU) and acid gas injection. A sulfur recovery unit converts sulfur from $H_2S$ in the regen gas into elemental sulfur which is recovered in a sulfur recovery unit. Only residual sulfur is converted to $SO_2$ using thermal incineration such as a thermal oxidizer. In acid gas injection, the gas stream is captured and sequestered in a Class II or VI injection well.

### 7.1.3 Selection of BACT

The sulfur removal capacity of the amine units vary. The inlet amine units remove a large percentage of the $H_2S$ in the inlet sour gas to the plant, while the secondary units remove residual $H_2S$ in the sweetened sour gas as well as any $H_2S$ from sweet gas entering the plant. Therefore, the selection of BACT will vary between the amine units. The sulfur removal capacities of the amine units are as follows.

**Table 7.1.2 Sulfur Removal Capacities of Amine Still Vents**

| Amine Unit | Description in Process | Sulfur Removal Capacity (long tons / day) |
|---|---|---|
| RHA-AMINE | Inlet Amine Unit | 7.71 |
| RA2-AMINE | Inlet Amine Unit | 50.72 |
| RH1-AMINE | Secondary Amine Unit | 0.011 |
| RH2-AMINE | Secondary Amine Unit | 0.044 |
| RH4-AMINE | Secondary Amine Unit | 0.028 |
| RH5-AMINE | Secondary Amine Unit | 0.044 |

Based on the review of the RBLC search and other permit review results, Targa has determined that VOC and $H_2S$ BACT is flash tank with off gas recovery, proper design and operation, and thermal incineration at 99% DRE for the amine units treating sweet gas and acid gas injection for amine units treating sour gas. The selection of BACT is outlined in Table 7.1-1.

**Table 7.1-2 BACT Analysis for Amine Still Vents – VOC & $H_2S$**

**Table 7.1-1 BACT Analysis for Amine Units - VOC and $H_2S$**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Thermal Incineration** | **Flash Tank and Off Gas Recovery** | **Proper Design and Operations** | **Sulfur Recovery Unit without/with TGTU** | **Acid Gas Injection / Carbon Capture and Sequestration** |
| | | **Control Technology Description** | A high temperature control device used for disposing of the acid gas streams from the amine units, such as a thermal oxidizer. H2S removed from the sour gas is converted to SO2 when burned. | Flash gas is recovered and is routed back to the plant for reprocessing. | Operate and maintain the equipment in accordance with good air pollution control practices and recommended design. | A sulfur recovery unit coverts sulfur from $H_2S$ in the gas into elemental sulfur which is recovered in a sulfur recovery unit. Residual sulfur is converted to $SO_2$ using thermal incineration such as a thermal oxidizer. | Capture and sequester in a Class VI well, enhanced oil recovery meeting Part 98 subpart RR, or Acid Gas Injection & Class II well |
| | | **Other Considerations** | Typically not utilized for low-concentration, high-flow organic vapor streams.<br><br>Results in collateral emissions of $SO_2$ due to combustion of $H_2S$. | N/A | N/A | NSPS OOOOb requires sulfur recovery for sweetening units with a design capacity >2 long tons sulfur / day.<br><br>TX TCEQ state BACT requires sulfur recovery for natural gas processing plants with a design capacity >0.3 long tons sulfur / day, below which a flare is BACT. The five secondary amine units all have a sulfur removal capacity of 0.044 long ton sulfur / day or less. | N/A |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for the control of VOC & $H_2S$ emissions from amine units. | Included in RBLC for control of CO2e from amine units | Included in RBLC for the control of VOC emissions from amine units. | Not in RBLC for the control of $H_2S$ from amine units. | Not in RBLC for the control of VOC, $H_2S$ or CO2e emissions from amine units. |
| | | **Feasibility Discussion** | Feasible | Feasible | Feasible | Feasible | Typically considered infeasible and cost prohibitive for control of $H_2S$ except in the case for sweetening units with large design capacities. Additionally, feasibility is dependent on the available geologic formation capable of receiving acid gas, along with the surrounding activites in association with the formation. |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | 99% for $H_2S$ and VOC | Base case | Base Case | 96% - 99.8% sulfur recovery | 100% for VOC and $H_2S$ (Note 1) |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | | | | |
| *Step 5.* | **SELECT BACT** | | **Thermal Incineration at 99% DRE for the Secondary Amine Units** | **Yes, for all Amine Units** | | | **Acid Gas Injection for the Inlet Amine Units** |
| *Units Subject to Selected BACT* | | | **Thermal Incineration: RH1-AMINE, RH2-AMINE, RH4-AMINE, RH5-AMINE**<br>**Flash Tank and Off Gas Recovery & Proper Design and Operations: RH1-AMINE, RH2-AMINE, RHA-AMINE, RH4-AMINE, RH5-AMINE, RA2-AMINE**<br>**Acid Gas Injection: RHA-AMINE, RA2-AMINE** | | | | |

Notes:
1. Excluding downtime and maintenance

## 7.2 $CO_2e$ BACT

### 7.2.1 Background on Pollutant Formation

The amine units are designed to remove $CO_2$ and $H_2S$ to meet pipeline specifications for transportation of natural gas. Since the primary purpose of the amine units is to remove $CO_2$ and $H_2S$ from the inlet gas stream, the generation of $CO_2$ is inherent to the process, and any reduction of the $CO_2$ emissions by process changes would reduce process efficiency. This could result in off-specification product, which is required to be flared or higher $CO_2$ concentrations in the end product which would likely be combusted by the end user.

### 7.2.2 Identify All Available Control Technologies

Table 7.2.-1 outlines the top-down BACT analysis for $CO_2e$ from amine still vents. Using the RBLC search, and a review of the Acid Gas Injection well authorization to inject permits within a 25-mile radius, potentially applicable $CO_2e$ controls were identified based on the principles of control technology and engineering experience for amine units. This review identified Acid Gas Injection (AGI) wells, a type of Class II Underground Injection Control (UIC) well, as well as thermal incineration with proper design and operational practices as feasible control technologies for controlling $CO_2e$ emissions. Red Hills currently operates two Class II AGI injection wells: the Red Hills AGI #001 and the Red Hills AGI #003. It is important to note that the primary intent of Class II AGI wells is the disposal of oil and gas waste, in this case, the safe disposal of $H_2S$ from the atmosphere in a manner that protects the health of the employees and communities. Both Targa and the NMOCD will always prioritize the capacity of the AGI wells for $H_2S$ disposal versus $CO_2$ disposal. This allows the processing plant to remain viable to treat sour gas in the area and do so safely.

### 7.2.3 Selection of BACT

Based on the review of the RBLC search and permit review results, Targa has determined that $CO_2e$ BACT will require a multi-faceted approach. Targa will utilize thermal incineration to control methane emissions as follows.

**Table 7.2 Amine Still Vent Thermal Incineration Methane Destruction Efficiency**

| Amine Unit | Description in Process | Thermal Incineration Unit | Methane DRE |
|---|---|---|---|
| RHA-AMINE | Inlet Amine Unit | RHA-FL-5100 | 98% |
| RA2-AMINE | Inlet Amine Unit | RA2-FL-5100 | 98% |
| RH1-AMINE | Secondary Amine Unit | RH2-TO-5500 | 99% |
| RH2-AMINE | Secondary Amine Unit | RH2-TO-5500 | 99% |
| RH4-AMINE | Secondary Amine Unit | RH4-TO-45500 | 99% |
| RH5-AMINE | Secondary Amine Unit | RH5-TO-55500 | 99% |

Due to the variability associated with the life cycle of an injection well, Targa is at this time unable to definitively quantify the remaining capacity of the existing AGI wells. While assumptions can be made based on the original design of the well, factors such as injectate interaction with the reservoir, injection formation pressure increases, and third-party activity surrounding the injection reservoir may significantly impact the facility's ability to realize the estimated, or any, additional injection capacity. All these factors are out of Targa's control. The primary goal of the existing AGI wells is to inject acid gas that has a significant $H_2S$ concentration; losing the ability to do so or being required to reserve capacity for $CO_2$ injection from the

secondary amine units would present significant ambient air impacts, possible violations of the NAAQs/NMAAQs, and extremely unsafe conditions for the operators working at the facility. It is due to this that it was determined that underground injection is not a feasible or quantifiable control technology for the secondary amine units for the purposes of BACT. Targa will continue to utilize the two existing AGI wells (Red hills AGI #1 and Red Hills AGI#3) located onsite to control the $H_2S$ and $CO_2$ emissions from Amine Units RHA-AMINE, and RA2-AMINE. In addition to controlling emissions from the inlet amine units, Targa also plans to incorporate an alternative operating scenario (AOS) to potentially route amine overheads (RH1-AMINE, RH2-AMINE, RH4-AMINE, and RH5-AMINE) to the two existing or any future AGI Class II wells. This is an operational decision for which the facility will not be taking control credit or quantifying a methane DRE. The selection of BACT is outlined in Table 7.2-1.

**Table 7.2-1 BACT Analysis for Amine Still Vents – $CO_2e$**

**Table 7.2-1 BACT Analysis for Amine Units - CO2e**

| | | | | | | |
|---|---|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Thermal Incineration** | **Acid Gas Injection / Carbon Capture and Sequestration** | **Acid Gas Injection / Carbon Capture and Sequestration** | **Proper Design and Operations** |
| | | **Control Technology Description** | A high temperature control device used for disposing of waste gas streams. | Capture and sequester in **an existing** Class VI well, enhanced oil recovery meeting Part 98 subpart RR, or Acid Gas Injection & Class II well | Capture and sequester in **a new** Class VI well, enhanced oil recovery meeting Part 98 subpart RR, or Acid Gas Injection & Class II well | Operate and maintain the equipment in accordance with good air pollution control practices and recommended design. |
| | | **Typical Operating Temperature** | 1100-1600°F | N/A | N/A | N/A |
| | | **Typical Waste Stream Inlet Flow Rate** | 500 - 50,000 scfm | N/A | N/A | N/A |
| | | **Typical Waste Stream Inlet Pollutant Concentration** | 1500 - 3000 ppmv | N/A | N/A | N/A |
| | | **Other Considerations** | Typically not utilized for low-concentration, high-flow organic vapor streams. | Injection capacity of the existing AGI wells will be limited by the operating conditions established within their NMOCD UIC Permits. Injection capacity will be functionally limited by the throughput achievable while limiting their surface injection pressure to 1,767 psig not to exceed 13 MMSCFD. | Additional Delware Mountain Group Acid Gas Injection Wells cannot be added to the facility due to well spacing required established by 19.15.26 NMAC and within NMOCD Hearing order R-22827/R-23087.<br><br>In addition, there are no commercial acid gas injection wells within 25 miles of the facility that are able to accept offsite acid gas from Red Hills | N/A |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for the control of VOC & H2S emissions from amine units. | Not in RBLC for the control of VOC, H2S or CO2e emissions from amine units. | Not in RBLC for the control of VOC, H2S or CO2e emissions from amine units. | Included in RBLC for the control of VOC emissions from amine units. |
| | | **Feasibility Discussion** | Feasible | Feasible only up to realized CO2 well injection capacity. | Technically infeasible | Feasible |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | 99% for methane<br>0% for CO2 | 100% CO2 for Inlet Amine Units: RHA-AMINE and RA2-AMINE (Note 1). It may be possible some of the remaining CO2 injection capacity of the well can be used for CO2 from the secondary Amine Units (Note 2). However, control percent cannot be determined at this time due to the variability of the well operations. Current estimates on injection capacity are theoretical and may not be realized in actual operations. | 100% CO2 (Note 1) | Base Case |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | | | |
| *Step 5.* | **SELECT BACT** | | **Yes, for all Amine Units However, Inlet Amine Units RHA-AMINE and RA2-AMINE already have Acid Gas Injection and therefore, it is proposed to continue.** | **Yes for Inlet Amine Units only since it already exists:<br>RHA-AMINE<br>RA2-AMINE** | | **Yes, Base Case** |
| *Units Subject to Selected BACT* | | | **Thermal Incineration & Proper Design and Operations: RH1-AMINE, RH2-AMINE, RHA-AMINE, RH4-AMINE, RH5-AMINE, RA2-AMINE<br>Acid Gas Injection: RHA-AMINE, RA2-AMINE** | | | |

Notes:

1. Excluding downtime and maintenance
2. CO2 injected from remaining Amine Units will be dependent on realized well capacity and has the potential to be limited in order to comply with existing surface injection pressure restrictions.

# 8. BACT EVALUATION FOR FLARES

The BACT evaluation for combustion emissions from the flares (Units RH1-FL-29-1003, RH2-FL-5100, RH3-FL-5100, RH4-FL-45100, RH5-FL-55100, RHA-FL-5100, RA2-FL-25100, RHA-FL-5850, RA2-FL-25850, and RH1-FL-2850) for $NO_X$, CO, VOC, $SO_2$, and GHG (as $CO_2e$) are provided in Section 8.1. Appendix A provides a summary of RBLC and permit search results.

**Table 8.1 List of Flares with Rated Capacities**

| Equipment Type | Unit ID | Equipment Description |
|---|---|---|
| Flares | RH1-FL-29-1003 | RH1, Flare |
| | RH2-FL-5100 | RH2, Flare |
| | RH3-FL-5100 | RH3, Flare |
| | RH4-FL-45100 | RH4, Flare |
| | RH5-FL-55100 | RH5, Flare |
| | RHA-FL-5100 | RHA, Flare |
| | RA2-FL-25100 | RA2, Flare |
| | RHA-FL-5850 | RHA, Sour Slop Water Storage Tanks Flare |
| | RA2-FL-25850 | RA2, Sour Slop Water Storage Tanks Flare |
| | RH1-FL-2850 | RH1, Condensate Storage Tanks Flare |
| | RH4-FL-46200 (Tank Scenario 1 Only) | RH4, Slop Water Storage Tanks Flare |

## 8.1 $NO_x$, CO, VOC, $SO_2$, $H_2S$ and $CO_2e$ BACT

### 8.1.1 Background on Pollutant Formation

Emissions result from the destruction of gases/vapors from the Red Hills processes. Process vapors, including VOC and $H_2S$, are combusted to reduce emissions to the atmosphere; however, products of combustion including $NO_x$, CO, and $SO_2$ are formed in the process. Smokeless flares are not expected to generate measurable amounts of particulate matter (PM) emissions, so PM has not been calculated for the Red Hills flares. Flares are an example of a control device in which the control of certain pollutants causes the formation of collateral GHG emissions. Specifically, the control of methane in the process gas at the flare results in the creation of additional $CO_2$ emissions. However, given the relative GWPs of $CO_2$ and methane and the destruction of VOC, it is appropriate to apply combustion controls to methane emissions even though it will form additional $CO_2$ emissions.

### 8.1.2 Identify All Available Control Technologies

Using the RBLC search and permit review results, as well as a review of technical literature, potentially applicable control technologies were identified based on the principles of control technology and engineering experience for the Red Hills flares.

Table 8.1-1 outlines the top-down BACT analysis for $NO_X$, CO, VOC, $SO_2$, $H_2S$, and $CO_2e$ emissions from flares.

### 8.1.3 Selection of BACT

The flares will meet the minimum requirements set out in 40 CFR §60.18 (General control device and work practice requirements) with the following control efficiency requirements:

- Destruction efficiency of 98% for VOCs, methane, and $H_2S$;
- No flaring of halogenated compounds allowed.

Based on the review of the RBLC search and other permit review results, Targa has determined that the BACT for flares is good flare design, good combustion, operating and maintenance practices, and use of pipeline-quality natural gas as pilot fuel.

**Table 8.1-2 BACT Analysis for Flares – $NO_x$, CO, VOC, $SO_2$, and $CO_2e$**

**Table 8.1-1 BACT Analysis for Flares - $NO_x$, CO, VOC, $SO_2$, H2S, CO2e**

| | | | | | |
|---|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Pipeline quality natural gas for pilot (for CO, $SO_2$, TSP/$PM_{10}$/$PM_{2.5}$)** | **Good combustion, operating, and maintenance practices (for all criteria pollutants)** | **Good flare design (for all criteria pollutants)** |
| | | **Control Technology Description** | Use of low-sulfur natural gas as fuel results in efficient combustion and low $SO_2$ emissions. | Good combustion and operating practices are a potential control option for improving the combustion efficiency of the flare. Good combustion practices include proper operation, maintenance, and tune-up of the flare at least annually per the manufacturer's specifications. | Good flare design can be employed to destroy large fractions of the flare gas. Good flare design includes pilot flame monitoring, flow measurement, and monitoring/control of waste gas heating value. |
| | | **Other Considerations** | N/A | N/A | N/A |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC | Included in RBLC | Included in RBLC |
| | | **Feasibility Discussion** | Feasible | Feasible | Feasible |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | Base Case | Base Case | Base Case |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | | |
| *Step 5.* | **SELECT BACT** | | **Yes** | **Yes** | **Yes, 98% DRE** |
| *Units Subject to Selected BACT* | | | **RH1-FL-29-1003, RH2-FL-5100, RH3-FL-5100, RH4-FL-45100, RH5-FL-55100, RHA-FL-5100, RA2-FL-25100, RHA-FL-5850, RA2-FL-25850, RH1-FL-2850, RH4-FL-46200 (Tank Scenario 1 Only)** | | |

# 9. BACT EVALUATION FOR THERMAL OXIDIZERS

This section contains the BACT evaluation for combustion emissions from the thermal oxidizers (Units RH2-TO-5500, RH4-TO-45500, and RH5-TO-55500) for $NO_X$, CO, VOC, $SO_2$, TSP/$PM_{10}$/$PM_{2.5}$, and GHG (as $CO_2e$). Appendix A provides a summary of RBLC results.

**Table 9.1 List of Thermal Oxidizers with Rated Capacities**

| Equipment Type | Unit ID | Equipment Description |
|---|---|---|
| Thermal Oxidizers | RH2-TO-5500 | RH2, Thermal Oxidizer |
| | RH4-TO-45500 | RH4, Thermal Oxidizer |
| | RH5-TO-55500 | RH5, Thermal Oxidizer |

## 9.1 $NO_x$ BACT

### 9.1.1 Background on Pollutant Formation

Vapors from the glycol dehydrators and amine units will be routed to thermal oxidizers for control, and some SSM control. Product of combustion emissions, including $NO_x$, will be generated by the combustion of natural gas as well as the combustion of the vapors sent to the oxidizers. Thermal $NO_x$ is the dominant mechanism. Please refer to Section 5.1.1 for a detailed description of $NO_x$ formation.

### 9.1.2 Identify All Available Control Technologies

Using the RBLC search and based on the principles of control technology and engineering experience for the Red Hills thermal oxidizers, potentially applicable control technologies were identified.

### 9.1.3 Selection of BACT

Based on the review of the RBLC search, the selected BACT is included in Table 9.1-1. SCR controls are eliminated as a BACT option due to concerns with feasibility, economically unreasonable costs, and the secondary adverse environmental impact near Class I areas. Targa has determined that $NO_X$ BACT for thermal oxidizers utilize low-$NO_X$ burners; implementing good combustion, operating, and maintenance practices; and use of natural gas as fuel with a limit for $NO_x$ of 0.06 lb/MMBtu.

**Table 9.1-1 BACT Analysis for Thermal Oxidizers – $NO_x$**

**Table 9.1-1 BACT Analysis for Thermal Oxidizer – $NO_x$**

| | | | | | |
|---|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Low $NO_X$ Burners [1,2,3]** | **Selective Catalytic Reduction[1,4]** | **Good Combustion Practices** |
| | | **Control Technology Description** | Reduce $NO_X$ by accomplishing the combustion process in stages. Staging delays the combustion process resulting in a cooler flame which suppresses $NO_X$ formation. | A nitrogen-based reagent (e.g., ammonia, urea) is injected into the exhaust stream downstream of the combustion unit. The reagent reacts selectively with $NO_X$ to produce molecular $N_2$ and water in a reactor vessel containing a metallic or ceramic catalyst. | Operate and maintain the equipment in accordance with good air pollution control practices and with good combustion practices. |
| | | **Typical Operating Temperature** | 1100 - 1400 °F | 480 - 800°F<br>(variations of ± 200°F) | N/A |
| | | **Typical Waste Stream Inlet Flow Rate** | N/A | N/A | N/A |
| | | **Typical Waste Stream Inlet Pollutant Concentration** | N/A | Efficiency improves with increased concentrations up to 150 ppm | N/A |
| | | **Other Considerations** | N/A | Ammonia emissions from an SCR is a precursor that contributes to the formation of fine particulate (PM2.5), and can cause haze and reduced visibility. Red Hills Gas Plant is near two designated Class I areas (Carlsbad Caverns National Park and Guadalupe Mountains National Park). | Oxidizer will be fueled by natural gas, which is a clean fuel that minimizes emissions. |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for the control of $NO_X$ emissions from TOs. | Included in RBLC for the control of $NO_X$ emissions from TOs. | Included in RBLC for the control of $NO_X$ emissions from TOs. |
| | | **Feasibility Discussion** | Feasible | The Thermal Oxidizers have a high operating temperature, above the typical operating temperature of an SCR. Incremental waste heat recovery section(s) might be required. | Feasible |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | 80%[1] | 94%[1] | Base Case |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | ≥$18,000/ton<br>Expected to be no lower than cost for heaters between 50-100 MMBtu/hr | |
| *Step 5.* | **SELECT BACT** | | **Yes, 0.06 lb/MMBtu** | Eliminated due to feasibility concerns, collateral ammonia emissions which will lead to adverse environmental impact to Class I areas, and not economically reasonable. | **Yes** |
| *Units Subject to Selected BACT* | | | **RH2-TO-5500, RH4-TO-45500, RH5-TO-55500** | | |

[1] U.S. EPA, Office of Air Quality Planning and Standards, "Technical Bulletin Nitrogen Oxides (NOx), Why and How They are Controlled" EPA 456/F-99-006R.

[2] U.S. EPA, Office of Air Quality Planning and Standards, "Air Pollution control Technology Fact Sheet (Thermal Incineration)," EPA-452/F-03-022

[3] TCEQ Chemical Sources: Current BACT Spreadsheet, Rev. 03/19/19 [https://www.tceq.texas.gov/permitting/air/nav/air_bact_chemsource.html]

[4] U.S. EPA, Office of Air Quality Planning and Standards, "Air Pollution control Technology Fact Sheet (Selective Catalytic Reduction (SCR))," EPA-452/F-03-032

## 9.2 CO and VOC BACT

### 9.2.1 Background on Pollutant Formation

Vapors from the glycol dehydrators and amine units, including VOC, will be routed to thermal oxidizers for control. Product of combustion emissions, including CO, will be generated by the combustion of natural gas as well as the combustion of the vapors sent to the oxidizers.

### 9.2.2 Identify All Available Control Technologies

Using the RBLC search and permit review results, as well as a review of technical literature, potentially applicable control technologies were identified based on the principles of control technology and engineering experience for the Red Hills thermal oxidizers.

Table 9.2-1 and Table 9.2-2 outline the top-down BACT analysis for CO and VOC emissions from thermal oxidizers. Note that BACT for the control of VOC from the glycol dehydrators and the amine units is addressed in their respective Sections 6 and 7.

### 9.2.3 Selection of BACT

Based on the review of the RBLC search and other permit review results, Targa has determined that the BACT for thermal oxidizers is the implementation of good combustion, operating, and maintenance practices and the use of natural gas as fuel. For CO the proposed emission limit is 0.06 lb/MMBtu and for VOC the emissions will be the permitted emission rates, which consist of Good Combustion Practices & Manufacturer Recommended Operation/Maintenance and 98% DRE for process streams.

**Table 9.2-1 BACT Analysis for Thermal Oxidizers – CO**

**Table 9.2-1 BACT Analysis for Thermal Oxidizer – CO**

| | | | | |
|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Good Combustion Practices** | **Oxidation Catalyst** |
| | | **Control Technology Description** | Operate and maintain the equipment in accordance with good air pollution control practices and with good combustion practices. | |
| | | **Typical Operating Temperature** | N/A | N/A |
| | | **Typical Waste Stream Inlet Flow Rate** | N/A | N/A |
| | | **Typical Waste Stream Inlet Pollutant Concentration** | N/A | N/A |
| | | **Other Considerations** | Oxidizer will be fueled by natural gas, which is a clean fuel that minimizes emissions. | |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for the control of CO & VOC emissions from TOs. | Included in RBLC for the control of CO & VOC emissions from TOs; however, is associated with LAER entry for VOC. |
| | | **Feasibility Discussion** | Feasible | Feasible |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | Base Case | Base Case |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | Anticipated to be no less than the cost estimate for NOx add-on SCR control. |
| *Step 5.* | **SELECT BACT** | | **Yes - Good Combustion Practices & Manufacturer Recommended Operation/Maintenance (0.06 lb/MMBtu)** | |
| *Units Subject to Selected BACT* | | | **RH2-TO-5500, RH4-TO-45500, RH5-TO-55500** | |

**Table 9.2-2 BACT Analysis for Thermal Oxidizers – VOC**

**Table 9.2-2 BACT Analysis for Thermal Oxidizer – VOC**

| | | | | |
|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Good Combustion Practices** | **Oxidation Catalyst** |
| | | **Control Technology Description** | Operate and maintain the equipment in accordance with good air pollution control practices and with good combustion practices. | |
| | | **Typical Operating Temperature** | N/A | N/A |
| | | **Typical Waste Stream Inlet Flow Rate** | N/A | N/A |
| | | **Typical Waste Stream Inlet Pollutant Concentration** | N/A | N/A |
| | | **Other Considerations** | Oxidizer will be fueled by natural gas, which is a clean fuel that minimizes emissions. | |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for the control of CO & VOC emissions from TOs. | Included in RBLC for the control of CO & VOC emissions from TOs; however, is associated with LAER entry for VOC. |
| | | **Feasibility Discussion** | Feasible | Feasible |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | Base Case | Base Case |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | Anticipated to be no less than the cost estimate for NOx add-on SCR control. |
| *Step 5.* | **SELECT BACT** | | **Yes - Good Combustion Practices & Manufacturer Recommended Operation/Maintenance 98% DRE for process streams** | |
| *Units Subject to Selected BACT* | | | **RH2-TO-5500, RH4-TO-45500, RH5-TO-55500** | |

## 9.3 $SO_2$ BACT

### 9.3.1 Background on Pollutant Formation

Vapors from the glycol dehydrators and amine units, including $H_2S$, will be routed to thermal oxidizers for control. Emissions of $SO_2$ are generated by the combustion of sulfur-containing compounds in the natural gas and process vapors sent to the oxidizers.

### 9.3.2 Identify All Available Control Technologies

Using the RBLC search and permit review results, as well as a review of technical literature, potentially applicable control technologies were identified based on the principles of control technology and engineering experience for the Red Hills thermal oxidizers. Table 9.3-1 outlines the top-down BACT analysis for $SO_2$ emissions from thermal oxidizers. Note that BACT for the $H_2S/SO_2$ emissions from the glycol dehydrators and BACT for $H_2S/SO_2$ emissions from the amine units are covered in Sections 6 and 7, respectively; whereas, this section is focused on the fuel-based emissions from the thermal oxidizer.

### 9.3.3 Selection of BACT

Based on the review of the RBLC search and other permit review results, Targa has determined that the BACT for thermal oxidizers uses low-sulfur fuel and implements good combustion, operating, and maintenance practices.

**Table 9.3-1 BACT Analysis for Thermal Oxidizers – $SO_2$**

**Table 9.3-1 BACT Analysis for Thermal Oxidizer – SO2**

| | | | | |
|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Good Combustion Practices** | **Low Sulfur Fuel** |
| | | **Control Technology Description** | Operate and maintain the equipment in accordance with good air pollution control practices and with good combustion practices. | Use of fuel with low sulfur content. |
| | | **Typical Operating Temperature** | N/A | N/A |
| | | **Typical Waste Stream Inlet Flow Rate** | N/A | N/A |
| | | **Typical Waste Stream Inlet Pollutant Concentration** | N/A | N/A |
| | | **Other Considerations** | Oxidizer will be fueled by natural gas, which is a clean fuel that minimizes emissions. | Oxidizer will be fueled by natural gas, which is a low-sulfur fuel that minimizes emissions. |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for the control of $SO_2$ emissions from TOs. | Included in RBLC for the control of $SO_2$ emissions from TOs. |
| | | **Feasibility Discussion** | Feasible | Feasible |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | Base Case | Base Case |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | |
| *Step 5.* | **SELECT BACT** | | **Good Combustion Practices & Low Sulfur Fuel** | |
| *Units Subject to Selected BACT* | | | **RH2-TO-5500, RH4-TO-45500, RH5-TO-55500** | |

## 9.4 TSP/$PM_{10}$/$PM_{2.5}$ and $CO_2e$ BACT

### 9.4.1 Background on Pollutant Formation

Vapors from the glycol dehydrators and amine units will be routed to thermal oxidizers for control. Product of combustion emissions, including particulate matter and $CO_2$, will be generated by the combustion of natural gas as well as the combustion of the vapors sent to the oxidizers. Thermal oxidizers are an example of a control device in which the control of certain pollutants causes the formation of collateral GHG emissions. Specifically, the control of $CH_4$ in the combusted process gas results in the creation of additional $CO_2$ emissions. However, given the relative GWPs of $CO_2$ and $CH_4$ and the destruction of VOC, it is appropriate to apply combustion controls to $CH_4$ emissions even though it will form additional $CO_2$ emissions.

### 9.4.2 Identify All Available Control Technologies

Using the RBLC search and permit review results, as well as a review of technical literature, potentially applicable control technologies were identified based on the principles of control technology and engineering experience for the Red Hills thermal oxidizers.

Table 9.4-1 outlines the top-down BACT analysis for PM and $CO_2e$ emissions from thermal oxidizers.

### 9.4.3 Selection of BACT

Based on the review of the RBLC search and other permit review results, Targa has determined that the BACT for thermal oxidizers is the implementation of good combustion, operating, and maintenance practices and the use of natural gas as fuel.

**Table 9.4-1 BACT Analysis for Thermal Oxidizers – PM & $CO_2e$**

**Table 9.4-1 BACT Analysis for Thermal Oxidizer – PM & $CO_2e$**

| | | | |
|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Good Combustion Practices** |
| | | **Control Technology Description** | Operate and maintain the equipment in accordance with good air pollution control practices and with good combustion practices. |
| | | **Typical Operating Temperature** | N/A |
| | | **Typical Waste Stream Inlet Flow Rate** | N/A |
| | | **Typical Waste Stream Inlet Pollutant Concentration** | N/A |
| | | **Other Considerations** | Oxidizer will be fueled by natural gas, which is a clean fuel that minimizes emissions. |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for the control of PM & $CO_2e$ emissions from TOs. |
| | | **Feasibility Discussion** | Feasible |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | Base Case |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | |
| *Step 5.* | **SELECT BACT** | | **Good Combustion Practices & Manufacturer Recommended Operation/Maintenance** |
| *Units Subject to Selected BACT* | | | **RH2-TO-5500, RH4-TO-45500, RH5-TO-55500** |

# 10. BACT EVALUATION FOR FIXED ROOF TANKS

This section contains the BACT evaluation for VOC and $H_2S$ emissions from the fixed roof tanks summarized in the table below. The pollutant(s) applicable to each set of tanks are identified in the table below.

**Table 10.1 List of Fixed Roof Tanks with Applicable Pollutants**

| Material Stored | Unit IDs | VOC | $H_2S$ |
|---|---|---|---|
| Condensate | RH1-TK-COND-EAST (TK-20101, TK-20102, TK-20103, TK-20104, TK-20105, TK-20106)<br>RH1-TK-COND-WEST (TK-20107, TK-20108, TK-20109, TK-20110, TK-20111, TK-20112) | YES | NO |
| Sour Slop | RHA-TK-SLOP (TK-6100, TK-6200)<br>RA2-TK-SLOP (TK-26100, TK-26200) | YES | YES |
| Methanol | RH-TK-METHANOL | YES | NO |
| Contact Water | RH4-TK-SLOP (TK-46200, TK-46210, TK-46220, TK-46230)<br>RH2-TK-SLOP (TK-6200)<br>RH1-TK-SLOP (TK-33-001, TK-33-002) | YES | NO |

Details are provided in Sections 10.1 through 10.2. RBLC and permit search results are not included for tanks because the control method strategies for storage tanks are so well established. Furthermore, many RBLC results do not indicate the tank service or liquid vapor pressure; therefore, it is not possible to determine which entries are comparable to the Red Hills tanks.

## 10.1 VOC BACT

### 10.1.1 Background on Pollutant Formation

Emissions are formed as a result of working and breathing losses of the tank contents. Transfer to atmospheric storage of pressurized liquid streams containing entrained gases may generate flashing losses. The condensate is processed through a stabilization process before entering the storage tanks. Stabilized condensate has no flashing losses. Only the stored sour slop material is expected to generate flashing losses.

### 10.1.2 Identify All Available Control Technologies

Potentially applicable control technologies were identified based on the principles of control technology and engineering experience for the Red Hills tanks. Table 10.2-1 outlines the top-down BACT analysis for VOC emissions from storage tanks. Note that only two control methods are presented. The use of a combustion device was determined to be the best feasible control method and per the EPA's guidance[27] "If no better control technology is available for an emission point, then such finding should be stated and supported, and no further analysis is required".

[27] U. S. Environmental Protection Agency. *Guidelines for Determining Best Available Control Technology (BACT)*. Office Of Air, Noise, and Radiation, Office of Air Quality Planning and Standards, 1978.

### 10.1.3 Selection of BACT

The proposed BACT control method for facility tanks, except for methanol tanks and contact water tanks, is the use of fixed roof storage tanks vented to combustion controls. Specifically, use of flare or enclosed combustion device controls capable of achieving a minimum 98% destruction efficiency. Based on the small capacity and low emission level for the methanol tanks and contact water tanks, fixed roof design with submerged fill is proposed as BACT. Emissions and flow rates from the methanol and contact water tanks are at such low levels that assist gas would be needed to combust the vapors from the tanks, leading to collateral emission increases, further supporting the proposed BACT for these tanks.

**Table 10.2-1 BACT Analysis for Fixed Roof Tanks – VOC**

**Table 10.1-1 BACT Analysis for Fixed Roof Tanks - VOC**

| | | | | |
|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Closed Vent System to Combustion Device (e.g., Flare[1] or Thermal Oxidizer[2])** | **Submerged fill** |
| | | **Control Technology Description** | A control device that uses thermal combustion to reduce emissions of captured waste gas streams. | The use of submerged fill during tank loading operations can reduce vaporization of the liquid compared to traditional splash loading. |
| | | **Typical Operating Temperature** | Flare: 1,000 - 2,000 °F<br>Oxidizer: 1,100 - 1,200 °F | N/A |
| | | **Typical Waste Stream Inlet Flow Rate** | Flare: 100,000 lb/hr - 2 MM lb/hr<br>Oxidizer: 500 - 50,000 scfm | N/A |
| | | **Typical Waste Stream Inlet Pollutant Concentration** | Flare: minimum 300 Btu/scf<br>Oxidizer: 1,500 - 3,000 ppmv | N/A |
| | | **Other Considerations** | Typically not utilized for low-concentration, high-flow organic vapor streams. | Use of submerged fill is a control technique specific to the filling of a tank. |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **Feasibility Discussion** | Feasible | Feasible |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | 98%+ | Choosing a higher ranked control technology; therefore, no further evaluation required. |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | |
| *Step 5.* | **SELECT BACT*** | | **Yes, 98% for Condensate and Sour Slop tanks** | **Yes, for All Tanks** |
| *Units Subject to Selected BACT* | | | **Condensate & Sour Slop: RH1-TK-COND-EAST, RH1-TK-COND-WEST, RHA-TK-SLOP, RA2-TK-SLOP**<br>**Methanol & Contact: RH-TK-METHANOL, RH4-TK-SLOP, RH2-TK-SLOP, RH1-TK-SLOP** | |

[1] U.S. EPA, Office of Air Quality Planning and Standards, "Air Pollution control Technology Fact Sheet (Flare)," EPA-452/F-03-019

[2] U.S. EPA, Office of Air Quality Planning and Standards, "Air Pollution control Technology Fact Sheet (Thermal Incineration)," EPA-452/F-03-022

* As use of combustion device controls is the most protective option, other options are not considered.

## 10.2 $H_2S$ BACT

### 10.2.1 Background on Pollutant Formation

Like VOC, $H_2S$ emissions are formed as a result of working, and breathing losses of the tank contents. Transfer to atmospheric storage of pressurized liquid streams containing entrained gases may generate flashing losses. The only material stored at Red Hills expected to emit $H_2S$ is sour slop. The stored sour slop material is expected to generate flashing losses.

### 10.2.2 Identify All Available Control Technologies

Potentially applicable control technologies were identified based on the principles of control technology and engineering experience for the Red Hills tanks. Table 10.2-1 outlines the top-down BACT analysis for $H_2S$ emissions from storage tanks. Note that only one control method is presented following the EPA's instruction[28] that "If no better control technology is available for an emission point, then such finding should be stated and supported, and no further analysis is required".

### 10.2.3 Selection of BACT

The proposed BACT control method for facility sour slop storage tanks is the use of fixed roof storage tanks vented to combustion controls. Specifically, use of flare or combustor controls capable of achieving a minimum 98% destruction efficiency.

[28] U. S. Environmental Protection Agency. *Guidelines for Determining Best Available Control Technology (BACT)*. Office Of Air, Noise, and Radiation, Office of Air Quality Planning and Standards, 1978.

**Table 10.2-1 BACT Analysis for Sour Slop Fixed Roof Tanks – $H_2S$**

**Table 10.2-1 BACT Analysis for Sour Slop Fixed Roof Tanks - $H_2S$**

| | | | | |
|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Closed Vent System to Combustion Device (e.g., Flare[1] or Thermal Oxidizer[2])** | **Submerged fill** |
| | | **Control Technology Description** | A control device that uses thermal combustion to reduce emissions of captured waste gas streams. | The use of submerged fill during tank loading operations can reduce vaporization of the liquid compared to traditional splash loading. |
| | | **Typical Operating Temperature** | Flare: 1,000 - 2,000 °F<br>Oxidizer: 1,100 - 1,200 °F | N/A |
| | | **Typical Waste Stream Inlet Flow Rate** | Flare: 100,000 lb/hr - 2 MM lb/hr<br>Oxidizer: 500 - 50,000 scfm | N/A |
| | | **Typical Waste Stream Inlet Pollutant Concentration** | Flare: minimum 300 Btu/scf<br>Oxidizer: 1,500 - 3,000 ppmv | N/A |
| | | **Other Considerations** | Typically not utilized for low-concentration, high-flow organic vapor streams.<br>Incinerators generally not recommended for gases containing sulfur compounds because of formation of $SO_2$ or other acid gases. | Use of submerged fill is a control technique specific to the filling of a tank. |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **Feasibility Discussion** | Feasible | Feasible |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | 98%+ | Choosing a higher ranked control technology; therefore, no further evaluation required. |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | |
| *Step 5.* | **SELECT BACT*** | | **Yes, 98%** | **Yes** |
| *Units Subject to Selected BACT* | | | **RHA-TK-SLOP, RA2-TK-SLOP** | |

[1] U.S. EPA, Office of Air Quality Planning and Standards, "Air Pollution control Technology Fact Sheet (Flare)," EPA-452/F-03-019

[2] U.S. EPA, Office of Air Quality Planning and Standards, "Air Pollution control Technology Fact Sheet (Thermal Incineration)," EPA-452/F-03-022

* As use of combustion device controls is the most protective option, other options are not considered.

# 11. BACT EVALUATION FOR LOADING

This section contains the BACT evaluation for VOC and $H_2S$ emissions from the loading categories summarized in the table below. The pollutant(s) applicable to each type of loading activity are identified.

**Table 11.1 List of Materials Loaded and Associated Pollutants**

| Material Loaded | Unit IDs | VOC | $H_2S$ |
|---|---|---|---|
| Condensate | RH1-TK-COND-WEST-LOAD | YES | NO |
| Sour Slop | RHA-TK-SLOP-LOAD, RA2-TK-SLOP-LOAD | YES | YES |
| Contact Water | RH4-TK-SLOP-LOAD, RH2-TK-SLOP-LOAD, RH1-TK-SLOP-LOAD | YES | NO |

Details are provided in Sections 11.1 through 11.2. Appendix A provides a summary of RBLC search results.

## 11.1 VOC BACT

### 11.1.1 Background on Pollutant Formation

Emissions can be generated due to loading losses that occur as condensate product is transferred from the facility tanks to tank trucks.

### 11.1.2 Identify All Available Control Technologies

Using the RBLC search, potentially applicable control technologies were identified based on the principles of control technology and engineering experience for the Red Hills tanks and truck loading. Table 11.1-1 outlines the top-down BACT analysis for VOC emissions from truck loading for VOC.

### 11.1.3 Selection of BACT

The proposed BACT control method for loading condensate and sour slop is submerged fill and vapor balancing service, with return vapors routed to combustion controls, such as a flare or enclosed combustion device controls capable of achieving a minimum 98% destruction efficiency.

For the truck loading of contact water, the proposed BACT control method is submerged fill. The vapor stream generated from loading water consists of mostly water vapor and has a low heating value such that it is not efficient or cost-effective to combust the loading vapors from loading contact water.

**Table 11.1-1 BACT Analysis for Loading Condensate/Slop – VOC**

**Table 11.1-1. BACT Analysis for Loading Condensate/Slop/Contact Water - VOC**

| | | | | | |
|---|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Combustion Device / Vapor Balance to Combustion Device (e.g., Flare[1] or Thermal Oxidizer[2])** | **Pipeline Transfer** | **Submerged loading** |
| | | **Control Technology Description** | A control device that uses thermal combustion to reduce emissions of captured waste gas streams. For loading, this consists of loading via vapor balance back to the tank for any loading vapors to be controlled with a combustion device. | Material is transferred from the facility via pipeline thereby avoiding generation of loading emissions. | Submerged loading involves use of a fill pipe that extends almost to the bottom of the cargo tank so liquid splashing is minimized during filling. |
| | | **Typical Operating Temperature** | Flare: 1,000 - 2,000 °F<br>Oxidizer: 1,100 - 1,200 °F | N/A | N/A |
| | | **Typical Waste Stream Inlet Flow Rate** | Flare: 100,000 lb/hr - 2 MM lb/hr<br>Oxidizer: 500 - 50,000 scfm | N/A | N/A |
| | | **Typical Waste Stream Inlet Pollutant Concentration** | Flare: minimum 300 Btu/scf<br>Oxidizer: 1,500 - 3,000 ppmv | N/A | N/A |
| | | **Other Considerations** | Flare & Oxidizer: Typically not utilized for low-concentration, high-flow organic vapor streams. | N/A | N/A |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC | Not included in RBLC | Included in RBLC for control of emissions from truck loading |
| | | **Feasibility Discussion** | **Feasible** | **Infeasible, pipeline transfer requires a modification to the facility process.** | **Feasible** |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | 98%+ | 100% | 40%-60% |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | Pipeline transfer is only a viable option for certain materials. The cost to install a LACT and pipeline addition would be approximately $4 million for transfer of sour slop. For control of VOC, the cost would exceed $2.5 million/ton of VOC controlled, since VOC emissions from sour slop loading are less than the H2S emissions (see Table 11.2-1). Therefore, at this time removal of sour slop through a pipeline is considered economically infeasible. | |
| *Step 5.* | **SELECT BACT*** | | **Yes, for condensate loading and sour slop** | | **Yes, for contact water loading, condensate loading, and sour slop loading** |
| *Units Subject to Selected BACT* | | | **RH-1TK-COND-WEST-LOAD, RHA-TK-SLOP-LOAD, RA2-TK-SLOP-LOAD, RH4-TK-SLOP-LOAD, RH2-TK-SLOP-LOAD, RH1-TK-SLOP-LOAD** | | |

[1] U.S. EPA, Office of Air Quality Planning and Standards, "Air Pollution control Technology Fact Sheet (Flare)," EPA-452/F-03-019

[2] U.S. EPA, Office of Air Quality Planning and Standards, "Air Pollution control Technology Fact Sheet (Thermal Incineration)," EPA-452/F-03-022

* As use of combustion device controls is the most protective feasible option, other options are not considered.

[3] Except for minimal timeframes when the pipeline is unavailable.

## 11.2 $H_2S$ BACT

### 11.2.1 Background on Pollutant Formation

Emissions are generated due to loading losses that occur as the product is transferred from the facility tanks to tank trucks. The only loaded material at Red Hills expected to emit $H_2S$ is sour slop.

### 11.2.2 Identify All Available Control Technologies

Using the RBLC search potentially applicable control technologies were identified based on the principles of control technology and engineering experience for the Red Hills tanks and truck loading. Table 11.2-1 outlines the top-down BACT analysis for $H_2S$ emissions from truck loading. The best control method identified, though not feasible, is included for completeness.

### 11.2.3 Selection of BACT

The proposed BACT control method for truck loading is submerged fill and vapor balancing service, with return vapors routed to combustion controls. Specifically, use of flare or enclosed combustion device controls capable of achieving a minimum 98% destruction efficiency.

**Table 11.2-1. BACT Analysis for Loading Sour Slop – $H_2S$**

**Table 11.2-1 BACT Analysis for Loading Sour Slop - $H_2S$**

| | | | | | |
|---|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Combustion Device / Vapor Balance to Combustion Device (e.g., Flare[1] or Thermal Oxidizer[2])** | **Pipeline Transfer** | **Submerged loading** |
| | | **Control Technology Description** | A control device that uses thermal combustion to reduce emissions of captured waste gas streams. For loading, this consists of loading via vapor balance back to the tank for any loading vapors to be controlled with a combustion device. | Material is transferred from the facility via pipeline thereby avoiding generation of loading emissions. | Submerged loading involves use of a fill pipe that extends almost to the bottom of the cargo tank so liquid splashing is minimized during filling. |
| | | **Typical Operating Temperature** | Flare: 1,000 - 2,000 °F<br>Oxidizer: 1,100 - 1,200 °F | N/A | N/A |
| | | **Typical Waste Stream Inlet Flow Rate** | Flare: 100,000 lb/hr - 2 MM lb/hr<br>Oxidizer: 500 - 50,000 scfm | N/A | N/A |
| | | **Typical Waste Stream Inlet Pollutant Concentration** | Flare: minimum 300 Btu/scf<br>Oxidizer: 1,500 - 3,000 ppmv | N/A | N/A |
| | | **Other Considerations** | Typically not utilized for low-concentration, high-flow organic vapor streams. | N/A | N/A |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC | Not included in RBLC | Included in RBLC for control of emissions from truck loading |
| | | **Feasibility Discussion** | **Feasible** | **Infeasible, pipeline transfer requires a modification to the facility process.** | **Feasible** |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | 98%+ | 100% | 40%-60% |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | Pipeline transfer is only a viable option for certain materials. The cost to install a LACT and pipeline addition would be approximately $4 million. For control of 1.6 tpy of H2S, this would equate to about $2.5 million/ton of H2S controlled. Therefore, at this time removal of sour slop through a pipeline is considered economically infeasible. | |
| *Step 5.* | **SELECT BACT*** | | **Yes, 98%** | Eliminated since economically infeasible | **Yes** |
| *Units Subject to Selected BACT* | | | **RHA-TK-SLOP-LOAD, RA2-TK-SLOP-LOAD** | | |

[1] U.S. EPA, Office of Air Quality Planning and Standards, "Air Pollution control Technology Fact Sheet (Flare)," EPA-452/F-03-019

[2] U.S. EPA, Office of Air Quality Planning and Standards, "Air Pollution control Technology Fact Sheet (Thermal Incineration)," EPA-452/F-03-022

* As use of combustion device controls is the most protective feasible option, other options are not considered.

# 12. BACT EVALUATION FOR FUGITIVES

This section contains the BACT evaluation for VOC, $H_2S$, and $CO_2e$ emissions from the facility-wide fugitive components (Units RH-FUG-1, RH-FUG-2, RHA-FUG, and RA2-FUG). Details are provided in Sections 12.1 through 12.2. Appendix A provides a summary of RBLC and permit search results.

**Table 12.1 List of Fugitives**

| Equipment Type | Unit ID | Equipment Description |
|---|---|---|
| Fugitives | RH-FUG-1 | RH1, Fugitive Emissions |
| | RH-FUG-2 | RH, Fugitive Emissions |
| | RHA-FUG | RHA, Fugitive Emissions |
| | RA2-FUG | RA2, Fugitive Emissions |

## 12.1 VOC and $CO_2e$ BACT

### 12.1.1 Background on Pollutant Formation

Emissions are generated due to leaks from piping components and associated equipment such as valves, connectors, or compressor seals.

### 12.1.2 Identify All Available Control Technologies

Using the RBLC search and permit review results, as well as a review of technical literature, potentially applicable control technologies were identified based on the principles of control technology and engineering experience for the Red Hills equipment fugitives.

Table 12.1-1 outlines the top-down BACT analysis for VOC and $CO_2e$ emissions from fugitives.

### 12.1.3 Selection of BACT for VOC

Monitoring will be conducted at the facility following the requirements established in 20.2.50 NMAC.[29] Any leaks discovered will be repaired in accordance with 20.2.50 NMAC.29 The selected BACT for the fugitives was compared to the RBLC results. Several facilities proposed implementation of LDAR as BACT for fugitive emissions. 20.2.50 NMAC implements technologies that exist within LDAR and are more stringent.29 20.2.50 NMAC requires monthly optical gas imaging (OGI) and weekly audio, visual, and olfactory (AVO) monitoring, while 40 CFR Part 60 Subpart OOOOb only requires bi-monthly LDAR monitoring.29

Since Targa is implementing the most effective control options available, additional analysis is not necessary. In addition, because fugitive VOC and $CO_2e$ emissions are estimations only, Targa proposes no numerical BACT limit, but rather proposes to comply with the AVO, EPA Method 21, and OGI provisions detailed in 20.2.50 NMAC.29

[29] 20.2.50 NMAC – To establish emission standards for VOC and NOx for oil and gas production, processing, compression, and transmissions sources.

**Table 12.1-1 BACT Analysis for Fugitives – VOC & $CO_2e$**

**Table 12.1-1 BACT Analysis for Fugitives - VOC & $CO_2e$**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Monitoring and Repair Program under 20.2.50 NMAC** | **Installation of Leakless Equipment** | **Alternative Monitoring Program - Infrared Technologies** | **Audio/Visual/Olfactory (AVO) Monitoring Program** | **Use High Quality Components and Materials of Construction Compatible with Process** |
| | | **Control Technology Description** | Leaking fugitive components can be identified through the use of AVO, EPA Method 21, and optical gas imaging (OGI) technology. The facility is required to comply with the monitoring and repair requirements per 20.2.50 NMAC. | Leakless technology valves are available and currently in use, primarily where highly toxic or otherwise hazardous materials are used. | Alternate monitoring programs have been proven effective in leak detection and repair. The use of sensitive infrared camera technology has become widely accepted as a cost effective means for identifying leaks of hydrocarbons. | Leaking fugitive components can be identified through audio, visual, or olfactory (AVO) methods. | The use of high quality equipment that is designed for the specific service in which it is employed results in effective control of fugitive emissions |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC | Included in RBLC | Included in RBLC | Included in RBLC | Included in RBLC |
| | | **Feasibility Discussion** | Technically feasible. | Technically Infeasible. Used for highly toxic or otherwise hazardous material; not implemented or included in RBLC for VOC streams at gas plants. | Technically feasible. | Technically feasible for particularly odorous materials and detection of larger leaks. | Technically feasible. |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | Varies with 20.2.50 NMAC and type of facility. | | Included in the chosen control technology; therefore, no further evaluation required. | Included in the chosen control technology; therefore, no further evaluation required. AVO is conducted weekly. | Choosing a higher ranked control technology; therefore, no further evaluation required. |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | | | | |
| *Step 5.* | **SELECT BACT** | | **Comply with 20.2.50.116 NMAC by completing monthly optical gas imaging (OGI).** | | | | |
| *Units Subject to Selected BACT* | | | **RH-FUG-1, RH-FUG-2, RHA-FUG, RA2-FUG** | | | | |

a. EPA document "Leak Detection and Repair - A Best Practices Guide" (http://www.epa.gov/Compliance/resources/publications/assistance/ldarguide.pdf)

## 12.2 $H_2S$ BACT

### 12.2.1 Background on Pollutant Formation

Emissions are generated due to leaks from piping components and associated equipment such as valves, connectors, or compressor seals.

### 12.2.2 Identify All Available Control Technologies

Using the RBLC search and permit review results, as well as a review of technical literature, potentially applicable control technologies were identified based on the principles of control technology and engineering experience for the Red Hills equipment fugitives. Table 12.2-1 outlines the top-down BACT analysis for $H_2S$ emissions from fugitives.

### 12.2.3 Selection of BACT for $H_2S$

Monitoring will be conducted at the facility following the protocol established in 20.2.50 NMAC.[30] While 20.2.50 NMAC requirements are focused on VOC emission reduction, the same monitoring and actions taken for VOC will also result in minimizing $H_2S$ emissions. Any leaks discovered will be repaired as required in 20.2.50 NMAC.[29] The selected BACT for the fugitives was compared to the RBLC results. All RBLC results for $H_2S$ proposed implementation of LDAR as BACT for fugitive emissions. 20.2.50 NMAC implements technologies that exist within LDAR and are more stringent.[30] 20.2.50 NMAC requires monthly optical gas imaging (OGI) and weekly audio, visual, and olfactory (AVO) monitoring, while 40 CFR Part 60 Subpart OOOOb only requires bi-monthly LDAR monitoring.[29]

Since Targa is implementing the most effective control options available, additional analysis is not necessary. In addition, because fugitive $H_2S$ emissions are estimations only, Targa proposes no numerical BACT limit; but rather proposes to comply with the AVO, EPA Method 21, and OGI provisions detailed in 20.2.50 NMAC.[29]

[30] 20.2.50 NMAC – To establish emission standards for VOC and NOx for oil and gas production, processing, compression, and transmissions sources.

## Table 12.2-1. BACT Analysis for Fugitives – $H_2S$

**Table 12.2-1 BACT Analysis for Fugitives - $H_2S$**

| | | | | | | |
|---|---|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Monitoring and Repair Program under 20.2.50 NMAC** | **Installation of Leakless Equipment** | **Audio/Visual/Olfactory (AVO) Monitoring Program** | **Use High Quality Components and Materials of Construction Compatible with Process** |
| | | **Control Technology Description** | Leaking fugitive components can be identified through the use of AVO, EPA Method 21, and optical gas imaging (OGI) technology. The facility is required to comply with the monitoring and repair requirements per 20.2.50 NMAC | Leakless technology valves are available and currently in use, primarily where highly toxic or otherwise hazardous materials are used. | Leaking fugitive components can be identified through audio, visual, or olfactory (AVO) methods. | The use of high quality equipment that is designed for the specific service in which it is employed results in effective control of fugitive emissions |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC | Not included in RBLC for control of $H_2S$ emissions from fugitives | Not included in RBLC for control of H2S emissions from fugitives | Not included in RBLC for control of H2S emissions from fugitives |
| | | **Feasibility Discussion** | Technically feasible. | Technically Infeasible. Used for highly toxic or otherwise hazardous material; not implemented or included in RBLC for VOC streams at gas plants. | Technically feasible for particularly odorous materials and detection of larger leaks. | Technically feasible. |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | Varies with 20.2.50 NMAC and type of facility. | | Included in the chosen control technology; therefore, no further evaluation required. | Choosing a higher ranked control technology; therefore, no further evaluation required. |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | | | |
| *Step 5.* | **SELECT BACT** | | **Comply with 20.2.50.116 NMAC by completing monthly optical gas imaging (OGI).** | | | |
| *Units Subject to Selected BACT* | | | **RH-FUG-1, RH-FUG-2, RHA-FUG, RA2-FUG** | | | |

a. EPA document "Leak Detection and Repair - A Best Practices Guide" (http://www.epa.gov/Compliance/resources/publications/assistance/ldarguide.pdf)

# 13. BACT EVALUATION FOR HAUL ROADS

The BACT evaluation for total suspended particles (TSP) and particulate matter (PM) emissions, including particulate matter less than 10 microns ($PM_{10}$) and particulate matter less than 2.5 microns ($PM_{2.5}$), from the haul road (Unit RH-HAUL) for TSP/$PM_{10}$/$PM_{2.5}$ are provided in Section 13.1. Appendix A provides a summary of RBLC and permit search results.

**Table 13.1 List of Haul Roads**

| Equipment Type | Unit ID | Equipment Description |
|---|---|---|
| Haul Road | RH-HAUL | RH, Haul Road Emissions |

## 13.1 TSP/$PM_{10}$/$PM_{2.5}$ BACT

### 13.1.1 Background on Pollutant Formation

Haul roads have the potential to generate dust particles as vehicles traveling on the roads cause particles on the surface of the roads to become suspended in the atmosphere. The particle loading of the road surfaces is an indicator of the potential for vehicles traveling on the roads to generate these suspended dust particles. Unpaved haul roads have a higher potential for particle loading than paved haul roads, as vehicles traveling on unpaved roads can cause pulverization of the unpaved road surface, and the pulverized material contributes to the particle loading of the road.

The dust particles that are generated as vehicles travel on haul roads are filterable particulate matter ($PM_{10}$/$PM_{2.5}$). Therefore, the BACT evaluation for the haul roads addresses filterable particulate matter.

### 13.1.2 Identify All Available Control Technologies

Using the RBLC search and permit review results, as well as a review of technical literature, potentially applicable control technologies were identified based on the principles of control technology and engineering experience for the haul roads.

Table 13.1-1 outlines the top-down BACT analysis for TSP/$PM_{10}$/$PM_{2.5}$ emissions from haul roads.

### 13.1.3 Selection of BACT for TSP/$PM_{10}$/$PM_{2.5}$

Targa proposes to limit the speed of haul trucks to 25 mph by posting speed limit signs at regular intervals along the haul road. Targa will also apply an aggregate base course. This will result in a 44% and 60% control of the particulate matter emissions respectively. An overall control of 78% has been applied to the estimated emissions.

**Table 13.1-1 BACT Analysis for Haul Roads – TSP/$PM_{10}$/$PM_{2.5}$**

**Table 13.1-1 BACT Analysis for Haul Roads - TSP, $PM_{10}$, and $PM_{2.5}$**

| | | | | | |
|---|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Base Course** | **Water Application** | **Paved Roads** |
| | | **Control Technology Description** | A limit on the speed of the vehicular traffic and use of aggregate base course prevents disturbance of particulate matter from the surface of the road. | Spraying water and/or dust suppressants on the roads has been found to reduce fugitive emissions from unpaved haul roads. | A durable surface material like asphalt or concrete is laid out on the road, to sustain vehicular traffic. |
| | | **Typical Operating Temperature** | N/A | N/A | N/A |
| | | **Typical Waste Stream Inlet Flow Rate** | N/A | N/A | N/A |
| | | **Typical Waste Stream Inlet Pollutant Concentration** | N/A | N/A | N/A |
| | | **Other Considerations** | N/A | N/A | N/A |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC | Included in RBLC | Included in RBLC |
| | | **Feasibility Discussion** | Feasible | Technically infeasible based on the very limited availability of water in the facility's proposed location as well as meteorological and climatological conditions at facility. | Technically infeasible for industrial roads which are subject to very heavy vehicles and pavement breakage. Paving is not common for O&G facilities in the area. |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | Since the emissions from this source are minor, limiting the speed to 25 mph at the facility provides a 44% control, and base course provides a 60% control. These controls provide a cost effective method of reducing emissions. | | |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | | |
| *Step 5.* | **SELECT BACT** | | **Limit Speed, Use of Aggregate Base Course, 78% Reduction** | | |
| *Units Subject to Selected BACT* | | | **RH-HAUL** | | |

# 14. BACT EVALUATION FOR SSM

The BACT evaluation for the SSM activities for VOC and $H_2S$, as well as $NO_X$, CO, $SO_2$, TSP/$PM_{10}$/$PM_{2.5}$ is provided in Section 14.1. Appendix A provides a summary of RBLC and permit search results. No GHG BACT is evaluated for the SSM activities.

**Table 14.1 List of SSM Activities**

| Equipment Type | Unit ID | Equipment Description |
|---|---|---|
| Startup, Shutdown, and Maintenance Activities | RH1-SSM | RH1, SSM |
| | RH2-SSM | RH2, SSM |
| | RH3-SSM | RH3, SSM |
| | RH4-SSM | RH4, SSM |
| | RH5-SSM | RH5, SSM |
| | RH6-SSM | RH6, SSM |
| | RHA-SSM | RHA, SSM |
| | RA2-SSM | RA2, SSM |
| | RH2-TO-5500-SSM | RH2, Thermal Oxidizer, SSM |
| | RH4-TO-45500-SSM | RH4, Thermal Oxidizer, SSM |
| | RH5-TO-55500-SSM | RH5, Thermal Oxidizer, SSM |

## 14.1 BACT for SSM

### 14.1.1 Background on Pollutant Formation

VOC and $H_2S$ emissions are emitted as a result of startup, shutdown, and maintenance activities such as during plant turnarounds, pigging, purging, and other maintenance. Products of combustion including $NO_X$, CO, and $SO_2$ will be generated by the combustion of vapors sent to the flare or combustion unit for control.

### 14.1.2 Identify All Available Control Technologies

Using the RBLC search and permit review results, as well as a review of technical literature, potentially applicable control technologies were identified based on the principles of control technology and engineering experience for SSM activities. Table 14.1-1 outlines the top-down BACT analysis for VOC and $H_2S$. Table 14.1-2 outlines the top-down BACT analysis for $NO_X$, CO, $SO_2$, and TSP/$PM_{10}$/$PM_{2.5}$.

### 14.1.3 Selection of BACT for SSM

The most stringent RBLC and permit entries for SSM control are provided in Appendix A. Red Hills has chosen to send SSM emissions to a flare for VOC and $H_2S$ BACT with a 98% DRE during plant turnarounds and routine plant maintenance for activities that can reasonably be routed to the flare. Certain activities are limited by the presence of high differential pressure, insufficient flow or volume, temperature issues, chemical composition suitability, and physical constraints relative to the flare. For startup, shutdown, and

maintenance activities, BACT for $NO_x$, CO, $SO_2$, and TSP/$PM_{10}$/$PM_{2.5}$ is good combustion, operating, and maintenance practices. For vapors that will be controlled with a flare, such as during equipment deinventory and purging, refer to the flare section for details.

**Table 14.1-1 BACT Analysis for SSM – VOC, $H_2S$**

**Table 14.1-1 BACT Analysis for Startup, Shutdown, and Maintenance Emissions - VOC, $H_2S$**

| | | | | |
|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Vent SSM Emissions to Control Device** | **Operating and Maintenance Practices** |
| | | **Control Technology Description** | A high temperature control device used for disposing of waste gas streams. | Operate and maintain the equipment in accordance with good air pollution control practices and with good combustion practices. |
| | | **Other Considerations** | SSM activities that will be controlled are limited by the presence of high differential pressure relative to the control device, insufficient flow or volume, temperature issues, chemical composition suitability, and physical constraints. | N/A |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC. | Included in RBLC. |
| | | **Feasibility Discussion** | Low-emitting activities, non-routable activities, and fugitive SSM emissions will be excluded from BACT. Non-routable emissions encompass streams with high differential pressure relative to the control device, insufficient flow or volume, temperature issues, chemical composition suitability, and physical constraints. | Feasible |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | Flare: 98% | Base Case |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | |
| *Step 5.* | **SELECT BACT** | | **100% capture efficiency and 98% DRE where feasible.** | |
| *Units Subject to Selected BACT* | | | **RH1-SSM, RH2-SSM, RH3-SSM, RH4-SSM, RH5-SSM, RH6-SSM, RHA-SSM, RA2-SSM, RH2-TO-5500-SSM, RH4-TO-45500-SSM, RH5-TO-55500-SSM** | |

**Table 14.1-2 BACT Analysis for SSM – $NO_x$, CO, $SO_2$, TSP/$PM_{10}$/$PM_{2.5}$**

**Table 14.1-2 BACT Analysis for Startup, Shutdown, and Maintenance Emissions - $NO_x$, CO, $SO_2$, TSP/$PM_{10}$/$PM_{2.5}$**

| | | | | |
|---|---|---|---|---|
| *Step 1.* | **IDENTIFY AIR POLLUTION CONTROL TECHNOLOGIES** | **Control Technology** | **Good Combustion & Fuel Selection** | **Good Operating and Maintenance Practices** |
| | | **Control Technology Description** | Operation at the appropriate oxygen range and temperature to promote complete combustion and minimize pollutant formation. Select clean natural gas fuel that is primarily methane and ethane and of low sulfur to reduce emissions. | Operate and maintain the equipment in accordance with good air pollution control practices and with good combustion practices. |
| | | **Other Considerations** | Flare is used to control gaseous streams. | N/A |
| *Step 2.* | **ELIMINATE TECHNICALLY INFEASIBLE OPTIONS** | **RBLC Database Information** | Included in RBLC for the control of NOx, CO, SO2, TSP/PM10/PM2.5 | Included in RBLC. |
| | | **Feasibility Discussion** | Feasible | Feasible |
| *Step 3.* | **RANK REMAINING CONTROL TECHNOLOGIES** | **Overall Control Efficiency** | Base Case | Base Case |
| *Step 4.* | **EVALUATE AND DOCUMENT MOST EFFECTIVE CONTROLS** | **Cost Effectiveness ($/ton)** | | |
| *Step 5.* | **SELECT BACT** | | **Good combustion, operating, and maintenance practices. Emission rates as determined in calculations** | |
| *Units Subject to Selected BACT* | | | **RH1-SSM, RH2-SSM, RH3-SSM, RH4-SSM, RH5-SSM, RH6-SSM, RHA-SSM, RA2-SSM, RH2-TO-5500-SSM, RH4-TO-45500-SSM, RH5-TO-55500-SSM** | |

# APPENDIX A. RBLC TABLES

# RBLC Results for Combustors

**Search Criteria**
Permit Date Between 01/01/2014 And 04/30/2024
And Process Contains 'combustor'
*results filtered to exclude solid waste combustors*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizers | Carbon Dioxide Equivalent (CO2e) | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | Vapor Combustor | Carbon Dioxide Equivalent (CO2e) | good combustion practices and use of gaseous fuel | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizers | Carbon Monoxide | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | Vapor Combustor | Carbon Monoxide | good combustion practices and use of gaseous fuel | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | Vapor Combustor | Particulate matter, filterable <10 µm (FPM10) | good combustion practices and use of gaseous fuel | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | Vapor Combustor | Particulate matter, filterable <2.5 µm (FPM2.5) | good combustion practices and use of gaseous fuel | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizers | Particulate matter, total <10 µm (TPM10) | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizers | Particulate matter, total <2.5 µm (TPM2.5) | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizers | Sulfur Dioxide (SO2) | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizers | Volatile Organic Compounds (VOC) | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| TX-0844 | OXY INGLESIDE ENERGY CENTER | 7/25/2018 | VAPOR COMBUSTOR UNITS | Volatile Organic Compounds (VOC) | best combustion practices | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | Vapor Combustor | Volatile Organic Compounds (VOC) | good combustion practices and use of gaseous fuel | 0 | |

## RBLC Results for Combustors

**Search Criteria**
Permit Date Between 01/01/2014 And 04/30/2024
And Process Contains 'combustor'
*results filtered to exclude solid waste combustors*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| LA-0291 | LAKE CHARLES CHEMICAL COMPLEX GTL UNIT | 5/23/2014 | Vapor Combustor (EQT 834) | Sulfur Dioxide (SO2) | Compliance with 40 CFR 63 Subpart FFFF | 0.003 | LB/HR |
| LA-0291 | LAKE CHARLES CHEMICAL COMPLEX GTL UNIT | 5/23/2014 | Vapor Combustor (EQT 834) | Particulate matter, total <10 µm (TPM10) | Compliance with 40 CFR 63 Subpart FFFF | 0.04 | LB/HR |
| LA-0291 | LAKE CHARLES CHEMICAL COMPLEX GTL UNIT | 5/23/2014 | Vapor Combustor (EQT 834) | Particulate matter, total <2.5 µm (TPM2.5) | Compliance with 40 CFR 63 Subpart FFFF | 0.04 | LB/HR |
| TX-0879 | MOTIVA PORT ARTHUR TERMINAL | 2/19/2020 | VAPOR COMBUSTOR | Volatile Organic Compounds (VOC) | Good design and combustion practices (collateral emissions only) Monitor temperature. | 0.138 | LB/MMBTU |
| TX-0852 | CORPUS CHRISTI WATERFRONT TERMINAL | 1/2/2019 | Marine Vapor Combustors | Carbon Monoxide | good operating methods and combustion | 0.2 | LB/MMBTU |
| LA-0291 | LAKE CHARLES CHEMICAL COMPLEX GTL UNIT | 5/23/2014 | Vapor Combustor (EQT 834) | Carbon Monoxide | Compliance with 40 CFR 63 Subpart FFFF | 4.16 | LB/HR |
| LA-0291 | LAKE CHARLES CHEMICAL COMPLEX GTL UNIT | 5/23/2014 | Vapor Combustor (EQT 834) | Volatile Organic Compounds (VOC) | Compliance with 40 CFR 63 Subpart FFFF | 15.48 | LB/HR |
| TX-0661 | OILTANKING APPELT TERMINAL | 6/30/2014 | Vapor Combustors | Carbon Dioxide | GOOD COMBUSTION PRACTICES | 46.32 | POUND |
| TX-0661 | OILTANKING APPELT TERMINAL | 6/30/2014 | Vapor Combustors | Volatile Organic Compounds (VOC) | 99.5% DRE | 156.16 | POUND |
| LA-0291 | LAKE CHARLES CHEMICAL COMPLEX GTL UNIT | 5/23/2014 | Vapor Combustor (EQT 834) | Carbon Dioxide Equivalent (CO2e) | Compliance with 40 CFR 63 Subpart FFFF | 9753 | TPY |

# RBLC Results for Combustors

**Search Criteria**
Permit Date Between 01/01/2014 And 04/30/2024
And Process Contains 'combustor'
*results filtered to exclude solid waste combustors*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizers | Nitrogen Oxides (NOx) | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | Vapor Combustor | Nitrogen Oxides (NOx) | good combustion practices and use of gaseous fuel | 0 | |
| TX-0955 | INEOS OLIGOMERS CHOCOLATE BAYOU | 3/14/2023 | Marine Vapor Combustor Unit (MCVU) | Nitrogen Oxides (NOx) | Burner design for good combustion and to minimize NOx formation. | 0 | |
| TX-0844 | OXY INGLESIDE ENERGY CENTER | 7/25/2018 | Vapor Combustor UNITS | Nitrogen Oxides (NOx) | Use of sweet natural gas as fuel<br>- Good combustion practice to minimize NOx formation<br>- Low NOx burners | 0.06 | LB/MMBTU |
| TX-0879 | MOTIVA PORT ARTHUR TERMINAL | 2/19/2020 | Vapor Combustor | Nitrogen Oxides (NOx) | Good design and combustion practices (collateral emissions only) Monitor temperature. | 0.138 | LB/MMBTU |
| LA-0291 | LAKE CHARLES CHEMICAL COMPLEX GTL UNIT | 5/23/2014 | Vapor Combustor (EQT 834) | Nitrogen Oxides (NOx) | Compliance with 40 CFR 63 Subpart FFFF | 2.09 | LB/HR |
| TX-0661 | OILTANKING APPELT TERMINAL | 6/30/2014 | Vapor Combustors | Nitrogen Oxides (NOx) | GOOD COMBUSTION PRACTICES | 3.6 | POUND |

# RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| *LA-0324 | COMMONWEALTH LNG FACILITY | 3/28/2023 | Flares (EQT0007 - EQT0010) | 19.39 | Natural Gas | Volatile Organic Compounds (VOC) | Good combustion practices (including work practices listed in 40 CFR 60.18); Burner optimization and flare gas recovery; Use of facility Fuel Gas for pilot and purge. | 0 | |
| *LA-0394 | GEISMAR PLANT | 12/12/2023 | 12-22 - West Rail Olefins Loading to Flare | 99.999 | | Volatile Organic Compounds (VOC) | Routing emissions with a true vapor pressure of 0.5 psia or greater to a control device with a control efficiency of 98% or greater | 0 | |
| *LA-0401 | KOCH METHANOL (KME) FACILITY | 12/20/2023 | FLR - Flare | 19.31 | | Volatile Organic Compounds (VOC) | Use of good operating practices and compliance with 40 CFR 60.18 and 40 CFR 63.11 | 0 | |
| *PA-0324 | MARCUS HOOK | 2/12/2021 | Project Phoenix Cold Flare | 50.008 | Pilot/Purge/Sweep Gas | Volatile Organic Compounds (VOC) | | 0 | |
| *TX-0956 | ENTERPRISE MONT BELVIEU COMPLEX | 6/8/2023 | FLARE | 19.31 | Natural Gas PILOT | Volatile Organic Compounds (VOC) | Good design & combustion practices | 0 | |
| *TX-0962 | POINT COMFORT PLANT | 9/22/2023 | PE3 Plant Elevated Flare | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | Use of pipeline quality Natural Gas as supplemental fuel. No flaring of halogenated compounds. Good combustion practices are used. | 0 | |
| *TX-0965 | ORANGE PLANT | 12/29/2023 | FLARE | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | GOOD COMBUSTION PRACTICES | 0 | |
| *TX-0966 | EQUSTAR LAPORTE COMPLEX | 11/14/2023 | FLARE | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | Use of pipeline quality Natural Gas as supplemental fuel. No flaring of halogenated compounds. Good combustion practices, proper design, and operation are used. | 0 | |
| KY-0113 | WESTLAKE CHEMICAL OPCO, LP | 9/21/2020 | Ethylene Flare EU#007 (EPN321) | 19.31 | Process Fuel Gas and Natural Gas | Volatile Organic Compounds (VOC) | Employ Natural Gas as a pilot fuel, good flare design, the use of appropriate instrumentation, control and best operational practices as BACT for reducing VOC emissions from the pilot flame of the flare. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizers | 64.999 | | Volatile Organic Compounds (VOC) | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| LA-0382 | BIG LAKE FUELS METHANOL PLANT | 4/25/2019 | Flares (EQT0012, EQT0039, EQT0040) | 19.31 | | Volatile Organic Compounds (VOC) | Comply with requirements of 40 CFR 63.11(b) | 0 | |
| TX-0858 | GULF COAST GROWTH VENTURES PROJECT | 6/12/2019 | Elevated Flare | 99.999 | Natural Gas | Volatile Organic Compounds (VOC) | best combustion practices, Natural Gas supplemental fuel | 0 | |
| TX-0861 | BUCKEYE TEXAS PROCESSING CORPUS CHRISTI FACILITY | 8/29/2019 | FLARE | 19.33 | WASTE GAS | Volatile Organic Compounds (VOC) | GOOD COMBUSTION PRACTICES | 0 | |

## RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| TX-0863 | POLYETHYLENE 7 FACILITY | 9/3/2019 | FLARE | 19.31 | | Volatile Organic Compounds (VOC) | GOOD COMBUSTION PRACTICES | 0 | |
| TX-0864 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | Elevated Flare | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | good combustion practices, design, Natural Gas fuel | 0 | |
| TX-0865 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | MEROX ELEVATED FLARE | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | Good combustion practices, proper design and operation | 0 | |
| TX-0873 | PORT ARTHUR REFINERY | 2/4/2020 | FLARE | 19.33 | Natural Gas | Volatile Organic Compounds (VOC) | Stream-assisted flare equipped with CPMS and flow meter. Hourly net heating value calculated. Continuous pilot flame. Limited hourly and yearly tank degassing | 0 | |
| TX-0884 | PROPANE DEHYDROGENATION (PDH) UNIT | 1/24/2020 | FLARE | 64.999 | | Volatile Organic Compounds (VOC) | Good design & combustion practices | 0 | |
| TX-0886 | MONT BELVIEU NGL FRACTIONATION UNIT | 3/31/2020 | MSS FLARE | 19.39 | Natural Gas | Volatile Organic Compounds (VOC) | GOOD COMBUSTION PRACTICES | 0 | |
| TX-0894 | CHEVRON PHILLIPS CHEMICAL SWEENY COMPLEX | 10/30/2020 | Unit 81 Flare (EPN 81-97-9611) | 19.31 | Natural Gas, PLANT Fuel Gas | Volatile Organic Compounds (VOC) | Good combustion practices, proper design and operation. | 0 | |
| TX-0901 | EQUISTAR CHEMICALS LA PORTE COMPLEX | 11/6/2020 | Process Vents (EPN: LBFLARE) | 63.999 | | Volatile Organic Compounds (VOC) | Flare - 99% DRE for all VOC up to three carbons and 98% DRE for all other VOCs | 0 | |
| TX-0901 | EQUISTAR CHEMICALS LA PORTE COMPLEX | 11/6/2020 | FLARE | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | Good combustion practices, proper design and operation. 99% DRE for all VOC up to three carbons and 98% DRE for all other VOCs. | 0 | |
| TX-0902 | EQUISTAR LA PORTE COMPLEX | 9/25/2020 | FLARE | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | Good combustion practices, proper design and operation | 0 | |
| TX-0903 | SWEENY REFINERY | 9/9/2020 | FLARE | 19.33 | Natural Gas | Volatile Organic Compounds (VOC) | t flameOther factors considered (health effects, etc.) Blank = noneNumeric Limit with units Meet the design and operating requirements of 40 CFR Â§60.18. Stream-assisted flare equipped with flow monitor and GC analyzer. Continuous monitoring of pilot flame | 0 | |
| TX-0904 | MOTIVA POLYETHYLENE MANUFACTURING COMPLEX | 9/9/2020 | FLARE | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | good combustion practices and the use of gaseous fuel | 0 | |
| TX-0905 | DIAMOND GREEN DIESEL PORT ARTHUR FACILITY | 9/16/2020 | FLARE | 19.31 | | Volatile Organic Compounds (VOC) | good combustion practices and the use of gaseous fuel | 0 | |
| TX-0909 | POLYETHYLENE UNIT 1792 | 12/8/2020 | Flare | 64.003 | Natural Gas | Volatile Organic Compounds (VOC) | good combustion practices, clean fuel | 0 | |

## RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| TX-0928 | SWEENY OLD OCEAN FACILITIES | 10/15/2021 | FLARE | 19.39 | Natural Gas | Volatile Organic Compounds (VOC) | Good combustion practices, proper design and operation. Minimize waste gas flows to the extent possible | 0 | |
| TX-0929 | FORMOSA POINT COMFORT PLANT | 10/15/2021 | FLARE | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | Good combustion practices, proper design and operation. Use of Natural Gas as fuel. Meets the design and operating requirements of 40 CFR Â§60.18. High Btu stream-assisted flare equipped with flow monitor and GC analyzer. Continuous monitoring of pilot flame | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | FLARE | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | good combustion practices and use of gaseous fuel | 0 | |
| TX-0936 | BILL GREEHEY REFINERY EAST PLANT | 3/29/2022 | THERMAL OXIDIZERS & FLARES | 50.008 | Natural Gas | Volatile Organic Compounds (VOC) | CLEAN Natural Gas FOR PILOTS AND SUPPLEMENTAL FUEL | 0 | |
| TX-0945 | FORMOSA POINT COMFORT PLANT OL3 | 4/6/2023 | FLARES | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | CLEAN FUEL, GOOD COMBUSTION PRACTICES | 0 | |
| *LA-0324 | COMMONWEALTH LNG FACILITY | 3/28/2023 | Flares (EQT0007 - EQT0010) | 19.39 | Natural Gas | Sulfur Dioxide (SO2) | Good combustion practices (including work practices listed in 40 CFR 60.18); Burner optimization and flare gas recovery; Use of facility Fuel Gas for pilot and purge. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizers | 64.999 | | Sulfur Dioxide (SO2) | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| TX-0863 | POLYETHYLENE 7 FACILITY | 9/3/2019 | FLARE | 19.31 | | Sulfur Dioxide (SO2) | GOOD COMBUSTION PRACTICES | 0 | |
| TX-0873 | PORT ARTHUR REFINERY | 2/4/2020 | FLARE | 19.33 | Natural Gas | Sulfur Dioxide (SO2) | Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent. Limit sulfur concentration in fuel and waste gas. | 0 | |
| TX-0905 | DIAMOND GREEN DIESEL PORT ARTHUR FACILITY | 9/16/2020 | FLARE | 19.31 | | Sulfur Dioxide (SO2) | good combustion practices and the use of gaseous fuel | 0 | |
| TX-0911 | FORMOSA POINT COMFORT PLANT | 12/15/2020 | FLARE | 19.31 | Natural Gas | Sulfur Dioxide (SO2) | CLEAN GAS FUEL | 0 | |
| TX-0945 | FORMOSA POINT COMFORT PLANT OL3 | 4/6/2023 | FLARES | 19.31 | Natural Gas | Sulfur Dioxide (SO2) | CLEAN FUEL, GOOD COMBUSTION PRACTICES | 0 | |

## RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| *LA-0324 | COMMONWEALTH LNG FACILITY | 3/28/2023 | Flares (EQT0007 - EQT0010) | 19.39 | Natural Gas | Nitrogen Oxides (NOx) | Good combustion practices (including work practices listed in 40 CFR 60.18); Burner optimization and flare gas recovery; Use of facility Fuel Gas for pilot and purge. | 0 | |
| *LA-0401 | KOCH METHANOL (KME) FACILITY | 12/20/2023 | FLR - Flare | 19.31 | | Nitrogen Oxides (NOx) | Use of good operating practices and compliance with 40 CFR 60.18 and 40 CFR 63.11 | 0 | |
| *TX-0956 | ENTERPRISE MONT BELVIEU COMPLEX | 6/8/2023 | FLARE | 19.31 | Natural Gas PILOT | Nitrogen Oxides (NOx) | Good design & combustion practices, | 0 | |
| *TX-0964 | NEDERLAND FACILITY | 10/5/2023 | FLARE | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | 40 CFR 60.18 and good combustion practices | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizers | 64.999 | | Nitrogen Oxides (NOx) | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| LA-0382 | BIG LAKE FUELS METHANOL PLANT | 4/25/2019 | Flares (EQT0012, EQT0039, EQT0040) | 19.31 | | Nitrogen Oxides (NOx) | Comply with requirements of 40 CFR 63.11(b) | 0 | |
| LA-0383 | LAKE CHARLES LNG EXPORT TERMINAL | 9/3/2020 | Flares (EQT0004 - EQT0010) | 19.39 | | Nitrogen Oxides (NOx) | Good combustion practices<br>Maintain pilot flame all the times<br>Maintain minimum heating value = 300 BTU/scf | 0 | |
| TX-0858 | GULF COAST GROWTH VENTURES PROJECT | 6/12/2019 | Elevated Flare | 99.999 | Natural Gas | Nitrogen Oxides (NOx) | best combustion practices, Natural Gas supplemental fuel | 0 | |
| TX-0861 | BUCKEYE TEXAS PROCESSING CORPUS CHRISTI FACILITY | 8/29/2019 | FLARE | 19.33 | WASTE GAS | Nitrogen Oxides (NOx) | GOOD COMBUSTION PRACTICES | 0 | |
| TX-0863 | POLYETHYLENE 7 FACILITY | 9/3/2019 | FLARE | 19.31 | | Nitrogen Oxides (NOx) | GOOD COMBUSTION PRACTICES | 0 | |
| TX-0864 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | Elevated Flare | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | good combustion practices, design, Natural Gas fuel | 0 | |
| TX-0865 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | MEROX ELEVATED FLARE | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | Good combustion practices, proper design and operation | 0 | |
| TX-0873 | PORT ARTHUR REFINERY | 2/4/2020 | FLARE | 19.33 | Natural Gas | Nitrogen Oxides (NOx) | Stream-assisted flare equipped with CPMS and flow meter. Hourly net heating value calculated.<br>Continuous pilot flame.<br>Limited hourly and yearly tank degassing | 0 | |
| TX-0884 | PROPANE DEHYDROGENATION (PDH) UNIT | 1/24/2020 | FLARE | 64.999 | | Nitrogen Oxides (NOx) | Good design & combustion practices | 0 | |
| TX-0886 | MONT BELVIEU NGL FRACTIONATION UNIT | 3/31/2020 | MSS FLARE | 19.39 | Natural Gas | Nitrogen Oxides (NOx) | GOOD COMBUSTION PRACTICES | 0 | |
| TX-0895 | CHANNELVIEW COMPLEX | 8/10/2020 | FLARE | 64.003 | Natural Gas | Nitrogen Oxides (NOx) | GOOD COMBUSTION PRACTICES | 0 | |

## RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| TX-0896 | CHANNELVIEW COMPLEX | 8/10/2020 | FLARE | 64.003 | Natural Gas | Nitrogen Oxides (NOx) | GOOD COMBUSTION PRACTICES | 0 | |
| TX-0897 | CHANNELVIEW COMPLEX | 8/10/2020 | FLARE | 64.003 | Natural Gas | Nitrogen Oxides (NOx) | GOOD COMBUSTION PRACTICES | 0 | |
| TX-0898 | CHANNELVIEW COMPLEX | 8/10/2020 | FLARE | 64.003 | Natural Gas | Nitrogen Oxides (NOx) | GOOD COMBUSTION PRACTICES | 0 | |
| TX-0901 | EQUISTAR CHEMICALS LA PORTE COMPLEX | 11/6/2020 | FLARE | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | Good combustion practices, proper design and operation, steam assisted. | 0 | |
| TX-0904 | MOTIVA POLYETHYLENE MANUFACTURING COMPLEX | 9/9/2020 | FLARE | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | good combustion practices and the use of gaseous fuel | 0 | |
| TX-0905 | DIAMOND GREEN DIESEL PORT ARTHUR FACILITY | 9/16/2020 | FLARE | 19.31 | | Nitrogen Oxides (NOx) | good combustion practices and the use of gaseous fuel | 0 | |
| TX-0909 | POLYETHYLENE UNIT 1792 | 12/8/2020 | Flare | 64.003 | Natural Gas | Nitrogen Oxides (NOx) | Good combustion practices, proper design and operation. Meets the design and operating requirements of 40 CFR Â§60.18. High Btu stream-assisted flare equipped with flow monitor and GC analyzer. Continuous monitoring of pilot flame | 0 | |
| TX-0910 | POLYETHYLENE UNIT 1796 | 12/11/2020 | FLARE | 64.003 | Natural Gas | Nitrogen Oxides (NOx) | Good combustion practices, proper design and operation. Meets the design and operating requirements of 40 CFR Â§60.18. The flare is a steam-assisted flare and can operate as a high or low Btu flare. The flare is equipped with a continuous flow monitor, composition analyzer, and has continuous pilot flame monitoring. | 0 | |
| TX-0916 | CEDAR BAYOU | 2/1/2021 | Flare EPN 1592-40 and 1592-16 | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | Good combustion practices, proper design and operation. Meets the design and operating requirements of 40 CFR Â§60.18. High Btu stream-assisted flare equipped with flow monitor and GC analyzer. Continuous monitoring of pilot flame | 0 | |
| TX-0917 | POLYETHYLENE UNIT 1799 | 1/29/2021 | Flare FS-9004 (EPN 1799-20) | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | Good combustion practices, proper design and operation. Meets the design and operating requirements of 40 CFR Â§60.18. The flare is an air-assisted flare and can operate as a high or low Btu flare. The flare is equipped with a continuous flow monitor, composition analyzer, and has continuous pilot flame monitoring. | 0 | |

## RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| TX-0917 | POLYETHYLENE UNIT 1799 | 1/29/2021 | Flare FS-9004 (EPN 1799-20) | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | Good combustion practices, proper design and operation. Meets the design and operating requirements of 40 CFR Â§60.18. The flare is an air-assisted flare and can operate as a high or low Btu flare. The flare is equipped with a continuous flow monitor, composition analyzer, and has continuous pilot flame monitoring. | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | FLARE | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | good combustion practices and use of gaseous fuel | 0 | |
| TX-0945 | FORMOSA POINT COMFORT PLANT OL3 | 4/6/2023 | FLARES | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | CLEAN FUEL, GOOD COMBUSTION PRACTICES | 0 | |
| TX-0955 | INEOS OLIGOMERS CHOCOLATE BAYOU | 3/14/2023 | FLARE | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | Burner tip design and supplemental fuel control assure combustion, open air combustion does not add temperature to the NOx formation potential | 0 | |
| *LA-0400 | DIRECT REDUCED IRON FACILITY | 9/20/2023 | Hot Flare HF-1 (EQT0071) | 19.39 | | Hydrogen Sulfide | good combustion practices | 0 | |
| *LA-0324 | COMMONWEALTH LNG FACILITY | 3/28/2023 | Flares (EQT0007 - EQT0010) | 19.39 | Natural Gas | Carbon Monoxide | Good combustion practices (including work practices listed in 40 CFR 60.18); Burner optimization and flare gas recovery; Use of facility Fuel Gas for pilot and purge. | 0 | |
| *LA-0401 | KOCH METHANOL (KME) FACILITY | 12/20/2023 | FLR - Flare | 19.31 | | Carbon Monoxide | Use of good operating practices and compliance with 40 CFR 60.18 and 40 CFR 63.11 | 0 | |
| *TX-0956 | ENTERPRISE MONT BELVIEU COMPLEX | 6/8/2023 | FLARE | 19.31 | Natural Gas PILOT | Carbon Monoxide | Good design & combustion practices | 0 | |
| *TX-0957 | LINDE GAS LA PORTE SYNGAS PLANT | 5/25/2023 | FLARES | 19.31 | Natural Gas | Carbon Monoxide | CLEAN FUEL SUPPLEMENTS WASTE STREAM BTU | 0 | |
| *TX-0964 | NEDERLAND FACILITY | 10/5/2023 | FLARE | 19.31 | Natural Gas | Carbon Monoxide | 40 CFR 60.18 and good combustion practices | 0 | |
| *TX-0965 | ORANGE PLANT | 12/29/2023 | FLARE | 19.31 | Natural Gas | Carbon Monoxide | GOOD COMBUSTION PRACTICES | 0 | |
| KY-0113 | WESTLAKE CHEMICAL OPCO, LP | 9/21/2020 | Ethylene Flare EU#007 (EPN321) | 19.31 | process Fuel Gas and Natural Gas | Carbon Monoxide | employ good flare design, minimize the amount of gases going to flare and use the appropriate instrumentation, control and best operational practices as best available control options for reducing CO emissions from flare. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizers | 64.999 | | Carbon Monoxide | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |

## RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| LA-0382 | BIG LAKE FUELS METHANOL PLANT | 4/25/2019 | Flares (EQT0012, EQT0039, EQT0040) | 19.31 | | Carbon Monoxide | Comply with requirements of 40 CFR 63.11(b) | 0 | |
| LA-0383 | LAKE CHARLES LNG EXPORT TERMINAL | 9/3/2020 | Flares (EQT0004 - EQT0010) | 19.39 | | Carbon Monoxide | Good combustion practices<br>Maintain pilot flame all the times<br>Maintain minimum heating value = 300 BTU/scf | 0 | |
| TX-0857 | LIGHT HYDROCARBON 7 | 4/16/2019 | Large Flare | 19.31 | Natural Gas | Carbon Monoxide | Meet the design and operating requirements of 40 CFR Â§60.18. | 0 | |
| TX-0857 | LIGHT HYDROCARBON 7 | 4/16/2019 | Small Flare | 19.31 | Natural Gas | Carbon Monoxide | design and operating requirements of 40 CFR Â§60.18. | 0 | |
| TX-0858 | GULF COAST GROWTH VENTURES PROJECT | 6/12/2019 | Elevated Flare | 99.999 | Natural Gas | Carbon Monoxide | best combustion practices, Natural Gas supplemental fuel | 0 | |
| TX-0863 | POLYETHYLENE 7 FACILITY | 9/3/2019 | FLARE | 19.31 | | Carbon Monoxide | GOOD COMBUSTION PRACTICES | 0 | |
| TX-0865 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | MEROX ELEVATED FLARE | 19.31 | Natural Gas | Carbon Monoxide | Good combustion practices, proper design and operation | 0 | |
| TX-0868 | EQUISTAR CHEMICAL PLANT | 4/20/2021 | FLARE | 64.003 | Natural Gas | Carbon Monoxide | BEST COMBUSTION PRACTICES | 0 | |
| TX-0873 | PORT ARTHUR REFINERY | 2/4/2020 | FLARE | 19.33 | Natural Gas | Carbon Monoxide | Stream-assisted flare equipped with CPMS and flow meter. Hourly net heating value calculated.<br>Continuous pilot flame.<br>Limited hourly and yearly tank degassing | 0 | |
| TX-0884 | PROPANE DEHYDROGENATION (PDH) UNIT | 1/24/2020 | FLARE | 64.999 | | Carbon Monoxide | Good design & combustion practices | 0 | |
| TX-0904 | MOTIVA POLYETHYLENE MANUFACTURING COMPLEX | 9/9/2020 | FLARE | 19.31 | Natural Gas | Carbon Monoxide | good combustion practices and the use of gaseous fuel | 0 | |
| TX-0905 | DIAMOND GREEN DIESEL PORT ARTHUR FACILITY | 9/16/2020 | FLARE | 19.31 | | Carbon Monoxide | good combustion practices and the use of gaseous fuel | 0 | |
| TX-0928 | SWEENY OLD OCEAN FACILITIES | 10/15/2021 | FLARE | 19.39 | Natural Gas | Carbon Monoxide | Good combustion practices, proper design and operation.<br>Minimize waste gas flows to the extent possible | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | FLARE | 19.31 | Natural Gas | Carbon Monoxide | good combustion practices and use of gaseous fuel | 0 | |
| TX-0936 | BILL GREEHEY REFINERY EAST PLANT | 3/29/2022 | THERMAL OXIDIZERS & FLARES | 50.008 | Natural Gas | Carbon Monoxide | CLEAN FUEL | 0 | |
| TX-0945 | FORMOSA POINT COMFORT PLANT OL3 | 4/6/2023 | FLARES | 19.31 | Natural Gas | Carbon Monoxide | CLEAN FUEL, GOOD COMBUSTION PRACTICES | 0 | |
| *TX-0956 | ENTERPRISE MONT BELVIEU COMPLEX | 6/8/2023 | FLARE | 19.31 | Natural Gas PILOT | Carbon Dioxide Equivalent (CO2e) | Good design & combustion practices | 0 | |

## RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| *TX-0964 | NEDERLAND FACILITY | 10/5/2023 | FLARE | 19.31 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | Good combustion practices and fire low carbon natural gas | 0 | |
| KY-0113 | WESTLAKE CHEMICAL OPCO, LP | 9/21/2020 | Ethylene Flare EU#007 (EPN321) | 19.31 | process Fuel Gas and Natural Gas | Carbon Dioxide Equivalent (CO2e) | Employ low carbon assist gas, good flare design, minimize the amount of gases going to flare and use the appropriate instrumentation, control and best operational practices as best available control options for reducing flare GHGs. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizers | 64.999 | | Carbon Dioxide Equivalent (CO2e) | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| LA-0383 | LAKE CHARLES LNG EXPORT TERMINAL | 9/3/2020 | Flares (EQT0004 - EQT0010) | 19.39 | | Carbon Dioxide Equivalent (CO2e) | Good combustion practices<br>Maintain pilot flame all the times<br>Maintain minimum heating value = 300 BTU/scf | 0 | |
| TX-0858 | GULF COAST GROWTH VENTURES PROJECT | 6/12/2019 | Elevated Flare | 99.999 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | best combustion practices, Natural Gas supplemental fuel | 0 | |
| TX-0861 | BUCKEYE TEXAS PROCESSING CORPUS CHRISTI FACILITY | 8/29/2019 | FLARE | 19.33 | WASTE GAS | Carbon Dioxide Equivalent (CO2e) | GOOD COMBUSTION PRACTICES | 0 | |
| TX-0864 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | Elevated Flare | 19.31 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | good combustion practices, design, Natural Gas fuel | 0 | |
| TX-0865 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | MEROX ELEVATED FLARE | 19.31 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | Good combustion practices, proper design and operation | 0 | |
| TX-0872 | CONDENSATE SPLITTER FACILITY | 10/31/2019 | Flare (Routine and MSS) | 19.33 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | Use of Natural Gas. Good combustion practices will be used to reduce CO2e including maintaining proper air-to-fuel ratio, necessary residence time, temperature and turbulence. | 0 | |
| TX-0873 | PORT ARTHUR REFINERY | 2/4/2020 | FLARE | 19.33 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | Stream-assisted flare equipped with CPMS and flow meter. Hourly net heating value calculated.<br>Continuous pilot flame.<br>Limited hourly and yearly tank degassing | 0 | |
| TX-0884 | PROPANE DEHYDROGENATION (PDH) UNIT | 1/24/2020 | FLARE | 64.999 | | Carbon Dioxide Equivalent (CO2e) | Good design & combustion practices | 0 | |
| TX-0904 | MOTIVA POLYETHYLENE MANUFACTURING COMPLEX | 9/9/2020 | FLARE | 19.31 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | good combustion practices and the use of gaseous fuel | 0 | |
| TX-0905 | DIAMOND GREEN DIESEL PORT ARTHUR FACILITY | 9/16/2020 | FLARE | 19.31 | | Carbon Dioxide Equivalent (CO2e) | good combustion practices and the use of gaseous fuel | 0 | |
| TX-0921 | HOUSTON PLANT - 22052 | 6/13/2022 | MARINE LOADING FLARE | 19.39 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | Use of Natural Gas and good combustion practices | 0 | |

## RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| TX-0928 | SWEENY OLD OCEAN FACILITIES | 10/15/2021 | FLARE | 19.39 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | Good combustion practices, proper design and operation. Minimize waste gas flows to the extent possible | 0 | |
| TX-0930 | CENTURION BROWNSVILLE | 10/19/2021 | Main Flare | 19.33 | Natural Gas OR Fuel Gas | Carbon Dioxide Equivalent (CO2e) | Use of Natural Gas or Fuel Gas as supplemental fuel and good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence. | 0 | |
| TX-0930 | CENTURION BROWNSVILLE | 10/19/2021 | Butane (Rail Car) Flare | 19.33 | Natural Gas OR Fuel Gas | Carbon Dioxide Equivalent (CO2e) | Use of Natural Gas or Fuel Gas as supplemental fuel and good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence. | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | FLARE | 19.31 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | good combustion practices and use of gaseous fuel | 0 | |
| TX-0945 | FORMOSA POINT COMFORT PLANT OL3 | 4/6/2023 | FLARES | 19.31 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | CLEAN FUEL, GOOD COMBUSTION PRACTICES | 0 | |
| WI-0268 | ND PAPER, INC. - BIRON DIVISION | 2/19/2019 | P34 - Anaerobic Digester and Flare | 19.32 | biogas | Carbon Dioxide Equivalent (CO2e) | Combust biogas in flare or boiler, flare designed to have VOC destruction and removal efficiency (DRE) of at least 99%, good combustion practices: inspections and maintenance as recommended by flare manufacturer. | 0 | |
| TX-0930 | CENTURION BROWNSVILLE | 10/19/2021 | Main Flare | 19.33 | Natural Gas OR Fuel Gas | Volatile Organic Compounds (VOC) | Use of Natural Gas or Fuel Gas as supplemental fuel and good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence. | 0.0005 | LB/MMBTU |
| TX-0930 | CENTURION BROWNSVILLE | 10/19/2021 | Butane (Rail Car) Flare | 19.33 | Natural Gas OR Fuel Gas | Volatile Organic Compounds (VOC) | Use of Natural Gas or Fuel Gas as supplemental fuel and good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence. | 0.0005 | LB/MMBTU |
| WI-0268 | ND PAPER, INC. - BIRON DIVISION | 2/19/2019 | P34 - Anaerobic Digester and Flare | 19.32 | biogas | Volatile Organic Compounds (VOC) | Combust biogas in flare or boiler, flare designed to have VOC destruction and removal efficiency (DRE) of 99%, Good combustion practices: performing inspections and maintenance of flare as recommended by manufacturer | 0.005 | LB VOC/MMBTU |

## RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| *IL-0134 | CRONUS CHEMICALS | 12/21/2023 | Front End Flare | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | Flare Minimization Plan and Root Cause Analysis, Steam-assist flare design, Work Practices in accordance with 40 CFR 63.11(b), GCP, use of nitrogen as purge gas | 0.0054 | LB/MMBTU |
| *IL-0134 | CRONUS CHEMICALS | 12/21/2023 | Ammonia Flare | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | Flare Minimization Plan and Root Cause Analysis, Steam-assist flare design, Work Practices in accordance with 40 CFR 63.11(b), GCP, use of nitrogen as purge gas | 0.0054 | LB/MMBTU |
| *IL-0134 | CRONUS CHEMICALS | 12/21/2023 | Ammonia Storage Flare | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | Flare Minimization Plan and Root Cause Analysis, Steam-assist flare design, Work Practices in accordance with 40 CFR 60.18(b), GCP, use of nitrogen as purge gas | 0.0054 | LB/MMBTU |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | HP Flare | 50.008 | Natural Gas | Volatile Organic Compounds (VOC) | | 0.0054 | LB/MMBTU |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | LP Flare | 50.008 | Natural Gas | Volatile Organic Compounds (VOC) | | 0.0054 | LB/MMBTU |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | Sulfur Block Flare | 50.006 | Natural Gas | Volatile Organic Compounds (VOC) | | 0.0054 | LB/MMBTU |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | Loading Flare | 50.008 | Natural Gas | Volatile Organic Compounds (VOC) | | 0.0054 | LB/MMBTU |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Emergency Urea Flare EU-EUF | 19.39 | Natural Gas | Volatile Organic Compounds (VOC) | The pilot and purge gas fuels shall be Natural Gas | 0.0054 | LB/MMBTU |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | HP Flare | 50.008 | Natural Gas | Sulfur Dioxide (SO2) | The unit shall burn only Natural Gas and process off-gas as supplemental and pilot fuel. | 0.013 | LB/HR |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | LP Flare | 50.008 | Natural Gas | Sulfur Dioxide (SO2) | The unit shall burn only Natural Gas and process off-gas as supplemental and pilot fuel. | 0.013 | LB/HR |
| WI-0268 | ND PAPER, INC. - BIRON DIVISION | 2/19/2019 | P34 - Anaerobic Digester and Flare | 19.32 | biogas | Carbon Monoxide | Good combustion practices: monthly inspection of flare and maintenance as recommended by manufacturer | 0.031 | LB CO/MMBTU |
| *PA-0339 | TULLYTOWN RES REC FAC | 6/4/2019 | ENCLOSED ULE FLARE 1 | 19.32 | Landfill Gas | Carbon Monoxide | | 0.06 | LB/MMBTU |

## RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| AK-0085 | GAS TREATMENT PLANT | 8/13/2020 | Eight (8) Flares for Vent Gas Disposal | 19.39 | Natural Gas | Nitrogen Oxides (NOx) | Proper flare work practice requirements, establishing a flaring minimization plan, and limit operations to 500 hours per year per unit flaring during startup, shutdown, and maintenance events. | 0.068 | LB/MMBTU |
| AK-0086 | KENAI NITROGEN OPERATIONS | 3/26/2021 | Three (3) Flares | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | Work Practice Requirements and Limited Use | 0.068 | LB/MMBTU |
| AK-0088 | LIQUEFACTION PLANT | 7/7/2022 | Seven Flares for Vent Gas Disposal | 19.39 | Natural Gas | Nitrogen Oxides (NOx) | Limited Operation; Flare Work Practices; Flaring Minimization Plan | 0.068 | LB/MMBTU |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Emergency Urea Flare EU-EUF | 19.39 | Natural Gas | Nitrogen Oxides (NOx) | The pilot and purge gas fuels shall be Natural Gas | 0.068 | LB/MMBTU |
| TX-0894 | CHEVRON PHILLIPS CHEMICAL SWEENY COMPLEX | 10/30/2020 | Unit 81 Flare (EPN 81-97-9611) | 19.31 | Natural Gas, PLANT Fuel Gas | Nitrogen Oxides (NOx) | Good combustion practices, proper design and operation. | 0.068 | LB/MMBTU |
| TX-0930 | CENTURION BROWNSVILLE | 10/19/2021 | Main Flare | 19.33 | Natural Gas OR Fuel Gas | Nitrogen Oxides (NOx) | Use of Natural Gas or Fuel Gas as supplemental fuel and good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence. | 0.068 | LB/MMBTU |
| TX-0930 | CENTURION BROWNSVILLE | 10/19/2021 | Butane (Rail Car) Flare | 19.33 | Natural Gas OR Fuel Gas | Nitrogen Oxides (NOx) | Use of Natural Gas or Fuel Gas as supplemental fuel and good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence. | 0.068 | LB/MMBTU |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | Sulfur Block Flare | 50.006 | Natural Gas | Sulfur Dioxide (SO2) | The unit shall burn only Natural Gas and process off-gas as supplemental and pilot fuel. | 0.069 | LB/HR |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | Loading Flare | 50.008 | Natural Gas | Sulfur Dioxide (SO2) | The unit shall burn only Natural Gas and process off-gas as supplemental and pilot fuel. | 0.069 | LB/HR |
| *IL-0134 | CRONUS CHEMICALS | 12/21/2023 | Front End Flare | 19.31 | Natural Gas | Carbon Monoxide | Flare Minimization Plan and Root Cause Analysis, Steam-assist flare design, Work Practices in accordance with 40 CFR 63.11(b), GCP, use of nitrogen as purge gas | 0.08 | LB/MMBTU |
| *IL-0134 | CRONUS CHEMICALS | 12/21/2023 | Ammonia Flare | 19.31 | Natural Gas | Carbon Monoxide | Flare Minimization Plan and Root Cause Analysis, Steam-assist flare design, Work Practices in accordance with 40 CFR 63.11(b), GCP, use of nitrogen as purge gas | 0.08 | LB/MMBTU |
| *IL-0134 | CRONUS CHEMICALS | 12/21/2023 | Ammonia Storage Flare | 19.31 | Natural Gas | Carbon Monoxide | Flare Minimization Plan and Root Cause Analysis, Steam-assist flare design, Work Practices in accordance with 40 CFR 60.18(b), GCP, use of nitrogen as purge gas | 0.08 | LB/MMBTU |

## RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | HP Flare | 50.008 | Natural Gas | Carbon Monoxide | | 0.083 | LB/MMBTU |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | LP Flare | 50.008 | Natural Gas | Carbon Monoxide | | 0.083 | LB/MMBTU |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | Sulfur Block Flare | 50.006 | Natural Gas | Carbon Monoxide | | 0.083 | LB/MMBTU |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | Loading Flare | 50.008 | Natural Gas | Carbon Monoxide | | 0.083 | LB/MMBTU |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | HP Flare | 50.008 | Natural Gas | Nitrogen Oxides (NOx) | | 0.099 | LB/MMBTU |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | LP Flare | 50.008 | Natural Gas | Nitrogen Oxides (NOx) | | 0.099 | LB/MMBTU |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | Sulfur Block Flare | 50.006 | Natural Gas | Nitrogen Oxides (NOx) | | 0.099 | LB/MMBTU |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | Loading Flare | 50.008 | Natural Gas | Nitrogen Oxides (NOx) | | 0.099 | LB/MMBTU |
| *IL-0134 | CRONUS CHEMICALS | 12/21/2023 | Front End Flare | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | Flare minimization plan and root cause analysis, smokeless, steam-assist flare design, work practices in accordance with 40 CFR 63.11(b), GCP, nitrogen purge gas | 0.1 | LB/MMBTU |
| *IL-0134 | CRONUS CHEMICALS | 12/21/2023 | Ammonia Flare | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | Flare Minimization Plan and Root Cause Analysis, Steam-assist flare design, Work Practices in accordance with 40 CFR 63.11(b), GCP, use of nitrogen as purge gas | 0.1 | LB/MMBTU |
| *IL-0134 | CRONUS CHEMICALS | 12/21/2023 | Ammonia Storage Flare | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | Flare Minimization Plan and Root Cause Analysis, Steam-assist flare design, Work Practices in accordance with 40 CFR 60.18(b), GCP, use of nitrogen as purge gas | 0.1 | LB/MMBTU |
| TX-0893 | HYDOW DROCARBONS FACILITIES | 8/7/2020 | Flare | 19.31 | Natural Gas | Nitrogen Oxides (NOx) | Good combustion practices | 0.138 | LB/MMBTU |
| TX-0928 | SWEENY OLD OCEAN FACILITIES | 10/15/2021 | FLARE | 19.39 | Natural Gas | Nitrogen Oxides (NOx) | Good combustion practices, proper design and operation. Minimize waste gas flows to the extent possible to reduce emissions of NOX. | 0.138 | LB/MMBTU |
| TX-0930 | CENTURION BROWNSVILLE | 10/19/2021 | Main Flare | 19.33 | Natural Gas OR Fuel Gas | Sulfur Dioxide (SO2) | Use of Natural Gas or Fuel Gas as supplemental fuel and good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence. | 0.2 | GR/DSCF |

## RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| TX-0930 | CENTURION BROWNSVILLE | 10/19/2021 | Butane (Rail Car) Flare | 19.33 | Natural Gas OR Fuel Gas | Sulfur Dioxide (SO2) | Use of Natural Gas or Fuel Gas as supplemental fuel and good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence. | 0.2 | GR/DSCF |
| TX-0872 | CONDENSATE SPLITTER FACILITY | 10/31/2019 | Flare (Routine and MSS) | 19.33 | Natural Gas | Carbon Monoxide | Use of Natural Gas. Good combustion practices will be used to reduce CO including maintaining proper air-to-fuel ratio, necessary residence time, temperature and turbulence. | 0.2755 | LB/MMBTU |
| TX-0893 | HYDOW DROCARBONS FACILITIES | 8/7/2020 | Flare | 19.31 | Natural Gas | Carbon Monoxide | Good combustion practices | 0.2755 | LB/MMBTU |
| AK-0086 | KENAI NITROGEN OPERATIONS | 3/26/2021 | Three (3) Flares | 19.31 | Natural Gas | Carbon Monoxide | Work Practice Requirements and Limited Use | 0.31 | LB/MMBTU |
| AK-0088 | LIQUEFACTION PLANT | 7/7/2022 | Seven Flares for Vent Gas Disposal | 19.39 | Natural Gas | Carbon Monoxide | Limited Operation; Flare Work Practices; Flaring Minimization Plan | 0.31 | LB/MMBTU |
| TX-0930 | CENTURION BROWNSVILLE | 10/19/2021 | Main Flare | 19.33 | Natural Gas OR Fuel Gas | Carbon Monoxide | Use of Natural Gas or Fuel Gas as supplemental fuel and good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence. | 0.3465 | LB/MMBTU |
| TX-0930 | CENTURION BROWNSVILLE | 10/19/2021 | Butane (Rail Car) Flare | 19.33 | Natural Gas OR Fuel Gas | Carbon Monoxide | Use of Natural Gas or Fuel Gas as supplemental fuel and good combustion practices, including maintaining proper air-to-fuel ratio and necessary residence time, temperature, and turbulence. | 0.3465 | LB/MMBTU |
| AK-0085 | GAS TREATMENT PLANT | 8/13/2020 | Eight (8) Flares for Vent Gas Disposal | 19.39 | Natural Gas | Carbon Monoxide | Proper flare work practice requirements, establishing a flaring minimization plan, and limit operations to 500 hours per year per unit flaring during startup, shutdown, and maintenance events. | 0.37 | LB/MMBTU |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Emergency Urea Flare EU-EUF | 19.39 | Natural Gas | Carbon Monoxide | The pilot and purge gas fuels shall be Natural Gas | 0.37 | LB/MMBTU |
| AK-0085 | GAS TREATMENT PLANT | 8/13/2020 | Eight (8) Flares for Vent Gas Disposal | 19.39 | Natural Gas | Volatile Organic Compounds (VOC) | Proper flare work practice requirements, establishing a flaring minimization plan, and limit operations to 500 hours per year per unit flaring during startup, shutdown, and maintenance events. | 0.57 | LB/MMBTU |
| AK-0086 | KENAI NITROGEN OPERATIONS | 3/26/2021 | Three (3) Flares | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | Work Practice Requirements and Limited Use | 0.66 | LB/MMBTU |

## RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| AK-0088 | LIQUEFACTION PLANT | 7/7/2022 | Seven Flares for Vent Gas Disposal | 19.39 | Natural Gas | Volatile Organic Compounds (VOC) | Limited Operation; Flare Work Practices; Flaring Minimization Plan | 0.66 | LB/MMBTU |
| *PA-0339 | TULLYTOWN RES REC FAC | 6/4/2019 | ENCLOSED ULE FLARE 1 | 19.32 | Landfill Gas | Volatile Organic Compounds (VOC) | | 1.63 | LB/HR |
| *PA-0339 | TULLYTOWN RES REC FAC | 6/4/2019 | ENCLOSED ULE FLARE 1 | 19.32 | Landfill Gas | Nitrogen Oxides (NOx) | | 4.54 | LB/HR |
| TX-0921 | HOUSTON PLANT - 22052 | 6/13/2022 | MARINE LOADING FLARE | 19.39 | Natural Gas | Volatile Organic Compounds (VOC) | Use of Natural Gas and good combustion practices | 5.5 | LB/MMSCF |
| AK-0088 | LIQUEFACTION PLANT | 7/7/2022 | Seven Flares for Vent Gas Disposal | 19.39 | Natural Gas | Sulfur Dioxide (SO2) | Limited Operation; Flare Work Practices; Flaring Minimization Plan | 16 | PPMV SULFUR IN FUEL |
| TX-0872 | CONDENSATE SPLITTER FACILITY | 10/31/2019 | Flare (Routine and MSS) | 19.33 | Natural Gas | Volatile Organic Compounds (VOC) | Control for desalter wastewater, piping/vessel degassing and pressurized tank vapors. Authorized for Fuel Gas combustion wherein the heaters are out-of-service.<br><br>The flare is designed to meet 40 CFR Â§60.18 with a VOC DRE of 98% for compounds with four carbons and more, and 99% for compounds with three or less. The flare has a continuous flow monitor and composition analyzer installed. | 19.13 | LB/HR |
| AK-0086 | KENAI NITROGEN OPERATIONS | 3/26/2021 | Three (3) Flares | 19.31 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | Work Practice Requirements and Limited Use | 60.2 | TON/MMSCF |
| AK-0085 | GAS TREATMENT PLANT | 8/13/2020 | Eight (8) Flares for Vent Gas Disposal | 19.39 | Natural Gas | Sulfur Dioxide (SO2) | Proper flare work practice requirements, establishing a flaring minimization plan, and limit operations to 500 hours per year per unit flaring during startup, shutdown, and maintenance events. | 96 | PPMV SULFUR IN FUEL |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Emergency Urea Flare EU-EUF | 19.39 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | The pilot and purge gas fuels shall be Natural Gas | 116.89 | LB/MMBTU |
| AK-0085 | GAS TREATMENT PLANT | 8/13/2020 | Eight (8) Flares for Vent Gas Disposal | 19.39 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | Proper flare work practice requirements, establishing a flaring minimization plan, and | 117.1 | LB/MMBTU |
| AK-0088 | LIQUEFACTION PLANT | 7/7/2022 | Seven Flares for Vent Gas Disposal | 19.39 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | Limited Operation; Flare Work Practices; Flaring Minimization Plan | 117.1 | LB/MMBTU |
| LA-0388 | LACC LLC US - ETHYLENE PLANT | 2/25/2022 | Ethylene Plant Flares Emissions Cap | 19.31 | | Volatile Organic Compounds (VOC) | Compliance with 40 CFR 63.11(b) | 120.49 | TPY |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | ammonia storage flare EU-016 | 19.39 | Natural Gas | Volatile Organic Compounds (VOC) | The pilot and purge gas fuels shall be Natural Gas | 168 | HR/YR |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | ammonia storage flare EU-016 | 19.39 | Natural Gas | Nitrogen Oxides (NOx) | The pilot and purge gas fuels shall be Natural Gas | 168 | HR/YR |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | ammonia storage flare EU-016 | 19.39 | Natural Gas | Carbon Monoxide | The pilot and purge gas fuels shall be Natural Gas | 168 | HR/YR |

## RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| LA-0388 | LACC LLC US - ETHYLENE PLANT | 2/25/2022 | Ethylene Plant Flares Emissions Cap | 19.31 | | Carbon Monoxide | | 180.38 | TPY |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Discontinuous Urea Flare EU-DUF | 19.39 | Natural Gas | Volatile Organic Compounds (VOC) | The pilot and purge gas fuels shall be Natural Gas | 240 | HR/YR |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Discontinuous Urea Flare EU-DUF | 19.39 | Natural Gas | Nitrogen Oxides (NOx) | The pilot and purge gas fuels shall be Natural Gas. | 240 | HR/YR |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Discontinuous Urea Flare EU-DUF | 19.39 | Natural Gas | Carbon Monoxide | The pilot and purge gas fuels shall be Natural Gas | 240 | HR/YR |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Discontinuous Urea Flare EU-DUF | 19.39 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | The pilot and purge gas fuels shall be Natural Gas | 240 | HR/YR |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Front End Flare EU 017 | 19.39 | Natural Gas | Volatile Organic Compounds (VOC) | The pilot and purge gas fuels shall be Natural Gas | 336 | HR/YR |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Back End Flare EU-018 | 19.39 | Natural Gas | Volatile Organic Compounds (VOC) | The pilot and purge gas fuels shall be Natural Gas | 336 | HR/YR |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Front End Flare EU 017 | 19.39 | Natural Gas | Nitrogen Oxides (NOx) | The pilot and purge gas fuels shall be Natural Gas | 336 | HR/YR |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Back End Flare EU-018 | 19.39 | Natural Gas | Nitrogen Oxides (NOx) | The pilot and purge gas fuels shall be Natural Gas | 336 | HR/YR |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Front End Flare EU 017 | 19.39 | Natural Gas | Carbon Monoxide | shall be Natural Gas | 336 | HR/YR |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Back End Flare EU-018 | 19.39 | Natural Gas | Carbon Monoxide | The pilot and purge gas fuels shall be Natural Gas | 336 | HR/YR |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Front End Flare EU 017 | 19.39 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | The pilot and purge gas fuels shall be Natural Gas | 336 | HR/YR |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Back End Flare EU-018 | 19.39 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | The pilot and purge gas fuels shall be Natural Gas | 336 | HR/YR |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | Sulfur Block Flare | 50.006 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | | 448 | TONS |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | Loading Flare | 50.008 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | | 559 | TONS |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | ammonia storage flare EU-016 | 19.39 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | The pilot and purge gas fuels shall be Natural Gas | 563 | LB/MMBTU |
| LA-0340 | GEISMAR SITE-ETHYLENE OXIDE (EO)/ETHYLENE GLYCOL (EG) PLANT | 5/2/2019 | EO/EG Flare | 19.31 | Natural Gas | Volatile Organic Compounds (VOC) | Compliance with all applicable requirements of 40 CFR 63 Subpart A (40 CFR 63.11(b) and 40 CFR 63.18) and Consent Agreement and Final Order [Docket No. CAA-06-2018-3313] as required in Appendices A thru D for the EO/EG Flare. | 668.7 | LB/HR |
| *IL-0134 | CRONUS CHEMICALS | 12/21/2023 | Ammonia Storage Flare | 19.31 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | Flare Minimization Plan and Root Cause Analysis, Steam-assist flare design, Work Practices in accordance with 40 CFR 60.18(b), GCP, use of nitrogen as purge gas | 3305 | TONS/YEAR |

## RBLC Results for Flares - NOx, CO, VOC, SO2, H2S, CO2e

**Search Criteria**
Permit Date Between 01/01/2019 And 04/19/2024
And Process Contains 'flare'
And Pollutants 'NOx', 'CO', 'VOC', 'SO2', 'H2S', 'CO2e'
*results filtered to exclude ground flares*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | PRIMARY FUEL | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|---|
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | HP Flare | 50.008 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | | 3781 | TONS |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | LP Flare | 50.008 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | | 3781 | TONS |
| *IL-0134 | CRONUS CHEMICALS | 12/21/2023 | Ammonia Flare | 19.31 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | Flare Minimization Plan and Root Cause Analysis, Steam-assist flare design, Work Practices in accordance with 40 CFR 63.11(b), GCP, use of nitrogen as purge gas | 16093 | TONS/YEAR |
| *IL-0134 | CRONUS CHEMICALS | 12/21/2023 | Front End Flare | 19.31 | Natural Gas | Carbon Dioxide Equivalent (CO2e) | Flare Minimization Plan and Root Cause Analysis, Steam-assist flare design, Work Practices in accordance with 40 CFR 63.11(b), GCP, use of nitrogen as purge gas | 18603 | TONS/YEAR |
| LA-0388 | LACC LLC US - ETHYLENE PLANT | 2/25/2022 | Ethylene Plant Flares Emissions Cap | 19.31 | | Carbon Dioxide Equivalent (CO2e) | | 72927 | TPY |

## RBLC Results for Fugitives

**Search Criteria**

Permit Date Between 01/01/2014 And 04/19/2024
And Process Contains 'fugitive'
*results filtered to exclude non-piping type fugitives*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|
| TX-0847 | VALERO PORT ARTHUR REFINERY | 9/16/2018 | Equipment Leaks/Fugitive Emissions | 50.007 | Hydrogen Sulfide | 28 VHP | 0 | |
| TX-0906 | PORT ARTHUR REFINERY | 10/30/2020 | FUGITIVES | 64.002 | Hydrogen Sulfide | TCEQ 28AVO leak detection and repair (LDAR) program | 0 | |

## RBLC Results for Fugitives

**Search Criteria**

Permit Date Between 01/01/2014 And 04/19/2024
And Process Contains 'fugitive'
*results filtered to exclude non-piping type fugitives*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|
| *LA-0312 | ST. JAMES METHANOL PLANT | 6/30/2017 | PF-13 - Process Fugitives (FUG0002) | 99.999 | Volatile Organic Compounds (VOC) | Compliance with NESHAP Subpart H. LDAR Monitoring. | 0 | |
| *LA-0324 | COMMONWEALTH LNG FACILITY | 3/28/2023 | Fugitive Emissions (FUG0001) | 99.999 | Volatile Organic Compounds (VOC) | Appropriate component selection, design, and installation; Utilizing proper piping design; Compliance with LAC 33:III.2111; and LDAR. | 0 | |
| *LA-0339 | SHINTECH PLAQUEMINE PLANT 3 | 1/19/2021 | Fugitives (FUG0021) | 63.036 | Volatile Organic Compounds (VOC) | Compliance with 40 CFR 60 Subpart HHHHHHH | 0 | |
| *LA-0381 | EUEG-5 UNIT - GEISMAR PLANT | 12/12/2019 | Fugitives 4-19 (FUG0021) | 64.002 | Carbon Dioxide Equivalent (CO2e) | LDAR meets requirements of 40 CFR 63 Subpart H | 0 | |
| *LA-0394 | GEISMAR PLANT | 12/12/2023 | 44-22 - AO-5 Fugitive Emissions | 64.002 | Carbon Dioxide Equivalent (CO2e) | Implementation of an LDAR program is the most effective strategy for control of fugitive VOC emissions and will also minimize emissions of GHGs | 0 | |
| *LA-0394 | GEISMAR PLANT | 12/12/2023 | 44-22 - AO-5 Fugitive Emissions | 64.002 | Volatile Organic Compounds (VOC) | Implementation of an LDAR program is the most effective strategy for control of fugitive VOC emissions | 0 | |
| *LA-0394 | GEISMAR PLANT | 12/12/2023 | 54-22 - PAO Fugitive Emissions | 64.002 | Volatile Organic Compounds (VOC) | Implementation of an LDAR program for components in accordance with the requirements of 40 CFR 63 Subpart H | 0 | |
| *LA-0401 | KOCH METHANOL (KME) FACILITY | 12/20/2023 | FUG - Fugitive Emissions - KMe Facility | 64.002 | Volatile Organic Compounds (VOC) | Equipment design and LDAR pursuant to 40 CFR 60, Subpart VVa and 40 CFR 63, Subpart H | 0 | |
| *TN-0163 | HOLSTON ARMY AMMUNITION PLANT | 10/8/2018 | Fugitive Equipment Leaks | 64.002 | Volatile Organic Compounds (VOC) | Comply with NSPS VVa work practices | 0 | |
| *TX-0956 | ENTERPRISE MONT BELVIEU COMPLEX | 6/8/2023 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | VOC fugitives will be controlled via 28LAER;<br>In addition, EP will utilize leak free pumps and compressors | 0 | |
| *TX-0962 | POINT COMFORT PLANT | 9/22/2023 | Fugitive Piping Leaks | 50.007 | Volatile Organic Compounds (VOC) | A modified version of the 28VHP LDAR program using a 500 ppm leak definition is used.<br>28CNTA. 28PI specifically for mineral oil service. | 0 | |
| *TX-0964 | NEDERLAND FACILITY | 10/5/2023 | EQUIPMENT FUGITIVES | 50.999 | Carbon Dioxide Equivalent (CO2e) | Good management practice and personal portable CO<br>monitors for leaking detection | 0 | |
| *TX-0965 | ORANGE PLANT | 12/29/2023 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | 28VHP & 28CNTA LDAR | 0 | |
| *TX-0966 | EQUSTAR LAPORTE COMPLEX | 11/14/2023 | FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28LAER LDAR program | 0 | |
| *TX-0967 | QUAIL RUN CARBON CAPTURE PLANT | 2/5/2024 | EQUIPMENT FUGITIVES | 99.999 | Volatile Organic Compounds (VOC) | 28M Leak detection and repair (LDAR) program (voluntary).<br>The total VOC emission rate from equipment leak fugitives from all fugitives associated with the proposed project combined before taking LDAR credits is approximately 9.38 tpy,,which does not require LDAR control per TCEQ Tier 1 BACT. However, the applicant will voluntarily implement the 28M LDAR program. | 0 | |
| *TX-0971 | SWEENY COMPLEX | 4/5/2024 | FUGITIVE COMPONENTS | 64.002 | Carbon Dioxide Equivalent (CO2e) | 28VHP and 28CNTQ Leak Detection and Repair (LDAR) programs | 0 | |
| *TX-0972 | PORT ARTHUR CHEMICAL PLANT | 4/5/2024 | FUGITIVE COMPONENTS | 64.002 | Carbon Dioxide Equivalent (CO2e) | 28VHP and 28CNTA Leak Detection and Repair (LDAR) programs | 0 | |
| *TX-0972 | PORT ARTHUR CHEMICAL PLANT | 4/5/2024 | FUGITIVE COMPONENTS | 64.002 | Volatile Organic Compounds (VOC) | 28VHP and 28CNTA Leak Detection and Repair (LDAR) programs | 0 | |
| *WI-0273 | SUPERIOR REFINING COMPANY LLC | 7/15/2022 | F1: Fugitive Components | 50.007 | Volatile Organic Compounds (VOC) | Leak Detection and Repair (LDAR) | 0 | SEE NOTES |
| IN-0324 | MIDWEST FERTILIZER COMPANY LLC | 5/6/2022 | Fugitive emissions from equipment leaks F-1 | 49.999 | Volatile Organic Compounds (VOC) | | 0 | |
| IN-0345 | EVONIK CORPORATION TIPPECANOE LABORATORIES | 12/17/2021 | Bulk Chemical Manuf. Equipment Leaks/Fugitive | 69.011 | Volatile Organic Compounds (VOC) | | 0 | |

## RBLC Results for Fugitives

**Search Criteria**
Permit Date Between 01/01/2014 And 04/19/2024
And Process Contains 'fugitive'
*results filtered to exclude non-piping type fugitives*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|
| KY-0112 | WESTLAKE VINYLS, INC.-PVC PLANT | 11/13/2020 | Fugitive Equipment Leaks [EU20] | 63.036 | Volatile Organic Compounds (VOC) | Leak is defined as reading of 500ppmv; BACT includes:<br>proper labeling and following the requirements in 40 CFR 63, Subpart UU and following good work practices including:<br>1.Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes based on the material.<br>2. New and reworked buried connectors shall be welded.<br>3. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be reasonably accessible for leak checking during plant operation.<br>4. Damaged, leaking, or severely rusted valves, connectors, compressor seals, agitator seals, and pump seals found by visual inspection to be leaking (e.g., process fluids) shall be tagged and replaced or repaired. All leaking components that cannot be repaired until a scheduled shutdown<br>shall be identified for such repair by tagging.<br>5. Open-ended lines are required to be equipped with a cap, plug, blind flange, or second valve.<br>6. New relief valves are required to vent to a control device for any potential releases and as a result, any fugitive emissions are reduced. Exceptions may be made if venting relief valves to control will result in a safety concern, but this does not exempt the company from controls such as equipping the valve with a rupture disk and pressure-sensing device. | 0 | |
| KY-0113 | WESTLAKE CHEMICAL OPCO, LP | 9/21/2020 | EU# 025A (EPN FUG-ETH-VVa) Ethylene Plant Fugitives | 64.002 | Carbon Dioxide Equivalent (CO2e) | The equipment leak fugitives involve process piping components (pumps, valves, connectors, etc.) to distribute the liquid and gaseous materials among process units during the manufacture of products. Emissions from those components are mostly related to leakage from seals, connection interfaces, valve stems, etc.<br><br>Control method is the same as that for VOC BACT.<br><br>Leak is defined as reading of 500ppmv; BACT includes:<br>proper labeling and following the requirements in 40 CFR 60, Subpart VVa and following good work practices including:<br>1.Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes based on the material.<br>2. New and reworked buried connectors shall be welded.<br>3. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be reasonably accessible for leak checking during plant operation.<br>4. Damaged, leaking, or severely rusted valves, connectors, compressor seals, agitator seals, and pump seals found by visual inspection to be leaking (e.g., process fluids) shall be tagged and replaced or repaired. All leaking components that cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging.<br>5. Open-ended lines are required to be equipped with a cap, plug, blind flange, or second valve.<br>6. New relief valves are required to vent to a control device for any potential releases and as a result, any fugitive emissions are reduced. Exceptions may be made if venting relief valves to control will result in a safety concern, but this does not exempt the company from controls such as equipping the valve with a rupture disk and pressure-sensing device. | 0 | |

## RBLC Results for Fugitives

**Search Criteria**
Permit Date Between 01/01/2014 And 04/19/2024
And Process Contains 'fugitive'
*results filtered to exclude non-piping type fugitives*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|
| KY-0113 | WESTLAKE CHEMICAL OPCO, LP | 9/21/2020 | EU# 025B (EPN FUG-ETH) Ethylene Plant Fugitives | 64.002 | Carbon Dioxide Equivalent (CO2e) | Control method is the same as that for VOC BACT.<br><br>Leak is defined as reading of 500ppmv; BACT includes:<br>proper labeling and following the requirements in 40 CFR 60, Subpart VVa and following good work practices including:<br>1.Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes based on the material.<br>2. New and reworked buried connectors shall be welded.<br>3. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be reasonably accessible for leak checking during plant operation.<br>4. Damaged, leaking, or severely rusted valves, connectors, compressor seals, agitator seals, and pump seals found by visual inspection to be leaking (e.g., process fluids) shall be tagged and replaced or repaired. All leaking components that cannot be repaired until a scheduled shutdown<br>shall be identified for such repair by tagging.<br>5. Open-ended lines are required to be equipped with a cap, plug, blind flange, or second valve.<br>6. New relief valves are required to vent to a control device for any potential releases and as a result, any fugitive emissions are reduced. Exceptions may be made if venting relief valves to control will result in a safety concern, but this does not exempt the company from controls such as equipping the valve with a rupture disk and pressure-sensing device. | 0 | |
| KY-0113 | WESTLAKE CHEMICAL OPCO, LP | 9/21/2020 | EU# 025 (EPN FUG-ETH-YY) Ethylene Plant Fugitives | 64.002 | Carbon Dioxide Equivalent (CO2e) | The equipment leak fugitives involve process piping components (pumps, valves, connectors, etc.) to distribute the liquid and gaseous materials among process units during the manufacture of products. Emissions from those components are mostly related to leakage from seals, connection interfaces, valve stems, etc.<br><br>Control method is the same as that for VOC BACT.<br><br>Leak is defined as reading of 500ppmv; BACT includes:<br>proper labeling and following the requirements in 40 CFR 63, Subpart YY and Subpart UU and following good work practices including:<br>1.Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes based on the material.<br>2. New and reworked buried connectors shall be welded.<br>3. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be reasonably accessible for leak checking during plant operation.<br>4. Damaged, leaking, or severely rusted valves, connectors, compressor seals, agitator seals, and pump seals found by visual inspection to be leaking (e.g., process fluids) shall be tagged and replaced or repaired. All leaking components that cannot be repaired until a scheduled shutdown<br>shall be identified for such repair by tagging.<br>5. Open-ended lines are required to be equipped with a cap, plug, blind flange, or second valve.<br>6. New relief valves are required to vent to a control device for any potential releases and as a result, any fugitive emissions are reduced. Exceptions may be made if venting relief valves to control will result in a safety concern, but this does not exempt the company from controls such as equipping the valve with a rupture disk and pressure-sensing device. | 0 | |

## RBLC Results for Fugitives

**Search Criteria**
Permit Date Between 01/01/2014 And 04/19/2024
And Process Contains 'fugitive'
*results filtered to exclude non-piping type fugitives*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|
| KY-0113 | WESTLAKE CHEMICAL OPCO, LP | 9/21/2020 | EU# 025A (EPN FUG-ETH-VVa) Ethylene Plant Fugitives | 64.002 | Volatile Organic Compounds (VOC) | Leak is defined as reading of 500ppmv; BACT includes:<br>proper labeling and following the requirements in 40 CFR 60, Subpart VVa and following good work practices including:<br>1.Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes based on the material.<br>2. New and reworked buried connectors shall be welded.<br>3. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be reasonably accessible for leak checking during plant operation.<br>4. Damaged, leaking, or severely rusted valves, connectors, compressor seals, agitator seals, and pump seals found by visual inspection to be leaking (e.g., process fluids) shall be tagged and replaced or repaired. All leaking components that cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging.<br>5. Open-ended lines are required to be equipped with a cap, plug, blind flange, or second valve.<br>6. New relief valves are required to vent to a control device for any potential releases and as a result, any fugitive emissions are reduced. Exceptions may be made if venting relief valves to control will result in a safety concern, but this does not exempt the company from controls such as equipping the valve with a rupture disk and pressure-sensing device. | 0 | |
| KY-0113 | WESTLAKE CHEMICAL OPCO, LP | 9/21/2020 | EU# 025B (EPN FUG-ETH) Ethylene Plant Fugitives | 64.002 | Volatile Organic Compounds (VOC) | Leak is defined as reading of 500ppmv; BACT includes:<br>proper labeling and following the requirements in 40 CFR 60, Subpart VVa and following good work practices including:<br>1.Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes based on the material.<br>2. New and reworked buried connectors shall be welded.<br>3. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be reasonably accessible for leak checking during plant operation.<br>4. Damaged, leaking, or severely rusted valves, connectors, compressor seals, agitator seals, and pump seals found by visual inspection to be leaking (e.g., process fluids) shall be tagged and replaced or repaired. All leaking components that cannot be repaired until a scheduled shutdown<br>shall be identified for such repair by tagging.<br>5. Open-ended lines are required to be equipped with a cap, plug, blind flange, or second valve.<br>6. New relief valves are required to vent to a control device for any potential releases and as a result, any fugitive emissions are reduced. Exceptions may be made if venting relief valves to control will result in a safety concern, but this does not exempt the company from controls such as equipping the valve with a rupture disk and pressure-sensing device. | 0 | |

## RBLC Results for Fugitives

**Search Criteria**
Permit Date Between 01/01/2014 And 04/19/2024
And Process Contains 'fugitive'
*results filtered to exclude non-piping type fugitives*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|
| KY-0113 | WESTLAKE CHEMICAL OPCO, LP | 9/21/2020 | EU# 025 (EPN FUG-ETH-YY) Ethylene Plant Fugitives | 64.002 | Volatile Organic Compounds (VOC) | Leak is defined as reading of 500ppmv; BACT includes:<br>proper labeling and following the requirements in 40 CFR 63, Subpart YY and Subpart UU and following good work practices including:<br>1.Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes based on the material.<br>2. New and reworked buried connectors shall be welded.<br>3. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be reasonably accessible for leak checking during plant operation.<br>4. Damaged, leaking, or severely rusted valves, connectors, compressor seals, agitator seals, and pump seals found by visual inspection to be leaking (e.g., process fluids) shall be tagged and replaced or repaired. All leaking components that cannot be repaired until a scheduled shutdown<br>shall be identified for such repair by tagging.<br>5. Open-ended lines are required to be equipped with a cap, plug, blind flange, or second valve.<br>6. New relief valves are required to vent to a control device for any potential releases and as a result, any fugitive emissions are reduced. Exceptions may be made if venting relief valves to control will result in a safety concern, but this does not exempt the company from controls such as equipping the valve with a rupture disk and pressure-sensing device. | 0 | |
| KY-0114 | WESTLAKE VINYLS, INC.-VINYLS PLANT | 11/13/2020 | FUG-MON-NG Monomer Plant Fugitives in Natural Gas service | 64.002 | Carbon Dioxide Equivalent (CO2e) | 1.LDAR program with instrument sensors consistent with 40 CFR 63, Subpart H requirements.<br>2.Leak is defined as a reading of 500 ppmv<br>3.Good piping design and work practices.<br>4.Installation of high quality/compatible components to provide long term control.<br><br>Good work practices include:<br>1.Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes based on the material.<br>2. New and reworked buried connectors shall be welded.<br>3. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be reasonably accessible for leak checking during plant operation.<br>4. Damaged, leaking, or severely rusted valves, connectors, compressor seals, agitator seals, and pump seals found by visual inspection to be leaking (e.g., process fluids) shall be tagged and replaced or repaired. All leaking components that cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging.<br>5. Open-ended lines are required to be equipped with a cap, plug, blind flange, or second valve.<br>6. New relief valves are required to vent to a control device for any potential releases and as a result, any fugitive emissions are reduced. Exceptions may be made if venting relief valves to control will result in a safety concern, but this does not exempt the company from controls such as equipping the valve with a rupture disk and pressure-sensing device. | 0 | |

## RBLC Results for Fugitives

**Search Criteria**
Permit Date Between 01/01/2014 And 04/19/2024
And Process Contains 'fugitive'
*results filtered to exclude non-piping type fugitives*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|
| KY-0114 | WESTLAKE VINYLS, INC.-VINYLS PLANT | 11/13/2020 | FUG-MON-H Monomer Plant Fugitives | 64.002 | Volatile Organic Compounds (VOC) | 1.The permittee will continue to follow MACT H LDAR program as required by the regulations, and promptly repairing any leaking components in accordance with the LDAR plan.<br>2.Leak is defined as a reading of 500 ppmv.<br>3.The permittee will install leakless pumps with dual mechanical seals or with a barrier fluid to reduce leaks, as possible. If a leakless pump is not feasible, the permittee shall submit justification as to its technical infeasibility.<br>4.The permittee will monitor new non-leakless pumps to a leak detection threshold of 500 ppm.<br>5.The permittee will utilize Good Work Practices.<br><br>Good work practices include:<br>1.Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes based on the material.<br>2.New and reworked buried connectors shall be welded.<br>3.To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be reasonably accessible for leak checking during plant operation.<br>4.Damaged, leaking, or severely rusted valves, connectors, compressor seals, agitator seals, and pump seals found by visual inspection to be leaking (e.g., process fluids) shall be tagged and replaced or repaired. All leaking components that cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging.<br>5.Open-ended lines are required to be equipped with a cap, plug, blind flange, or second valve.<br>6.New relief valves are required to vent to a control device for any potential releases and as a result, any fugitive emissions are reduced. Exceptions may be made if venting relief valves to control will result in a safety concern, but this does not exempt the company from controls such as equipping the valve with a rupture disk and pressure-sensing device. | 0 | |

## RBLC Results for Fugitives

**Search Criteria**
Permit Date Between 01/01/2014 And 04/19/2024
And Process Contains 'fugitive'
*results filtered to exclude non-piping type fugitives*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|
| KY-0114 | WESTLAKE VINYLS, INC.-VINYLS PLANT | 11/13/2020 | FUG-MON-NG Monomer Plant Fugitives in Natural Gas service | 64.002 | Volatile Organic Compounds (VOC) | 1.LDAR program with instrument sensors consistent with 40 CFR 63, Subpart H requirements.<br>2.Leak is defined as a reading of 500 ppmv.<br>3.Good work practices.<br>(4) The permittee shall install leak-less pumps with dual mechanical seals or with a barrier fluid to reduce leaks. If a leak-less pump is not feasible, the permittee shall submit justification as to its technical infeasibility.<br><br>Good work practices including:<br>Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes based on the material.<br>2. New and reworked buried connectors shall be welded.<br>3. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be reasonably accessible for leak checking during plant operation.<br>4. Damaged, leaking, or severely rusted valves, connectors, compressor seals, agitator seals, and pump seals found by visual inspection to be leaking (e.g., process fluids) shall be tagged and replaced or repaired. All leaking components that cannot be repaired until a scheduled shutdown<br>shall be identified for such repair by tagging.<br>5. Open-ended lines are required to be equipped with a cap, plug, blind flange, or second valve.<br>6. New relief valves are required to vent to a control device for any potential releases and as a result, any fugitive emissions are reduced. Exceptions may be made if venting relief valves to control will result in a safety concern, but this does not exempt the company from controls such as equipping the valve with a rupture disk and pressure-sensing device. | 0 | |
| LA-0277 | COMONIMER-1 UNIT | 9/1/2016 | Fugitive Emissions | 64.002 | Volatile Organic Compounds (VOC) | Comply with requirements of 40 CFR 63 Subpart UU and LAC 33:III.2111 | 0 | |
| LA-0295 | WESTLAKE FACILITY | 7/12/2016 | Facility Fugitive Emissions (FUG 4) | 63.999 | Volatile Organic Compounds (VOC) | Leak detection and repair (LDAR): LAC 33:III.2122 | 0 | |
| LA-0305 | LAKE CHARLES METHANOL FACILITY | 6/30/2016 | Fugitives | 64.002 | Carbon Dioxide Equivalent (CO2e) | | 0 | |
| LA-0307 | MAGNOLIA LNG FACILITY | 3/21/2016 | fugitives | 64.002 | Carbon Dioxide Equivalent (CO2e) | good piping design/maintenance/work practices | 0 | |
| LA-0307 | MAGNOLIA LNG FACILITY | 3/21/2016 | fugitives | 64.002 | Volatile Organic Compounds (VOC) | Comply with LAC 33:III.2111 | 0 | |
| LA-0314 | INDORAMA LAKE CHARLES FACILITY | 8/3/2016 | Fugitive Emissions | 64.002 | Volatile Organic Compounds (VOC) | proper piping design, complying with LAC 33:III.2111, and conduct an LDAR meeting requirements of 40 CFR 63 Subpart UU | 0 | |
| LA-0316 | CAMERON LNG FACILITY | 2/17/2017 | fugitive emissions | 50.007 | Carbon Dioxide Equivalent (CO2e) | Implement a leak detection and repair (LDAR) program to minimize the leak | 0 | |
| LA-0316 | CAMERON LNG FACILITY | 2/17/2017 | fugitive emissions | 50.007 | Volatile Organic Compounds (VOC) | Complying with LAC 33:III.2111 | 0 | |
| LA-0317 | METHANEX - GEISMAR METHANOL PLANT | 12/22/2016 | Process Fugitives (I-G-1000, II-G-1000) | 64.002 | Carbon Dioxide Equivalent (CO2e) | complying with 40 CFR 63 Subpart H | 0 | |
| LA-0319 | LAKE CHARLES CHEMICAL COMPLEX - COMONOMER-1 UNIT | 9/1/2016 | Fugitive Emissions FE-1 | 64.002 | Volatile Organic Compounds (VOC) | Complying with 40 CFR 63 Subpart UU | 0 | |
| LA-0346 | GULF COAST METHANOL COMPLEX | 1/4/2018 | fugitives | 64.002 | Volatile Organic Compounds (VOC) | LDAR meets requirements of 40 CFR 63 Subpart H | 0 | |
| LA-0348 | GEISMAR SYNGAS SEPARATION UNIT | 2/18/2018 | Unit Fugitive - T3 | 62.999 | Carbon Dioxide Equivalent (CO2e) | LDAR program with weekly visual, olfactory, and auditory inspections | 0 | |
| LA-0349 | DRIFTWOOD LNG FACILITY | 7/10/2018 | Fugitives | 69.999 | Carbon Dioxide Equivalent (CO2e) | Leak Management Program an Good Work Practices | 0 | |
| LA-0349 | DRIFTWOOD LNG FACILITY | 7/10/2018 | Fugitives | 69.999 | Volatile Organic Compounds (VOC) | Good Work Practices, Comply with LAC 33:III.2111, 40 CFR 63 Subpart H, TT, or UU, as applicable | 0 | |

## RBLC Results for Fugitives

**Search Criteria**
Permit Date Between 01/01/2014 And 04/19/2024
And Process Contains 'fugitive'
*results filtered to exclude non-piping type fugitives*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|
| LA-0355 | GARYVILLE REFINERY | 9/6/2018 | Fugitives from Crude Unit, Coker Unit and FCCU | 50.007 | Volatile Organic Compounds (VOC) | Comply with 40 CFR 60 Subpart GGGa | 0 | |
| LA-0356 | GARYVILLE REFINERY | 9/27/2019 | Fugitive Emissions (Unit 305, Unit 333, Refinery, GRL) | 50.007 | Volatile Organic Compounds (VOC) | Comply with 40 CFR 60 Subpart GGGa | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Fugitive Emissions | 64.002 | Volatile Organic Compounds (VOC) | Compliance with applicable provisions 40 CFR 63 Subpart UU. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Fugitive Emissions HON | 64.002 | Volatile Organic Compounds (VOC) | Compliance with applicable provisions 40 CFR 63 Subpart H. | 0 | |
| LA-0373 | LAKE CHARLES CHEMICAL COMPLEX | 1/5/2021 | UO&I Fugitives - FUG0024 | 64.002 | Volatile Organic Compounds (VOC) | Comply with 40 CFR 63 Subpart UU | 0 | |
| LA-0382 | BIG LAKE FUELS METHANOL PLANT | 4/25/2019 | Fugitives (FUG0001) | 64.002 | Volatile Organic Compounds (VOC) | Comply with 40 CFR 63 Subpart H | 0 | |
| LA-0383 | LAKE CHARLES LNG EXPORT TERMINAL | 9/3/2020 | Fugitives (FUG0001) | 50.007 | Carbon Dioxide Equivalent (CO2e) | Proper piping design and LDAR | 0 | |
| LA-0383 | LAKE CHARLES LNG EXPORT TERMINAL | 9/3/2020 | Fugitives (FUG0001) | 50.007 | Volatile Organic Compounds (VOC) | Proper piping design and LDAR | 0 | |
| LA-0385 | GARYVILLE REFINERY | 2/11/2021 | Refinery Fugitives | 50.007 | Volatile Organic Compounds (VOC) | Comply with 40 CFR 60 Subpart GGGa (for components servicing streams with 10% or more VOC) | 0 | |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3U-6 - Fugitive Emission (Bio) | 63.036 | Volatile Organic Compounds (VOC) | Compliance with 40 CFR 63 Subpart H | 0 | |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 2P-17 - PVC Unit Fugitive Emissions | 63.036 | Volatile Organic Compounds (VOC) | Compliance with 40 CFR 63 Subpart HHHHHHH | 0 | |
| OK-0175 | WILDHORSE TERMINAL | 6/29/2017 | Fugitive Emission Sources | 99.999 | Volatile Organic Compounds (VOC) | | 0 | |
| OK-0177 | CUSHING SOUTH TANK FARM | 1/4/2018 | Fugitive emission source | 99.999 | Volatile Organic Compounds (VOC) | Prepare, implement, and maintain SPCC plan. Records of quarterly inspections, identified leaks, and corrective actions shall be maintained. | 0 | |
| OK-0180 | CUSHING TERMINAL | 8/27/2019 | FUGITIVE EQUIPMENT LEAKS | 99.999 | Volatile Organic Compounds (VOC) | Conduct and record AVO observations. Prepare, implement, and maintain SPCC plan. Records of inspections, identified leaks, and corrective actions. | 0 | |
| SC-0182 | FIBER INDUSTRIES LLC | 10/31/2017 | Fugitives | 63.028 | Volatile Organic Compounds (VOC) | Use of leakless types of components to replace individual chronically leaking components where possible and the use an LDAR program which includes the applicable provisions of 40 CFR 63, Subpart JJJ. | 0 | |
| TX-0801 | PL PROPYLENE HOUSTON OLEFINS PLANT | 6/24/2016 | Fugitives | 50.007 | Carbon Dioxide Equivalent (CO2e) | LDAR 28LAER | 0 | |
| TX-0827 | PRAXAIR CLEAR LAKE PLANT | 10/19/2017 | HyCO FUGITIVES | 64.002 | Carbon Dioxide Equivalent (CO2e) | | 0 | |
| TX-0830 | PRAXIAR CLEAR LAKE | 10/20/2017 | HYCO FUGITIVES | 64.002 | Carbon Dioxide Equivalent (CO2e) | | 0 | |
| TX-0838 | BEAUMONT CHEMICAL PLANT | 6/13/2018 | fugitives | 64.002 | Carbon Dioxide Equivalent (CO2e) | 28MID LDAR | 0 | |
| TX-0838 | BEAUMONT CHEMICAL PLANT | 6/13/2018 | fugitives | 64.002 | Carbon Dioxide Equivalent (CO2e) | 28MID LDAR | 0 | |
| TX-0840 | CORPUS CHRISTI TERMINAL | 10/31/2018 | FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | Fugitive Leak Detection and Repair (LDAR) per the 28 MID Monitoring program that requires quarterly monitoring of all components with a leak definition of 500 ppmv and directed maintenance. | 0 | |
| TX-0845 | ARKEMA BEAUMONT PLANT | 8/24/2018 | FUGITIVES | 62.02 | Carbon Dioxide Equivalent (CO2e) | AVO | 0 | |
| TX-0847 | VALERO PORT ARTHUR REFINERY | 9/16/2018 | Equipment Leaks/Fugitive Emissions | 50.007 | Carbon Dioxide Equivalent (CO2e) | 28 VHP | 0 | |
| TX-0847 | VALERO PORT ARTHUR REFINERY | 9/16/2018 | Equipment Leaks/Fugitive Emissions | 50.007 | Volatile Organic Compounds (VOC) | 28 VHP | 0 | |
| TX-0849 | MONT BELVIEU | 10/16/2018 | FUGITIVES | 50.002 | Volatile Organic Compounds (VOC) | 28 VHP LAER | 0 | |
| TX-0850 | CORPUS CHRISTI TERMINAL | 7/15/2018 | FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28 MID | 0 | |
| TX-0851 | RIO BRAVO PIPELINE FACILITY | 12/17/2018 | FUGITIVES | 50.007 | Carbon Dioxide Equivalent (CO2e) | 28 VHP | 0 | |

## RBLC Results for Fugitives

**Search Criteria**

Permit Date Between 01/01/2014 And 04/19/2024
And Process Contains 'fugitive'
*results filtered to exclude non-piping type fugitives*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|
| TX-0851 | RIO BRAVO PIPELINE FACILITY | 12/17/2018 | FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28VHP | 0 | |
| TX-0852 | CORPUS CHRISTI WATERFRONT TERMINAL | 1/2/2019 | Fugitive Components | 50.007 | Volatile Organic Compounds (VOC) | 28LAER | 0 | |
| TX-0855 | BUCKEYE SOUTH TEXAS GATEWAY TERMINAL | 3/13/2019 | Fugitives | 50.007 | Volatile Organic Compounds (VOC) | 28 VHP, 28PI LDAR | 0 | |
| TX-0858 | GULF COAST GROWTH VENTURES PROJECT | 6/12/2019 | Fugitive Components | 64.002 | Carbon Dioxide Equivalent (CO2e) | TCEQ 28VHP and 28CNTQ leak detection and repair (LDAR) programs for piping components in VOC service | 0 | |
| TX-0858 | GULF COAST GROWTH VENTURES PROJECT | 6/12/2019 | Fugitive Components | 64.002 | Volatile Organic Compounds (VOC) | TCEQ 28VHP and 28CNTQ leak detection and repair (LDAR) programs for piping components in VOC service | 0 | |
| TX-0859 | GULF COAST GROWTH VENTURES PROJECT RAILYARD | 6/12/2019 | Fugitive Components & Piping | 64.002 | Volatile Organic Compounds (VOC) | monitored quarterly using an approved portable hydrocarbon analyzer. Leaks are defined at 500 ppmv VOC for valves and flanges, and 2,000 ppmv VOC for pump seals. Components in heavy liquid service, which are exempt from instrumental monitoring, must be inspected weekly via audio, visual and olfactory (AVO) | 0 | |
| TX-0861 | BUCKEYE TEXAS PROCESSING CORPUS CHRISTI FACILITY | 8/29/2019 | FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28VHP LDAR | 0 | |
| TX-0862 | BUCKEYE TEXAS HUB | 9/27/2019 | Fugitives | 42.009 | Volatile Organic Compounds (VOC) | 28 VHP & 28CNTA LDAR | 0 | |
| TX-0863 | POLYETHYLENE 7 FACILITY | 9/3/2019 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | 28 MID | 0 | |
| TX-0865 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | FUGITIVES | 50.007 | Carbon Dioxide Equivalent (CO2e) | 28LAER & 28PI LDAR | 0 | |
| TX-0865 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28LAER, 28PI LDAR | 0 | |
| TX-0871 | PORT ARTHUR REFINERY | 1/31/2020 | Fugitives | 50.007 | Volatile Organic Compounds (VOC) | 28VHP leak detection and repair (LDAR) | 0 | |
| TX-0873 | PORT ARTHUR REFINERY | 2/4/2020 | FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28 MID, 28 AVO and OGI fugitive programs.<br>Authorized for infrared camera (28MID+). | 0 | |
| TX-0874 | PORT ARTHUR REFINERY | 2/4/2020 | FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28MID LDAR and 28CNTQ. | 0 | |
| TX-0876 | PORT ARTHUR ETHANE CRACKER UNIT | 2/6/2020 | FUGITIVES | 64.002 | Carbon Dioxide Equivalent (CO2e) | TCEQ 28VHP and 28CNTQ leak detection and repair (LDAR) programs | 0 | |
| TX-0877 | SWEENY REFINERY | 1/8/2020 | FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28 MID: 97% control efficiencies for valves in gas/vapor and light liquid, 93% control efficiency for pumps light liquids and 30% for heavy liquid, 95% for compressors, 97% for relief valves.<br><br>28CNTQ: 97% control efficiencies for flanges/connectors in gas/vapor and light liquid and 30% for heavy liquid.<br><br>28PI: 30% control efficiencies for valves all phases, pumps all phases, flanges/connectors all phases, compressors, and relieve valves. | 0 | |
| TX-0878 | LNG EXPORT TERMINAL | 9/15/2022 | FUGITIVES | 50.999 | Carbon Dioxide Equivalent (CO2e) | 28 VHP | 0 | |
| TX-0878 | LNG EXPORT TERMINAL | 9/15/2022 | FUGITIVES | 50.999 | Volatile Organic Compounds (VOC) | 28 VHP | 0 | |
| TX-0879 | MOTIVA PORT ARTHUR TERMINAL | 2/19/2020 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | 28PET leak detection and repair program. Monthly Audio/Visual/Olfactory (AVO) inspection requirements | 0 | |
| TX-0879 | MOTIVA PORT ARTHUR TERMINAL | 2/19/2020 | PROCESS FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | 28VHP leak detection and repair program. 97% credit for valves, 85% for pumps and compressors. | 0 | |
| TX-0881 | EXXONMOBIL BEAUMONT REFINERY | 1/10/2020 | FUGITIVES | 50.007 | Carbon Dioxide Equivalent (CO2e) | Compliance with Refinery MACT fugitives and Texas 28VHP LDAR program. | 0 | |
| TX-0884 | PROPANE DEHYDROGENATION (PDH) UNIT | 1/24/2020 | FUGITIVES | 64.002 | Carbon Dioxide Equivalent (CO2e) | 28LAER; In addition, utilize leak free pumps and compressors. | 0 | |

## RBLC Results for Fugitives

**Search Criteria**

Permit Date Between 01/01/2014 And 04/19/2024
And Process Contains 'fugitive'
*results filtered to exclude non-piping type fugitives*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|
| TX-0884 | PROPANE DEHYDROGENATION (PDH) UNIT | 1/24/2020 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | 28 LAER | 0 | |
| TX-0886 | MONT BELVIEU NGL FRACTIONATION UNIT | 3/31/2020 | EQUIPMENT LEAK FUGITIVES | 50.002 | Volatile Organic Compounds (VOC) | 28 LAER leak detection and repair (LDAR) program | 0 | |
| TX-0887 | MIDLAND PLAINS MARKETING TERMINAL | 4/7/2020 | Fugitives | 50.007 | Volatile Organic Compounds (VOC) | The site-wide fugitive emissions are less than 10 tpy uncontrolled VOC emissions. LADR program and emission reduction credit is not applied. | 0 | |
| TX-0888 | ORANGE POLYETHYLENE PLANT | 4/23/2020 | FUGITIVE COMPONENTS | 64.002 | Carbon Dioxide Equivalent (CO2e) | 28 VHP, 28CNTA, 28PI leak detection and repair (LDAR) programs | 0 | |
| TX-0888 | ORANGE POLYETHYLENE PLANT | 4/23/2020 | FUGITIVE COMPONENTS | 64.002 | Volatile Organic Compounds (VOC) | 28 VHP, 28CNTA, 28PI leak detection and repair (LDAR) programs | 0 | |
| TX-0890 | ENTERPRISE PRODUCTS OPERATING MOUNT BELVIEU COMPLEX | 7/15/2020 | Fugitive components | 64.002 | Volatile Organic Compounds (VOC) | 28 LAER LDAR | 0 | |
| TX-0892 | NEDERLAND TERMINAL | 7/13/2020 | fugitives | 50.007 | Volatile Organic Compounds (VOC) | 28-VHP LDAR fugitive | 0 | |
| TX-0894 | CHEVRON PHILLIPS CHEMICAL SWEENY COMPLEX | 10/30/2020 | Unit 81 Fugitives (EPN FUG-02) | 64.002 | Volatile Organic Compounds (VOC) | Piping components at the Sweeny site are currently monitored under the stringent 28LAER LDAR program. The proposed piping components in this amendment will be monitored using the 28LAER program. Valves in heavy liquid service will use the language in the 28LAER LDAR program that requires AVO inspection. | 0 | |
| TX-0899 | LBC HOUSTON BAYPORT TERMINAL | 3/5/2021 | FUGITIVES | 99.999 | Volatile Organic Compounds (VOC) | Fugitive components will be monitored under the 28LAER program. This control meets LAER | 0 | |
| TX-0903 | SWEENY REFINERY | 9/9/2020 | Equipment Leaks/Fugitive Emission | 50.007 | Volatile Organic Compounds (VOC) | Fugitive Leak Detection and Repair (LDAR) per the 28MID, 28PI, 28CNTQ, and 28CNTA monitoring programs. | 0 | |
| TX-0904 | MOTIVA POLYETHYLENE MANUFACTURING COMPLEX | 9/9/2020 | FUGITIVES | 64.002 | Carbon Dioxide Equivalent (CO2e) | TCEQ 28VHP and 28CNTQ leak detection and repair (LDAR) programs | 0 | |
| TX-0904 | MOTIVA POLYETHYLENE MANUFACTURING COMPLEX | 9/9/2020 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | TCEQ 28VHP and 28CNTQ leak detection and repair (LDAR) programs | 0 | |
| TX-0906 | PORT ARTHUR REFINERY | 10/30/2020 | FUGITIVES | 64.002 | Carbon Dioxide Equivalent (CO2e) | TCEQ 28VHP (LDAR) program | 0 | |
| TX-0906 | PORT ARTHUR REFINERY | 10/30/2020 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | TCEQ 28VHP (LDAR) program | 0 | |
| TX-0908 | NEWMAN POWER STATION | 8/27/2021 | Fugitives | 99.999 | Carbon Dioxide Equivalent (CO2e) | weekly AVO | 0 | |
| TX-0908 | NEWMAN POWER STATION | 8/27/2021 | Fugitives | 99.999 | Volatile Organic Compounds (VOC) | weekly AVO | 0 | |
| TX-0909 | POLYETHYLENE UNIT 1792 | 12/8/2020 | Fugitives | 50.007 | Volatile Organic Compounds (VOC) | 28VHP | 0 | |
| TX-0910 | POLYETHYLENE UNIT 1796 | 12/11/2020 | FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28 VHP | 0 | |
| TX-0912 | MONT BELVIEU FRACTIONATOR | 2/5/2021 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | Implement a 28LAER Leak Detection and Repair program including monitoring for leaks using Method 21. | 0 | |
| TX-0914 | BORGER REFINERY | 1/21/2021 | FUGITIVE COMPONENTS | 50.007 | Carbon Dioxide Equivalent (CO2e) | 28VHP | 0 | |
| TX-0914 | BORGER REFINERY | 1/21/2021 | FUGITIVE COMPONENTS | 50.007 | Volatile Organic Compounds (VOC) | 28VHP | 0 | |
| TX-0916 | CEDAR BAYOU | 2/1/2021 | FUGITIVE COMPONENTS | 50.007 | Volatile Organic Compounds (VOC) | 28 VHP | 0 | |
| TX-0918 | CEDAR BAYOU PLANT | 3/5/2021 | FUGITIVE COMPONENTS | 99.999 | Volatile Organic Compounds (VOC) | 28LAER | 0 | |
| TX-0921 | HOUSTON PLANT - 22052 | 6/13/2022 | FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28LAER | 0 | |
| TX-0922 | HOUSTON PLANT - 46307 | 6/13/2022 | FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28 LAER | 0 | |
| TX-0924 | HOUSTON PLANT - 19806 | 6/13/2022 | FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28 LAER | 0 | |

## RBLC Results for Fugitives

**Search Criteria**

Permit Date Between 01/01/2014 And 04/19/2024
And Process Contains 'fugitive'
*results filtered to exclude non-piping type fugitives*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|
| TX-0929 | FORMOSA POINT COMFORT PLANT | 10/15/2021 | FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | modified 28VHP LDAR program in VOC service. A more stringent 500ppmv leak definition of 28MID is used. Annual 28CNTA monitoring is voluntarily used. | 0 | |
| TX-0930 | CENTURION BROWNSVILLE | 10/19/2021 | Fugitive Components | 50.007 | Volatile Organic Compounds (VOC) | Leak detection and repair (LDAR) monitoring and directed maintenance in accordance with the 28VHP program. Quarterly instrumental monitoring using a Method 21 gas analyzer. | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | Fugitives | 64.002 | Volatile Organic Compounds (VOC) | TCEQ 28VHP/28CNTQ (LDAR) Program | 0 | |
| TX-0936 | BILL GREEHEY REFINERY EAST PLANT | 3/29/2022 | REFINERY FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28VHP, 28AVO | 0 | |
| TX-0939 | ORANGE COUNTY ADVANCED POWER STATION | 3/13/2023 | NATURAL GAS FUGITIVES | 50.007 | Carbon Dioxide Equivalent (CO2e) | 28AVO LDAR program | 0 | |
| TX-0939 | ORANGE COUNTY ADVANCED POWER STATION | 3/13/2023 | NATURAL GAS FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28AVO LDAR program | 0 | |
| TX-0939 | ORANGE COUNTY ADVANCED POWER STATION | 3/13/2023 | AMMONIA FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28AVO LDAR program | 0 | |
| TX-0939 | ORANGE COUNTY ADVANCED POWER STATION | 3/13/2023 | DIESEL FUGITIVES | 50.007 | Volatile Organic Compounds (VOC) | 28PI LDAR | 0 | |
| TX-0942 | DIAMOND GREEN DIESEL PORT ARTHUR FACILITY | 9/13/2022 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | TCEQ 28VHP and 28PI (for ultra-heavy liquids with low vp) leak detection and repair (LDAR) programs | 0 | |
| TX-0945 | FORMOSA POINT COMFORT PLANT OL3 | 4/6/2023 | FUGITIVES | 64.002 | Carbon Dioxide Equivalent (CO2e) | 28 VHP | 0 | |
| TX-0945 | FORMOSA POINT COMFORT PLANT OL3 | 4/6/2023 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | 28 VHP LDAR | 0 | |
| TX-0955 | INEOS OLIGOMERS CHOCOLATE BAYOU | 3/14/2023 | EQUIPMENT FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | TCEQ 28LAER leak detection and repair (LDAR) quarterly instrument monitoring program with weekly AVO walk through checks and instrument directed repair | 0 | |
| VA-0325 | GREENSVILLE POWER STATION | 6/17/2016 | GAS PIPING COMPONENTS-FUGITIVE LEAKS | 99.999 | Carbon Dioxide Equivalent (CO2e) | Audible/visual/olfactory (AVO) monitoring and leak repair | 0 | |
| WI-0279 | CORPORATE/COMPANY NAMEENBRIDGE ENERGY LIMITED PARTNERSHIP - | 10/2/2017 | Process NameF01 â€" Piping Component/Pumping Fugitive | 50.007 | Volatile Organic Compounds (VOC) | Complying with Leak Detection and Repair (LDAR) Program | 0 | |
| WI-0307 | ENBRIDGE SUPERIOR TERMINAL | 9/22/2021 | Piping Component Equipment Leak Fugitive (F01A) | 50.007 | Volatile Organic Compounds (VOC) | Use certified low-leaking valves or fit certified low-leaking valve packing technology on pressure relief piping and leak detection and repair (LDAR) program. | 0 | SEE NOTES |
| WI-0311 | SUPERIOR REFINING COMPANY LLC | 9/27/2019 | Fugitive Components (F100) | 50.007 | Volatile Organic Compounds (VOC) | Leak Detection and Repair (LDAR) | 0 | SEE NOTES |
| WI-0315 | SUPERIOR REFINING COMPANY LLC | 10/9/2020 | Fugitive components (F100) | 50.007 | Volatile Organic Compounds (VOC) | Leak Detection and Repair (LDAR) | 0 | SEE NOTES |
| TX-0808 | HOUSTON FUEL OIL TERMINAL | 9/2/2016 | Fugitives at Marine Loading | 42.004 | Volatile Organic Compounds (VOC) | Monitoring under 28LAER (Lowest Available Emission Rate) Leak Detection and Repair program. | 0.04 | TPY |
| *IA-0117 | SHELL ROCK SOY PROCESSING | 3/17/2021 | Fugitive VOC Sources | 70.35 | Volatile Organic Compounds (VOC) | | 0.14 | GAL/TON |
| TX-0818 | FUEL OIL TERMINAL | 4/26/2017 | FUGITIVES MARINE LOADING | 42.004 | Volatile Organic Compounds (VOC) | Monitoring under 28LAER (Lowest Available Emission Rate) Leak Detection and Repair program. | 0.16 | TPY |
| LA-0379 | SHINTECH PLAQUEMINES PLANT 1 | 5/4/2021 | PVC Unit Fugitive Emissions 2 | 63.036 | Volatile Organic Compounds (VOC) | Comply with 40 CFR 63 Subpart H. | 0.243 | LB/HR |
| LA-0328 | PLAQUEMINES PLANT 1 | 5/2/2018 | PVC Unit Fugitives | 63.036 | Volatile Organic Compounds (VOC) | Comply with 40 CFR 63 Subpart H | 0.263 | LB/HR |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-10 - VCM Unit Fugitive Emissions | 63.036 | Volatile Organic Compounds (VOC) | Compliance with 40 CFR 63 Subpart F | 0.33 | LB/HR |
| LA-0328 | PLAQUEMINES PLANT 1 | 5/2/2018 | Fugitive Emissions (Bio) | 63.036 | Volatile Organic Compounds (VOC) | Comply with 40 CFR 63 Subpart H | 0.35 | LB/HR |

## RBLC Results for Fugitives

**Search Criteria**

Permit Date Between 01/01/2014 And 04/19/2024
And Process Contains 'fugitive'
*results filtered to exclude non-piping type fugitives*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|
| TX-0800 | CORPUS CRUDE OIL TERMINAL | 6/22/2016 | Fugitives | 42.004 | Volatile Organic Compounds (VOC) | Uncontrolled VOC fugitive emissions are estimated to be less than 10 TPY. Fugitive components are monitored and minimized via an audio, olfactory, and visual (AVO) inspection once every four hours. | 0.41 | TPY |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-8 - VCM Unit Fugitive Emissions | 63.036 | Volatile Organic Compounds (VOC) | Compliance with 40 CFR 63 Subpart H | 1.31 | LB/HR |
| TX-0836 | CHOCOLATE BAYOU | 5/11/2018 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | 28LAER LDAR | 1.4 | TON/YR |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-9 - VCM Unit Fugitive Emissions | 63.036 | Volatile Organic Compounds (VOC) | Compliance with 40 CFR 63 Subpart F | 2.93 | LB/HR |
| TX-0823 | LYONDELL CHEMICAL BAYPORT CHOATE PLANT | 6/7/2017 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | 28 LAER | 4.36 | TPY |
| TX-0774 | BISHOP FACILITY | 11/12/2015 | Fugitives | 99.999 | Volatile Organic Compounds (VOC) | 28VHP fugitive monitoring program | 4.61 | TPY |
| LA-0331 | CALCASIEU PASS LNG PROJECT | 9/21/2018 | Fugitive Equipment Leaks | 50.002 | Volatile Organic Compounds (VOC) | Proper piping design and compliance with LAC 33:III.2111. | 5 | TPY |
| TX-0804 | ADN UNIT | 7/15/2016 | Equipment Leak Fugitives | 64.002 | Volatile Organic Compounds (VOC) | LDAR program (TCEQ 28VHP) | 5.41 | LB/HR |
| TX-0765 | SUNOCO MARINE VESSEL LOADING OPERATIONS | 9/18/2015 | Petroleum Refining Equipment Leaks/Fugitive Emissions | 50.007 | Volatile Organic Compounds (VOC) | Quarterly instrumental monitoring using a method 21 gas analyzer for all valves, pump seals, compressor seals, and agitator seals with a leak definition of 500 ppmv for valves and 2,000 ppmv for pump, compressor and agitator seals. Leaking components must be repaired within 15 days of detection of the leak. | 10.13 | TPY |
| TX-0803 | PL PROPYLENE HOUSTON OLEFINS PLANT | 7/12/2016 | Equipment Leak Fugitives | 64.002 | Volatile Organic Compounds (VOC) | LDAR (TCEQ 28LAER) | 11.58 | LB/HR |
| *PA-0330 | SUPERIOR TUBE | 2/5/2020 | GENERAL SOURCE FUGITIVE EMISSIONS | 81.29 | Volatile Organic Compounds (VOC) | The permittee shall record the amount of VOC-containing solvent used by this spray booth on a weekly basis when in use, and perform monthly calculations to demonstrate compliance with the VOC emission limit for each 12 consecutive month period. | 13.8 | TONS |
| TX-0872 | CONDENSATE SPLITTER FACILITY | 10/31/2019 | Fugitives (Routine) | 50.007 | Volatile Organic Compounds (VOC) | 28VHP.<br>Leak-less connectors. | 15.63 | LB/HR |
| TX-0815 | PORT ARTHUR ETHANE SIDE CRACKER | 1/17/2017 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | 28VHP LDAR Program | 17.2 | TPY |
| TX-0790 | PORT ARTHUR LNG EXPORT TERMINAL | 2/17/2016 | LNG Export Facility - Natural Gas Fugitive Emissions | 50.999 | Volatile Organic Compounds (VOC) | Work practice - leak detection and repair program (TCEQâ€™s 28 VHP LDAR program) | 21.65 | TPY |
| LA-0362 | LAKE CHARLES REFINERY, AREA D | 7/18/2019 | Area D Process D Fugitives | 50.007 | Volatile Organic Compounds (VOC) | Compliance with the most stringent applicable Leak Detection and Repair (LDAR) program, which is Louisiana MACT Determination for Refineries with Consent Decree Enhancements. | 24.44 | LB/HR |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | Block 4000 fugitive emissions | 50.007 | Volatile Organic Compounds (VOC) | Leak detection and repair (LDAR) program | 25.04 | TONS |
| TX-0799 | BEAUMONT TERMINAL | 6/8/2016 | Fugitives | 42.01 | Volatile Organic Compounds (VOC) | Uncontrolled VOC fugitive emissions are estimated to be greater than 25 tpy. Component fugitive emissions are calculated using component counts and the SOCMI without ethylene emission factors. Phillips 66 employs the 28VHP inspection and 28CNTQ monitoring program | 33.18 | TPY |
| OH-0378 | PTTGCA PETROCHEMICAL COMPLEX | 12/21/2018 | Fugitive Emissions (P807) | 64.002 | Carbon Dioxide Equivalent (CO2e) | i.an LDAR program for leaks of methane from equipment and piping components in tail gas (fuel gas) and natural gas service. The LDAR program will involve sensory monitoring methods for leaks;<br>ii.methane contained in leaks associated with fugitive VOCs will be minimized by the implementation of BACT for fugitive leaks of VOC. | 35 | TPY |
| TX-0813 | ODESSA PETROCHEMICAL PLANT | 11/22/2016 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | Quarterly instrumental monitoring of accessible pumps, compressors and valves in vapor or light liquid service, with leak definitions of 500 ppmv (valves) and 2,000 ppmv (pump and compressor seals). Upon detection of a leak, a first attempt to repair must be made within 5 days, and repairs must be completed within 15 days. | 88.52 | TPY |
| LA-0388 | LACC LLC US - ETHYLENE PLANT | 2/25/2022 | Ethylene Plant Fugitive Emissions | 64.002 | Volatile Organic Compounds (VOC) | Compliance with 40 CFR 63 Subpart UU | 93.93 | TPY |

## RBLC Results for Fugitives

**Search Criteria**
Permit Date Between 01/01/2014 And 04/19/2024
And Process Contains 'fugitive'
*results filtered to exclude non-piping type fugitives*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|
| OH-0378 | PTTGCA PETROCHEMICAL COMPLEX | 12/21/2018 | Fugitive Emissions (P807) | 64.002 | Volatile Organic Compounds (VOC) | Enhanced connector monitoring requirements to the most stringent leak detection and repair (LDAR) regulation applicable to affected equipment/process units. The following identifies LDAR requirements for affected equipment/process units which have been determined to representative of BACT:<br>i.40 CFR Part 63 Subpart UU as applicable to the ethylene manufacturing process with enhanced connector monitoring;<br>ii.40 CFR Part 60 Subpart VVa as applicable to the polyethylene manufacturing process with enhanced connector monitoring;<br>The LDAR programs indicated above which are representative of BACT shall implement the following enhanced connector monitoring requirements:<br>i.connector monitoring subsequent to the initial monitoring required shall be performed on a quarterly basis;<br>ii.if following the initial four (4) consecutive quarters, the percent leaking connectors in a process unit is less than 0.5 percent during the most recent quarterly monitoring event, then the frequency of connector monitoring can be reduced to semi-annual;<br>iii.if following two (2) consecutive semi-annual periods, the percent leaking connectors in a process unit is less than 0.5 percent during the most recent semi-annual monitoring event, then the frequency of connector monitoring can be reduced to annual.<br>iv.If more than or equal to 0.5 percent of the connectors in a process unit are determined to be leaking during any one of the semi-annual or annual monitoring events then the frequency of monitoring shall be returned to a quarterly basis. | 99.38 | TPY |
| LA-0391 | MAGNOLIA POWER GENERATING STATION UNIT 1 | 6/3/2022 | Fugitives | 99.999 | Carbon Dioxide Equivalent (CO2e) | Proper piping design and installation. | 104 | TPY |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | Block 2000 fugitive emissions | 50.007 | Volatile Organic Compounds (VOC) | leak detection and repair (LDAR) program | 151.18 | TONS |
| TX-0837 | INVISTA S.A.R.L. VICTORIA PLANT | 7/12/2018 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | 28VHP LDAR | 202.3 | TPY |
| TX-0843 | VICTORIA PLANT | 6/30/2018 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | 28VHP | 203 | TPY |
| OK-0176 | BPV GATHERING AND MARKETING CUSHING STATION | 7/19/2017 | FUGITIVE EQUIPMENT LEAKS | 99.999 | Volatile Organic Compounds (VOC) | Conduct and record AVO observations. | 217.24 | TONS/YEAR/FA |
| TX-0774 | BISHOP FACILITY | 11/12/2015 | Fugitives | 99.999 | Carbon Dioxide Equivalent (CO2e) | 28VHP fugitive monitoring program on lines containing >10% methane | 344 | TPY |
| LA-0388 | LACC LLC US - ETHYLENE PLANT | 2/25/2022 | Ethylene Plant Fugitive Emissions | 64.002 | Carbon Dioxide Equivalent (CO2e) | Compliance with 40 CFR 63 Subpart UU | 448 | TPY |
| *PA-0324 | MARCUS HOOK | 2/12/2021 | Fugitive leaks | 50.007 | Volatile Organic Compounds (VOC) | | 500 | PPM |
| TX-0783 | LBC HOUSTON BAYPORT TERMINAL | 2/5/2016 | Fugitives | 99.999 | Volatile Organic Compounds (VOC) | An enhanced leak detection and repair program (28LAER) that requires quarterly instrumental monitoring of all fugitive components (pumps, compressors, valves, connectors, seals, etc.) with directed maintenance. | 500 | PPMV |
| TX-0797 | CORPUS CHRISTI TERMINAL | 5/4/2016 | Petroleum Refining Equipment Leaks/Fugitive Emissions | 50.007 | Volatile Organic Compounds (VOC) | Fugitive Leak Detection and Repair (LDAR) per the 28 MID Monitoring program that requires quarterly monitoring of all components with a leak definition of 500 ppmv and directed maintenance. | 500 | PPM |
| TX-0864 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | Fugitive Components | 50.007 | Carbon Dioxide Equivalent (CO2e) | LDAR | 500 | PPMV |
| TX-0864 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | Fugitive Components | 50.007 | Volatile Organic Compounds (VOC) | 28LAER & 28PI | 500 | PPMV |
| TX-0876 | PORT ARTHUR ETHANE CRACKER UNIT | 2/6/2020 | FUGITIVES | 64.002 | Volatile Organic Compounds (VOC) | TCEQ 28VHP and 28CNTQ leak detection and repair (LDAR) programs | 500 | PPMV |
| TX-0824 | JACKSON COUNTY GENERATING FACILITY | 6/30/2017 | Natural Gas Fugitives | 99.999 | Carbon Dioxide Equivalent (CO2e) | weekly checks for leaks using audio, visual, and olfactory (AVO) sensing for natural gas leaks | 693.3 | TPY |
| TX-0832 | EXXONMOBIL BEAUMONT REFINERY | 1/9/2018 | FUGITIVES | 64.002 | Carbon Dioxide Equivalent (CO2e) | AVO | 758 | TPY |

## RBLC Results for Fugitives

**Search Criteria**

Permit Date Between 01/01/2014 And 04/19/2024
And Process Contains 'fugitive'
*results filtered to exclude non-piping type fugitives*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | PROCCESS TYPE | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|---|
| TX-0790 | PORT ARTHUR LNG EXPORT TERMINAL | 2/17/2016 | LNG Export Facility - Natural Gas Fugitive Emissions | 50.999 | Carbon Dioxide Equivalent (CO2e) | Work practice - leak detection and repair program (TCEQâ€™s 28 VHP LDAR program) | 1113 | TPY |
| LA-0331 | CALCASIEU PASS LNG PROJECT | 9/21/2018 | Fugitive Equipment Leaks | 50.002 | Carbon Dioxide Equivalent (CO2e) | Proper piping design. | 3141 | TPY |

# RBLC Results for Haul Roads

**Search Criteria** Permit Date Between 01/01/2014 And 04/19/2024
And Process Type = 99.150

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| KY-0115 | NUCOR STEEL GALLATIN, LLC | 4/19/2021 | Unpaved Roads (EP 04-02) | Particulate matter, filterable (FPM) | Wetting/Dust suppressants | 0 | |
| FL-0368 | NUCOR STEEL FLORIDA FACILITY | 2/14/2019 | Roads | Particulate matter, fugitive | Fugitive Dust Control Plan | 0 | |
| KY-0110 | NUCOR STEEL BRANDENBURG | 7/23/2020 | EP 14-02 - Unpaved Roadways | Particulate matter, fugitive | use of dust suppressants | 0 | |
| KY-0115 | NUCOR STEEL GALLATIN, LLC | 4/19/2021 | Unpaved Roads (EP 04-02) | Particulate matter, total <10 µm (TPM10) | Wetting/Dust suppressants | 0 | |
| OK-0173 | CMC STEEL OKLAHOMA | 1/19/2016 | Unpaved Roads | Particulate matter, total <10 µm (TPM10) | BACT for PM emissions from roads is selected as work-practice standards of paving roads, sweeping them when needed, and setting of speed limits to minimize fugitive dust emissions. Since the PM emissions are fugitive, no numerical limitation is practical. | 0 | |
| KY-0115 | NUCOR STEEL GALLATIN, LLC | 4/19/2021 | Unpaved Roads (EP 04-02) | Particulate matter, total <2.5 µm (TPM2.5) | Wetting/Dust suppressants | 0 | |
| OH-0379 | PETMIN USA INCORPORATED | 2/6/2019 | Plant Roadways (F001) | Particulate matter, total <2.5 µm (TPM2.5) | Use of wet suppression and commercial dust suppressants.<br><br>Develop and implement a site-specific work practice plan designed as described to minimize or eliminate fugitive dust emissions. | 0.02 | TPY |
| AR-0173 | BIG RIVER STEEL LLC | 1/31/2022 | Unpaved Roadways | Particulate matter, total <2.5 µm (TPM2.5) | Development and Implementation of Fugitive Dust Control Plan | 0.06 | TPY |
| AR-0173 | BIG RIVER STEEL LLC | 1/31/2022 | Vehicle Travel on Paved and Unpaved Roads | Particulate matter, total <10 µm (TPM10) | Development and Implementation of Fugitive Dust Control Plan | 0.1 | TPY |
| AR-0173 | BIG RIVER STEEL LLC | 1/31/2022 | Vehicle Travel on Paved and Unpaved Roads | Particulate matter, total <2.5 µm (TPM2.5) | Development and Implementation of Fugitive Dust Control Plan | 0.1 | TPY |
| AR-0173 | BIG RIVER STEEL LLC | 1/31/2022 | Vehicle Travel on Paved and Unpaved Roads | Particulate matter, filterable (FPM) | Development and Implementation of Fugitive Dust Control Plan | 0.2 | TPY |
| OH-0379 | PETMIN USA INCORPORATED | 2/6/2019 | Plant Roadways (F001) | Particulate matter, total <10 µm (TPM10) | Use of wet suppression and commercial dust suppressants.<br><br>Develop and implement a site-specific work practice plan designed as described to minimize or eliminate fugitive dust emissions. | 0.21 | TPY |
| AR-0173 | BIG RIVER STEEL LLC | 1/31/2022 | Unpaved Roadways | Particulate matter, total <10 µm (TPM10) | Development and Implementation of Fugitive Dust Control Plan | 0.38 | TPY |
| AR-0173 | BIG RIVER STEEL LLC | 1/31/2022 | Unpaved Roadways | Particulate matter, filterable (FPM) | Development and Implementation of Fugitive Dust Control Plan | 0.81 | TPY |

## RBLC Results for Haul Roads

**Search Criteria** Permit Date Between 01/01/2014 And 04/19/2024
And Process Type = 99.150

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| *OH-0389 | TUNNEL HILL RECLAMATION LLC | 5/8/2023 | F001 - Facility unpaved roadways and parking areas | Particulate matter, filterable <2.5 µm (FPM2.5) | Develop and implement a site-specific work practice plan with best management practices including the application of water and/or chemical dust suppressants, as needed, based on the inspections conducted in accordance with the requirements of the work practice plan. | 3.22 | TPY |
| AR-0172 | NUCOR STEEL ARKANSAS | 9/1/2021 | SN-121 SN-211 Unpaved Roads | Particulate matter, total <2.5 µm (TPM2.5) | Water Sprays, low silt surface | 3.7 | LB/HR |
| WI-0315 | SUPERIOR REFINING COMPANY LLC | 10/9/2020 | Loading Access Road (F103A) | Particulate matter, total (TPM) | | 5 | MPH |
| WI-0315 | SUPERIOR REFINING COMPANY LLC | 10/9/2020 | Loading Access Road (F103A) | Particulate matter, total <10 µm (TPM10) | | 5 | MPH |
| AR-0171 | NUCOR STEEL ARKANSAS | 2/14/2019 | SN-121 Unpaved Roads | Particulate matter, total <2.5 µm (TPM2.5) | Dust Control Plan<br>Wet spray and chemical stabilizers. | 8.8 | LB/HR |
| AR-0124 | EL DORADO SAWMILL | 8/3/2015 | HAUL ROADS SN-09 | Particulate matter, total (TPM) | ROAD WATERING PLAN + 0% OFF-SITE OPACITY | 12.7 | LB/HR |
| AR-0171 | NUCOR STEEL ARKANSAS | 2/14/2019 | SN-121 Unpaved Roads | Particulate matter, total <10 µm (TPM10) | Dust Control Plan<br>Wet spray and chemical stabilizers. | 20 | LB/HR |
| *OH-0389 | TUNNEL HILL RECLAMATION LLC | 5/8/2023 | F001 - Facility unpaved roadways and parking areas | Particulate matter, filterable <10 µm (FPM10) | Develop and implement a site-specific work practice plan with best management practices including the application of water and/or chemical dust suppressants, as needed, based on the inspections conducted in accordance with the requirements of the work practice plan. | 32.2 | TPY |
| AR-0172 | NUCOR STEEL ARKANSAS | 9/1/2021 | SN-121 SN-211 Unpaved Roads | Particulate matter, total <10 µm (TPM10) | Water Sprays, low silt surface | 36.2 | LB/HR |
| AR-0171 | NUCOR STEEL ARKANSAS | 2/14/2019 | SN-121 Unpaved Roads | Particulate matter, filterable (FPM) | Dust Control Plan, Wet Spray, and chemical stabilizers | 74.8 | LB/HR |
| KS-0034 | ABENGOA BIOENERGY BIOMASS OF KANSAS (ABBK) | 5/27/2014 | Biomass Laydown Roads (Unpaved) | Particulate matter, total (TPM) | Truck traffic fugitive control strategy and monitoring plan, including sweeping and speed limits | 109 | TRUCKS/DAY |
| KS-0034 | ABENGOA BIOENERGY BIOMASS OF KANSAS (ABBK) | 5/27/2014 | Biomass Laydown Roads (Unpaved) | Particulate matter, total <10 µm (TPM10) | Truck traffic fugitive control strategy and monitoring plan, including sweeping and speed limits | 109 | TRUCKS/DAY |
| KS-0034 | ABENGOA BIOENERGY BIOMASS OF KANSAS (ABBK) | 5/27/2014 | Biomass Laydown Roads (Unpaved) | Particulate matter, total <2.5 µm (TPM2.5) | Truck traffic fugitive control strategy and monitoring plan, including sweeping and speed limits | 109 | TRUCKS/DAY |

## RBLC Results for Haul Roads

**Search Criteria** Permit Date Between 01/01/2014 And 04/19/2024
And Process Type = 99.150

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| *OH-0389 | TUNNEL HILL RECLAMATION LLC | 5/8/2023 | F001 - Facility unpaved roadways and parking areas | Particulate matter, fugitive | Develop and implement a site-specific work practice plan with best management practices including the application of water and/or chemical dust suppressants, as needed, based on the inspections conducted in accordance with the requirements of the work practice plan. | 119.15 | TPY |
| AR-0172 | NUCOR STEEL ARKANSAS | 9/1/2021 | SN-121 SN-211 Unpaved Roads | Particulate matter, filterable (FPM) | Water Sprays, low silt surface | 136 | LB/HR |
| AK-0084 | DONLIN GOLD PROJECT | 6/30/2017 | Fugitive Dust from Unpaved Roads | Particulate matter, total (TPM) | Water and Chemical Suppressant Spray | 3500 | TPY |
| AK-0084 | DONLIN GOLD PROJECT | 6/30/2017 | Fugitive Dust from Unpaved Roads | Particulate matter, total <10 µm (TPM10) | Water and Chemical Suppressant Spray | 3500 | TPY |
| AK-0084 | DONLIN GOLD PROJECT | 6/30/2017 | Fugitive Dust from Unpaved Roads | Particulate matter, total <2.5 µm (TPM2.5) | Water and Chemical Suppressant Spray | 3500 | TPY |

## RBLC Results for Loading

**Search Criteria**

Permit Date Between 01/01/2014 And 04/17/2024
And Process Contains 'loading'
*results filtered to exclude marine loading, railcar loading, pressurized loading, and loading of dissimilar products such as asphalt, waxes, petroleum coke, and other solids*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT | EMISSION LIMIT UNIT |
|---|---|---|---|---|---|---|---|
| TX-0955 | INEOS OLIGOMERS CHOCOLATE BAYOU | 3/14/2023 | PAO Truck & Rail Loading | Volatile Organic Compounds (VOC) | Truck and railcar loading of Poly Alpha Olefin products is not required to be controlled since the vapor pressures of these materials are less than 0.002 psia. No loading through defective lines or components, loading must stop if liquid leaks are detected. All loading shall be submerged or bottom loading.<br>Truck and railcar loading of Linear Alpha Olefin products with vapor pressures over 0.1 psia are captured and directed to thermal oxidizer control and products with vapor pressures under 0.1 psia (actually less than 0.01 psia) are not required to be directed to add on control.<br>Products with a VOC vapor pressure over 0.1 psia (lower than tier 1 BACT of 0.5psia), are directed to the thermal oxidizer for control. Tanks trucks handling liquids with a VOC vapor pressure over 0.10 psia must pass vapor tightness testing every 12 months using the methods described in Title 40 Code of Federal Regulations Part 63 (40 CFR 63), Subpart R, assumed to achieve a 99.2% capture. Railcar tankers handling liquids with a VOC vapor pressure over 0.10 psia must have a current certification in accordance with U.S. Department of Transportation (DOT) pressure test requirements of 49 CFR Â§173.31, assumed to achieve 100% capture. All loading lines and connectors must be visually inspected for defects before loading and not used if damaged and loading must be stopped if a leak is detected. The thermal oxidizer has a 99.9% destruction efficiency. All loading shall be submerged or bottom loading. | 0 | |
| TX-0933 | NACERO PENWELL FACILITY | 11/17/2021 | Rail and Truck Loading | Volatile Organic Compounds (VOC) | Vapor-tightness testing of trucks and railcars, hard-piped and flanged connections, route vapors to VCU | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | Truck and Rail Loading | Volatile Organic Compounds (VOC) | Transport vehicles limited to DOT pressure-rated railcars and trucks meeting NSPS XX vapor-tightness specifications. Capture and route loading vapors to VCU if VOC VP > 0.5 psia. Inspection of closed vent system in same manner as other piping components in VOC service. | 0 | |
| TX-0904 | MOTIVA POLYETHYLENE MANUFACTURING COMPLEX | 9/9/2020 | TRUCK AND RAILCAR LOADING | Volatile Organic Compounds (VOC) | Vapor-tightness testing of trucks and railcars, hard-piped and flanged connections, route vapors to thermal oxidizer if VP>0.5psi | 0 | |
| TX-0876 | PORT ARTHUR ETHANE CRACKER UNIT | 2/6/2020 | Truck and railcar loading operations | Volatile Organic Compounds (VOC) | Vapor-tightness testing of trucks and railcars, hard-piped and flanged connections, route vapors to thermal oxidizer | 0 | |
| TX-0858 | GULF COAST GROWTH VENTURES PROJECT | 6/12/2019 | Truck and Railcar Liquid Loading/Unloading Operations | Volatile Organic Compounds (VOC) | Low vapor pressure (< 0.50 psia) organic liquids<br>For organic liquids with a low volatility the permit requires that loading be conducted using bottom or submerged fill. Add-on control is not required.<br>High vapor pressure (> 0.50 psia) organic liquids<br>For high volatility organic liquids (pyrolysis gasoline), the permit requires that the truck or railcar being loaded be certified as vapor tight (following NSPS XX vapor tightness specifications), and that a closed vent system be used to direct all displaced loading emissions to a properly-operated control device. For loading into railcars, vapor tightness can also be demonstrated through a valid DOT certification for pressure-rated vessels. | 0 | |
| LA-0351 | LAKE CHARLES FACILITY | 2/2/2018 | Railcar / Truck Loading Area (EQT0023) | Volatile Organic Compounds (VOC) | Route to a flare | 0 | |
| WI-0307 | ENBRIDGE SUPERIOR TERMINAL | 9/22/2021 | Temporary Loading (TL01) | Volatile Organic Compounds (VOC) | See notes. | 0 | SEE NOTES |
| TX-0930 | CENTURION BROWNSVILLE | 10/19/2021 | Truck Loading Operations | Volatile Organic Compounds (VOC) | Submerged or bottom loading. | 0 | |
| TX-0930 | CENTURION BROWNSVILLE | 10/19/2021 | Truck Loading Operations | Volatile Organic Compounds (VOC) | Submerged or bottom loading. Collection efficiency represented at 98.7%. Annual vapor-tightness testing of trucks. Lines/connectors inspected prior to hookup. Vapors greater than/equal to 0.50 psia routed to vapor combustor with 99.9% DRE. Temperature monitoring for VCU combustion chamber. | 0 | |
| TX-0905 | DIAMOND GREEN DIESEL PORT ARTHUR FACILITY | 9/16/2020 | LOADING | Volatile Organic Compounds (VOC) | Visual inspections of all lines/connectors prior to hookup; Transfer racks shall be designed such that the total volume of components to be disconnected and vented to the atmosphere following transfer to any transport truck or railcar, including adapters, hoses, fittings, valves or couplings, does not exceed 1.47 cubic feet | 0 | |

## RBLC Results for Loading

**Search Criteria**

Permit Date Between 01/01/2014 And 04/17/2024
And Process Contains 'loading'
*results filtered to exclude marine loading, railcar loading, pressurized loading, and loading of dissimilar products such as asphalt, waxes, petroleum coke, and other solids*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT | EMISSION LIMIT UNIT |
|---|---|---|---|---|---|---|---|
| TX-0894 | CHEVRON PHILLIPS CHEMICAL SWEENY COMPLEX | 10/30/2020 | Unit 81 Truck Loading (EPN LOADRACK, 81-97-9611) | Volatile Organic Compounds (VOC) | Control: submerged filling. The emissions from tank truck loading will be routed to the Unit 81 flare (EPN 81-97-9611) with a collection efficiency of 99.2%. | 0 | |
| TX-0888 | ORANGE POLYETHYLENE PLANT | 4/23/2020 | TRUCK LOADING | Volatile Organic Compounds (VOC) | Loading of vapors with vapor pressures less than 0.5 psia will be vented to atmosphere. Loading of vapors with vapor pressures greater than 0.5 psia will be routed to the flares for control with a 98.7% capture efficiency and 98% DRE. | 0 | |
| TX-0886 | MONT BELVIEU NGL FRACTIONATION UNIT | 3/31/2020 | TRUCK LOADING | Volatile Organic Compounds (VOC) | Submerged or bottom filled loading for VOC VP<0.5 psia | 0 | |
| TX-0884 | PROPANE DEHYDROGENATION (PDH) UNIT | 1/24/2020 | TRUCK LOADING | Volatile Organic Compounds (VOC) | Flexible hoses with dry-disconnect fittings will be used. | 0 | |
| TX-0879 | MOTIVA PORT ARTHUR TERMINAL | 2/19/2020 | LOADING LOSSSES | Volatile Organic Compounds (VOC) | VOC >= 0.5 psia: Route VOC to vapor combustor and meet the vapor combustor requirements.<br><br>Vessel leak testing: the marine vessel must pass an annual vapor tightness test as specified in 40 CFR Â§63.565(c) or 40 CFR Â§61.304(f). | 0 | |
| TX-0878 | LNG EXPORT TERMINAL | 9/15/2022 | TANKS AND LOADING | Volatile Organic Compounds (VOC) | 4 THERMAL OXIDIZERS | 0 | |
| TX-0863 | POLYETHYLENE 7 FACILITY | 9/3/2019 | WASTEWATER LOADING RACK | Volatile Organic Compounds (VOC) | Tank trucks pressure rated greater than 15 psig and loading operations routed to flare for control of emissions | 0 | |
| TX-0855 | BUCKEYE SOUTH TEXAS GATEWAY TERMINAL | 3/13/2019 | Loading | Volatile Organic Compounds (VOC) | vapor combustion units | 0 | |
| TX-0851 | RIO BRAVO PIPELINE FACILITY | 12/17/2018 | Natural Gas Liquid Condensate Tanks and Condensate Loading | Volatile Organic Compounds (VOC) | THERMAL OXIDIZER | 0 | |
| TX-0843 | VICTORIA PLANT | 6/30/2018 | LOADING | Volatile Organic Compounds (VOC) | all loading operations will be conducted with submerged fill. Loading activities for liquids with a vapor pressure of greater than or equal to 0.50 psia will be vented to the ADN Flare. | 0 | |
| TX-0837 | INVISTA S.A.R.L. VICTORIA PLANT | 7/12/2018 | LOADING | Volatile Organic Compounds (VOC) | all loading operations will be conducted with submerged fill. Loading activities for liquids with a vapor pressure of greater than or equal to 0.50 psia will be vented to the ADN Flare. | 0 | |
| TX-0823 | LYONDELL CHEMICAL BAYPORT CHOATE PLANT | 6/7/2017 | LOADING | Volatile Organic Compounds (VOC) | Materials with vapor pressures > 0.5 psia loaded through submerged or bottom fill lines into pressure rated trucks meeting DOT standards and pressure ratings. Transfer lines equipped with stressed connectors for 100% capture efficiency. Captured vapors are routed to the flare. | 0 | |
| TX-0790 | PORT ARTHUR LNG EXPORT TERMINAL | 2/17/2016 | LNG Export Acid Gas Recovery, Tanks & Loading | Volatile Organic Compounds (VOC) | Thermal oxidizers with min temperature 1400 | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | HDPE2 Low Polymer Tank Truck Loading | Volatile Organic Compounds (VOC) | Routing through a closed vent system to a thermal oxidizer or flare. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | HDPE2 Oilgomer Tank Truck Loading | Volatile Organic Compounds (VOC) | Routing through a closed vent system to a thermal oxidizer or flare. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | PP Tank Truck Loading | Volatile Organic Compounds (VOC) | Routing through a closed vent system to a vapor combustor. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | LOG Tank Truck Loading | Volatile Organic Compounds (VOC) | Compliance with all applicable provisions of 40 CFR 63 Subpart YY and routing through a closed vent system to a vapor combustor. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | LOG Tanker Dock Loading | Volatile Organic Compounds (VOC) | Submerged loading. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | LOG Uncaptured Tank Truck Loading (Heavy Oil) | Volatile Organic Compounds (VOC) | Good operating practices. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | LDPE Spent Lube Oil and Wax Loading | Volatile Organic Compounds (VOC) | | 0 | |

## RBLC Results for Loading

**Search Criteria**

Permit Date Between 01/01/2014 And 04/17/2024
And Process Contains 'loading'
*results filtered to exclude marine loading, railcar loading, pressurized loading, and loading of dissimilar products such as asphalt, waxes, petroleum coke, and other solids*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT | EMISSION LIMIT UNIT |
|---|---|---|---|---|---|---|---|
| LA-0364 | FG LA COMPLEX | 1/6/2020 | LDPE Wax and Column Heavy Ends Loading | Volatile Organic Compounds (VOC) | | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | ET1 Tank Truck Loading | Volatile Organic Compounds (VOC) | Routing through a closed vent system to a vapor combustor. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | ET2 Tank Truck Loading | Volatile Organic Compounds (VOC) | Routing through a closed vent system to a vapor combustor. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | HDPE1 Low Polymer Tank Truck Loading | Volatile Organic Compounds (VOC) | Routing through a closed vent system to a thermal oxidizer or flare. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | HDPE1 Oilgomer Tank Truck Loading | Volatile Organic Compounds (VOC) | Routing through a closed vent system to a thermal oxidizer or flare. | 0 | |
| LA-0349 | DRIFTWOOD LNG FACILITY | 7/10/2018 | Truck Loading Operations | Volatile Organic Compounds (VOC) | Condensate Vapor Thermal Oxidizer | 0 | |
| LA-0319 | LAKE CHARLES CHEMICAL COMPLEX - COMONOMER-1 UNIT | 9/1/2016 | Product Loading LR | Volatile Organic Compounds (VOC) | Closed vent and routing to the flares (@ Ethylene Unit) | 0 | |
| LA-0319 | LAKE CHARLES CHEMICAL COMPLEX - COMONOMER-1 UNIT | 9/1/2016 | Raw Material Unloading | Volatile Organic Compounds (VOC) | | 0 | |
| LA-0316 | CAMERON LNG FACILITY | 2/17/2017 | condensate loading | Volatile Organic Compounds (VOC) | good equipment design and proper operating practices; vapor balanced loading | 0 | |
| LA-0301 | LAKE CHARLES CHEMICAL COMPLEX ETHYLENE 2 UNIT | 5/23/2014 | Loading Operations | Volatile Organic Compounds (VOC) | Flare | 0 | |
| LA-0277 | COMONIMER-1 UNIT | 9/1/2016 | Product Loading LR | Volatile Organic Compounds (VOC) | Controlled by flares (Ethylene Unit) | 0 | |
| *TX-0965 | ORANGE PLANT | 12/29/2023 | TRUCK LOADING | Volatile Organic Compounds (VOC) | conducted via submerged fill. The material that has a vapor pressure of less than 0.5 psia, will be uncontrolled.<br>For material with a vapor pressure of 0.5 psia or greater, the emissions will be routed to the flare (EPN 58) with a 99.2% collection efficiency and 98% destruction efficiency. Leak testing of tank trucks in accordance with 40 CFR Part 63, Subpart R is required. | 0 | |
| *TX-0962 | POINT COMFORT PLANT | 9/22/2023 | Tank truck loading | Volatile Organic Compounds (VOC) | Submerged loading. 98.7% capture efficiency is achieved for leak-checked trucks certified annually according to 40 CFR 60 Subpart XX. Although certain material loaded has a true vapor pressure less than 0.5 psia at maximum operating temperature, captured vapors from all truck loading operations are controlled by flare. | 0 | |
| *TX-0956 | ENTERPRISE MONT BELVIEU COMPLEX | 6/8/2023 | TRUCK LOADING | Volatile Organic Compounds (VOC) | Flexible hoses with dry-disconnect fittings will be used. | 0 | |
| *LA-0315 | G2G PLANT | 5/23/2014 | Gasoline Loading | Volatile Organic Compounds (VOC) | Thermal Oxidizer (Flare) | 0 | |
| TX-0722 | ORGANIC CHEMICAL MANUFACTURING | 3/14/2014 | Loading | Volatile Organic Compounds (VOC) | Volatile materials with vapor pressure less than 0.5 psia are to be submerged or bottom filled. | 0.01 | LB/1,000 GAL |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | LDPE Compressor Used Oil Storage and Loading | Volatile Organic Compounds (VOC) | Good operating practices. | 0.01 | TPY |
| IN-0317 | RIVERVIEW ENERGY CORPORATION | 6/11/2019 | Product loading rack | Volatile Organic Compounds (VOC) | Loading Flare | 0.049 | LB/KGAL |
| *OH-0391 | VALENCIA PROJECT LLC | 10/27/2023 | Truck Meal and Hull Loading (P903) | Volatile Organic Compounds (VOC) | Use of a mineral oil absorber system | 0.14 | GAL/T |
| IN-0243 | MARATHON PETROLEUM COMPANY LP | 8/14/2015 | LOADING RACK | Volatile Organic Compounds (VOC) | VAPOR RECOVERY UNIT (CARBON ADSORPTION) | 0.159 | LB/GAL |
| NJ-0083 | COLONIAL PIPELINE CO LINDEN JCT TANK FARM | 3/11/2014 | Light Products Loading Rack | Volatile Organic Compounds (VOC) | Vapor Recovery Unit | 0.42 | LB/HR |
| *LA-0394 | GEISMAR PLANT | 12/12/2023 | 56-22 - PAO Co Product Loading | Volatile Organic Compounds (VOC) | Use of good operating practices, which include all loading being conducted with submerged fill | 0.69 | LB/HR |
| TX-0825 | PASADENA TERMINAL | 7/14/2017 | Tank Truck Loading | Volatile Organic Compounds (VOC) | All loading will be submerged fill and vented to a vapor recovery unit. Vapor collection system will operate with 100% capture efficiency and routed to vapor recovery unit | 1 | MG/LTR |

## RBLC Results for Loading

**Search Criteria**

Permit Date Between 01/01/2014 And 04/17/2024
And Process Contains 'loading'
*results filtered to exclude marine loading, railcar loading, pressurized loading, and loading of dissimilar products such as asphalt, waxes, petroleum coke, and other solids*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT | EMISSION LIMIT UNIT |
|---|---|---|---|---|---|---|---|
| TX-0657 | BEAUMONT GAS TO GASOLINE PLANT | 5/16/2014 | Railcar and Truck loading | Volatile Organic Compounds (VOC) | Water scrubber | 1.38 | TON |
| TX-0656 | GAS TO GASOLINE PLANT | 5/16/2014 | RAILCAR AND TRUCK LOADING | Volatile Organic Compounds (VOC) | WATER SCRUBBER | 1.38 | TPY |
| LA-0290 | LAKE CHARLES CHEMICAL COMPLEX GTL LAB-2 UNIT | 5/23/2014 | Loading Rack (EQT 624) | Volatile Organic Compounds (VOC) | Best maintenance practices consistent with Sasolâ€™s written plan developed pursuant to LAC 33:III.2113 | 1.45 | LB/HR |
| TX-0756 | CCI CORPUS CHRISTI CONDENSATE SPLITTER FACILITY | 6/19/2015 | Truck Loading | Volatile Organic Compounds (VOC) | | 1.99 | LB/HR |
| *LA-0394 | GEISMAR PLANT | 12/12/2023 | 2-22 - Wax Truck Loading | Volatile Organic Compounds (VOC) | Use of good operating practices, which include all loading being conducted with submerged fill | 3.53 | LB/HR |
| TX-0657 | BEAUMONT GAS TO GASOLINE PLANT | 5/16/2014 | Railcar and truck loading | Volatile Organic Compounds (VOC) | Vapor Combustor with 99% DRE | 4.47 | TPY |
| TX-0825 | PASADENA TERMINAL | 7/14/2017 | Tank Truck Loading | Volatile Organic Compounds (VOC) | All loading will be submerged fill and vented to a vapor recovery unit. Air eliminator venting will result in emissions to the atmosphere at less than 3 lb/hr for air purging in truck tanks. | 4.48 | TPY |
| *PA-0323 | ADVANSIX RESINS & CHEMICALS, LLC - FRANKFORD PLANT | 3/5/2020 | Phenol Tank Car Loading | Volatile Organic Compounds (VOC) | | 7.93 | TPY |
| LA-0291 | LAKE CHARLES CHEMICAL COMPLEX GTL UNIT | 5/23/2014 | Base Oils - Loading (EQT 835) | Volatile Organic Compounds (VOC) | Best maintenance practices consistent with Sasolâ€™s written plan developed pursuant to LAC 33:III.2113 | 8.41 | LB/HR |
| *LA-0315 | G2G PLANT | 5/23/2014 | Methanol Loading | Volatile Organic Compounds (VOC) | Water Scrubber | 13.21 | LB/HR |
| *LA-0401 | KOCH METHANOL (KME) FACILITY | 12/20/2023 | RT LOAD - Methanol Railcar and Tank Truck Loading Operations | Volatile Organic Compounds (VOC) | Route displaced vapors to a vapor control unit capable of achieving 98% reduction of VOC emissions | 18.54 | LB/HR |
| LA-0299 | LAKE CHARLES CHEMICAL COMPLEX ETHOXYLATION UNIT | 5/23/2014 | ETO Loading Rack (EQT 1103) | Volatile Organic Compounds (VOC) | Best maintenance practices consistent with Sasolâ€™s written plan developed pursuant to LAC 33:III.2113 | 26.98 | LB/HR |
| TX-0799 | BEAUMONT TERMINAL | 6/8/2016 | Truck and railcar loading | Volatile Organic Compounds (VOC) | Loading vapors of materials with a TVP of 0.5 psia or greater are controlled by a flare. Railcar capture efficiency of 100% will be verified annually by Class DOT-111AW or Class DOT-115AW testing, and truck capture efficiency of 100% will be verified annually by DOT testing specified in 49 CFR 180.407. | 28.83 | TPY |
| LA-0299 | LAKE CHARLES CHEMICAL COMPLEX ETHOXYLATION UNIT | 5/23/2014 | Alcohol Loading Rack (EQT 1104) | Volatile Organic Compounds (VOC) | Best maintenance practices consistent with Sasolâ€™s written plan developed pursuant to LAC 33:III.2113 | 32.71 | LB/HR |
| TX-0825 | PASADENA TERMINAL | 7/14/2017 | Tank Truck Unloading | Volatile Organic Compounds (VOC) | Specialized connection system of transfer valves that minimize the volume of piping containing residual butane after unloading | 33 | TPY |
| IN-0244 | COUNTRYMARK REFINING AND LOGISTICS, LLC | 12/3/2015 | LOADING RACK | Volatile Organic Compounds (VOC) | RELIEF STACK, A VAPOR KNOCKOUT BOX, AND A FLARE VAPOR CONTROL UNIT | 35 | MG/L |
| IN-0231 | COUNTRYMARK REFINING & LOGISTICS, LLC | 6/30/2015 | TRUCK LOADING RACK | Volatile Organic Compounds (VOC) | test method - 1 | 35 | MG/L |
| LA-0298 | LAKE CHARLES CHEMICAL COMPLEX GUERBET ALCOHOLS UNIT | 5/23/2014 | Guerbet Truck and Railcar Loading (EQT 769) | Volatile Organic Compounds (VOC) | Best maintenance practices consistent with Sasolâ€™s written plan developed pursuant to LAC 33:III.2113 | 49.91 | LB/HR |
| LA-0382 | BIG LAKE FUELS METHANOL PLANT | 4/25/2019 | Methanol Loading (EQT0029, EQT0031) | Volatile Organic Compounds (VOC) | Water Scrubber | 98 | PERCENT REDUCTION |
| IN-0328 | CARDINAL ETHANOL, LLC | 10/1/2020 | Ethanol Loading Rack | Volatile Organic Compounds (VOC) | Enclosed Flare | 98 | % |
| TX-0752 | INGLESIDE TERMINAL | 6/22/2015 | Loading | Volatile Organic Compounds (VOC) | vapor combustor | 126.1 | TPY |

## RBLC Results for Loading

**Search Criteria**

Permit Date Between 01/01/2014 And 04/17/2024
And Process Contains 'loading'
*results filtered to exclude marine loading, railcar loading, pressurized loading, and loading of dissimilar products such as asphalt, waxes, petroleum coke, and other solids*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT | EMISSION LIMIT UNIT |
|---|---|---|---|---|---|---|---|
| LA-0303 | LAKE CHARLES CHEMICAL COMPLEX ZIEGLER ALCOHOL UNIT | 5/23/2014 | Alcohol Loading Rack (EQT 226) | Volatile Organic Compounds (VOC) | Carbon adsorption | 1878.22 | LB/HR |
| LA-0303 | LAKE CHARLES CHEMICAL COMPLEX ZIEGLER ALCOHOL UNIT | 5/23/2014 | Loading Rack Operations (EQT 1162) | Volatile Organic Compounds (VOC) | Best maintenance practices consistent with Sasolâ€™s written plan developed pursuant to LAC 33:III.2113 | 2727.59 | LB/HR |

## RBLC Results for Loading

**Search Criteria**

Permit Date Between 01/01/2014 And 04/17/2024
And Process Contains 'loading'
*results filtered to exclude marine loading, railcar loading, pressurized loading, and loading of dissimilar products such as asphalt, waxes, petroleum coke, and other solids*

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT | EMISSION LIMIT UNIT |
|---|---|---|---|---|---|---|---|
| TX-0847 | VALERO PORT ARTHUR REFINERY | 9/16/2018 | LOADING | Hydrogen Sulfide | Lift stations, manholes, junction boxes, any other wastewater collection system components, and conveyance shall be equipped with a closed vent system that routes all organic vapors to a control device | 100 | PPM |

# RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| LA-0305 | LAKE CHARLES METHANOL FACILITY | 6/30/2016 | Regenerative Thermal Oxidizer | Carbon Monoxide | good engineering design and good combustion practices | 0 | |
| LA-0307 | MAGNOLIA LNG FACILITY | 3/21/2016 | Thermal Oxidizer (2 units) | Carbon Monoxide | good combustion practices | 0 | |
| LA-0316 | CAMERON LNG FACILITY | 2/17/2017 | Thermal Oxidizer (4 units) | Carbon Monoxide | good equipment design, proper operating practices, and fueled by natural gas | 0 | |
| LA-0323 | MONSANTO LULING PLANT | 1/9/2017 | Thermal Oxidizer with Caustic Scrubber | Carbon Monoxide | Good combustion practices, Compliance with applicable NESHAP, and Caustic Scrubber. | 0 | |
| LA-0349 | DRIFTWOOD LNG FACILITY | 7/10/2018 | Acid Gas Thermal Oxidizer (5) | Carbon Monoxide | Good Combustion Practices | 0 | |
| LA-0349 | DRIFTWOOD LNG FACILITY | 7/10/2018 | Condensate Vapor Thermal Oxidizer | Carbon Monoxide | Good Combustion Practices | 0 | |
| LA-0361 | LAKE CHARLES CHEMICAL COMPLEX - ZIEGLER ALCOHOL UNIT | 11/7/2019 | S-550 Thermal Oxidizer (EQT1475) | Carbon Monoxide | Comply with requirements of 40 CFR 63 Subpart SS | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizer | Carbon Monoxide | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| LA-0383 | LAKE CHARLES LNG EXPORT TERMINAL | 9/3/2020 | Thermal Oxidizer (EQT0001 - EQT0003) | Carbon Monoxide | Good combustion practices | 0 | |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-CAP - Gas Thermal Oxidizer CAP | Carbon Monoxide | | 0 | |
| *LA-0398 | CAMERON LNG FACILITY | 9/19/2023 | Train 4 Thermal Oxidizer (EQT0114) | Carbon Monoxide | Minimize gas to the Thermal Oxidizer<br>Good equipment design<br>Use of appropriate Instrumentation<br>Good combustion practices | 0 | |
| TX-0858 | GULF COAST GROWTH VENTURES PROJECT | 6/12/2019 | Thermal Oxidizer | Carbon Monoxide | best combustion practices, natural gas supplemental fuel | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | Thermal Oxidizer | Carbon Monoxide | good combustion practices and use of gaseous fuel | 0 | |
| TX-0936 | BILL GREEHEY REFINERY EAST PLANT | 3/29/2022 | Thermal Oxidizer & FLARES | Carbon Monoxide | CLEAN FUEL | 0 | |
| *LA-0381 | EUEG-5 UNIT - GEISMAR PLANT | 12/12/2019 | Thermal Oxidizer 1-19 (EQT0903) | Carbon Monoxide | good combustion practices | 0.05 | LB/MMBTU |
| TX-0888 | ORANGE POLYETHYLENE PLANT | 4/23/2020 | Thermal Oxidizer | Carbon Monoxide | Good combustion practice and clean supplemental fuel | 0.06 | LB/MMBTU |
| TX-0889 | SWEENY OLD OCEAN FACILITIES | 8/8/2020 | Thermal Oxidizer | Carbon Monoxide | Use natural gas as assist gas and good combustion practices. | 0.06 | LB/MMBTU |

# RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| TX-0928 | SWEENY OLD OCEAN FACILITIES | 10/15/2021 | Thermal Oxidizer | Carbon Monoxide | GOOD COMBUSTION PRACTICES | 0.06 | LB/MMBTU |
| *LA-0381 | EUEG-5 UNIT - GEISMAR PLANT | 12/12/2019 | Thermal Oxidizer 13-19 (EQT0913) | Carbon Monoxide | good combustion practices | 0.08 | LB/MMBTU |
| AK-0088 | LIQUEFACTION PLANT | 7/7/2022 | Vent Gas Disposal via Thermal Oxidizer | Carbon Monoxide | Proper Equipment Design; Good Combustion Practices | 0.082 | LB/MMBTU |
| TX-0851 | RIO BRAVO PIPELINE FACILITY | 12/17/2018 | Thermal Oxidizer | Carbon Monoxide | Natural Gas / Clean Fuel, good combustion practices. | 0.082 | LB/MMBTU |
| *LA-0324 | COMMONWEALTH LNG FACILITY | 3/28/2023 | Thermal Oxidizer (EQT0011 and EQT0012) | Carbon Monoxide | Good combustion practices and use of clean fuel. | 0.0824 | LB/MMBTU |
| TX-0876 | PORT ARTHUR ETHANE CRACKER UNIT | 2/6/2020 | Thermal Oxidizer | Carbon Monoxide | good combustion practices and use of natural gas supplemental fuel | 0.0824 | LB/MMBTU |
| TX-0904 | MOTIVA POLYETHYLENE MANUFACTURING COMPLEX | 9/9/2020 | Thermal Oxidizer | Carbon Monoxide | good combustion practices and the use of gaseous fuel | 0.0824 | LB/MMBTU |
| LA-0331 | CALCASIEU PASS LNG PROJECT | 9/21/2018 | Acid Gas Thermal Oxidizer (AGTO) | Carbon Monoxide | Proper Equipment Design and Operation, Good Combustion Practices | 0.09 | LB/MMBTU |
| *LA-0394 | GEISMAR PLANT | 12/12/2023 | 55-22 - PAO Thermal Oxidizer | Carbon Monoxide | Use of good Thermal Oxidizer design and implementation of good combustion practices | 0.19 | LB/HR |
| LA-0298 | LAKE CHARLES CHEMICAL COMPLEX GUERBET ALCOHOLS UNIT | 5/23/2014 | Guerbet Unit Thermal Oxidizer (EQT 771) | Carbon Monoxide | Compliance with the applicable provisions of LAC 33:III.2115, including, but not limited to, the control requirements of LAC 33:III.2115.C and the temperature monitoring requirements of LAC 33:III.2115.K.2.a | 0.51 | LB/HR |
| OH-0378 | PTTGCA PETROCHEMICAL COMPLEX | 12/21/2018 | OSBL Thermal Oxidizer (P001 and P002) | Carbon Monoxide | use of pipeline natural gas for TO pilots | 0.51 | LB/HR |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 2P-35 - PVC Plant Thermal Oxidizer A | Carbon Monoxide | Good combustion practices | 0.53 | LB/HR |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 2P-36 - PVC Plant Thermal Oxidizer B | Carbon Monoxide | Good combustion practices | 0.53 | LB/HR |
| MD-0044 | COVE POINT LNG TERMINAL | 6/9/2014 | Thermal Oxidizer | Carbon Monoxide | GOOD COMBUSTION PRACTICES WITH OXIDATION CATALYST, DESIGNED TO MEET EMISSION LIMIT AT ALL TIMES | 1.5 | PPMVD @ 15% O2 |
| TX-0815 | PORT ARTHUR ETHANE SIDE CRACKER | 1/17/2017 | Thermal Oxidizer | Carbon Monoxide | Good Combustion Practices and Design | 1.9 | TPY |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-5 - Gas Thermal Oxidizer A | Carbon Monoxide | Good operating practices | 6.09 | LB/HR |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-6 - Gas Thermal Oxidizer B | Carbon Monoxide | Good operating practices | 6.09 | LB/HR |

## RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| *LA-0339 | SHINTECH PLAQUEMINE PLANT 3 | 1/19/2021 | Thermal Oxidizer (EQT0476 and EQT0477) | Carbon Monoxide | Good combustion practices | 7.28 | LB/MMDSCF |
| TX-0873 | PORT ARTHUR REFINERY | 2/4/2020 | Thermal Oxidizer | Carbon Monoxide | Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent.<br>Continuous oxidizer firebox temperature monitoring.<br>Limited to paraxylene only. | 10 | PPMV |
| LA-0301 | LAKE CHARLES CHEMICAL COMPLEX ETHYLENE 2 UNIT | 5/23/2014 | Thermal Oxidizer (EQT 980) | Carbon Monoxide | Compliance with 40 CFR 63 Subpart SS | 12.45 | LB/HR |
| LA-0296 | LAKE CHARLES CHEMICAL COMPLEX LDPE UNIT | 5/23/2014 | LDPE Thermal Oxidizer (EQT 648) | Carbon Monoxide | Compliance with the applicable provisions of 40 CFR 63 Subpart SS. | 45.1 | LB/HR |
| TX-0864 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | Thermal Oxidizer | Carbon Monoxide | good combustion practices, design, natural gas fuel | 50 | PPM |
| LA-0310 | FLORIEN PLYWOOD AND VENEER PLANT | 10/1/2014 | Regenerative Catalytic/Thermal Oxidizer | Carbon Monoxide | Regenerative Thermal Oxidizer (RTO) in combination with good combustion practices | 117.99 | LB/HR |

# RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| LA-0305 | LAKE CHARLES METHANOL FACILITY | 6/30/2016 | Regenerative Thermal Oxidizers | Carbon Dioxide Equivalent (CO2e) | good equipment design and good combustion practices | 0 | |
| LA-0305 | LAKE CHARLES METHANOL FACILITY | 6/30/2016 | Regenerative Thermal Oxidizers | Particulate matter, total <10 µm (TPM10) | | 0 | |
| LA-0305 | LAKE CHARLES METHANOL FACILITY | 6/30/2016 | Regenerative Thermal Oxidizers | Particulate matter, total <2.5 µm (TPM2.5) | | 0 | |
| LA-0307 | MAGNOLIA LNG FACILITY | 3/21/2016 | Thermal Oxidizers (2 units) | Carbon Dioxide Equivalent (CO2e) | good combustion/operating/maintenance practices and fueled by natural gas | 0 | |
| LA-0307 | MAGNOLIA LNG FACILITY | 3/21/2016 | Thermal Oxidizers (2 units) | Particulate matter, total <10 µm (TPM10) | good combustion practices | 0 | |
| LA-0307 | MAGNOLIA LNG FACILITY | 3/21/2016 | Thermal Oxidizers (2 units) | Particulate matter, total <2.5 µm (TPM2.5) | good combustion practices | 0 | |
| LA-0316 | CAMERON LNG FACILITY | 2/17/2017 | Thermal Oxidizers (4 units) | Particulate matter, total <10 µm (TPM10) | good equipment design, proper operating practices, and fueled by natural gas | 0 | |
| LA-0316 | CAMERON LNG FACILITY | 2/17/2017 | Thermal Oxidizers (4 units) | Particulate matter, total <2.5 µm (TPM2.5) | good equipment design, proper operating practices, and fueled by natural gas | 0 | |
| LA-0316 | CAMERON LNG FACILITY | 2/17/2017 | Thermal Oxidizers (4 units) | Carbon Dioxide Equivalent (CO2e) | good equipment design, proper operating practices, and fueled by natural gas | 0 | |
| LA-0323 | MONSANTO LULING PLANT | 1/9/2017 | Thermal Oxidizer with Caustic Scrubber | Particulate matter, total <10 µm (TPM10) | Good combustion practices, Compliance with applicable NESHAP, and Caustic Scrubber. | 0 | |
| LA-0323 | MONSANTO LULING PLANT | 1/9/2017 | Thermal Oxidizer with Caustic Scrubber | Particulate matter, total <2.5 µm (TPM2.5) | Good combustion practices, Compliance with applicable NESHAP, and Caustic Scrubber. | 0 | |
| LA-0323 | MONSANTO LULING PLANT | 1/9/2017 | Thermal Oxidizer with Caustic Scrubber | Carbon Dioxide Equivalent (CO2e) | Good combustion practices | 0 | |
| *LA-0324 | COMMONWEALTH LNG FACILITY | 3/28/2023 | Thermal Oxidizers (EQT0011 and EQT0012) | Particulate matter, filterable <2.5 µm (FPM2.5) | Good combustion practices and use of clean fuel. | 0 | |
| *LA-0324 | COMMONWEALTH LNG FACILITY | 3/28/2023 | Thermal Oxidizers (EQT0011 and EQT0012) | Particulate matter, filterable <10 µm (FPM10) | Good combustion practices and use of clean fuel. | 0 | |
| *LA-0339 | SHINTECH PLAQUEMINE PLANT 3 | 1/19/2021 | Thermal Oxidizers (EQT0476 and EQT0477) | Carbon Dioxide Equivalent (CO2e) | | 0 | |
| LA-0349 | DRIFTWOOD LNG FACILITY | 7/10/2018 | Acid Gas Thermal Oxidizers (5) | Carbon Dioxide Equivalent (CO2e) | Use Low Carbon Fuel, Energy Efficiency Measures, and Good Combustion Practices | 0 | |
| LA-0349 | DRIFTWOOD LNG FACILITY | 7/10/2018 | Condensate Vapor Thermal Oxidizer | Carbon Dioxide Equivalent (CO2e) | Use Low Carbon Fuel, Energy Efficiency Measures, and Good Combustion Practices | 0 | |

# RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| LA-0361 | LAKE CHARLES CHEMICAL COMPLEX - ZIEGLER ALCOHOL UNIT | 11/7/2019 | S-550 Thermal Oxidizer (EQT1475) | Carbon Dioxide Equivalent (CO2e) | Comply with requirements of 40 CFR 63 Subpart SS | 0 | |
| LA-0361 | LAKE CHARLES CHEMICAL COMPLEX - ZIEGLER ALCOHOL UNIT | 11/7/2019 | S-550 Thermal Oxidizer (EQT1475) | Particulate matter, total <10 µm (TPM10) | Comply with requirements of 40 CFR 63 Subpart SS | 0 | |
| LA-0361 | LAKE CHARLES CHEMICAL COMPLEX - ZIEGLER ALCOHOL UNIT | 11/7/2019 | S-550 Thermal Oxidizer (EQT1475) | Particulate matter, total <2.5 µm (TPM2.5) | Comply with requirements of 40 CFR 63 Subpart SS | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizers | Particulate matter, total <10 µm (TPM10) | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizers | Particulate matter, total <2.5 µm (TPM2.5) | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizers | Carbon Dioxide Equivalent (CO2e) | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| *LA-0381 | EUEG-5 UNIT - GEISMAR PLANT | 12/12/2019 | Thermal Oxidizer 1-19 (EQT0903) | Carbon Dioxide Equivalent (CO2e) | good combustion, operating, and maintenance practices<br>Efficient equipment design | 0 | |
| *LA-0381 | EUEG-5 UNIT - GEISMAR PLANT | 12/12/2019 | Thermal Oxidizer 13-19 (EQT0913) | Carbon Dioxide Equivalent (CO2e) | good combustion, operating, and maintenance practices<br>Efficient equipment design | 0 | |
| LA-0383 | LAKE CHARLES LNG EXPORT TERMINAL | 9/3/2020 | Thermal Oxidizers (EQT0001 - EQT0003) | Particulate matter, total <10 µm (TPM10) | Good combustion practices | 0 | |
| LA-0383 | LAKE CHARLES LNG EXPORT TERMINAL | 9/3/2020 | Thermal Oxidizers (EQT0001 - EQT0003) | Particulate matter, total <2.5 µm (TPM2.5) | | 0 | |
| LA-0383 | LAKE CHARLES LNG EXPORT TERMINAL | 9/3/2020 | Thermal Oxidizers (EQT0001 - EQT0003) | Carbon Dioxide Equivalent (CO2e) | Low carbon fuels<br>Energy efficient designs and operation | 0 | |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-CAP - Gas Thermal Oxidizer CAP | Carbon Dioxide Equivalent (CO2e) | Energy Efficiency Measures | 0 | |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-CAP - Gas Thermal Oxidizer CAP | Particulate matter, total <2.5 µm (TPM2.5) | | 0 | |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-CAP - Gas Thermal Oxidizer CAP | Particulate matter, total <10 µm (TPM10) | | 0 | |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 2P-35 - PVC Plant Thermal Oxidizer A | Carbon Dioxide Equivalent (CO2e) | Energy efficiency measures | 0 | |

## RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 2P-36 - PVC Plant Thermal Oxidizer B | Carbon Dioxide Equivalent (CO2e) | Energy efficiency measures | 0 | |
| *LA-0394 | GEISMAR PLANT | 12/12/2023 | 55-22 - PAO Thermal Oxidizer | Carbon Dioxide Equivalent (CO2e) | Use of good Thermal Oxidizer design and implementation of good combustion practices | 0 | |
| *LA-0398 | CAMERON LNG FACILITY | 9/19/2023 | Train 4 Thermal Oxidizer (EQT0114) | Particulate matter, total <10 µm (TPM10) | Minimize gas to the Thermal Oxidizer<br>Good equipment design<br>Use of appropriate Instrumentation<br>Good combustion practices | 0 | |
| *LA-0398 | CAMERON LNG FACILITY | 9/19/2023 | Train 4 Thermal Oxidizer (EQT0114) | Particulate matter, filterable <2.5 µm (FPM2.5) | Minimize gas to the Thermal Oxidizer<br>Good equipment design<br>Use of appropriate Instrumentation<br>Good combustion practices | 0 | |
| *LA-0398 | CAMERON LNG FACILITY | 9/19/2023 | Train 4 Thermal Oxidizer (EQT0114) | Carbon Dioxide Equivalent (CO2e) | Use of low carbon fuels<br>Good combustion/operation/maintenance practices<br>Efficient design | 0 | |
| TX-0851 | RIO BRAVO PIPELINE FACILITY | 12/17/2018 | Thermal Oxidizer | Carbon Dioxide Equivalent (CO2e) | Natural Gas / Clean Fuel, good combustion practices. | 0 | |
| TX-0858 | GULF COAST GROWTH VENTURES PROJECT | 6/12/2019 | Thermal Oxidizers | Carbon Dioxide Equivalent (CO2e) | best combustion practices, natural gas supplemental fuel | 0 | |
| TX-0864 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | Thermal Oxidizer | Carbon Dioxide Equivalent (CO2e) | good combustion practices, design, natural gas fuel | 0 | |
| TX-0873 | PORT ARTHUR REFINERY | 2/4/2020 | Thermal Oxidizer | Carbon Dioxide Equivalent (CO2e) | Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent.<br>Continuous oxidizer firebox temperature monitoring.<br>Limited to paraxylene only. | 0 | |
| TX-0873 | PORT ARTHUR REFINERY | 2/4/2020 | Thermal Oxidizer | Particulate matter, total (TPM) | Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent.<br>Continuous oxidizer firebox temperature monitoring.<br>Limited to paraxylene only. | 0 | |

## RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| TX-0873 | PORT ARTHUR REFINERY | 2/4/2020 | Thermal Oxidizer | Particulate matter, total <10 µm (TPM10) | Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent. Continuous oxidizer firebox temperature monitoring. Limited to paraxylene only. | 0 | |
| TX-0873 | PORT ARTHUR REFINERY | 2/4/2020 | Thermal Oxidizer | Particulate matter, total <2.5 µm (TPM2.5) | Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent. Continuous oxidizer firebox temperature monitoring. Limited to paraxylene only. | 0 | |
| TX-0876 | PORT ARTHUR ETHANE CRACKER UNIT | 2/6/2020 | Thermal OxidizerS | Particulate matter, total (TPM) | good combustion practices and use of natural gas supplemental fuel | 0 | |
| TX-0876 | PORT ARTHUR ETHANE CRACKER UNIT | 2/6/2020 | Thermal OxidizerS | Particulate matter, total <10 µm (TPM10) | good combustion practices and use of natural gas supplemental fuel | 0 | |
| TX-0876 | PORT ARTHUR ETHANE CRACKER UNIT | 2/6/2020 | Thermal OxidizerS | Particulate matter, total <2.5 µm (TPM2.5) | good combustion practices and use of natural gas supplemental fuel | 0 | |
| TX-0876 | PORT ARTHUR ETHANE CRACKER UNIT | 2/6/2020 | Thermal OxidizerS | Carbon Dioxide Equivalent (CO2e) | good combustion practices and use of natural gas supplemental fuel | 0 | |
| TX-0888 | ORANGE POLYETHYLENE PLANT | 4/23/2020 | Thermal OxidizerS | Carbon Dioxide Equivalent (CO2e) | Good combustion practice and clean supplemental fuel | 0 | |
| TX-0889 | SWEENY OLD OCEAN FACILITIES | 8/8/2020 | Thermal Oxidizer | Carbon Dioxide Equivalent (CO2e) | Use natural gas as assist gas and good combustion practices. | 0 | |
| TX-0904 | MOTIVA POLYETHYLENE MANUFACTURING COMPLEX | 9/9/2020 | Thermal OxidizerS | Particulate matter, filterable <2.5 µm (FPM2.5) | good combustion practices and the use of gaseous fuel | 0 | |
| TX-0904 | MOTIVA POLYETHYLENE MANUFACTURING COMPLEX | 9/9/2020 | Thermal OxidizerS | Carbon Dioxide Equivalent (CO2e) | good combustion practices and the use of gaseous fuel | 0 | |
| TX-0921 | HOUSTON PLANT - 22052 | 6/13/2022 | DOCK Thermal Oxidizer | Carbon Dioxide Equivalent (CO2e) | Use of natural gas and good combustion practices | 0 | |
| TX-0928 | SWEENY OLD OCEAN FACILITIES | 10/15/2021 | Thermal Oxidizer | Carbon Dioxide Equivalent (CO2e) | GOOD COMBUSTION PRACTICES | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | Thermal Oxidizer | Particulate matter, filterable (FPM) | good combustion practices and use of gaseous fuel | 0 | |

# RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | Thermal Oxidizer | Particulate matter, filterable <10 µm (FPM10) | good combustion practices and use of gaseous fuel | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | Thermal Oxidizer | Particulate matter, filterable <2.5 µm (FPM2.5) | good combustion practices and use of gaseous fuel | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | Thermal Oxidizer | Carbon Dioxide Equivalent (CO2e) | good combustion practices and use of gaseous fuel | 0 | |
| LA-0298 | LAKE CHARLES CHEMICAL COMPLEX GUERBET ALCOHOLS UNIT | 5/23/2014 | Guerbet Unit Thermal Oxidizer (EQT 771) | Particulate matter, total <10 µm (TPM10) | Compliance with the applicable provisions of LAC 33:III.2115, including, but not limited to, the control requirements of LAC 33:III.2115.C and the temperature monitoring requirements of LAC 33:III.2115.K.2.a | 0.001 | LB/HR |
| LA-0298 | LAKE CHARLES CHEMICAL COMPLEX GUERBET ALCOHOLS UNIT | 5/23/2014 | Guerbet Unit Thermal Oxidizer (EQT 771) | Particulate matter, total <2.5 µm (TPM2.5) | Compliance with the applicable provisions of LAC 33:III.2115, including, but not limited to, the control requirements of LAC 33:III.2115.C and the temperature monitoring requirements of LAC 33:III.2115.K.2.a | 0.001 | LB/HR |
| TX-0864 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | Thermal Oxidizer | Particulate matter, filterable (FPM) | good combustion practices, design, natural gas fuel | 0.007 | LB/MMBTU |
| TX-0864 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | Thermal Oxidizer | Particulate matter, filterable <10 µm (FPM10) | good combustion practices, design, natural gas fuel | 0.007 | LB/MMBTU |
| TX-0864 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | Thermal Oxidizer | Particulate matter, filterable <2.5 µm (FPM2.5) | good combustion practices, design, natural gas fuel | 0.007 | LB/MMBTU |
| AK-0088 | LIQUEFACTION PLANT | 7/7/2022 | Vent Gas Disposal via Thermal Oxidizer | Particulate matter, total (TPM) | Proper Equipment Design; Good Combustion Practices | 0.0075 | LB/MMBTU |
| AK-0088 | LIQUEFACTION PLANT | 7/7/2022 | Vent Gas Disposal via Thermal Oxidizer | Particulate matter, total <10 µm (TPM10) | Proper Equipment Design; Good Combustion Practices | 0.0075 | LB/MMBTU |
| AK-0088 | LIQUEFACTION PLANT | 7/7/2022 | Vent Gas Disposal via Thermal Oxidizer | Particulate matter, total <2.5 µm (TPM2.5) | Proper Equipment Design; Good Combustion Practices | 0.0075 | LB/MMBTU |
| LA-0349 | DRIFTWOOD LNG FACILITY | 7/10/2018 | Acid Gas Thermal Oxidizers (5) | Particulate matter, total <2.5 µm (TPM2.5) | Good Combustion Practices and Use of low sulfur facility fuel gas | 0.0075 | LB/MMSCF |
| LA-0349 | DRIFTWOOD LNG FACILITY | 7/10/2018 | Acid Gas Thermal Oxidizers (5) | Particulate matter, total <10 µm (TPM10) | Good Combustion Practices and Use of low sulfur facility fuel gas | 0.0075 | LB/MMBTU |
| *LA-0381 | EUEG-5 UNIT - GEISMAR PLANT | 12/12/2019 | Thermal Oxidizer 1-19 (EQT0903) | Particulate matter, filterable <10 µm (FPM10) | good combustion practices | 0.0075 | LB/MMBTU |

# RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| *LA-0381 | EUEG-5 UNIT - GEISMAR PLANT | 12/12/2019 | Thermal Oxidizer 1-19 (EQT0903) | Particulate matter, filterable <2.5 µm (FPM2.5) | good combustion practices | 0.0075 | LB/MMBTU |
| *LA-0381 | EUEG-5 UNIT - GEISMAR PLANT | 12/12/2019 | Thermal Oxidizer 13-19 (EQT0913) | Particulate matter, filterable <10 µm (FPM10) | good combustion practices | 0.0075 | LB/MMBTU |
| *LA-0381 | EUEG-5 UNIT - GEISMAR PLANT | 12/12/2019 | Thermal Oxidizer 13-19 (EQT0913) | Particulate matter, filterable <2.5 µm (FPM2.5) | good combustion practices | 0.0075 | LB/MMBTU |
| TX-0851 | RIO BRAVO PIPELINE FACILITY | 12/17/2018 | Thermal Oxidizer | Particulate matter, total <10 µm (TPM10) | Natural Gas / Clean Fuel, good combustion practices. | 0.0075 | LB/MMBTU |
| TX-0851 | RIO BRAVO PIPELINE FACILITY | 12/17/2018 | Thermal Oxidizer | Particulate matter, total <2.5 µm (TPM2.5) | Natural Gas / Clean Fuel, good combustion practices. | 0.0075 | LB/MMBTU |
| TX-0888 | ORANGE POLYETHYLENE PLANT | 4/23/2020 | Thermal OxidizerS | Particulate matter, filterable (FPM) | Good combustion practice and clean supplemental fuel | 0.0075 | LB/MMBTU |
| TX-0888 | ORANGE POLYETHYLENE PLANT | 4/23/2020 | Thermal OxidizerS | Particulate matter, filterable <10 µm (FPM10) | Good combustion practice and clean supplemental fuel | 0.0075 | LB/MMBTU |
| TX-0888 | ORANGE POLYETHYLENE PLANT | 4/23/2020 | Thermal OxidizerS | Particulate matter, filterable <2.5 µm (FPM2.5) | Good combustion practice and clean supplemental fuel | 0.0075 | LB/MMBTU |
| TX-0904 | MOTIVA POLYETHYLENE MANUFACTURING COMPLEX | 9/9/2020 | Thermal OxidizerS | Particulate matter, filterable <10 µm (FPM10) | good combustion practices and the use of gaseous fuel | 0.0075 | LB/MMBTU |
| TX-0904 | MOTIVA POLYETHYLENE MANUFACTURING COMPLEX | 9/9/2020 | Thermal OxidizerS | Particulate matter, filterable (FPM) | good combustion practices and the use of gaseous fuel | 0.0075 | LB/MMBTU |
| LA-0349 | DRIFTWOOD LNG FACILITY | 7/10/2018 | Condensate Vapor Thermal Oxidizer | Particulate matter, total <10 µm (TPM10) | Good Combustion Practices and Use of low sulfur facility fuel gas | 0.008 | LB/MMBTU |
| LA-0349 | DRIFTWOOD LNG FACILITY | 7/10/2018 | Condensate Vapor Thermal Oxidizer | Particulate matter, total <2.5 µm (TPM2.5) | Good Combustion Practices and Use of low sulfur facility fuel gas | 0.008 | LB/MMBTU |
| LA-0331 | CALCASIEU PASS LNG PROJECT | 9/21/2018 | Acid Gas Thermal Oxidizer (AGTO) | Particulate matter, total <10 µm (TPM10) | Exclusive Combustion of Fuel Gas and Good Combustion Practices | 0.0082 | LB/MMBTU |
| LA-0331 | CALCASIEU PASS LNG PROJECT | 9/21/2018 | Acid Gas Thermal Oxidizer (AGTO) | Particulate matter, total <2.5 µm (TPM2.5) | Exclusive Combustion of Fuel Gas and Good Combustion Practices | 0.0082 | LB/MMBTU |
| MD-0044 | COVE POINT LNG TERMINAL | 6/9/2014 | Thermal Oxidizer | Particulate matter, filterable (FPM) | GOOD COMBUSTION PRACTICES AND FIRING PROCESS FUEL GAS; DESIGNED TO MEET THE EMISSION LIMITS AT ALL TIMES | 0.013 | LB/MMBTU |
| MD-0044 | COVE POINT LNG TERMINAL | 6/9/2014 | Thermal Oxidizer | Particulate matter, total <10 µm (TPM10) | GOOD COMBUSTION PRACTICES AND FIRING PROCESS FUEL GAS; DESIGNED TO MEET THE EMISSION LIMITS AT ALL TIMES | 0.016 | LB/MMBTU |

# RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| MD-0044 | COVE POINT LNG TERMINAL | 6/9/2014 | Thermal Oxidizer | Particulate matter, total <2.5 µm (TPM2.5) | GOOD COMBUSTION PRACTICES AND FIRING PROCESS FUEL GAS; DESIGNED TO MEET THE EMISSION LIMITS AT ALL TIMES | 0.016 | LB/MMBTU |
| *LA-0394 | GEISMAR PLANT | 12/12/2023 | 55-22 - PAO Thermal Oxidizer | Particulate matter, total <2.5 µm (TPM2.5) | Use of good Thermal Oxidizer design and implementation of good combustion practices | 0.02 | LB/HR |
| *LA-0394 | GEISMAR PLANT | 12/12/2023 | 55-22 - PAO Thermal Oxidizer | Particulate matter, total <10 µm (TPM10) | Use of good Thermal Oxidizer design and implementation of good combustion practices | 0.02 | LB/HR |
| *LA-0339 | SHINTECH PLAQUEMINE PLANT 3 | 1/19/2021 | Thermal Oxidizers (EQT0476 and EQT0477) | Particulate matter, total <10 µm (TPM10) | Good combustion practices | 0.0231 | GR/DSCF |
| *LA-0339 | SHINTECH PLAQUEMINE PLANT 3 | 1/19/2021 | Thermal Oxidizers (EQT0476 and EQT0477) | Particulate matter, filterable <2.5 µm (FPM2.5) | Good combustion practices | 0.0231 | GR/DSCF |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 2P-35 - PVC Plant Thermal Oxidizer A | Particulate matter, total <2.5 µm (TPM2.5) | Good Combustion practices | 0.04 | LB/HR |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 2P-36 - PVC Plant Thermal Oxidizer B | Particulate matter, total <2.5 µm (TPM2.5) | Good Combustion practices | 0.04 | LB/HR |
| OH-0378 | PETROCHEMICAL COMPLEX | 12/21/2018 | OSBL Thermal Oxidizers (P001 and P002) | Particulate matter, total <10 µm (TPM10) | use of pipeline natural gas for TO pilots | 0.05 | LB/HR |
| OH-0378 | PTTGCA PETROCHEMICAL COMPLEX | 12/21/2018 | OSBL Thermal Oxidizers (P001 and P002) | Particulate matter, total <2.5 µm (TPM2.5) | use of pipeline natural gas for TO pilots | 0.05 | LB/HR |
| TX-0815 | PORT ARTHUR ETHANE SIDE CRACKER | 1/17/2017 | Thermal Oxidizer | Particulate matter, filterable <10 µm (FPM10) | Good Combustion Practices and Design | 0.17 | TPY |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 2P-35 - PVC Plant Thermal Oxidizer A | Particulate matter, total <10 µm (TPM10) | Good combustion practices | 0.2 | LB/HR |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 2P-36 - PVC Plant Thermal Oxidizer B | Particulate matter, total <10 µm (TPM10) | Good combustion practices | 0.2 | LB/HR |
| LA-0301 | LAKE CHARLES CHEMICAL COMPLEX ETHYLENE 2 UNIT | 5/23/2014 | Thermal Oxidizer (EQT 980) | Particulate matter, total <10 µm (TPM10) | Compliance with 40 CFR 63 Subpart SS | 0.22 | LB/HR |
| LA-0301 | LAKE CHARLES CHEMICAL COMPLEX ETHYLENE 2 UNIT | 5/23/2014 | Thermal Oxidizer (EQT 980) | Particulate matter, total <2.5 µm (TPM2.5) | Compliance with 40 CFR 63 Subpart SS | 0.22 | LB/HR |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-5 - Gas Thermal Oxidizer A | Particulate matter, total <2.5 µm (TPM2.5) | Good operating practices | 0.54 | LB/HR |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-5 - Gas Thermal Oxidizer A | Particulate matter, total <10 µm (TPM10) | Good operating practices | 0.54 | LB/HR |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-6 - Gas Thermal Oxidizer B | Particulate matter, total <10 µm (TPM10) | Good operating practices | 0.54 | LB/HR |

# RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-6 - Gas Thermal Oxidizer B | Particulate matter, total <2.5 µm (TPM2.5) | Good operating practices | 0.54 | LB/HR |
| LA-0296 | LAKE CHARLES CHEMICAL COMPLEX LDPE UNIT | 5/23/2014 | LDPE Thermal Oxidizer (EQT 648) | Particulate matter, total <10 µm (TPM10) | Compliance with the applicable provisions of 40 CFR 63 Subpart SS. | 1.36 | LB/HR |
| LA-0296 | LAKE CHARLES CHEMICAL COMPLEX LDPE UNIT | 5/23/2014 | LDPE Thermal Oxidizer (EQT 648) | Particulate matter, total <2.5 µm (TPM2.5) | Compliance with the applicable provisions of 40 CFR 63 Subpart SS. | 1.36 | LB/HR |
| TX-0921 | HOUSTON PLANT - 22052 | 6/13/2022 | DOCK Thermal Oxidizer | Particulate matter, total (TPM) | Use of natural gas and good combustion practices | 7.6 | LB/MMSCF |
| TX-0921 | HOUSTON PLANT - 22052 | 6/13/2022 | DOCK Thermal Oxidizer | Particulate matter, total <10 µm (TPM10) | Use of natural gas and good combustion practices | 7.6 | LB/MMSCF |
| TX-0921 | HOUSTON PLANT - 22052 | 6/13/2022 | DOCK Thermal Oxidizer | Particulate matter, total <2.5 µm (TPM2.5) | Use of natural gas and good combustion practices | 7.6 | LB/MMSCF |
| AK-0088 | LIQUEFACTION PLANT | 7/7/2022 | Vent Gas Disposal via Thermal Oxidizer | Carbon Dioxide Equivalent (CO2e) | Proper Equipment Design; Good Combustion Practices | 117.1 | LB/MMBTU |
| LA-0298 | LAKE CHARLES CHEMICAL COMPLEX GUERBET ALCOHOLS UNIT | 5/23/2014 | Guerbet Unit Thermal Oxidizer (EQT 771) | Carbon Dioxide Equivalent (CO2e) | Compliance with the applicable provisions of LAC 33:III.2115, including, but not limited to, the control requirements of LAC 33:III.2115.C and the temperature monitoring requirements of LAC 33:III.2115.K.2.a | 236 | TPY |
| TX-0746 | NUEVO MIDSTREAM, RAMSEY GAS PLANT | 11/18/2014 | Regenerative Thermal Oxidizer | Carbon Dioxide Equivalent (CO2e) | | 1550 | DEGREE F |
| OH-0378 | PTTGCA PETROCHEMICAL COMPLEX | 12/21/2018 | OSBL Thermal Oxidizers (P001 and P002) | Carbon Dioxide Equivalent (CO2e) | use of pipeline natural gas for TO pilots | 3161 | TPY |
| LA-0301 | LAKE CHARLES CHEMICAL COMPLEX ETHYLENE 2 UNIT | 5/23/2014 | Thermal Oxidizer (EQT 980) | Carbon Dioxide Equivalent (CO2e) | Compliance with 40 CFR 63 Subpart SS | 3739 | TPY |
| LA-0296 | LAKE CHARLES CHEMICAL COMPLEX LDPE UNIT | 5/23/2014 | LDPE Thermal Oxidizer (EQT 648) | Carbon Dioxide Equivalent (CO2e) | Compliance with the applicable provisions of 40 CFR 63 Subpart SS. | 42165 | TPY |
| TX-0747 | LONE STAR NGL FRACTIONATORS, MONT BELVIEU GAS PLANT | 4/16/2014 | Thermal Oxidizer | Carbon Dioxide Equivalent (CO2e) | | 42703 | TPY OF CO2E |
| TX-0766 | GOLDEN PASS LNG EXPORT TERMINAL | 9/11/2015 | Thermal Oxidizers | Carbon Dioxide Equivalent (CO2e) | Equipment specifications & work â€“ good combustion practices | 374114 | TPY |
| LA-0331 | CALCASIEU PASS LNG PROJECT | 9/21/2018 | Acid Gas Thermal Oxidizer (AGTO) | Carbon Dioxide Equivalent (CO2e) | Exclusive Combustion of Gaseous Fuel, Good Combustion Practices, Good Operation & Maintenance Practices and Insulation | 768337 | TPY |

# RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| LA-0305 | LAKE CHARLES METHANOL FACILITY | 6/30/2016 | Regenerative Thermal Oxidizer | Sulfur Dioxide (SO2) | | 0 | |
| LA-0320 | ST. CHARLES REFINERY | 3/5/2014 | Thermal Oxidizer | Sulfur Dioxide (SO2) | Comply with 40 CFR 60 Subpart Ja (revision to previously determined BACT) | 0 | |
| *LA-0324 | COMMONWEALTH LNG FACILITY | 3/28/2023 | Thermal Oxidizer (EQT0011 and EQT0012) | Sulfur Dioxide (SO2) | Pretreating acid gas stream in H2S scavenger system.<br>Good combustion practices and use of clean fuel. | 0 | |
| LA-0349 | DRIFTWOOD LNG FACILITY | 7/10/2018 | Acid Gas Thermal Oxidizer (5) | Sulfur Dioxide (SO2) | Good Combustion Practices and Use of la triazine-based H2S scavenger system<br>Acid gas H2S minimization | 0 | |
| LA-0349 | DRIFTWOOD LNG FACILITY | 7/10/2018 | Condensate Vapor Thermal Oxidizer | Sulfur Dioxide (SO2) | Good Combustion Practices and Use of low sulfur facility fuel gas | 0 | |
| LA-0361 | LAKE CHARLES CHEMICAL COMPLEX - ZIEGLER ALCOHOL UNIT | 11/7/2019 | S-550 Thermal Oxidizer (EQT1475) | Sulfur Dioxide (SO2) | Comply with requirements of 40 CFR 63 Subpart SS | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizer | Sulfur Dioxide (SO2) | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| TX-0873 | PORT ARTHUR REFINERY | 2/4/2020 | Thermal Oxidizer | Sulfur Dioxide (SO2) | Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent.<br>Continuous oxidizer firebox temperature monitoring.<br>Limited to paraxylene only. | 0 | |
| LA-0298 | LAKE CHARLES CHEMICAL COMPLEX GUERBET ALCOHOLS UNIT | 5/23/2014 | Guerbet Unit Thermal Oxidizer (EQT 771) | Sulfur Dioxide (SO2) | Compliance with the applicable provisions of LAC 33:III.2115, including, but not limited to, the control requirements of LAC 33:III.2115.C and the temperature monitoring requirements of LAC 33:III.2115.K.2.a | 0.001 | LB/HR |
| TX-0888 | ORANGE POLYETHYLENE PLANT | 4/23/2020 | Thermal Oxidizer | Sulfur Dioxide (SO2) | Good combustion practice and clean supplemental fuel | 0.0059 | LB/MMBTU |

# RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| LA-0301 | LAKE CHARLES CHEMICAL COMPLEX ETHYLENE 2 UNIT | 5/23/2014 | Thermal Oxidizer (EQT 980) | Sulfur Dioxide (SO2) | Compliance with 40 CFR 63 Subpart SS | 0.03 | LB/HR |
| LA-0296 | LAKE CHARLES CHEMICAL COMPLEX LDPE UNIT | 5/23/2014 | LDPE Thermal Oxidizer (EQT 648) | Sulfur Dioxide (SO2) | Compliance with the applicable provisions of 40 CFR 63 Subpart SS. | 0.16 | LB/HR |
| LA-0331 | CALCASIEU PASS LNG PROJECT | 9/21/2018 | Acid Gas Thermal Oxidizer (AGTO) | Sulfur Dioxide (SO2) | Proper Equipment Design and Operation, Good Combustion Practices, Pre-Treatment Sulfur Content in the Inlet Gas Stream <4 ppmv | 2.37 | LB/MMBTU |
| TX-0876 | PORT ARTHUR ETHANE CRACKER UNIT | 2/6/2020 | Thermal Oxidizer | Sulfur Dioxide (SO2) | LOW SULFUR FUEL | 5 | GR/100 SCF |
| TX-0904 | MOTIVA POLYETHYLENE MANUFACTURING COMPLEX | 9/9/2020 | Thermal Oxidizer | Sulfur Dioxide (SO2) | good combustion practices and the use of gaseous fuel | 5 | GR/100SCF |
| AK-0088 | LIQUEFACTION PLANT | 7/7/2022 | Vent Gas Disposal via Thermal Oxidizer | Sulfur Dioxide (SO2) | Proper Equipment Design; Good Combustion Practices | 16 | PPMV SULFUR IN FUEL |

# RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| LA-0307 | MAGNOLIA LNG FACILITY | 3/21/2016 | Thermal Oxidizer (2 units) | Volatile Organic Compounds (VOC) | good combustion practices | 0 | |
| LA-0316 | CAMERON LNG FACILITY | 2/17/2017 | Thermal Oxidizer (4 units) | Volatile Organic Compounds (VOC) | good equipment design, proper operating practices, and fueled by natural gas | 0 | |
| LA-0349 | DRIFTWOOD LNG FACILITY | 7/10/2018 | Condensate Vapor Thermal Oxidizer | Volatile Organic Compounds (VOC) | Good Combustion Practices and Use of low sulfur facility fuel gas | 0 | |
| LA-0361 | LAKE CHARLES CHEMICAL COMPLEX - ZIEGLER ALCOHOL UNIT | 11/7/2019 | S-550 Thermal Oxidizer (EQT1475) | Volatile Organic Compounds (VOC) | Comply with requirements of 40 CFR 63 Subpart SS | 0 | |
| LA-0364 | FG LA COMPLEX | 1/6/2020 | Control Devices: Flares, Vapor Combustors, and Thermal Oxidizer | Volatile Organic Compounds (VOC) | Combination of minimizing the quantity of waste gas and supplemental fuel and good designs and combustion practices. | 0 | |
| LA-0371 | LAKE CHARLES CHEMICAL COMPLEX | 11/7/2019 | ALC Thermal Oxidizer - EQT1478 | Volatile Organic Compounds (VOC) | Comply with 40 CFR 63 Subpart SS for VOC, PM, SO2, NOx, CO, and CO2e | 0 | |
| LA-0383 | LAKE CHARLES LNG EXPORT TERMINAL | 9/3/2020 | Thermal Oxidizer (EQT0001 - EQT0003) | Volatile Organic Compounds (VOC) | Good combustion practices | 0 | |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-CAP - Gas Thermal Oxidizer CAP | Volatile Organic Compounds (VOC) | | 0 | |
| *LA-0398 | CAMERON LNG FACILITY | 9/19/2023 | Train 4 Thermal Oxidizer (EQT0114) | Volatile Organic Compounds (VOC) | Minimize gas to the Thermal Oxidizer<br>Good equipment design<br>Use of appropriate Instrumentation<br>Good combustion practices | 0 | |
| TX-0672 | CORPUS CHRISTI LIQUEFACTION PLANT | 9/12/2014 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | 99.9% DRE for VOC | 0 | |
| TX-0678 | FREEPORT LNG PRETREATMENT FACILITY | 7/16/2014 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | 99% DRE of acid gas VOC | 0 | |
| TX-0723 | NATURAL GAS LIQUIDS PROCESSING PLANT | 11/21/2014 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | Unit is designed to achieve 99.9% VOC DRE and will have continuous temperature and oxygen monitoring. | 0 | |
| TX-0858 | GULF COAST GROWTH VENTURES PROJECT | 6/12/2019 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | best combustion practices, natural gas supplemental fuel | 0 | |
| TX-0864 | EQUISTAR CHEMICALS CHANNELVIEW COMPLEX | 9/9/2019 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | good combustion practices, design, natural gas fuel | 0 | |
| TX-0871 | PORT ARTHUR REFINERY | 1/31/2020 | Portable Thermal Oxidizer | Volatile Organic Compounds (VOC) | best combustion practices | 0 | |

# RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| TX-0873 | PORT ARTHUR REFINERY | 2/4/2020 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | Good combustion practices will be used to reduce emissions including maintain proper air-to-fuel ratio, necessary residence time, temperature and turbulent. Continuous oxidizer firebox temperature monitoring. Limited to paraxylene only. | 0 | |
| TX-0876 | PORT ARTHUR ETHANE CRACKER UNIT | 2/6/2020 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | good combustion practices and use of natural gas supplemental fuel | 0 | |
| TX-0885 | METAL BEVERAGE CONTAINER OPERATIONS | 1/31/2020 | Control: Regenerative Thermal Oxidizer | Volatile Organic Compounds (VOC) | Use of good combustion practices and pipeline quality natural gas as supplemental fuel | 0 | |
| TX-0888 | ORANGE POLYETHYLENE PLANT | 4/23/2020 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | Good combustion practice and clean supplemental fuel | 0 | |
| TX-0894 | CHEVRON PHILLIPS CHEMICAL SWEENY COMPLEX | 10/30/2020 | Unit 81 Thermal Oxidizer (EPN MELT-TO) | Volatile Organic Compounds (VOC) | Will be operated using good combustion practices. | 0 | |
| TX-0904 | MOTIVA POLYETHYLENE MANUFACTURING COMPLEX | 9/9/2020 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | good combustion practices and the use of gaseous fuel | 0 | |
| TX-0921 | HOUSTON PLANT - 22052 | 6/13/2022 | DOCK Thermal Oxidizer | Volatile Organic Compounds (VOC) | Use of natural gas and good combustion practices | 0 | |
| TX-0929 | FORMOSA POINT COMFORT PLANT | 10/15/2021 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | Good combustion practices, proper design and operation. Use of natural gas as fuel. Monitoring of firebox temperature monitoring to assure ongoing destruction | 0 | |
| TX-0931 | ROEHM AMERICA BAY CITY SITE | 12/16/2021 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | good combustion practices and use of gaseous fuel | 0 | |
| TX-0934 | STEEL MILL | 2/1/2022 | Recuperative Thermal Oxidizer | Volatile Organic Compounds (VOC) | GOOD COMBUSTION PRACTICES | 0 | |
| TX-0936 | BILL GREEHEY REFINERY EAST PLANT | 3/29/2022 | Thermal Oxidizer & FLARES | Volatile Organic Compounds (VOC) | CLEAN NATURAL GAS FOR PILOTS AND SUPPLEMENTAL FUEL | 0 | |
| *TX-0962 | POINT COMFORT PLANT | 9/22/2023 | PE3 Plant Thermal Oxidizer | Volatile Organic Compounds (VOC) | Use of pipeline quality natural gas as supplemental fuel. Good combustion practices are used. | 0 | |
| AK-0088 | LIQUEFACTION PLANT | 7/7/2022 | Vent Gas Disposal via Thermal Oxidizer | Volatile Organic Compounds (VOC) | Proper Equipment Design; Good Combustion Practices | 0.0054 | LB/MMBTU |
| TX-0851 | RIO BRAVO PIPELINE FACILITY | 12/17/2018 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | Natural Gas / Clean Fuel, good combustion practices. | 0.0054 | LB/MMBTU |

# RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| TX-0889 | SWEENY OLD OCEAN FACILITIES | 8/8/2020 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | Use natural gas as assist gas and good combustion practices. | 0.0054 | LB/MMBTU |
| TX-0928 | SWEENY OLD OCEAN FACILITIES | 10/15/2021 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | GOOD COMBUSTION PRACTICES | 0.0054 | LB/MMBTU |
| LA-0331 | CALCASIEU PASS LNG PROJECT | 9/21/2018 | Acid Gas Thermal Oxidizer (AGTO) | Volatile Organic Compounds (VOC) | Proper Equipment Design and Operation, Good Combustion Practices | 0.01 | LB/MMBTU |
| *LA-0394 | GEISMAR PLANT | 12/12/2023 | 55-22 - PAO Thermal Oxidizer | Volatile Organic Compounds (VOC) | Use of good Thermal Oxidizer design and implementation of good combustion practices | 0.03 | LB/HR |
| MD-0044 | COVE POINT LNG TERMINAL | 6/9/2014 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | OXIDATION CATALYST, DESIGNED TO MEET EMISSION LIMIT AT ALL TIMES | 0.03 | LB/HR |
| OH-0378 | PTTGCA PETROCHEMICAL COMPLEX | 12/21/2018 | OSBL Thermal Oxidizer (P001 and P002) | Volatile Organic Compounds (VOC) | The Thermal Oxidizer controls VOC emissions from units P801, P802, P803, P804, P805, and J001. The control efficiency is 99.5%. | 0.03 | LB/HR |
| TX-0816 | CORPUS CHRISTI LIQUEFACTION | 2/14/2017 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | THERMAL | 0.03 | LB/HR |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 2P-35 - PVC Plant Thermal Oxidizer A | Volatile Organic Compounds (VOC) | Good combustion practices | 0.12 | LB/HR |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 2P-36 - PVC Plant Thermal Oxidizer B | Volatile Organic Compounds (VOC) | Good combustion practices | 0.12 | LB/HR |
| LA-0349 | DRIFTWOOD LNG FACILITY | 7/10/2018 | Acid Gas Thermal Oxidizer (5) | Volatile Organic Compounds (VOC) | Good Combustion Practices and Use of low sulfur facility fuel gas | 0.16 | LB/MMBTU |
| LA-0298 | LAKE CHARLES CHEMICAL COMPLEX GUERBET ALCOHOLS UNIT | 5/23/2014 | Guerbet Unit Thermal Oxidizer (EQT 771) | Volatile Organic Compounds (VOC) | Compliance with the applicable provisions of LAC 33:III.2115, including, but not limited to, the control requirements of LAC 33:III.2115.C and the temperature monitoring requirements of LAC 33:III.2115.K.2.a | 0.31 | LB/HR |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-5 - Gas Thermal Oxidizer A | Volatile Organic Compounds (VOC) | Good operating practices | 1.1 | LB/HR |
| LA-0389 | SHINTECH PLAQUEMINE PLANT 3 | 10/20/2022 | 3M-6 - Gas Thermal Oxidizer B | Volatile Organic Compounds (VOC) | Good operating practices | 1.1 | LB/HR |
| TX-0671 | PROJECT JUMBO | 12/1/2014 | Regenerative Thermal Oxidizer | Volatile Organic Compounds (VOC) | Thermal destruction with 99% DRE for VOC or 10 ppmv outlet concentration at 3% oxygen in exhaust | 10 | PPMV |
| TX-0706 | NATURAL GAS FRACTIONATION | 1/23/2014 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | Monitoring exit temperature, stack testing, CEMs if VOC>10 tpy, 99.9% DRE or 10 ppmv VOC at 3% oxygen, and low NOx burners that achieve 99.9% DRE for VOC | 10 | PPMV |

## RBLC Results for Thermal Oxidizer (TO)

**Search Criteria** Permit Date Between 01/01/2014 And 04/29/2024
And Process Contains 'Thermal Oxidizer'

| RBLCID | FACILITY NAME | PERMIT ISSUANCE DATE | PROCESS_NAME | POLLUTANT | CONTROL METHOD DESCRIPTION | EMISSION LIMIT 1 | EMISSION LIMIT 1 UNIT |
|---|---|---|---|---|---|---|---|
| LA-0296 | LAKE CHARLES CHEMICAL COMPLEX LDPE UNIT | 5/23/2014 | LDPE Thermal Oxidizer (EQT 648) | Volatile Organic Compounds (VOC) | Compliance with the applicable provisions of 40 CFR 63 Subpart SS. | 11.76 | LB/HR |
| LA-0301 | LAKE CHARLES CHEMICAL COMPLEX ETHYLENE 2 UNIT | 5/23/2014 | Thermal Oxidizer (EQT 980) | Volatile Organic Compounds (VOC) | Compliance with 40 CFR 63 Subpart SS | 17.77 | LB/HR |
| CA-1243 | FLIR SYSTEMS, INC. | 3/5/2016 | Regenerative Thermal Oxidizer | Volatile Organic Compounds (VOC) | Regenerative Thermal Oxidizer | 98 | % MASS |
| TX-0697 | ETHYLENE PRODUCTION PLANT | 3/27/2014 | Thermal Oxidizer | Volatile Organic Compounds (VOC) | good combustion | 99 | % |
| *LA-0324 | COMMONWEALTH LNG FACILITY | 3/28/2023 | Thermal Oxidizer (EQT0011 and EQT0012) | Volatile Organic Compounds (VOC) | Good combustion practices and use of clean fuel. | 99.9 | % |
| *LA-0339 | SHINTECH PLAQUEMINE PLANT 3 | 1/19/2021 | Thermal Oxidizer (EQT0476 and EQT0477) | Volatile Organic Compounds (VOC) | Good combustion practices | 99.9 | % DRE |

# Section 13

## Determination of State & Federal Air Quality Regulations

**This section lists each state and federal air quality regulation that may apply to your facility and/or equipment that are stationary sources of regulated air pollutants.**

Not all state and federal air quality regulations are included in this list. Go to the Code of Federal Regulations (CFR) or to the Air Quality Bureau's regulation page to see the full set of air quality regulations.

**Required Information for Specific Equipment:**
For regulations that apply to specific source types, in the 'Justification' column **provide any information needed to determine if the regulation does or does not apply**. **For example**, to determine if emissions standards at 40 CFR 60, Subpart IIII apply to your three identical stationary engines, we need to know the construction date as defined in that regulation; the manufacturer date; the date of reconstruction or modification, if any; if they are or are not fire pump engines; if they are or are not emergency engines as defined in that regulation; their site ratings; and the cylinder displacement.

**Required Information for Regulations that Apply to the Entire Facility:**
See instructions in the 'Justification' column for the information that is needed to determine if an 'Entire Facility' type of regulation applies (e.g. 20.2.70 or 20.2.73 NMAC).

**Regulatory Citations for Regulations That Do Not, but Could Apply:**
If there is a state or federal air quality regulation that does not apply, but you have a piece of equipment in a source category for which a regulation has been promulgated, you must **provide the low level regulatory citation showing why your piece of equipment is not subject to or exempt from the regulation. For example** if you have a stationary internal combustion engine that is not subject to 40 CFR 63, Subpart ZZZZ because it is an existing 2 stroke lean burn stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, your citation would be 40 CFR 63.6590(b)(3)(i). **We don't want a discussion of every non-applicable regulation, but if it is possible a regulation could apply, explain why it does not. For example,** if your facility is a power plant, you do not need to include a citation to show that 40 CFR 60, Subpart OOO does not apply to your non-existent rock crusher.

**Regulatory Citations for Emission Standards:**
**For each unit that is subject to an emission standard in a source specific regulation, such as 40 CFR 60, Subpart OOO or 40 CFR 63, Subpart HH, include the low level regulatory citation of that emission standard.** Emission standards can be numerical emission limits, work practice standards, or other requirements such as maintenance. **Here are examples:** a glycol dehydrator is subject to the general standards at 63.764C(1)(i) through (iii); an engine is subject to 63.6601, Tables 2a and 2b; a crusher is subject to 60.672(b), Table 3 and all transfer points are subject to 60.672(e)(1)

**Federally Enforceable Conditions:**
All federal regulations are federally enforceable. All Air Quality Bureau State regulations are federally enforceable except for the following: affirmative defense portions at 20.2.7.6.B, 20.2.7.110(B)(15), 20.2.7.11 through 20.2.7.113, 20.2.7.115, and 20.2.7.116; 20.2.37; 20.2.42; 20.2.43; 20.2.62; 20.2.63; 20.2.86; 20.2.89; and 20.2.90 NMAC. Federally enforceable means that EPA can enforce the regulation as well as the Air Quality Bureau and federally enforceable regulations can count toward determining a facility's potential to emit (PTE) for the Title V, PSD, and nonattainment permit regulations.

INCLUDE ANY OTHER INFORMATION NEEDED TO COMPLETE AN APPLICABILITY DETERMINATION OR THAT IS RELEVENT TO YOUR FACILITY'S NOTICE OF INTENT OR PERMIT.

**EPA Applicability Determination Index for 40 CFR 60, 61, 63, etc**: http://cfpub.epa.gov/adi/

## Table for State Regulations:

| State Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.) |
|---|---|---|---|---|
| 20.2.1 NMAC | General Provisions | Yes | Facility | General Provisions apply to Notice of Intent, Construction, and Title V permit applications. |
| 20.2.3 NMAC | Ambient Air Quality Standards NMAAQS | Yes | Facility | If subject, this would normally apply to the entire facility.<br>20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide.<br>Title V applications, see exemption at 20.2.3.9 NMAC<br>The TSP NM ambient air quality standard was repealed by the EIB effective November 30, 2018. |
| 20.2.7 NMAC | Excess Emissions | Yes | Facility | This regulation establishes requirements for the facilityf if operation results in any excess emission, the extent practicable, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions. The facility will also notify NMED of any excess emissions per 20.2.7.110 NMAC. |
| 20.2.23 NMAC | Fugitive Dust Control | No | Facility | This regulation may apply if this is an application for a notice of intent (NOI) per 20.2.73 NMAC, if the activity or facility is a fugitive dust source listed at 20.2.23.108.A NMAC, **and** if the activity or facility is located in an area subject to a mitigation plan pursuant to 40 CFR 51.930.<br><br>As of January 2019, the only areas of the State subject to a mitigation plan per 40 CFR 51.930 are in Doña Ana and Luna Counties.<br><br>As this site is a permitted facility in Lea County, NM, this regulation does not apply. |
| 20.2.33 NMAC | Gas Burning Equipment - Nitrogen Dioxide | No | N/A | This facility does not have gas burning equipment with a heat input greater than 1,000,000 MMBtu. |
| 20.2.34 NMAC | Oil Burning Equipment: $NO_2$ | No | N/A | This facility does not have oil burning equipment **(external combustion emission sources, such as oil-fired boilers and heaters)** having a heat input of greater than 1,000,000 million British Thermal Units per year per unit. |
| 20.2.35 NMAC | Natural Gas Processing Plant – Sulfur | No | N/A | This regulation establishes sulfur emission standards for natural gas processing plants. The proposed facility meets the definition of a new natural gas processing plant under this regulation (20.2.35.7.B NMAC), but does not utilize a sulfur recovery unit, therefore, this regulation does not apply. NMED memorandum *Guidance and Clarification Regarding Applicability of 20.2.35 NMAC*, dated March 4, 2016. |
| 20.2.37 and 20.2.36 NMAC | Petroleum Processing Facilities and Petroleum Refineries | N/A | N/A | These regulations were repealed by the Environmental Improvement Board. If you had equipment subject to 20.2.37 NMAC before the repeal, your combustion emission sources are now subject to 20.2.61 NMAC. |
| 20.2.38 NMAC | Hydrocarbon Storage Facility | Yes | N/A | This regulation establishes hydrogen sulfide emission standards for hydrocarbon storage facilities. The proposed facility meets the definition of a new hydrocarbon storage facility under this regulation and is subject to the requirements of this regulation [20.2.38.109 NMAC]. The facility will comply with all requirements under 20.2.38 NMAC as applicable. |
| 20.2.39 NMAC | Sulfur Recovery Plant - Sulfur | No | N/A | This regulation could apply to sulfur recovery plants that are not part of petroleum or natural gas processing facilities. As this site is a natural gas processing facility, this regulation does not apply. |
| 20.2.50 NMAC | Oil and Gas Sector – Ozone Precursor Pollutants | Yes | Applicable units are identified for each subpart. | 113- This facility does not have any portable or stationary natural gas-fired spark ignition engines, compression ignition engines, or natural gas-fired combustion turbines that meet the applicability criteria. Thus, this facility is not subject to this rule. |

| State Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.) |
|---|---|---|---|---|
| | | | | 114 – This facility has electric engines with reciprocating and centrifugal compressors. Thus, this rule applies to the facility.<br>The following existing reciprocating compressors are applicable to 20.2.50.114 per 20.2.50.114(A)(2) NMAC: RHA-C-5530, RHA-C-5540, RA2-C-25530, RA2-C-25540, RA2-C-29300, RA2-C-29400, RH1-C-42-601A, RH1-C-42-601B, RH1-C-42-601C, RH1-C-42-15-U205, RH1-C-42-15-U206, RH1-C-42-108A, RH1-C-42-108B, RH2-C-1300, RH2-C-1350, RH2-C-1400, RH2-C-1450, RH2-C-0101, RH3-C-1475, RH3-C-1500, RH3-C-1550, RH4-C-41300, RH4-C-41350, RH4-C-41400, RH4-C-41450, RH4-C-3101, RH5-C-51300, RH5-C-51350, RH5-C-51400, RH5-C-51450, RH6-C-61300, RH6-C-61350, RH6-C-61400, RH6-C-61450, RH6-C-69300, RH6-C-69400, and C-2000. The reciprocating compressors will comply with the requirements of 20.2.50.114.B(2) and 20.2.50.114.B(4) NMAC.<br><br>The following existing centrifugal compressors are applicable to 20.2.50.114 per 20.2.50.114(A)(1) NMAC: RH1-C-42-406, RH2-C-141, RH3-C-141, RH4-C-141, RH5-C-50141, RH6-C-60141. The centrifugal compressors will comply with the requirements of 20.2.50.114.B(1) and 20.2.50.114.B(3) NMAC as applicable.<br><br>115 – The control devices and closed vent systems at this facility are used to comply with the requirements of this rule; therefore, they are subject to the requirements of 20.2.50.115 NMAC.<br>The following existing control devices are subject to this rule RH2-TO-5500, RH4-TO-45500, RH5-TO-55500, RH1-FL-29-1003, RH1-FL-2850, RHA-FL-5100, RH2-FL-5100, 3EP-2a, RH4-FL-45100, RHA-FL-5850, RA2-FL-25100, RH5-FL-55100, RA2-FL-25850.<br>The following new control devices are subject to this rule: RA2-FL-25100 and RA2-FL-25850. The Thermal Oxidizers will comply with the requirements stated in 20.2.50.115.D NMAC. The Flares will comply with the requirements stated in 20.2.50.115.C NMAC<br><br>116 – This facility will have equipment leaks and fugitive emissions. Thus, it will comply with the requirements of 20.2.50.116 NMAC. The following existing units are subject to this regulation: RH-FUG-1, RH-FUG-2, and RHA-FUG<br>The following new units are subject to this regulation: RA2-FUG.<br>This facility will comply with the emission standards of subpart as stated in 20.2.50.116.B NMAC.<br><br>117 – This facility is a natural gas processing plant. Thus, it is not subject to this rule.<br><br>118 – The TEG dehydrator units at this facility have a PTE VOC emissions greater than 2 tpy VOC; therefore, they are subject to the requirements of 20.2.50.118 NMAC. The following existing dehydrators are subject to this rule: RH1-TEG, RH2-TEG, RH3-TEG, RH4-TEG, RH5-TEG, and RH6-TEG. The dehydrators at this facility will comply with the emission standards in 20.2.50.118.B.(1) NMAC and 20.2.50.118.B.(3) to (5) NMAC.<br><br>119 – This facility has heater and reboiler units with a capacity greater than 20 MMBtu/hr. Therefore, this rule is applicable to this facility.<br>The following existing heaters and reboilers are subject to the requirements of 20.2.50.119.B(1) and (2) NMAC: RH1-H-23-704, RH1-H-1101, RH2-H-0901, RH2-H-1001, RHA-H-4901, RH4-H-781, RH4-H-3901, RH4-H-4001, RH5-H-50902, RH5-H-50001, RH5-H-50781, RH6-H-60001, and RH6-H-60781.<br>The following new heaters and reboilers are subject to the requirements of 20.2.50.119.B(1) and (3) NMAC: RA2-H-20001. |

| State Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.) |
|---|---|---|---|---|
| | | | | 120 – This facility is connected to a pipeline for hydrocarbon liquid transfers. Thus, this rule does not apply to the facility per 20.2.50.120.A(1) NMAC. Non-hydrocarbon liquid transfers (slop water / produced water) at the facility are not subject to the requirements of this subpart.<br><br>121 – Pig launching and receiving activities have the potential to emit more than 1 tpy; therefore, this regulation applies. The following pig launching and receiving activities are subject to the requirements of 20.2.50.121 NMAC: RH4-REC-24INCH. This activity will comply with the emission standards in 20.2.50.121.B NMAC.<br><br>122 – All pneumatic controllers and pumps are air driven. Thus, the facility is not subject to this rule.<br><br>123 – This facility has less than 3 tpy maximum allowable VOC emissions for existing hydrocarbon storage tanks. Thus, it is not subject to this subpart.<br><br>124 – The facility does not have any applicable activities. Therefore, this regulation does not apply.<br><br>125 – The facility does not qualify for a small business. Thus, this regulation is not applicable.<br><br>126 – The facility does not have any applicable activities. Therefore, this regulation does not apply.<br><br>127 – The facility does not have any applicable activities. Therefore, this regulation does not apply. |
| 20.2.61.109 NMAC | Smoke & Visible Emissions | Yes | **Generators:** RH-GEN-1 to RH-GEN-10, RH-GEN-WELL, RH-TRAILER,<br><br>**Heaters:** RH1-H-23-704, RH1-H-1101, RH4-H-41100, RH2-H-741, RH2-H-781, RH2-H-2301, RH2-H-0901, RH2-H-1001, RHA-H-4901, RH3-H-741, RH3-H-781, RH3-H-6301, RH4-H-741, RH4-H-781, RH4-H-3901, RH4-H-5301, | This regulation that limits opacity to 20% applies to Stationary Combustion Equipment, such as engines, boilers, heaters, thermal oxidizers, and flares unless your equipment is subject to another state regulation that limits particulate matter such as 20.2.19 NMAC (see 20.2.61.109 NMAC). **If equipment at your facility was subject to the repealed regulation 20.2.37 NMAC it is now subject to 20.2.61 NMAC.** |

| State Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.) |
|---|---|---|---|---|
| | | | RH4-H-4001, RH5-H-50902, RH5-H-50001, RH5-H-50741, RH5-H-50781, RH6-H-60001, RH6-H-60741, RH6-H-60781, RA2-H-20001<br><br>**Flares:**<br><br>RH4-FL-46200, RH2-FL-5100, RH3-FL-5100, RH4-FL-45100, RH5-FL-55100, RHA-FL-5100, RA2-FL-25100, RHA-FL-5850, RA2-FL-25850, RH1-FL-2850<br><br>**Thermal Oxidizers**:<br>RH2-TO-5500, RH4-TO-45500, RH5-TO-55500, | |
| 20.2.70 NMAC | Operating Permits | Yes | Facility | This facility is a Title V major source and operates under Title V permit number P278-M1. |
| 20.2.71 NMAC | Operating Permit Fees | Yes | Facility | If 20.2.70 NMAC applies, then 20.2.71 NMAC applies. All operating permit fees will be paid, as required. |
| 20.2.72 NMAC | Construction Permits | Yes | Facility | This facility is subject to 20.2.72 NMAC and currently operates under NSR permit number 4310-M6. |
| 20.2.73 NMAC | NOI & Emissions Inventory Requirements | Yes | Facility | This regulation establishes emission inventory requirements. The facility meets the applicability requirements of 20.2.73.300 NMAC. The facility will meet all reporting requirements under 20.2.73.300.B.1 NMAC and 20.2.73.300.B.2 NMAC. |
| 20.2.74 NMAC | Permits – Prevention of Significant Deterioration (PSD) | Yes | Facility | This facility is a PSD major source and currently operates under NSR permit number 4310-M6. Therefore, the facility is subject to the requirements of 20.2.74 NMAC. |
| 20.2.75 NMAC | Construction Permit Fees | No | N/A | This regulation establishes a schedule of operating permit emission fees. This facility is subject to 20.2.72 NMAC and in turn subject to 20.2.75 NMAC. This |

| State Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.) |
|---|---|---|---|---|
| | | | | facility is exempt from annual fees under this part (20.2.75.11.E NMAC) as it is subject to fees pursuant to 20.2.71 NMAC. |
| 20.2.77 NMAC | New Source Performance | Yes | Units subject to 40 CFR 60 | The following equipment at this facility are subject to the requirements of 40 CFR Part 60:<br>• 40 CFR 60, Subpart Dc: Heaters and Reboilers (Unit IDs: RH1-H-23-704, RH1-H-1101, RH4-H-41100, RH2-H-741, RH2-H-781, RH2-H-2301, RH2-H-0901, RH2-H-1001, RHA-H-4901, RH3-H-741, RH3-H-781, RH3-H-6301, RH4-H-741, RH4-H-781, RH4-H-3901, RH4-H-5301, RH4-H-4001, RH5-H-50902, RH5-H-50001, RH5-H-50741, RH5-H-50781, RH6-H-60001, RH6-H-60741, RH6-H-60781, RA2-H-20001).<br>• 40 CFR 60, Subpart Kb: Tanks at this facility (Unit IDs: TK-20101, TK-20102, TK-20103, TK-20104, TK-20105, TK-20106, TK-20107, TK-20108, TK-20109, TK-20110, TK-20111, TK-20112).<br>• 40 CFR 60, Subpart OOOO: Amine sweeting, Fugitives and Compressors (Unit IDs: RH1-AMINE, RH-FUG-2, reciprocating compressors).<br>• 40 CFR 60, Subpart OOOOa: Amine sweeting and Fugitives (Unit IDs: RH2-AMINE, RHA-AMINE, RH5-AMINE, RH-FUG-1, RH-FUG-2, RHA-FUG).<br>• 40 CFR 60, Subpart OOOOb: Amine sweetening, control devices and Fugitives (Unit IDs:RA2-AMINE, RA2-FL-25100, and RA2-FUG). |
| 20.2.78 NMAC | Emission Standards for HAPS | No | N/A | This facility emits hazardous air pollutants but none of which are subject to the requirements of 40 CFR Part 61. |
| 20.2.79 NMAC | Permits – Nonattainment Areas | No | N/A | This facility is not located in a non-attainment area and therefore it is not subject to this regulation. |
| 20.2.80 NMAC | Stack Heights | No | N/A | This regulation establishes requirements for the evaluation of stack heights and other dispersion techniques. This regulation does not apply as all stacks at the facility follow good engineering practice. |
| 20.2.82 NMAC | MACT Standards for source categories of HAPS | Yes | Units Subject to 40 CFR 63 | This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63:<br>• 40 CFR 63.760, Subpart HH: Dehydrators and Fugitives (Unit IDs: RH1-TEG, RH2-TEG, RH3-TEG, RH4-TEG, RH5-TEG, RH6-TEG, RH-FUG-1, RH-FUG-2, RHA-FUG, RA2-FUG).<br>• 40 CFR 63 Subpart DDDDD: Boilers and Process Heaters (Unit IDs: RH1-H-23-704, RH1-H-1101, RH4-H-41100, RH2-H-741, RH2-H-781, RH2-H-2301, RH2-H-0901, RH2-H-1001, RHA-H-4901, RH3-H-741, RH3-H-781, RH3-H-6301, RH4-H-741, RH4-H-781, RH4-H-3901, RH4-H-5301, RH4-H-4001, RH5-H-50902, RH5-H-50001, RH5-H-50741, RH5-H-50781, RA2-H-20001, RH6-H-60001, RH6-H-60741, RH6-H-60781) |

## Table for Applicable Federal Regulations:

| Federal Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: |
|---|---|---|---|---|
| 40 CFR 50 | NAAQS | No | N/A | The modeling and conditions developed from the modeling are the applicable requirements to demonstrate compliance with the NAAQs. |
| NSPS 40 CFR 60, Subpart A | General Provisions | Yes | Units subject to 40 CFR 60 | Applies if any other Subpart in 40 CFR 60 applies. |
| NSPS 40 CFR60.40a, Subpart Da | Subpart Da, Performance Standards for **Electric Utility Steam Generating Units** | No | N/A | This regulation establishes standards of performance for electric utility steam generating units. This regulation does not apply because the facility does not operate any electric utility steam generating units. |
| NSPS 40 CFR60.40b Subpart Db | **Electric Utility Steam Generating Units** | No | N/A | This regulation does not apply because the facility does not operate any electric utility steam generating units. |
| 40 CFR 60.40c, Subpart Dc | Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units | Yes | RH1-H-23-704, RH1-H-1101, RH4-H-41100, RH2-H-741, RH2-H-781, RH2-H-2301, RH2-H-0901, RH2-H-1001, RHA-H-4901, RH3-H-741, RH3-H-781, RH3-H-6301, RH4-H-741, RH4-H-781, RH4-H-3901, RH4-H-5301, RH4-H-4001, RH5-H-50902, RH5-H-50001, RH5-H-50741, RH5-H-50781, | The listed units are steam generating units for which construction, modification or reconstruction is commenced after June 9, 1989 and that have a maximum design heat input capacity of 29 MW (100 MMBtu/hr) or less, but greater than or equal to 2.9 MW (10 MMBtu/hr). The heaters at this facility are exempt from the SO2 [§60.42c(a) through (j)] emission standards and the PM [§60.43c(a) through (e)] emission standards, as the units only use natural gas. The heaters are subject to the recordkeeping and reporting requirements outlined in § 60.48c(a) and § 60.48c(g)(2). |

| Federal Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: |
|---|---|---|---|---|
| | | | RH6-H-60001, RH6-H-60741, RH6-H-60781, RA2-H-20001 | |
| NSPS 40 CFR 60, Subpart Ka | Standards of Performance for **Storage Vessels for Petroleum Liquids** for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and **Prior** to July 23, 1984 | No | N/A | Except as provided in paragraph (b) of this section, the affected facility to which this subpart applies is each storage vessel with a storage capacity greater than 151,416 liters (40,000 gallons) that is used to store petroleum liquids for which construction is commenced after May 18, 1978 and prior to July 23, 1984. The condensate tanks at this facility were constructed after July 23, 1984, therefore, this subpart does not apply. |
| NSPS 40 CFR 60, Subpart Kb | Standards of Performance for **Volatile Organic Liquid Storage Vessels** (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced **After** July 23, 1984 | Yes | TK-20101, TK-20102, TK-20103, TK-20104, TK-20105, TK-20106, TK-20107, TK-20108, TK-20109, TK-20110, TK-20111, TK-20112 | Except as provided in paragraph (b) of this section, the affected facility to which this subpart applies is each storage vessel with a capacity greater than or equal to 75 cubic meters ($m^3$) that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification is commenced after July 23, 1984. The tanks at this facility have a design capacity greater than or equal to 75 $m^3$ but less than 151 $m^3$ storing a liquid with a maximum true vapor pressure more than 15.0 kPa. The storage vessels listed are applicable to NSPS 40 CFR 60, Subpart Kb and will comply with the standards for VOCs outlined in §60.112b(b). |
| NSPS 40 CFR 60.330 Subpart GG | **Stationary Gas Turbines** | No | N/A | There are no turbines onsite; therefore, this regulation does not apply. |
| NSPS 40 CFR 60, Subpart KKK | Leaks of VOC from **Onshore Gas Plants** | No | N/A | Affected Facility with Leaks of VOC from Onshore Gas Plants. Any affected facility under paragraph (a) of this section that commences construction, reconstruction, or modification after January 20, 1984 and on or before August 23, 2011, is subject to the requirements of this subpart. As this site was constructed after August 23, 2011, Subpart KKK is not applicable. |
| NSPS 40 CFR Part 60 Subpart LLL | Standards of Performance for **Onshore Natural Gas Processing**: $SO_2$ Emissions | No | N/A | This regulation applies to onshore natural gas processing facilities which commence construction, reconstruction, or modification after January 20, 1984 and on or before August 23, 2011. As this site was constructed after August 23, 2011, Subpart LLL does not apply. |
| NSPS 40 CFR Part 60 Subpart OOOO | Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution for which construction, modification or reconstruction commenced after | Yes | Amine: RH1-AMINE<br><br>Fugitives: RH-FUG-2 (Train 1)<br><br>Reciprocating Compressors: RHA-C-5530, RHA-C-5540, | This regulation establishes emission standards and compliance schedule for the control of volatile organic compounds (VOC) emissions from affected facilities that commence construction, modification, or reconstruction after August 23, 2011 and before September 18, 2015. Since the facility has equipment that was constructed or modified after August 23, 2011 and before September 18, 2015, pneumatic devices and equipment leaks are subject to this regulation. Amine Units, reciprocating compressors, and fugitive equipment leaks constructed between August 24, 2011 and September 18, 2015 are subject to this regulation. The owner will comply with any applicable requirements under this subpart. |

| Federal Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: |
|---|---|---|---|---|
| | August 23, 2011 and before September 18, 2015 | | RA2-C-25530, RA2-C-25540, RA2-C-29300, RA2-C-29400, RH1-C-42-601A, RH1-C-42-601B, RH1-C-42-601C, RH1-C-42-15-U205, RH1-C-42-15-U206, RH1-C-42-108A, RH1-C-42-108B, RH2-C-1300, RH2-C-1350, RH2-C-1400, RH2-C-1450, RH2-C-0101, RH3-C-1475, RH3-C-1500, RH3-C-1550, RH4-C-41300, RH4-C-41350, RH4-C-41400, RH4-C-41450, RH4-C-3101, RH5-C-51300, RH5-C-51350, RH5-C-51400, RH5-C-51450, RH6-C-61300, RH6-C-61350, RH6-C-61400, RH6-C-61450, RH6-C-69300, RH6-C-69400, and C-2000 | Some of the condensate tanks at the facility are pressurized and do not meet the definition of a storage vessel in this regulation. All atmospheric condensate storage tanks are exempt from this regulation as they have less than 6 tpy VOC per affected unit. [40 CFR 60.5395].<br><br>Sweetening units located at onshore natural gas processing plants are an affected unit [40 CFR 60.5365(g)(1)]. RH1-AMINE has a design capacity less than 2 long tons per day (LT/D) of hydrogen sulfide (H2S) in the acid gas (expressed as sulfur) and is required to comply with recordkeeping and reporting requirements specified in § 60.5423(c) but are not required to comply with §§ 60.5405 through 60.5407 and §§ 60.5410(g) and 60.5415(g). Leak standards will apply to FUG-2 (Train 1) as per [40 CFR 60.5400(a) through (f)].<br><br>The pneumatic devices located at the facility will not be continuous gas bleed and therefore will not have applicable requirements under this regulation [40 CFR 60.5365(d)(3)]. This facility uses pneumatic air devices.<br><br>The reciprocating compressors at this facility are subject to the standards outlined in §60.5385(a) through (d).<br><br>The centrifugal compressors at this facility do not use wet seals and are therefore not subject to this subpart per §60.5365(b). |
| NSPS 40 CFR Part 60 Subpart OOOOa | Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced **After** September 18, 2015 | Yes | Amine:<br>RH2-AMINE, RHA-AMINE, RH4-AMINE, RH5-AMINE<br>Fugitives:<br>RHA-FUG, RH-FUG-1 | This regulation applies to amine units and fugitive equipment leaks which commenced construction after September 18, 2015.<br><br>Sweetening units located at onshore natural gas processing plants are an affected unit [40 CFR 60.5365a(g)(1)]. RHA-AMINE will comply with the standards outlined in §60.5405a(a) and (b).<br><br>RH2-AMINE, RH4-AMINE, and RH5-AMINE have a design capacity less than 2 long tons per day (LT/D) of hydrogen sulfide (H2S) in the acid gas (expressed as sulfur) and is required to comply with recordkeeping and reporting requirements specified in § 60.5423a(c) but are not required to |

| Federal Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: |
|---|---|---|---|---|
| | | | (Train 2-4), RH-FUG-2 | comply with §§ 60.5405a through 60.5407a and §§ 60.5410a(g) and 60.5415a(g).<br><br>Leak standards will apply to RHA-FUG, RH-FUG-1 (Train 2-4), and RH-FUG-2 as per [40 CFR 60.5400a(a) through (f)].<br><br>Pressurized tanks at the facility do not meet the definition of a storage vessel in this regulation. All atmospheric condensate storage tanks are exempt from this regulation as they have less than 6 tpy VOC per affected unit. [40 CFR 60.5365a]. |
| NSPS 40 CFR Part 60 Subpart OOOOb | Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction Commenced After November 15, 2021 | Yes | Fugitives: RA2-FUG<br><br>Amine: RA2-AMINE<br><br>Control Devices: RA2-FL-25100 | This regulation applies to amine units and fugitive equipment leaks which commenced construction after December 6, 2022.<br><br>Leak standards will apply to RA2-FUG as per [40 CFR 60.5397b].<br><br>Sweetening units located at onshore natural gas processing plants are an affected unit. [40 CFR 60.5365b(g)(1)]. RA2-AMINE will comply with the standards outlined in §60.5405b through 60.5407b, 60.5410b(i), 60.5415b(k), and 60.5423b.<br><br>The flare (RA2-FL-25100) is subject to the requirements of §60.5412b. |
| NSPS 40 CFR 60 Subpart IIII | Standards of performance for Stationary Compression Ignition Internal Combustion Engines | Yes | Generators: RH-GEN-WELL, RH-GEN-1 to RH-GEN-10, RH-TRAILER | This regulation establishes standards of performance for stationary compression ignition internal combustion engines. This rule applies to IC engines (diesel engines) that commenced construction after July 11, 2005. [40 CFR 60.4200(a)(1)].<br><br>RH-GEN-WELL is a diesel-fired stationary compression ignition engine and will commence operation after June 12, 2006 and is manufactured on or after July 1, 2007; therefore, the unit is subject to this subpart. The unit will comply with the emission standards outlined in § 60.4205(b). This unit will comply with § 60.4202(a)(i).<br><br>RH-GEN-1 to RH-GEN-10 are diesel-fired compression ignition engines; however, these engines will not be stationary for more than 12 months; therefore, this regulation does not apply. [40 CFR 60.4200(e)].<br><br>RH-TRAILER is a diesel fired compression ignition engine; however, RH-TRAILER will not be stationary for more than 12 months; therefore, this regulation does not apply. [40 CFR 60.4200(e)]. |
| NSPS 40 CFR Part 60 Subpart JJJJ | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines | No | N/A | This regulation establishes standards of performance for stationary compression ignition combustion engines. There are no stationary compression ignition internal combustion engines at this facility. This regulation does not apply. |
| NSPS 40 CFR 60 Subpart TTTT | Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units | No | N/A | The facility does not operate an affected source under this subpart. |
| NSPS 40 CFR 60 Subpart UUUU | Emissions Guidelines for Greenhouse Gas Emissions and Compliance Times | No | N/A | The facility does not operate an affected source under this subpart. |

| Federal Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: |
|---|---|---|---|---|
| | for Electric Utility Generating Units | | | |
| NSPS 40 CFR 60, Subparts WWW, XXX, Cc, and Cf | Standards of performance for Municipal Solid Waste (MSW) Landfills | No | N/A | This facility is not an MSW landfill. |
| NESHAP 40 CFR 61 Subpart A | General Provisions | No | N/A | NSPS 40 CFR 61 does not apply to the facility because the facility does not emit or have the triggering substances on site and/or the facility is not involved in the triggering activity. The facility is not subject to this regulation. None of the subparts of Part 61 apply to the facility. |
| NESHAP 40 CFR 61 Subpart E | National Emission Standards for **Mercury** | No | N/A | The provisions of this subpart are applicable to those stationary sources which process mercury ore to recover mercury, use mercury chlor-alkali cells to produce chlorine gas and alkali metal hydroxide, and incinerate or dry wastewater treatment plant sludge. This facility is not involved in these activities. This regulation does not apply. |
| NESHAP 40 CFR 61 Subpart V | National Emission Standards for **Equipment Leaks** (Fugitive Emission Sources) | No | N/A | This regulation establishes national emission standards for equipment leaks (fugitive emission sources). The facility does not have equipment that operates in volatile hazardous air pollutant (VHAP) service [40 CFR Part 61.240]. The regulated activities subject to this regulation do not take place at this facility. The facility is not subject to this regulation. |
| MACT 40 CFR 63, Subpart A | General Provisions | Yes | Units Subject to 40 CFR 63 | Applies if any other Subpart in 40 CFR 63 applies. |
| MACT 40 CFR 63.760 Subpart HH | **Oil and Natural Gas Production Facilities** | Yes | <u>Dehydration:</u> RH1-TEG, RH2-TEG, RH3-TEG, RH4-TEG, RH5-TEG, RH6-TEG<br><br><u>Fugitives:</u> RH-FUG-1, RH-FUG-2, RHA-FUG, RA2-FUG | This regulation establishes national emission standards for hazardous air pollutants from oil and natural gas production facilities. The facility is a major source of HAPs [§63.760(a)(1)] and meets the definition of a natural gas processing plant. The dehydrators will have a natural gas flow rate equal to or greater than 85 thousand standard cubic feet. The dehydrators that comply with the 1 tpy control option under 63.765(b)(1)(ii) are considered large dehydrators under MACT HH. The units will comply with applicable closed vent and control requirements outlined in §63.771(c)(1) through (3) and §63.771(d)(1) through (5), along with monitoring, recordkeeping, and reporting requirements, as applicable.<br><br>Fugitive components must comply with requirements under NSPS Subpart OOOO and OOOOa but there are still some reporting requirements that may apply under MACT Subpart HH. The owner will comply with any applicable requirements under Subpart HH for this site. [§63.769].<br><br>Fugitive emissions components associated with RA2-FUG are considered ancillary equipment and will comply with §63.769 (c)(1) through (c)(6).<br><br>Compressors at this facility have less than 10% by weight VHAP, therefore these units do not operate in VHAP service and are not an affected source. [40 CFR 63.760(b)(1)(iv)].<br><br>Storage tanks TK-20101, TK-20102, TK-20103, TK-20104, TK-20105, TK-20106, TK-20107, TK-20108, TK-20109, TK-20110, TK-20111, and TK-20112 are subject to subpart Kb and are therefore not subject to HH. [40 CFR 63.766(d)].<br><br>The other storage tanks at this facility (TK-6100, TK-6200, TK-26100, TK-26200, TK-46200, TK-46210, TK-46220, TK-46230, TK-6200 (2), TK-33-001, and TK-33-002) have an annual average hydrocarbon liquid throughput of less than 79,500 liters per day, and are therefore not subject to MACT HH. . |

| Federal Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: |
|---|---|---|---|---|
| MACT 40 CFR 63 Subpart HHH | National Emissions Standards for Hazardous Air Pollutants from Natural Gas Transmission and Storage facilities | No | N/A | This subpart applies to owners and operators of natural gas transmission and storage facilities that transport or store natural gas prior to entering the pipeline to a local distribution company or to a final end user (if there is no local distribution company), and that are major sources of hazardous air pollutants (HAP) emissions as defined in §63.1271. This regulation does not apply because this facility is not a natural gas transmission or storage facility as defined in this regulation [40 CFR Part 63.1270(a)]. |
| MACT 40 CFR 63 Subpart DDDDD | National Emission Standards for Hazardous Air Pollutants for Major Industrial, Commercial, and Institutional Boilers & Process Heaters | Yes | RH1-H-23-704, RH1-H-1101, RH4-H-41100, RH2-H-741, RH2-H-781, RH2-H-2301, RH2-H-0901, RH2-H-1001, RHA-H-4901, RH3-H-741, RH3-H-781, RH3-H-6301, RH4-H-741, RH4-H-781, RH4-H-3901, RH4-H-5301, RH4-H-4001, RH5-H-50902, RH5-H-50001, RH5-H-50741, RH5-H-50781, RA2-H-20001, RH6-H-60001, RH6-H-60741, RH6-H-60781, | The facility is a major source of HAPs as defined in §63.7485. The units listed will be subject to MACT 40 CFR 63 Subpart DDDDD as they will be constructed after the June 4, 2010 applicability date. [§63.7490(2)(b]. The boilers and process heaters will be combusting natural gas. The owner will comply with all applicable MACT DDDDD requirements [§63.7500(a)(1) through (f)]. |
| MACT 40 CFR 63 Subpart UUUUU | National Emission Standards for Hazardous Air Pollutants Coal & Oil Fire Electric Utility Steam Generating Unit | No | N/A | See 63.9980 (known as the MATs rule) |
| MACT 40 CFR 63 Subpart ZZZZ | National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (**RICE MACT**) | No | RH-GEN-WELL, RH-GEN-1 through RH-GEN-10 | The diesel fired generators (RH-GEN-1 through RH-GEN-10) and the heater trailer (RH-TRAILER) will not be stationary for more than 12 months; therefore, this regulation does not apply.<br><br>The generator engine (RH-GEN-WELL) is a stationary unit and will be stationary for longer than 12 months; therefore, this regulation applies. [§63.6590(c)]. This unit has a site rating of 35 hp and therefore meets the requirement of this part by meeting the requirements of 40 CFR Part 60 subpart IIII per §63.6590(c)(7). |

| Federal Regulation Citation | Title | Applies? Enter Yes or No | Unit(s) or Facility | Justification: |
|---|---|---|---|---|
| 40 CFR 64 | **Compliance Assurance Monitoring** | Yes | Amine: RH2-AMINE, RH4-AMINE, RH5-AMINE, RHA-AMINE<br>Dehydration: RH1-TEG, RH2-TEG, RH3-TEG, RH4-TEG, RH5-TEG, RH6-TEG | This regulation defines compliance assurance monitoring (CAM). As defined in § 64.2(a)(3), applies to the listed amine units and glycol dehydration units because the units have potential pre-control device emissions that are equal to or greater than 100 percent of the amount, in tons per year, required for a source to be classified as a major source.<br><br>The owner will comply with all applicable requirements under 40 CFR Part 64. |
| 40 CFR 68 | **Chemical Accident Prevention** | Yes | Facility | The facility is an affected facility, as it will use flammable process chemicals such as propane at quantities greater than the thresholds. The facility will develop and maintain an RMP for these chemicals per the requirements of § 68.150. |
| Title IV – Acid Rain 40 CFR 72 | **Acid Rain** | No | N/A | This regulation does not apply as this facility does not generate commercial electric power or electric power for sale. |
| Title IV – Acid Rain 40 CFR 73 | **Sulfur Dioxide** Allowance Emissions | No | N/A | This regulation does not apply as this facility does not generate commercial electric power or electric power for sale. |
| Title IV-Acid Rain 40 CFR 75 | **Continuous Emissions Monitoring** | No | N/A | This regulation does not apply as this facility does not generate commercial electric power or electric power for sale. |
| Title IV – Acid Rain 40 CFR 76 | **Acid Rain** Nitrogen Oxides **Emission Reduction Program** | No | N/A | This regulation does not apply as this facility does not generate commercial electric power or electric power for sale. |
| Title VI – 40 CFR 82 | Protection of **Stratospheric Ozone** | No | N/A | Not applicable as this facility does not meet any of the following:<br><br>(40 CFR 82.1 and 82.100) produce, transform, destroy, import, or export a controlled substance or import or export a controlled product;<br><br>(40 CFR 82.30) if you perform service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner;<br><br>(40 CFR 82.80) if you are a department, agency, and instrumentality of the United States subject to Federal procurement requirements;<br><br>(40 CFR 82.150) if you service, maintain, or repair appliances, dispose of appliances, refrigerant reclaimers, if you are an owner or operator of an appliance, if you are a manufacturer of appliances or of recycling and recovery equipment, if you are an approved recycling and recovery equipment testing organization, and/or if you sell or offer for sell or purchase class I or class I refrigerants. |

# Section 14

## Operational Plan to Mitigate Emissions

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

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☐ **Title V Sources** (20.2.70 NMAC)**:** By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Emissions During Startups, Shutdowns, and Emergencies** defining the measures to be taken to mitigate source emissions during startups, shutdowns, and emergencies as required by 20.2.70.300.D.5(f) and (g) NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.

☑ **NSR** (20.2.72 NMAC)**, PSD** (20.2.74 NMAC) **& Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Source Emissions During Malfunction, Startup, or Shutdown** defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown as required by 20.2.72.203.A.5 NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.

☑ **Title V** (20.2.70 NMAC)**, NSR** (20.2.72 NMAC)**, PSD** (20.2.74 NMAC) **& Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has established and implemented a Plan to Minimize Emissions During Routine or Predictable Startup, Shutdown, and Scheduled Maintenance through work practice standards and good air pollution control practices as required by 20.2.7.14.A and B NMAC. This plan shall be kept on site or at the nearest field office to be made available to the Department upon request. This plan should not be submitted with this application.

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- To the maximum extent practicable, the air pollution control equipment, process equipment, and processes will be maintained and operated in a manner consistent with good practice for minimizing emissions;
- Repairs will be made in an expeditious fashion when the operator becomes aware that applicable emission limitations are being exceeded;
- Repairs will be made in an expeditious fashion when the operator becomes aware of a malfunction that may cause emission limitations to be exceeded;
- Repairs will be made in an expeditious fashion when the operator becomes aware of a malfunction;
- Off-shift labor and overtime will be utilized, to the extent practicable, to ensure that such repairs were made as expeditiously as practicable;
- The amount and duration of the excess emissions (including any during bypass) periods will be minimized to the maximum extent practicable;
- All possible steps will be taken to minimize the impact of the excess emission on ambient air quality; and,
- The facility will monitor operations to ensure that excess emissions are not part of a recurring pattern indicative of inadequate design, operation, or maintenance.

# Section 15

## Alternative Operating Scenarios

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

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**Alternative Operating Scenarios:** Provide all information required by the department to define alternative operating scenarios. This includes process, material and product changes; facility emissions information; air pollution control equipment requirements; any applicable requirements; monitoring, recordkeeping, and reporting requirements; and compliance certification requirements. Please ensure applicable Tables in this application are clearly marked to show alternative operating scenario.

**Construction Scenarios**: When a permit is modified authorizing new construction to an existing facility, NMED includes a condition to clearly address which permit condition(s) (from the previous permit and the new permit) govern during the interval between the date of issuance of the modification permit and the completion of construction of the modification(s). There are many possible variables that need to be addressed such as: Is simultaneous operation of the old and new units permitted and, if so for example, for how long and under what restraints? In general, these types of requirements will be addressed in Section A100 of the permit, but additional requirements may be added elsewhere. Look in A100 of our NSR and/or TV permit template for sample language dealing with these requirements. Find these permit templates at: www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/. Compliance with standards must be maintained during construction, which should not usually be a problem unless simultaneous operation of old and new equipment is requested.

In this section, under the bolded title "Construction Scenarios", specify any information necessary to write these conditions, such as: conservative-realistic estimated time for completion of construction of the various units, whether simultaneous operation of old and new units is being requested (and, if so, modeled), whether the old units will be removed or decommissioned, any PSD ramifications, any temporary limits requested during phased construction, whether any increase in emissions is being requested as SSM emissions or will instead be handled as a separate Construction Scenario (with corresponding emission limits and conditions, etc.

---

**Alternate Operating Scenarios:**

**AGI Flaring Scenarios (RHA-FL-5100 and RA2-FL-25100)**

Flare units RHA-FL-5100 and RA2-FL-25100 are designed to combust startup, shutdown, and maintenance (SSM) and gas emissions from various process equipment at the facility. These flares also handle acid gas emissions from RHA-AMINE and RA2-AMINE when the AGI well system is offline. There are three (3) operating scenarios for these flares summarized in Table 15-1 below. Each flare unit will have two hourly emission limits depending on the flaring scenario. RHA-FL-5100 has one emission limit for if it is operating simultaneously as RA2-FL-25100 and one if it is not. Likewise, RA2-FL-25100 has one emission limit for if it is operation simultaneously as RHA-FL-5100 and one if it is not. The hourly emission limits for each flare during the three operating scenarios are summarized in Table 15-2 below.

**Table 15-1 AGI Flaring Scenarios**

| Unit ID | Nominal Processes | AOS 1 Processes | AOS 2 Processes | AOS 3 Processes |
|---|---|---|---|---|
| **RHA-FL-5100** | Pilot<br>Assist Gas<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge |
| **RA2-FL-25100** | Pilot<br>Assist Gas<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge | Pilot<br>Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions |

**Table 15-2 AGI Flaring Scenarios Hourly Emission Rates (lb/hr)**

| Unit ID | Scenario | NOx | CO | VOC | $SO_2$ | $H_2S$ | HAPs |
|---|---|---|---|---|---|---|---|
| RHA-FL-5100 | AOS 1 | 16.83 | 144.32 | 33.66 | 128.29 | 1.39 | 0.40 |
| | AOS 2 | 16.87 | 144.65 | 6.76 | 259.57 | 2.85 | 0.62 |
| | AOS 3 | - | - | - | - | - | - |
| RA2-FL-25100 | AOS 1 | 16.92 | 145.07 | 39.16 | 127.13 | 1.38 | 0.47 |
| | AOS 2 | - | - | - | - | - | - |
| | AOS 3 | 21.15 | 181.30 | 77.28 | 258.17 | 2.80 | 0.92 |

**Flaring Scenarios (RH1-FL-29-1003, RH2-FL-5100, RH3- FL-5100, RH4-FL-45100, and RH5-FL-55100)**

Flare units RH1-FL-29-1003, RH2-FL-5100, RH3- FL-5100, RH4-FL-45100, and RH5-FL-55100 are designed to combust startup, shutdown, and maintenance (SSM) emissions from various process equipment at the facility. These flares may also handle flash gas emissions from amine units RH1-AMINE, RH2-AMINE, RH4-AMINE, and RH5-AMINE during cold weather events. Additionally, these flare may also handle regenerator overheads from glycol dehydrator units RH2-DEHY, RH3-DEHY, RH4-DEHY, RH5-DEHY, and RH6-DEHY during thermal oxidizer downtime. It is important to note that facility SSM emissions and amine flash gas emissions will not be combusted simultaneously. All other nominal events can still occur within any given hour. This is summarized in Table 15-3 below.

**Table 15-3 Flaring Scenarios**

| Unit ID | Nominal Processes | AOS Processes |
|---|---|---|
| RH1-FL-29-1003 | Pilot<br>Purge<br>RH1-TEG (dehy) Still Vent<br>SSM Emissions | Pilot<br>Purge<br>RH1-TEG (dehydrator) Still Vent<br>RH1-AMINE (amine) Flash Gas |
| RH2-FL-5100 | Pilot<br>Purge<br>SSM Emissions | Pilot<br>Purge<br>RH2-AMINE (amine) Flash Gas<br>RH2-TEG and RH3-TEG (dehydrator) Regenerator Overheads |
| RH3-FL-5100 | Pilot<br>Purge<br>SSM Emissions | Pilot<br>Purge |
| RH4-FL-45100 | Pilot<br>Purge<br>SSM<br>Pigging Emissions | Pilot<br>Purge<br>RH4-AMINE (amine) Flash Gas<br>RH5-AMINE (amine) Flash Gas<br>RH4-TEG (dehydrator) Regenerator Overheads<br>Pigging Emissions |
| RH5-FL-55100 | Pilot<br>Purge<br>SSM Emissions | Pilot<br>Purge<br>RH5-TEG (dehydrator) Regenerator Overheads<br>RH6-TEG (dehydrator) Regenerator Overheads |

**Thermal Oxidizer Downtime (RH2-TO-5500, RH4-TO-45500, RH5-TO-55500)**

Thermal Oxidizers RH2-TO-5500, RH4-TO-45500, and RH5-TO-55500 are designed to combust regenerator overheads for glycol dehydrator units RH2-TEG, RH3- TEG, RH4- TEG RH5- TEG, and RH6- TEG and amine units RH1-AMINE, RH2-AMINE, RH4-AMINE, and RH5-AMINE. Thermal oxidizer downtime will occur during scheduled maintenance events (2 weeks/yr). During this downtime the glycol dehydrator regenerator overheads will be routed to the flares RH2-FL-5100, RH4-FL-45100, and RH5-FL-55100 and the amine regenerator overheads will be vented.

**Carbon-Capture and Sequestration for Sweet Amine Units (RH1-AMINE, RH2-AMINE, RH4-AMINE, RH5-AMINE)**

The AGI wells can be utilized to control $CO_2e$ emissions up to the permitted maximum surface injection pressure and if achievable, maximum injection capacity of 13 MMSCFD. Injection activities during normal operations will result in the injection formation continuing to pressure up, causing the achievable daily injection rate to decrease.

**Portable Generator and Heater Trailer**

Red Hills operates ten (10) portable emergency generators (units RH-GEN-1 through RH-GEN-10) and one (1) portable diesel-fired heater trailer (unit RH-TRAILER). The generators supply power for various activities during SSM events across the facility,

while the heater trailer is utilized exclusively in the winter months for cold-starting equipment. Targa seeks the flexibility to relocate these units within the designated Generator Zones, as outlined in Figure 15-1, with exact zone boundaries provided in Table 15-2. To ensure compliance with the National and New Mexico Ambient Air Quality Standards (NAAQS & NMAAQS), the units were modeled at various locations around the perimeter of each zone.

**Train 4 Slop Tank Scenarios**

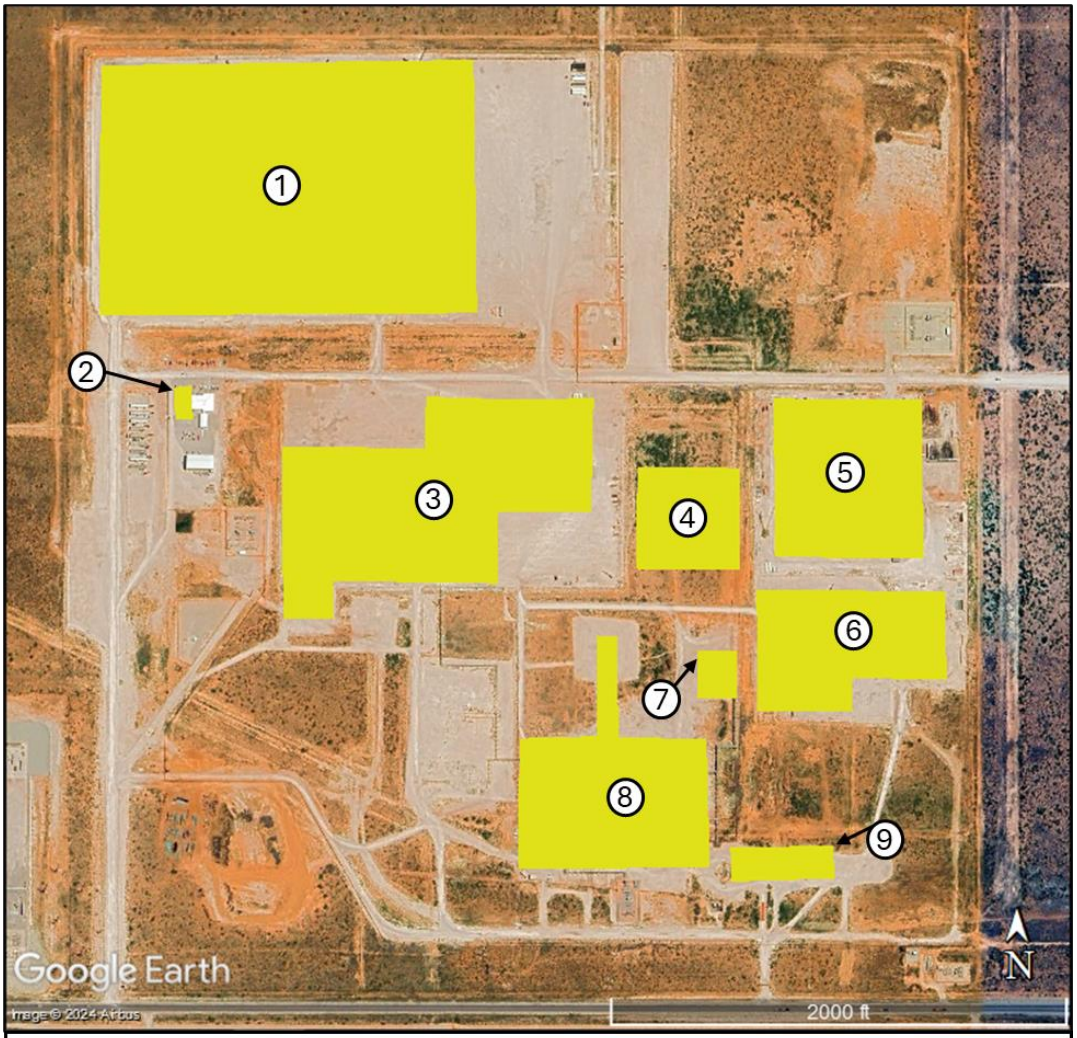
There are two scenarios for the slop tank battery at Train 4, RH4-TK-SLOP, and the associated loading, RH4-TK-SLOP-LOAD. RH4-TK-SLOP may receive a combination of condensate, produced water, and slop water from various process streams at the facility. The UA2 tables 2-C, 2-D, 2-E, 2-I, and 2-P have been represented with both Tank Scenario 1 and Tank Scenario 2 as appropriate.

In Tank Scenario 1, up to 19,860 bbls/yr of condensate are routed to the tanks and the emissions from the tanks and associated loading are controlled by a new flare, RH4-FL-46200, with a 98% DRE. Note that the condensate contribution does not constitute the entire flowrate to this set of tanks, but rather a subset.

In Tank Scenario 2, up to 120.7 bbls/yr of condensate are routed to the tanks as the condensate streams that were previously routed to this tank battery will be rerouted to another part of facility's process. The rerouting of these streams will require the installation of additional piping at the facility and associated fugitives, which are covered under the fugitive emissions represented in this application. Note that the condensate contribution does not constitute the entire flowrate to this set of tanks, but rather a subset. In this scenario, RH4-TK-SLOP and associated loading RH4-TK-SLOP-LOAD remain uncontrolled.

**Table 15-4 RH4-TK-SLOP Tank Scenarios**

| Scenario | Lube Oil (%) | Condensate (bbl/yr) | Produced and Slop Water (bbl/yr) | Total Throughput (bbl/yr) |
|---|---|---|---|---|
| 1 | 15% | 19,860 | 142,860 | 149,860 |
| 2 | 15% | 120.7 | 145,880 | 142,885 |




**Generator Zones**

| | | | | | |
|---|---|---|---|---|---|
| 1. | RH North Plant | 4. | RH AGI Well #3 | 7. | RH1 Bullet Tank |
| 2. | RH CCR/Warehouse | 5. | RH AGI-2 Plant | 8. | RH1 Plant |
| 3. | RH2/3 Plant | 6. | RH AGI-1 Plant | 9. | RH1 Condensate Tank Farm |

**Table 15-4 Generator Zone Boundaries for Portable Units**

| Generator Zone ID | Modeled Locations | |
|---|---|---|
| | UTM Easting (m) | UTM Northing (m) |
| RH North Plant | 638536.69 | 3565975.04 |
| | 639033.48 | 3565989.04 |
| | 639042.22 | 3565647.61 |
| | 638536.40 | 3565635.81 |
| RH CCR/Warehouse | 638638.79 | 3565544.90 |
| | 638663.39 | 3565545.22 |
| | 638663.52 | 3565500.25 |
| | 638640.45 | 3565499.97 |
| RH2/3 Plant | 638784.57 | 3565464.99 |
| | 638974.89 | 3565466.66 |
| | 638975.78 | 3565535.52 |
| | 639197.95 | 3565534.73 |
| | 639198.10 | 3565384.42 |
| | 639074.06 | 3565381.83 |
| | 639073.41 | 3565286.93 |
| | 638854.13 | 3565284.93 |
| | 638855.10 | 3565235.53 |
| | 638788.24 | 3565234.05 |
| RH AGI Well #3 | 639259.83 | 3565444.24 |
| | 639395.68 | 3565446.79 |
| | 639396.70 | 3565308.70 |
| | 639261.94 | 3565308.29 |
| RH FET-2 Plant | 639440.71 | 3565538.82 |
| | 639636.86 | 3565541.52 |
| | 639641.79 | 3565325.64 |
| | 639443.83 | 3565327.60 |

| Generator Zone ID | Modeled Locations | |
|---|---|---|
| | UTM Easting (m) | UTM Northing (m) |
| RH FET-1 Plant | 639421.23 | 3565283.62 |
| | 639671.37 | 3565285.96 |
| | 639673.98 | 3565166.52 |
| | 639549.20 | 3565164.92 |
| | 639550.76 | 3565121.62 |
| | 639422.56 | 3565120.23 |
| RH1 Bullet Tank | 639344.06 | 3565198.24 |
| | 639395.09 | 3565200.84 |
| | 639395.92 | 3565135.37 |
| | 639342.91 | 3565135.74 |
| RH1 Plant | 639107.19 | 3565078.67 |
| | 639210.78 | 3565080.97 |
| | 639207.95 | 3565218.82 |
| | 639233.86 | 3565219.21 |
| | 639235.68 | 3565083.18 |
| | 639356.95 | 3565084.68 |
| | 639359.38 | 3564907.95 |
| | 639104.42 | 3564906.15 |
| RH1 Condensate Tank Farm | 639389.68 | 3564938.03 |
| | 639528.63 | 3564941.55 |
| | 639529.26 | 3564895.35 |
| | 639391.34 | 3564891.01 |

# Section 16

## Air Dispersion Modeling

1) Minor Source Construction (20.2.72 NMAC) and Prevention of Significant Deterioration (PSD) (20.2.74 NMAC) ambient impact analysis (modeling): Provide an ambient impact analysis as required at 20.2.72.203.A(4) and/or 20.2.74.303 NMAC and as outlined in the Air Quality Bureau's Dispersion Modeling Guidelines found on the Planning Section's modeling website. If air dispersion modeling has been waived for one or more pollutants, attach the AQB Modeling Section modeling waiver approval documentation.
2) SSM Modeling: Applicants must conduct dispersion modeling for the total short term emissions during routine or predictable startup, shutdown, or maintenance (SSM) using realistic worst case scenarios following guidance from the Air Quality Bureau's dispersion modeling section. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on SSM emissions modeling requirements.
3) Title V (20.2.70 NMAC) ambient impact analysis: Title V applications must specify the construction permit and/or Title V Permit number(s) for which air quality dispersion modeling was last approved. Facilities that have only a Title V permit, such as landfills and air curtain incinerators, are subject to the same modeling required for preconstruction permits required by 20.2.72 and 20.2.74 NMAC.

| **What is the purpose of this application?** | Enter an X for each purpose that applies |
|---|---|
| New PSD major source or PSD major modification (20.2.74 NMAC). See #1 above. | X |
| New Minor Source or significant permit revision under 20.2.72 NMAC (20.2.72.219.D NMAC). See #1 above. **Note:** Neither modeling nor a modeling waiver is required for VOC emissions. | |
| Reporting existing pollutants that were not previously reported. | |
| Reporting existing pollutants where the ambient impact is being addressed for the first time. | |
| Title V application (new, renewal, significant, or minor modification. 20.2.70 NMAC). See #3 above. | |
| Relocation (20.2.72.202.B.4 or 72.202.D.3.c NMAC) | |
| Minor Source Technical Permit Revision 20.2.72.219.B.1.d.vi NMAC for like-kind unit replacements. | |
| Other: i.e. SSM modeling. See #2 above. | |
| This application does not require modeling since this is a No Permit Required (NPR) application. | |
| This application does not require modeling since this is a Notice of Intent (NOI) application (20.2.73 NMAC). | |
| This application does not require modeling according to 20.2.70.7.E(11), 20.2.72.203.A(4), 20.2.74.303, 20.2.79.109.D NMAC and in accordance with the Air Quality Bureau's Modeling Guidelines. | |

**Check each box that applies:**

☐ See attached, approved modeling **waiver for all** pollutants from the facility.
☐ See attached, approved modeling **waiver for some** pollutants from the facility.
☑ Attached in Universal Application Form 4 (UA4) is a **modeling report for all** pollutants from the facility.
☐ Attached in UA4 is a **modeling report for some** pollutants from the facility.
☐ No modeling is required.

# AIR DISPERSION MODELING REPORT

## Red Hills Gas Processing Plant




**Targa Northern Delaware LLC**

**Prepared By:**

**TRINITY CONSULTANTS**
9400 Holly Ave NE
Bldg 3, Suite B
Albuquerque, NM 87122
505.266.6611

March 2026

Trinity Project No. 250601.0072 & 233201.0054

Trinity Consultants

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# 1. EXECUTIVE SUMMARY

Targa Resources LLC, dba Targa Northern Delaware LLC, (Targa) operates the Red Hills Gas Processing Plant (Red Hills) at 1934 W NM Highway 128, Jal, 88252, Lea County, New Mexico under Construction Permit 4310-M6R3 and Title V Operating Permit P278-M1.

Red Hills is subject to Prevention of Significant Deterioration (PSD) review for ozone, nitrogen dioxide ($NO_2$), carbon monoxide (CO), sulfur dioxide ($SO_2$), particulate matter ($PM_{2.5/10}$), and hydrogen sulfide ($H_2S$). Since emissions at Red Hills exceed the Significant Emission Rate (SER) for nitrogen oxides ($NO_X$) and $SO_2$, an assessment of secondary $PM_{2.5}$ formation was performed. Targa also performed state-level impact assessments for hydrogen sulfide ($H_2S$) and particulate matter ($PM_{2.5/10}$). Targa has prepared emission calculations that demonstrate that a 20.2.72 NMAC toxics modeling analysis is not required; this demonstration is included in Section 20 of the application package.

Targa retained Trinity Consultants (Trinity) to perform the modeling analyses that served as the basis for the impact assessments. A modeling protocol presenting the regulatory framework and proposed model options was submitted to the New Mexico Environmental Department (NMED) on April 10th, 2025, and an additional Modeling Addendum was submitted on May 22, 2025. The protocol and addendum were approved by NMED and EPA on January 27, 2026. Approval documentation is included in 10.4Appendix A. This modeling report includes the results of the completed air dispersion modeling. This modeling report defines the regulatory framework and technical methods that were used for the following analyses:

- An air quality impact analysis (AQIA) that demonstrates that Red Hills emissions, in conjunction with background concentrations and neighboring sources as applicable,[1] do not cause or contribute to a violation of applicable New Mexico and National Ambient Air Quality Standards (NMAAQS and NAAQS) or Class II PSD increments.[2]
- An Additional Impacts Analysis for growth, visibility impairment, water consumption, endangered species and soils and vegetation analyses as required by the PSD regulations.
- A Class I Area impact assessment performed in accordance with guidance and additional consultation from the applicable Federal Land Managers of Class I areas. This assessment includes an initial screening significant impact analyses (SIL).
- A Q/D analysis for all Class I areas within 300 kilometers (km) of Red Hills (see Section 8.2) and refined Air Quality Related Values analyses (see Section 8.3) for Q/D results that may exceed the threshold level determined by Federal Land Managers (FLM). The FLMs were consulted to determine the requirements of additional analyses. Documentation of this consultation is included in 10.4Appendix B.

[1] Code of Federal Regulations, Title 40 – Protection of Environment, Part 51, Appendix W, Section 8.3. January 17, 2017.

[2] If facility-only impacts from the Red Hills plant do not exceed the significant impact level (SIL) for a pollutant and averaging period, the facility will not cause or contribute to a NMAAQS, NAAQS, and PSD increment violation, as applicable to that pollutant and averaging period.

The AQIA was conducted in accordance with guidance provided by the United States Environmental Protection Agency (EPA) and NMED as prescribed in the following:

- Guideline on Air Quality Models (published as 40 CFR 51, Appendix W; hereafter referred to as the Modeling Guideline);[3]
- Guidance on the Development of Modeled Emission Rates for Precursors (MERPs) as a Tier 1 Demonstration Tool for Ozone and $PM_{2.5}$ under the PSD permitting Program and Clarification on the Development of Modeled Emission Rates for Precursors (MERPs) as a Tier 1 Demonstration Tool for Ozone and $PM_{2.5}$ under the PSD Permitting Program;[4]
- NMED Air Dispersion Modeling Guidelines;[5]
- Federal Land Managers AQRV Workgroup (FLAG) Phase I Report (FLAG 2010);[6] and
- Interagency Work Group on Air Quality Modeling (IWAQM) Phase 2.[7]

Trinity used the current dispersion models and methods described in the above-mentioned documents to perform the modeling analyses in addition to the approved modeling protocol. Details regarding these methods and the results of the AIQA are included in this modeling report.

During application development, the unit numbers for all sources were modified. As the new unit numbers would exceed the character limit for AERMOD data entry, the old unit numbers were retained for modeling purposes. A cross-reference table for unit number identification is provided below.

[3] Code of Federal Regulations, Title 40 – Protection of Environment, Part 51, Appendix W, January 17, 2017.

[4] Guidance on the Development of MERPs as a Tier 1 Demonstration Tool for Ozone and $PM_{2.5}$ under the PSD Permitting Program. EPA-454-R-19-003. April 2019

[5] NMED Air Dispersion Modeling Guidelines (Revised June 2024) at https://www.env.nm.gov/air-quality/modeling-publications/

[6] Federal Land Managers' Air Quality Related Values Work Group (FLAG) Phase I Report—Revised (2010). October 2010.

[7] Interagency Workgroup on Air Quality Modeling (IWAQM) Phase 2 Summary Report and Recommendations for Modeling Long Range Transport Impacts. EPA-454/R-98-019. December 1998.

## Table 1-1. Unit Number Cross-Reference

| Unit Number in UA-2 | Unit Number in Modeling Files |
|---|---|
| RH1-H-23-704 | 1EP1 |
| RH1-H-1101 | 1.5EP1G |
| RH4-H-41100 | 4EP1G |
| RH2-H-741 | 2EP1A |
| RH2-H-781 | 2EP1B |
| RH2-H-2301 | 2EP1E |
| RH2-H-0901 | 2EP1H |
| RH2-H-1001 | 2AEP1D |
| RHA-H-4901 | 2.5EP1D |
| RH3-H-741 | 3EP1A |
| RH3-H-781 | 3EP1B |
| RH3-H-6301 | 3EP1E |
| RH4-H-741 | 4EP1A |
| RH4-H-781 | 4EP1B |
| RH4-H-3901 | 4EP1D |
| RH4-H-5301 | 4EP1E |
| RH4-H-4001 | 4EP1H |
| RH5-H-50902 | 5EP1A |
| RH5-H-50001 | 5EP1B |
| RH5-H-50741 | 5EP1C |
| RH5-H-50781 | 5EP1D |
| RH6-H-60741 | 6EP1C |
| RH6-H-60781 | 6EP1D |
| RH6-H-60001 | 6EP1A |
| RA2-H-20001 | 5.5EP1A |
| RH1-FL-29-1003 | 1EP2 |
| RH2-FL-5100 | 2EP2A |
| RHA-FL-5100 | 2.5EP5 |
| RH3-FL-5100 | 3EP2A |
| RH4-FL-45100 | 4EP2A |
| RH5-FL-55100 | 5EP2 |
| RA2-FL-25100 | 5.5EP1B |
| RHA-FL-5850 | EP9 |
| RA2-FL-25850 | EP13 |

| Unit Number in UA-2 | Unit Number in Modeling Files |
|---|---|
| RA2-FL-25850 | EP13 |
| RH1-FL-2850 | EP79 |
| RH4-FL-46200 | RH4FLTK |
| RH2-TO-5500 | EP5 |
| RH4-TO-45500 | EP8 |
| RH5-TO-55500 | EP10 |
| RH4-REC-24INCH | REC6 |
| RH-GEN-1 | GEN1 |
| RH-GEN-2 | GEN2 |
| RH-GEN-3 | GEN3 |
| RH-GEN-4 | GEN4 |
| RH-GEN-5 | GEN5 |
| RH-GEN-6 | GEN6 |
| RH-GEN-7 | GEN7 |
| RH-GEN-8 | GEN8 |
| RH-GEN-9 | GEN9 |
| RH-GEN-10 | GEN10 |
| RH-TRAILER | TRAILER |
| RH-GEN-WELL | GEN_WW |
| RH-FUG-1 | COMB123* |
| RH-FUG-2 | COMB456* |
| RHA-FUG | COMB123* |
| RA2-FUG | COMB123* |
| RH4-REC-24INCH | LAU6 |
| RH1-SSM | COMB123* |
| RH2-SSM | COMB123* |
| RH3-SSM | COMB123* |
| RH4-SSM | COMB456* |
| RH5-SSM | COMB456* |
| RH6-SSM | COMB456* |
| RHA-SSM | COMB123* |
| RA2-SSM | COMB123* |
| RHA-TK-SLOP-LOAD | 2LOAD |
| RA2-TK-SLOP-LOAD | 4LOAD |

* See Section 3.4 for details regarding combined volume sources.

# 2. RED HILLS GAS PROCESSING PLANT OVERVIEW

## 2.1 Plant Description

The Red Hills Gas Processing Plant (Red Hills) is an existing natural gas processing plant located in Lea County. The primary function of the plant is to remove $CO_2$, water, and other impurities from raw field gas to ensure the processed gas meets pipeline quality specifications. The plant has been designated a primary Standard Industrial Classification (SIC) Code of 1311.

The gas will be treated to remove acid gases ($H_2S$ and $CO_2$) dehydrated to remove water and processed to remove C2+ hydrocarbons from the gas stream. Several plant systems will be involved to perform these functions.

**Slug Catcher / Separator**
Several slug catchers have been installed to catch and separate any free hydrocarbon liquids and water present in the inlet pipeline gas stream prior to undergoing gas treating and processing. The slug catchers are capable of handling large volumes of liquid brought into the plant from pipeline pigging operations. This equipment acts as a three-phase separator to separate the free hydrocarbons, gas to be processed, and free water. Separate inlet systems consisting of a series of separators and slug catchers will be associated with various trains. The south inlet system handles Trains 1 through 3 and the north inlet system handles Trains 4 through 6. Front end treaters RHA-AMINE and RA2-AMINE each have their own inlet systems.

**Condensate Stabilizer / Compressor**
The condensate stabilization system is in place to lower the Reid Vapor Pressure (RVP) of the pipeline liquids / condensate to meet required specifications. Condensate stabilization is accomplished by using a distillation process that uses heat to separate lighter hydrocarbon compounds in vapor phase from heavier hydrocarbon compounds in liquid phase to decrease the condensate RVP to a nominal RVP 9 product. The condensate from various filters/separators and the slug catcher are combined, stabilized, and sent to the tank farms for truck or pipeline sales. Any vapors that are created/removed during the stabilization process are recycled back to the plant inlet via compression.

**Amine Treating**
The amine units are designed to remove $CO_2$ and $H_2S$ from the natural gas stream to meet pipeline specifications. Amine treating is an exothermic chemical reaction process. The treating solution is a mixture of reverse osmosis (RO) water and MDEA (Methyldiethanolamine). This aqueous mixture is regenerated and reused. Lean amine/water solution is pumped to the top of the contactor and allowed to flow downward. Inlet gas is fed into the bottom of the contactor and flows upward. As the lean amine/water solution flows down through the contactor, it contacts the gas. The $CO_2$ and $H_2S$ react with the amine to form amine carbonate. The reacted amine, known as "sour" or "rich" amine, flows to the regeneration system and the processed ("sweet") gas continues to the glycol dehydration system. Sour gas is first treated in the front end treaters RHA-AMINE or RA2-AMINE to remove the majority of $H_2S$ present in the stream. Emissions from amine units RHA-AMINE and RA2-AMINE are controlled by a redundant Acid Gas Injection well system . During events such as AGI compressor downtime, startup, shutdown, or maintenance events on any associated equipment, or any other operational conditions that would prevent injection into the wells, the emissions are controlled by AGI Flares, units RHA-FL-5100 and RA2-FL-25100, respectively. Sweet gas from inlet pipelines, RHA-AMINE, and RH2-AMINE is then treated in the sweet amine units including RH1-AMINE, RH2-AMINE, RH4-AMINE, and RH5-AMINE. The emissions from these units are routed to various thermal oxidizers, including units RH2-TO-5500, RH4-TO-45500, and RH5-TO-55500, at the facility.

**Hot Oil System**
The hot oil system at the plant is used to provide heat to multiple processes within the facility. The system utilizes pumps to circulate hot oil through natural gas fired heaters to increase the oil temperature and then delivers it to various heat exchangers. Hot oil heaters within the hot oil system include RH1-H-23-704, RH1-H-1101, RH4-H-41100, RH2-H-781, RH2-H-0901, RH2-H-1001, RHA-H-4901, RH3-H-781, RH4-H-781, RH4-H-3901, RH4-H-4001, RH5-H-50902, RH5-H-50001, RH5-H-50781, RH6-H-60001, RH6-H-60781, and RA2-H-20001.

In addition to the hot oil system, the facility utilizes heaters for the regenerator gas, including units RH2-H-741, RH3-H-741, RH4-H-741, RH5-H-50741, and RH6-H-60741 and TEG reboilers, including units RH2-H-2301, RH3-H-6301, and RH4-H-5301.

**Glycol Dehydration**
Triethylene glycol (TEG) dehydration is used to remove water from the natural gas stream by reducing the inlet water dew point (temperature at which vapor begins to condense into a liquid) to the outlet dew point temperature which contains a specified amount of water. The water saturated inlet gas is brought into contact with "lean" TEG in a countercurrent contactor tower. Water vapor is absorbed in the TEG and consequently, the natural gas dew point is reduced. Wet inlet gas passing through the contactor tower is dehydrated, then flows to the molecular sieve beds. The water saturated (or "rich") glycol then flows from the absorber to a regeneration system in which it is partially decompressed, then heated to remove water vapor, resulting in "lean" glycol that is reintroduced to the contactor tower. Emissions from glycol dehydrator units, RH1-TEG, RH2-TEG, RH3-TEG, RH4-TEG, RH5-TEG, and RH6-TEG are controlled by various flares and thermal oxidizers at the facility, including units RH1-FL-29-1003, RH2-TO-5500, RH4-TO-45500, and RH5-TO-55500.

**Molecular Sieve Dehydration**
Molecular sieve dehydration is used upstream of the cryogenic units to achieve a gas stream dew point of -150°F. The process consists of three molecular sieve vessels cycling through one vessel in regeneration mode and two vessels in moisture adsorption mode. During the regeneration mode, hot, dry gas (regen gas) is passed up through the vessel to drive off the adsorbed moisture from the molecular sieve. The gas comes from a slipstream at the outlet of the molecular sieve dehy beds, and it is passed through a heater to achieve a temperature of approximately 500°F. After the gas passes through the molecular sieve vessels, it is cooled in an air-cooled exchanger. The water in the gas condenses and is separated from the gas stream in a separator. This process operates in a closed vent system.

**Cryogenic Unit**
The cryogenic unit is designed to liquefy natural gas components from the sweet, dehydrated inlet gas by removing work (heat) from the gas primarily by means of the propane refrigeration system and turbo expander. The cryogenic unit recovers natural gas liquids (NGL) by cooling the gas stream to extremely cold temperatures (-150°F and lower) and condensing components such as ethane, propane, butanes and heavier components into a liquid phase. The gas is cooled by a series of heat exchangers and by rapidly lowering the pressure of the gas from around 760 PSIG to approximately 190 PSIG. This process operates in a closed vent system under pressure. Once the gas has passed through the system of exchangers and expander, it is re-compressed using the energy obtained from expanding the gas. The gas is sent to residue compressors and pipelined out of the facility. The NGL's are pumped into a pipeline from the NGL Surge Tanks. In case the compressors are shut in, the gas may be temporarily sent to flares, including units RH1-FL-29-1003, RH2-FL-5100, RH3-FL-5100, RH4-FL-45100, and RH5-FL-55100.

**Propane Refrigeration**
The propane refrigeration system works to remove heavier hydrocarbons in the gas stream to increase cryogenic efficiencies later in the process. Typically, the gas stream is refrigerated to just below minus 20°F and C4+ components are dropped out of the process gas in varying efficiencies so the cryogenic equipment can concentrate on the lighter C2 and C3 components. This process operates in a closed vent system.

**Storage and Loading Operations**
The unstabilized liquids will be stored in up to four pressurized 90,000-gallon tanks, also called bullet tanks. These tanks are not a source of regulated pollutants and are considered process vessels. The tank loading will take place via a pressurized, closed loop system. Atmospheric tanks batteries include RH1-TK-COND-EAST (condensate), RHA-TK-SLOP (sour slop), RH1-TK-COND-WEST (condensate), and RA2-TK-SLOP (sour slop) are controlled by flares RHA-FL-5850, RA2-FL-25850, and RH1-FL-2850. RH2-TK-SLOP, and RH1-TK-SLOP contain slop water and are uncontrolled. Loading operations are quantified as units RHA-TK-SLOP-LOAD, RH1-TK-COND-WEST-LOAD, RA2-TK-SLOP-LOAD, RH2-TK-SLOP-LOAD, and RH1-TK-SLOP-LOAD. Haul road emissions associated with loading activities are quantified as RH-HAUL.

There are two scenarios for the slop tank battery at Train 4, RH4-TK-SLOP, and the associated loading, RH4-TK-SLOP-LOAD. RH4-TK-SLOP may receive a combination of condensate, produced water, and slop water from various process streams at the facility. In Tank Scenario 1, up to 19,860 bbls of condensate are routed to the tanks and the emissions from the tanks and associated loading are controlled by a new flare, RH4-FL-46200, with a 98% DRE. Note that the condensate contribution does not constitute the entire flowrate to this set of tanks, but rather a subset. In Tank Scenario 2, up to 120.7 bbls of condensate are routed to the tanks as the condensate streams that were previously routed to this tank battery will be rerouted to another part of facility's process. The rerouting of these streams will require the installation of additional piping at the facility and associated fugitives. Note that the condensate contribution does not constitute the entire flowrate to this set of tanks, but rather a subset. In this scenario, RH4-TK-SLOP and associated loading RH4-TK-SLOP-LOAD remain uncontrolled. Additional details regarding these operating scenarios are detailed in Section 15. The UA2 tables have been represented with both Tank Scenario 1 and Tank Scenario 2 as appropriate.

**Flares**
The plant flares are used during startup, shutdown, maintenance and upset conditions as well as some AOS SSM situations, as described in Section 15. In most cases, the only steady state operations associated with this flare are from the pilot and purge gas streams. RH1-FL-29-1003 also controls steady state emissions associated with RH1-TEG. SSM emissions from the plant flare result from maintenance activities per manufacturer-recommended or other preventative maintenance schedules. These maintenance activities include, but are not limited to, equipment blowdowns for associated maintenance, instrument calibrations, and process safety device maintenance. The inclusion of flare malfunction emissions captures any emissions that occur during process equipment malfunctions and are routed to any of the included flares (RH1-FL-29-1003, RH2-FL-5100, RH3-FL-5100, RH4-FL-45100, RH5-FL-55100).

**AGI Flare**
During events such as AGI compressor downtime, startup, shutdown, or maintenance events on any associated equipment, or any other operational conditions that would prevent injection into the wells, acid gas will be flared for limited periods at the respective acid gas flares until the facility can safely be brought offline. Under startup, shutdown, maintenance, and upset conditions the AGI wells could be offline. The AGI Flare units, RHA-FL-5100 and RA2-FL-25100, will also control non-condensable and flash tank emissions from the amine vent units, RHA-AMINE and RA2-AMINE during such events.

**Pigging Operations**
Pipeline inspection gauges (PIG) are used in the pipelines to purge, clean, and inspect pipelines to maintain operations and flow assurance of materials. This includes the removal of any accumulated materials or liquids. PIG receivers are used to receive the PIG device as well as to isolate other portions of the pipeline for the pigging process. PIG launchers are used to "launch" the PIG device through the pipeline. Pig Launchers and receivers at the site include RHA-REC-WINKLER, RHA-REC-LIMESTONE-8INCH, RH1-REC-PLANTVIEW, RH1-REC-GUTLINE, RH1-REC-ABU, RH4-REC-24INCH, RHA-REC-LIMESTONE-10INCH, RA2-REC-GREYHOUND, RHA-LAU-LIMESTONE-10INCH, RH1-LAU-NGPL, RH1-LAU-TW, RH1-LAU-ETC, RH1-LAU-ONEOK, and RH2-LAU-GPX.

**Major Process Bottlenecks**
The production at the Red Hills facility is limited at various processes. Inlet separation is constrained by the maximum liquid handling capacity, which limits the ability to manage large slugs or high liquid-to-gas ratios. Amine treating is limited by amine recirculation rates, contactor surface area, and heat duty supplied by the reboilers and hot oil system, which restricts the amount of $CO_2$ and $H_2S$ that can be removed. Glycol dehydration is limited by reboiler capacity. Residue gas compression is constrained by the compression capacity and discharge temperature limits, which restrict the maximum gas throughput and the pressure that can be delivered to the pipeline. NGL production is limited by the heater duty and downstream pumping capacity which restricts how much stabilized product can be processed and exported. Liquid storage is limited by tank volume and export rates, restricting how long the plant can operate at full capacity without offloading. Heaters and the hot oil system are capped by the total installed heat duty, fluid temperature limits, and flow distribution constraints, which together cap how much thermal energy can be supplied to various processes.

## 2.2 Plant Location and Surrounding Area

Red Hills is located approximately 37 km west-northwest of Jal, Lea County, New Mexico at north latitude 32°12'38" and west longitude 103°31'26" and alternately, in Section 13, Range 33E and Township 24S, Universal Transverse Mercator (UTM) Zone 13 North American Datum 1983 (NAD83). An aerial image of the plant (Figure 2-1) and a wider view of the plant location (Figure 2-2) were obtained from Google Earth.

Lea County is designated by the EPA as "unclassifiable" and/or "attainment" for all criteria pollutants.[8]

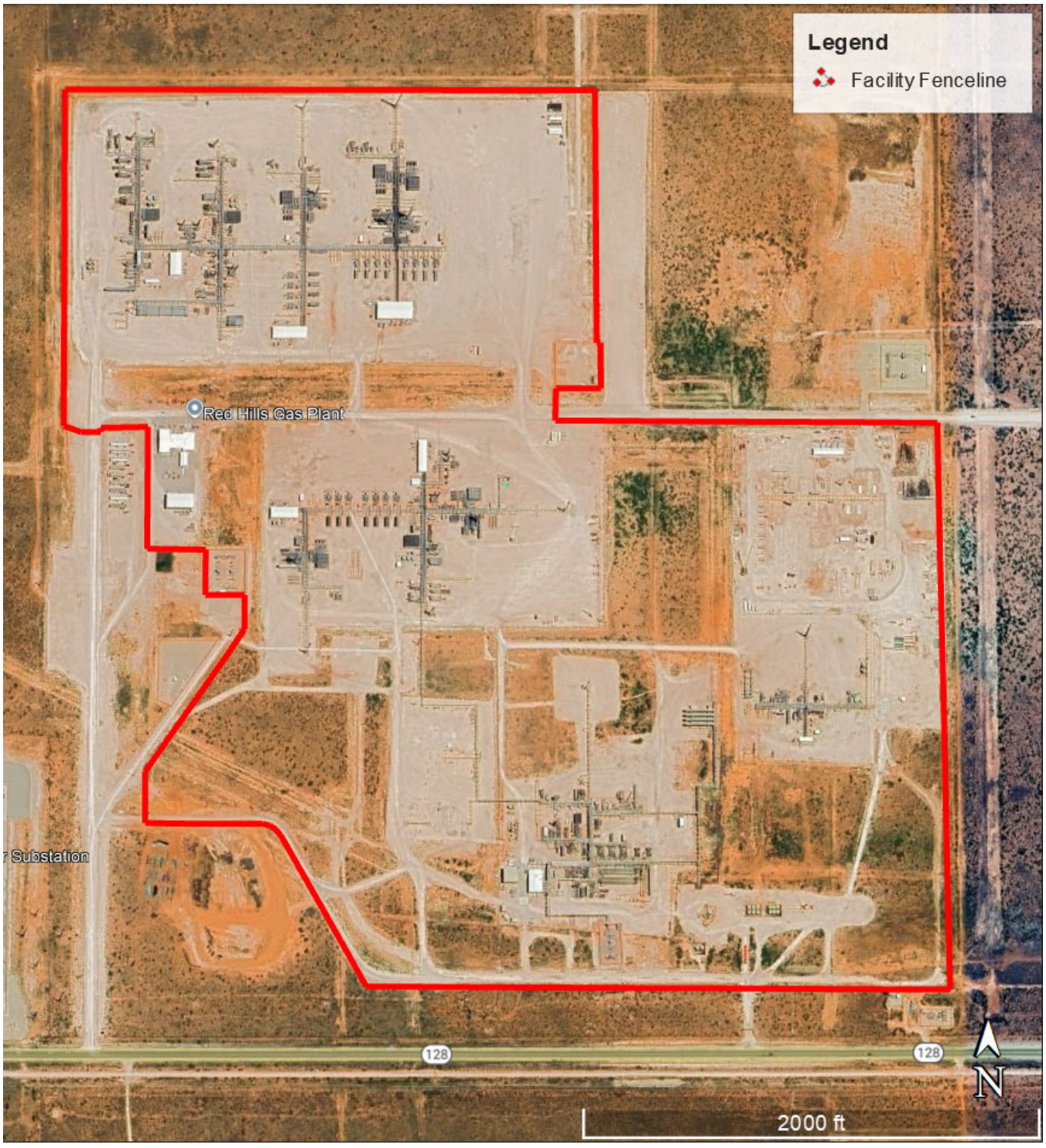
The distance from the perimeter of the Area of Operations at Red Hills to the nearest occupied residence or structure, or school is greater than 1.6 km (1 mile).

The Class I areas within 300 km of Red Hills are Carlsbad Caverns National Park (~80 km W-WSW), Guadalupe Mountains National Park (~115 km WSW), Salt Creek Wildlife Area (~170 km NNW), White Mountain Wilderness (~275 km WNW), and Big Bend National Park (~280 km SSE). The closest exterior boundary of the Bosque del Apache Wildlife Refuge is ~350 km from Red Hills. The applicable Class I areas are shown in Figure 2-3. Except for Big Bend National Park, the exterior boundaries of the Class I areas are fully within the 300 km distance from the Red Hills. The portion of the exterior boundary of Big Bend National Park within 300 km distance of the Red Hills is shown in Figure 2-4.

[8] 40 CFR §81.351 and New Mexico Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants | Green Book | US EPA

**Figure 2-1. Red Hills Gas Processing Plant Aerial Photograph**

Google Earth, image produced 04/08/2025



## Figure 2-2. Red Hills Gas Processing Plant Location

Google Earth, image produced 12/05/2024

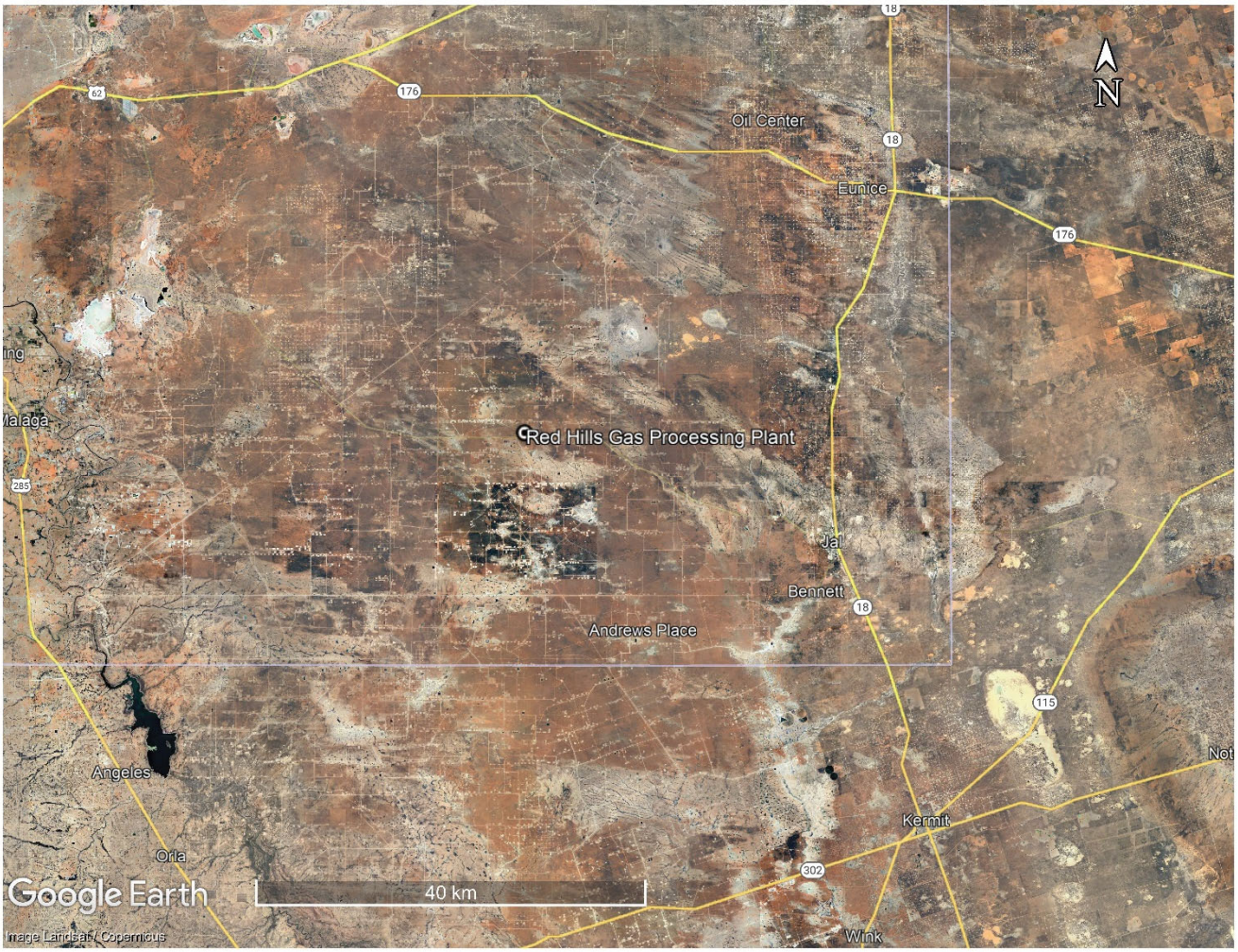


**Figure 2-3. PSD Class I Areas Within 300 km of Red Hills Gas Processing Plant**

Google Earth, image produced 12/05/2024

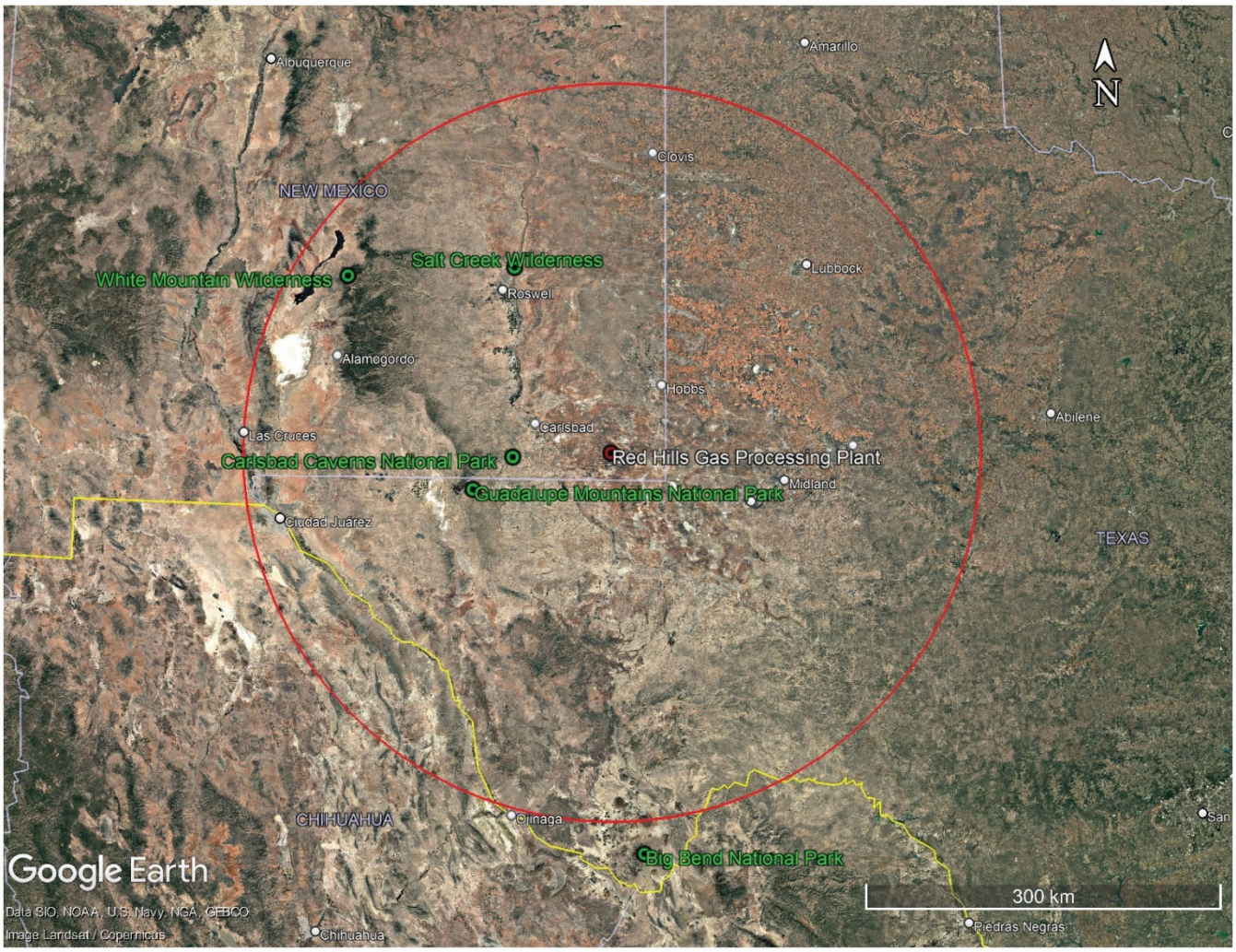
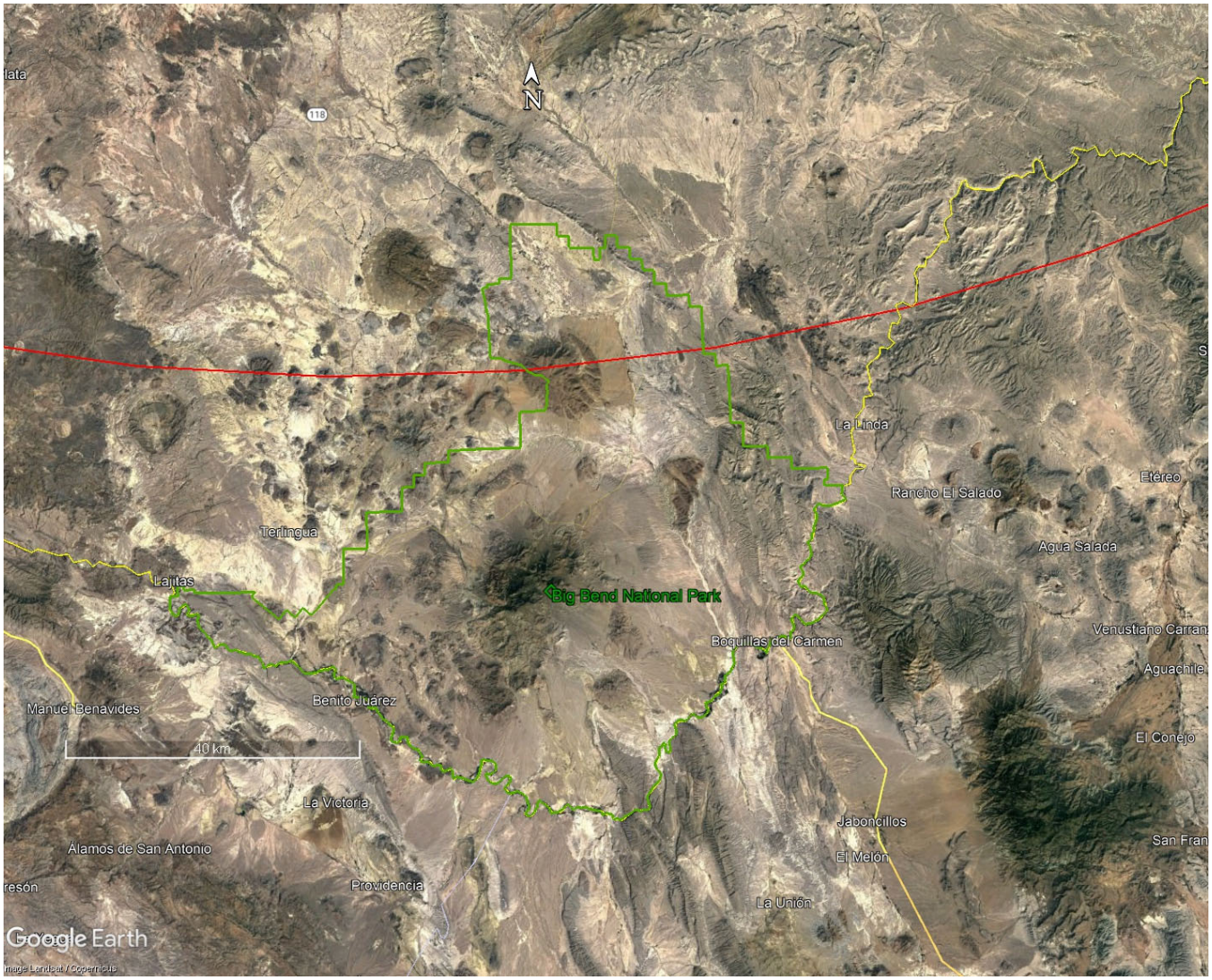


**Figure 2-4. Exterior Boundary of Big Bend National Park Within 300 km of Red Hills Gas Processing Plant**

Google Earth, image produced 12/05/2024



# 3. SOURCE CHARACTERIZATION

The following sections provide details associated with characterizing the emission sources for purposes of air dispersion modeling. A list of sources and associated parameters are provided in 10.4Appendix C.

## 3.1 Point Sources

Emissions that enter the atmosphere through a stack were modeled as point sources. Stack parameters for point sources (height above grade, exhaust temperature and velocity, and inside stack diameter) can be found in 10.4Appendix C.

## 3.2 Flares

Emissions from flares were modeled as point sources using the velocity, temperature, and effective stack diameter prescribed in the NMED Modeling Guidelines.[9] To properly simulate flaring events, Trinity adjusted the release height of flare emissions above the physical flare height to reflect the enhanced buoyancy generated by the combusted gas heat release rate, as described in Section 3.2.1.

### 3.2.1 Effective Flare Height

The regulatory default model, AERMOD, does not have a specific source type for flares. Rather, analysts must use the point source type to model emissions from flares in AERMOD. For a standard point source, AERMOD determines an effective height of the source, which is the height of the centerline of the plume above ground. AERMOD calculates the effective height by adding the physical height of the stack (supplied as a direct input) with the final plume rise, which is a function of buoyancy (exit temperature in relation to ambient air) and momentum (stack exhaust velocity). Flare source inputs are unique and difficult to quantify since "combustion occurs at or beyond the flare tip, appropriate values for stack exit temperature and exit velocity cannot be accurately determined."[10] Thus, flare temperature and exit velocity are modeled using default parameters, which means that AERMOD does not account for flare-specific characteristics, such as buoyancy flux due to the flare's heat release rate or the actual release height of pollutants. Appendix W to Title 40 Code of Federal Regulations Part 51 (40 CFR 51), the Guideline of Air Quality Models, also states that no "explicit provisions in [AERMOD] are made for…the handling of such special plumes as flares."[11]

For flare stack height, the height of the flame can exceed the original height of the flare itself, such that modeling the release of emissions at the base height of the flare would underestimate the actual release height.

The EPA's recommended screening model, AERSCREEN, does include a flare source option. For that source type, AERSCREEN requests users to input the emission rate, stack height, total heat release rate, and radiative heat loss fraction and then calculates effective stack diameter and stack height using this data. AERSCREEN then inputs into AERMOD the calculated effective stack height and diameter, along with default parameters of 20 m/s and 1,273 K, as the stack parameters for a point source. AERMOD does not natively have a flare

[9] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Section 5.2.3.

[10] New Source Review Emission Calculations, APD-ID 6v1. TCEQ, Revised 3/21.

[11] 40 CFR Part 51, Appendix W, 7.2.2.2

source type, so unlike AERSCREEN, this calculation of effective stack height and diameter is not done automatically.

To account for the characteristics of the flare emission source when directly entered in AERMOD, Targa calculated effective stack heights and diameters for each flare by scaling the flare stack's exit diameter based on the total flared gas heat release rate using Equation 1 (below)[12] and finding the sum of the expected height of the flame, also based on the total flared gas heat release rate, and the actual height of the flare to model the correct release height using Equation 2.[13] AERMOD can then calculate plume rise and model the emissions release reflecting the operational flare data while using the standard point source algorithm.

$$D = \sqrt{10^{-6} q_n} \qquad \text{Eq. 1}$$

Where:

- D – diameter
- $q_n$ – net heat release

$$H_{eff} = H_s + 4.56 \times 10^{-3} \times HR^{0.478} \qquad \text{Eq. 2}$$

Where:

- $H_{eff}$ – effective stack height
- $H_s$ – physical stack height
- HR – total heat release rate

The modeled effective release height for the flares does not exceed the Good Engineering Practice (GEP) stack height discussed in Section 4.6.

### 3.2.2 Sweet Gas Flares

Short-term emissions modeled for sweet gas flares, which include the 1-hr, 8-hr, and 24-hr averaging periods, reflect the sum of process emissions and the worst-case startup, shutdown and maintenance (SSM) emissions. Pilot, purge, and dehydrator still vent emissions are included in process emissions, where appropriate, meaning that they were assumed to be emitted continuously over a 24-hour period. For 24-hour standards, process emissions were assumed to occur for the entire period, while worst-case SSM emissions were assumed to only occur for the duration of the worst-case SSM event, which is 12 hours. The worst case SSM event would expend all of its proposed annual tons per year (TPY) emissions limit within a 12-hour period at that rate; therefore, it is presumed that this approach is conservative.

Annual emissions for sweet gas flares only account for process emissions, which include pilot, purge, and dehydrator still vent emissions, where appropriate. Per NMED Modeling Guidance Section 4.1.6, SSM does not have to demonstrate compliance with the annual standards or annual increment consumption.[14]

The table below summarizes the hourly, daily, and annual $NO_x$ and $SO_2$ emission rates modeled for each sweet gas flare. Modeling for CO and $H_2S$ utilized the highest hourly emission rate, as reported in 10.4Appendix C.

[12] Air Dispersion Modeling Guidelines. New Mexico Air Quality Bureau, June 2024.

[13] Engineering Guide #69: Air Dispersion Modeling Guidance. Ohio Environmental Protection Agency, November 14, 2018.

[14] NMED Modeling Guidance (July 2024). Section 4.1.6 Startup, Shutdown, Maintenance (SSM), and Other Short-term Emissions

**Table 3-1. Sweet Gas Flares Emission Rates**

| Model Unit ID | Permit Unit ID | Hourly Emission Rate (lb/hr) | | Daily Emission Rate[a] (lb/hr) | | Annual Emission Rate[b] (lb/hr) | |
|---|---|---|---|---|---|---|---|
| | | $NO_x$ | $SO_2$ | $NO_x$ | $SO_2$ | $NO_x$ | $SO_2$ |
| 1-EP-2 | RH1-FL-29-1003 | 211.68 | 2.56 | 106.12 | 1.35 | 0.56 | 0.15 |
| 2-EP-2a | RH2-FL-5100 | 563.35 | 5.00 | 281.86 | 2.50 | 0.37 | 0.0017 |
| 3-EP-2a | RH3-FL-5100 | 563.35 | 5.00 | 281.86 | 2.50 | 0.37 | 0.0017 |
| 4-EP-2a | RH4-FL-45100 | 648.31 | 5.75 | 324.08 | 2.88 | 0.37 | 0.0017 |
| 5-EP-2 | RH5-FL-55100 | 648.18 | 5.75 | 324.47 | 2.88 | 0.76 | 0.0035 |

a. Daily emission rates assume process emissions are emitted continuously over a 24-hour period, while worst-case SSM emissions are assumed to occur for the duration of the worst-case SSM event, which is 12 hours.
b. Annual emission rates only account for process emissions.

### 3.2.3 Acid Gas Flares

Flare model unit IDs 2.5-EP-5 and 5.5-EP-1b (permit unit IDs RHA-FL-5100 and RA2-FL-25100) combust SSM and gaseous emissions from various process equipment at the facility. These flares also handle acid gas emissions from RHA-AMINE and RA2-AMINE when AGI-1 and AGI-2 are offline. There are three (3) operating scenarios for these flares are summarized in Table 3-2 below. Each flare unit will have hourly emission limits (represented by the three operating scenarios) based on whether the flares are operating simultaneously or exclusively, as represented in Table 3-3 below.

**Table 3-2. Acid Gas Flare Scenarios**

| Model Unit ID | Permit Unit ID | AOS 1 Processes | AOS 2 Processes | AOS 3 Processes |
|---|---|---|---|---|
| **2.5-EP-5** | RHA-FL-5100 | Pilot<br>Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge |
| **5.5-EP-1b** | RA2-FL-25100 | Pilot<br>Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge | Pilot<br>Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions |

**Table 3-3. AGI Flaring Scenarios Hourly Emission Rates**

| Model Unit ID | Permit Unit ID | Scenario | $NO_x$ (lb/hr) | CO (lb/hr) | $SO_2$ (lb/hr) | $H_2S$ (lb/hr) |
|---|---|---|---|---|---|---|
| **2.5-EP-5** | RHA-FL-5100 | AOS 1 | 16.83 | 144.32 | 128.29 | 1.39 |
| | | AOS 2 | 16.87 | 144.65 | 259.57 | 2.85 |
| | | AOS 3 | 0.071 | 0.61 | 1.02E-03 | 2.86E-06 |
| **5.5-EP-1b** | RA2-FL-25100 | AOS 1 | 16.92 | 145.07 | 127.13 | 1.38 |
| | | AOS 2 | 0.17 | 1.47 | 1.83E-03 | 6.88E-06 |
| | | AOS 3 | 21.15 | 181.30 | 258.17 | 2.80 |

In addition to the flaring scenarios represented above, each flare is also going to take a daily emission rate limit to more appropriately represent impacts over a 24-hour period. The proposed daily emission rate limits for these units, in lb/day, are presented in Table 3-4 below.

**Table 3-4. AGI Flaring Scenarios Daily Emission Rates**

| Model Unit ID | Permit Unit ID | Scenario | $NO_x$ (lb/day) | CO (lb/day) | $SO_2$ (lb/day) | $H_2S$ (lb/day) |
|---|---|---|---|---|---|---|
| **2.5-EP-5** | RHA-FL-5100 | AOS 1 | 269.31 | 2,309.06 | 2,052.62 | 22.25 |
| | | AOS 2 | 269.93 | 2,314.44 | 4,153.05 | 45.55 |
| | | AOS 3 | 1.71 | 14.66 | 0.025 | 6.86E-05 |
| **5.5-EP-1b** | RA2-FL-25100 | AOS 1 | 270.72 | 2,321.19 | 2,034.08 | 22.05 |
| | | AOS 2 | 2.75 | 23.54 | 0.029 | 1.10E-04 |
| | | AOS 3 | 338.32 | 2,900.81 | 4,130.65 | 44.78 |

## 3.3 Volume Sources – Roads

Haul roads were modeled as two lanes to allow for two-way traffic. The road segments were characterized as volume sources following EPA's haul road guidance.[15] The road modeling was performed using adjacent volume sources with inputs as shown below. The road and haul truck dimensions are representative of vehicle traffic at the facility.

- Volume width = road width in meters (m) + 6 m
- Volume height = 1.7 x average vehicle height in meters
- Number of volume sources = road segment length / volume width
- Initial lateral dimension of the volume ($\sigma_{yo}$) = volume horizontal dimension / 2.15
- Initial vertical dimension of the volume ($\sigma_{zo}$) = volume height / 2.15
- Release height = volume height / 2
- Emission rate per volume source = total emission rate / number of volume sources
- Haul roads sources may be separated into segments specific to the type of vehicular traffic. Emissions were allocated to each road source segment based on the number of volume sources needed to represent a specific road segment and the total emissions for the traffic on the segments.

## 3.4 Volume Sources – Process Emissions

Pig receivers and launchers, train venting emissions during startup, shutdown, and maintenance, and sour water truck loading were modeled as volume sources. The volume source type and dimensions followed NMED Modeling Guidelines and can be found in Appendix C.

There are two volume sources at the facility that represent combined emissions from the emissions sources listed above. COMB123 represents emissions from Trains 1-3, 2.5, and 5.5 during startup, shutdown, and maintenance (RH-1SSM, RH2-SSM, RH3-SSM), fugitive $H_2S$ emissions (RH-FUG-1), and fugitive $H_2S$ emissions from sour water truck loading (RA2-TK-SLOP-LOAD and RH4-TK-SLOP-LOAD). COMB56 represents emissions from Trains 4-6 during startup, shutdown, and maintenance (RH4-SSM, RH5-SSM, RH6-SSM) and fugitive H2S emissions (RH-FUG-2). For both COMB sources, the location is based on the center of all the represented

[15] EPA memorandum from T. Fox to Regional Office Modeling Contacts, *Haul Road Workgroup Final Report Submission to EPA-OAQPS*. March 2, 2012.

sources. The initial lateral dimension is based on the area covering all these sources. However, to avoid receptors located in the volume source exclusion zone, Trinity conservatively calculated an initial lateral dimension such that no receptors are located within the volume source exclusion zone. The release height and initial vertical dimension are based on the height of fugitive sources.

# 4. CLASS II MODELING PROCEDURES

## 4.1 Model Selection

Trinity utilized the current version of the US EPA AERMOD modeling system to estimate off-site impacts. AERMOD is appropriate for use in modeling multi-source emissions, and accounts for plume downwash, stack tip downwash, and point, area, and volume sources.[16, 17]

Current versions of the AERMOD model and preprocessors[18] are:

- AERMAP Version 24142
- AERMOD Version 24142
- BPIPPRM Version 04274

All model input/output files and supporting data used in the modeling analysis were provided electronically to NMED concurrently with this modeling report.

## 4.2 Model Input Options

Model input options were set to EPA regulatory default values. Steady state emission rates for all averaging periods were modeled using the maximum short-term emission rate requested in the Red Hills permit application.[19] Startup, shutdown, and maintenance (SSM) emission rates were modeled as shown in Appendix C, using point sources and scenarios separate from steady state impacts to demonstrate compliance with standards. Short-term emissions for limited-hour sources (e.g., backup power generator engines) were modeled at the maximum short-term emission rate for deterministic standards ($PM_{10}$, CO) and at annualized emission rates based on the EPA guidance[20] for probabilistic standards ($NO_2$, $SO_2$). Although $PM_{2.5}$ is a probabilistic standard, short-term emissions for limited-hour sources were modeled at the maximum short-term emission rate.

[16] User's Guide for the AMS/EPA Regulatory Model - AERMOD (EPA-454/B-23-008). Office of Air Quality Planning and Standards. October 2023.

[17] Code of Federal Regulations, Title 40 – Protection of Environment, Part 51, Appendix W, January 17, 2017.

[18] NMED provides pre-processed meteorological data that has been processed using AERMET Version 19191. Use of the current version of AERMET (Version 24142) is not expected to produce appreciably different dispersion meteorological conditions for this application. Therefore, the meteorological preprocessors AERSURFACE, AERMINUTE, and AERMET were not used in this application. See Section 4.7 for a discussion of the proposed meteorological data.

[19] See application for permit 4310M7, Table 2-E.

[20] Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1 hour $NO_2$, National Ambient Air Quality Standard. Memorandum from Tyler Fox (Leader, Air Quality Modeling Group). March 1, 2011. (Note that this guidance also applies to the 1-hour $SO_2$ NAAQS).

## 4.3 Alternate Operating Scenarios

For units with alternate operating scenarios occurring at the same emission point, such as the flares at the facility, the maximum emission scenario was used for the modeling demonstration. The alternate operating scenarios are detailed in Section 15 of the application package submittal.[21]

For alternate operating scenarios that occur at different emission points, all scenarios were modeled in the significant impact analysis. The scenario that resulted in the most significant impact was used to demonstrate compliance through a cumulative analysis.

The most significant alternate operating scenario revolves around the flares that operate on the acid gas trains. Three scenarios exist: RHA-FL-5100 and RA2-FL-25100 operating simultaneously (Scenario 1), RHA-FL-5100 operating independently (Scenario 2), and RA2-FL-25100 operating independently (Scenario 3). Table 4-1 lists the emission rates for each scenario, Table 4-2 lists the changes in stack parameters for the two stacks based on changes in heat content of the controlled stream, and Table 4-3 identifies the scenarios with the maximum modeled impact for each pollutant and averaging period. For all annual scenarios, the emission rates are identical across all three scenarios. If modeled impacts were identical for all scenarios, such as for PM modeling where emissions are identical for all scenarios, Scenario 1 was used.

**Table 4-1. Scenario Emission Rates**

| Pollutant | Averaging Period | Scenario | RHA-FL-5100 Emission Rate (lb/hr) | RA2-FL-25100 Emission Rate (lb/hr) |
|---|---|---|---|---|
| CO | 1-hr/8-hr | 1 | 144.32 | 145.08 |
| | | 2 | 144.65 | 1.47 |
| | | 3 | 0.61 | 181.30 |
| $NO_2$ | 1-hr/24-hr | 1 | 16.83 | 16.92 |
| | | 2 | 16.87 | 0.17 |
| | | 3 | 0.071 | 21.15 |
| $SO_2$ | 1-hr/3-hr/24-hr | 1 | 128.29 | 127.13 |
| | | 2 | 259.57 | $1.83 \times 10^{-3}$ |
| | | 3 | $1.02 \times 10^{-3}$ | 258.17 |
| $H_2S$ | 1-hr | 1 | 1.39 | 1.38 |
| | | 2 | 2.85 | $6.89 \times 10^{-6}$ |
| | | 3 | $2.86 \times 10^{-6}$ | 2.80 |

[21] See application for permit 4310M7, Section 15.

**Table 4-2. Scenario Stack Parameters**

| Scenario | Stack ID | Stack Height* (m) | Stack Temperature (K) | Stack Velocity (m/s) | Stack Diameter* (m) |
|---|---|---|---|---|---|
| 1 | RHA-FL-5100 | 62.06 | 1273 | 20 | 4.70 |
| | RA2-FL-25100 | 61.32 | 1273 | 20 | 4.84 |
| 2 | RHA-FL-5100 | 64.71 | 1273 | 20 | 5.48 |
| | RA2-FL-25100 | 45.71 | 1273 | 20 | 0.38 |
| 3 | RHA-FL-5100 | 46.41 | 1273 | 20 | 0.25 |
| | RA2-FL-25100 | 64.15 | 1273 | 20 | 5.68 |

**Table 4-3. Scenarios with the Maximum Modeled Impact**

| Pollutant | Averaging Period | Modeled Scenario |
|---|---|---|
| CO | 1-hr | 1 |
| | 8-hr | 1 |
| $H_2S$ | 1-hr | 3 |
| $NO_2$ | 1-hr | 3 |
| | 24-hr | 3 |
| | Annual | 2 |
| $PM_{10}$ | 24-hr | 1 |
| | Annual | 1 |
| $PM_{2.5}$ | 24-hr | 1 |
| | Annual | 1 |
| $SO_2$ | 1-hr | 2 |
| | 3-hr | 2 |
| | 24-hr | 3 |
| | Annual | 2 |

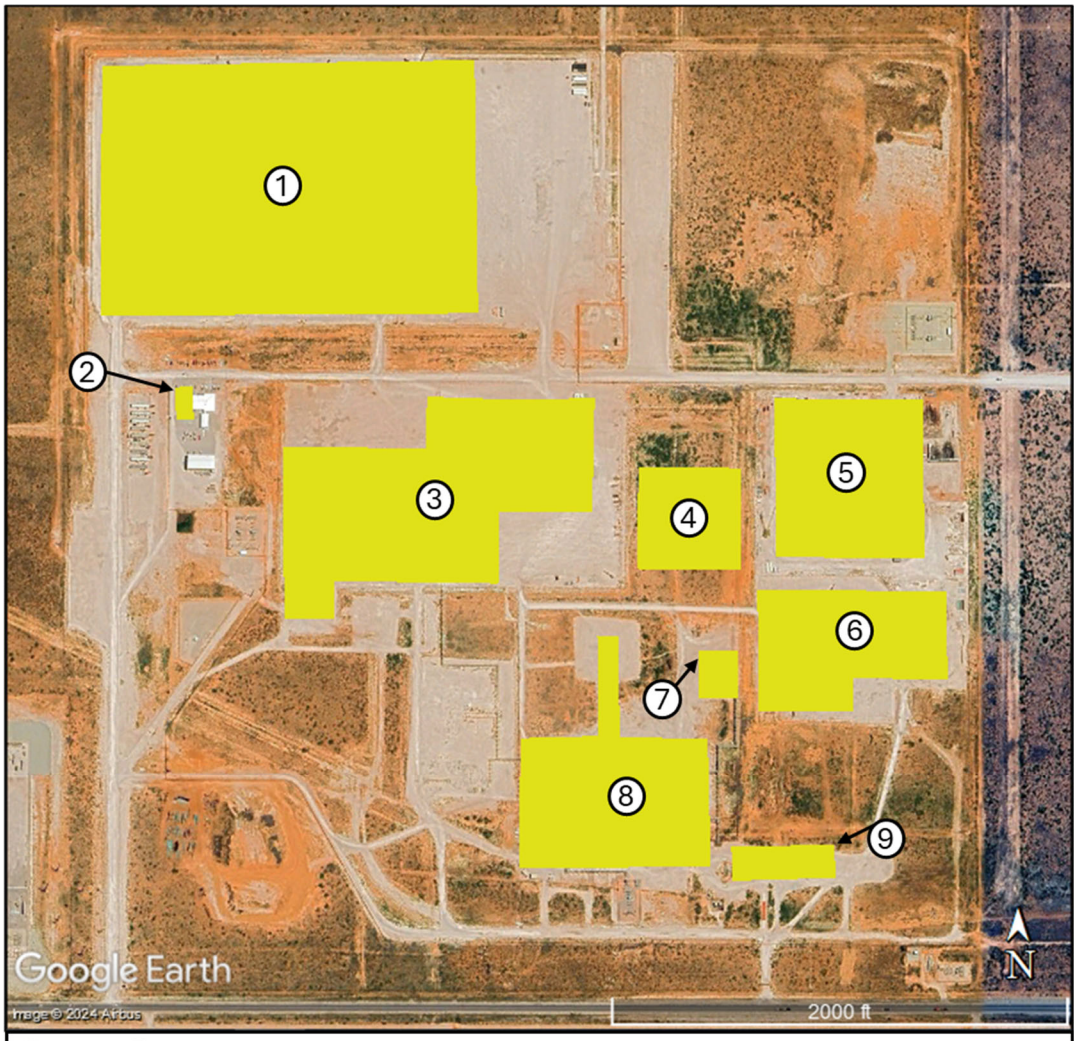
## 4.4 Portable Sources

Targa operates numerous portable diesel-fired generators and one heater trailer to support various activities that require additional power or heat. Targa seeks flexibility to relocate the generators and heater trailer within the Generator Zones, as outlined in Figure 4-1, with zone boundaries provided in Table 4-4. The generators and heater trailer were modeled at the boundary of the operational areas at a spacing of 10 meters apart in order to determine the locations that result in maximum impact. These locations were used for all significant impact and cumulative impact modeling. Portable and temporary sources were not modeled for PSD Increment, according to the notes to Table 21 of the NMED Modeling Guidelines.[22]

[22] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Section 2.7.1, Table 21.

This demonstration was set up to model for the 24-hr $PM_{10}$ standard. The model includes 762 sources, each modeled with the same parameters as the generators presently on site. Trinity identified the 10 generator locations that result in the highest modeled impact; these locations are used for significant impact and cumulative impact modeling for these units. General proximity of these locations can be seen in Figure 4-2, a more granular location map can be seen in Figure 4-3, and coordinates of locations can be found in Table 4-5. It is assumed that the location of worst impact will be identical for each pollutant. The locations were all in Generator Zone 2 and are identified in Figure 4-2.

**Figure 4-1. Generator Zone Boundaries**




**Generator Zones**

| | | | | | |
|---|---|---|---|---|---|
| 1. | RH North Plant | 4. | RH AGI Well #3 | 7. | RH1 Bullet Tank |
| 2. | RH CCR/Warehouse | 5. | RH AGI-2 Plant | 8. | RH1 Plant |
| 3. | RH2/3 Plant | 6. | RH AGI-1 Plant | 9. | RH1 Condensate Tank Farm |

## Table 4-4. Generator Zone Boundaries

| Generator Zone ID | Modeled Locations | |
|---|---|---|
| | UTM Easting (m) | UTM Northing (m) |
| RH North Plant | 638536.69 | 3565975.04 |
| | 639033.48 | 3565989.04 |
| | 639042.22 | 3565647.61 |
| | 638536.40 | 3565635.81 |
| RH CCR/Warehouse | 638638.79 | 3565544.90 |
| | 638663.39 | 3565545.22 |
| | 638663.52 | 3565500.25 |
| | 638640.45 | 3565499.97 |
| RH2/3 Plant | 638784.57 | 3565464.99 |
| | 638974.89 | 3565466.66 |
| | 638975.78 | 3565535.52 |
| | 639197.95 | 3565534.73 |
| | 639198.10 | 3565384.42 |
| | 639074.06 | 3565381.83 |
| | 639073.41 | 3565286.93 |
| | 638854.13 | 3565284.93 |
| | 638855.10 | 3565235.53 |
| | 638788.24 | 3565234.05 |
| RH AGI Well #3 | 639259.83 | 3565444.24 |
| | 639395.68 | 3565446.79 |
| | 639396.70 | 3565308.70 |
| | 639261.94 | 3565308.29 |
| RH AGI-2 Plant | 639440.71 | 3565538.82 |
| | 639636.86 | 3565541.52 |
| | 639641.79 | 3565325.64 |
| | 639443.83 | 3565327.60 |

| Generator Zone ID | Modeled Locations | |
|---|---|---|
| | UTM Easting (m) | UTM Northing (m) |
| RH AGI-1 Plant | 639421.23 | 3565283.62 |
| | 639671.37 | 3565285.96 |
| | 639673.98 | 3565166.52 |
| | 639549.20 | 3565164.92 |
| | 639550.76 | 3565121.62 |
| | 639422.56 | 3565120.23 |
| RH1 Bullet Tank | 639344.06 | 3565198.24 |
| | 639395.09 | 3565200.84 |
| | 639395.92 | 3565135.37 |
| | 639342.91 | 3565135.74 |
| RH1 Plant | 639107.19 | 3565078.67 |
| | 639210.78 | 3565080.97 |
| | 639207.95 | 3565218.82 |
| | 639233.86 | 3565219.21 |
| | 639235.68 | 3565083.18 |
| | 639356.95 | 3565084.68 |
| | 639359.38 | 3564907.95 |
| | 639104.42 | 3564906.15 |
| RH1 Condensate Tank Farm | 639389.68 | 3564938.03 |
| | 639528.63 | 3564941.55 |
| | 639529.26 | 3564895.35 |
| | 639391.34 | 3564891.01 |

**Figure 4-2. General Locations of Portable Sources**

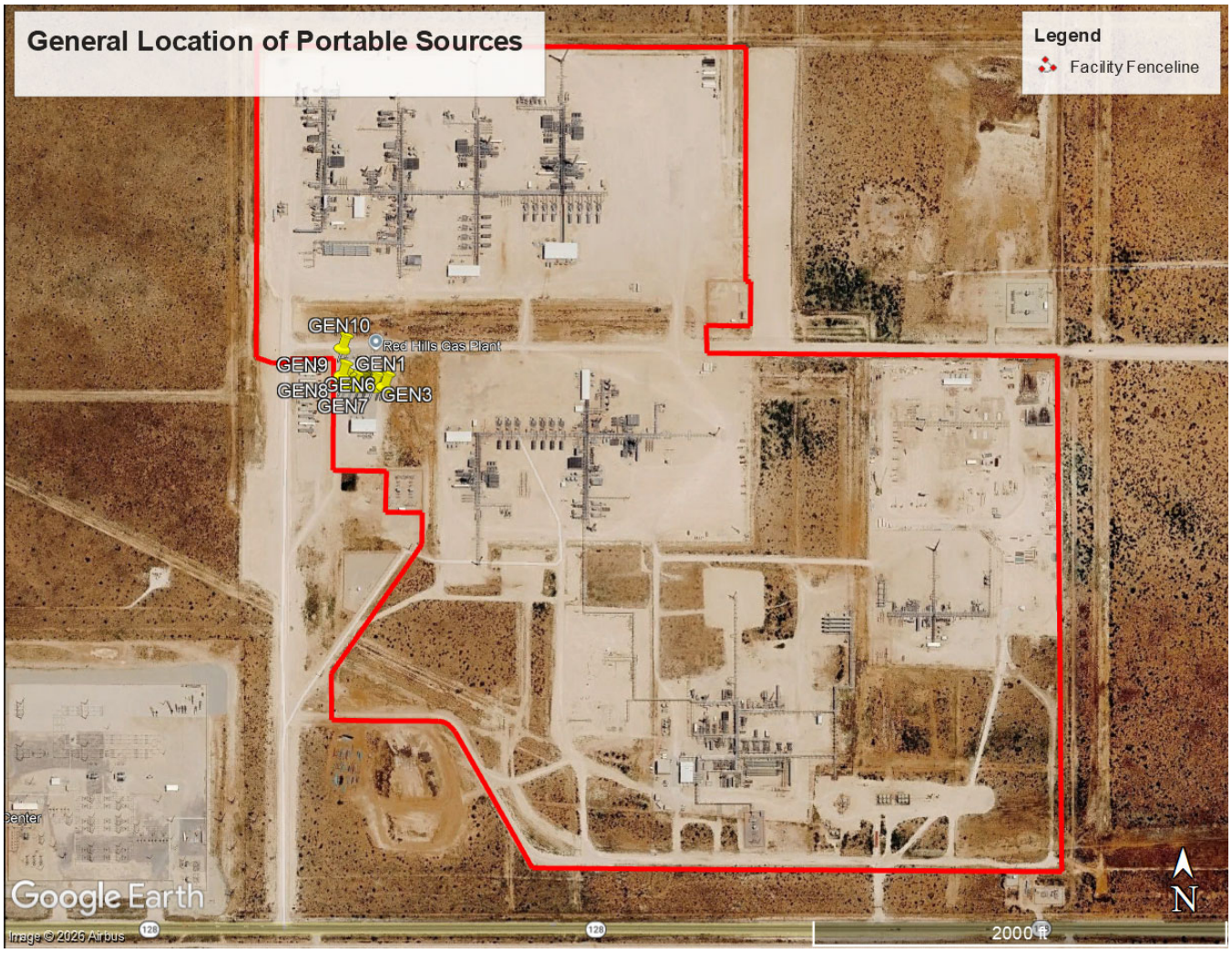


**Figure 4-3. Location of Portable Sources**

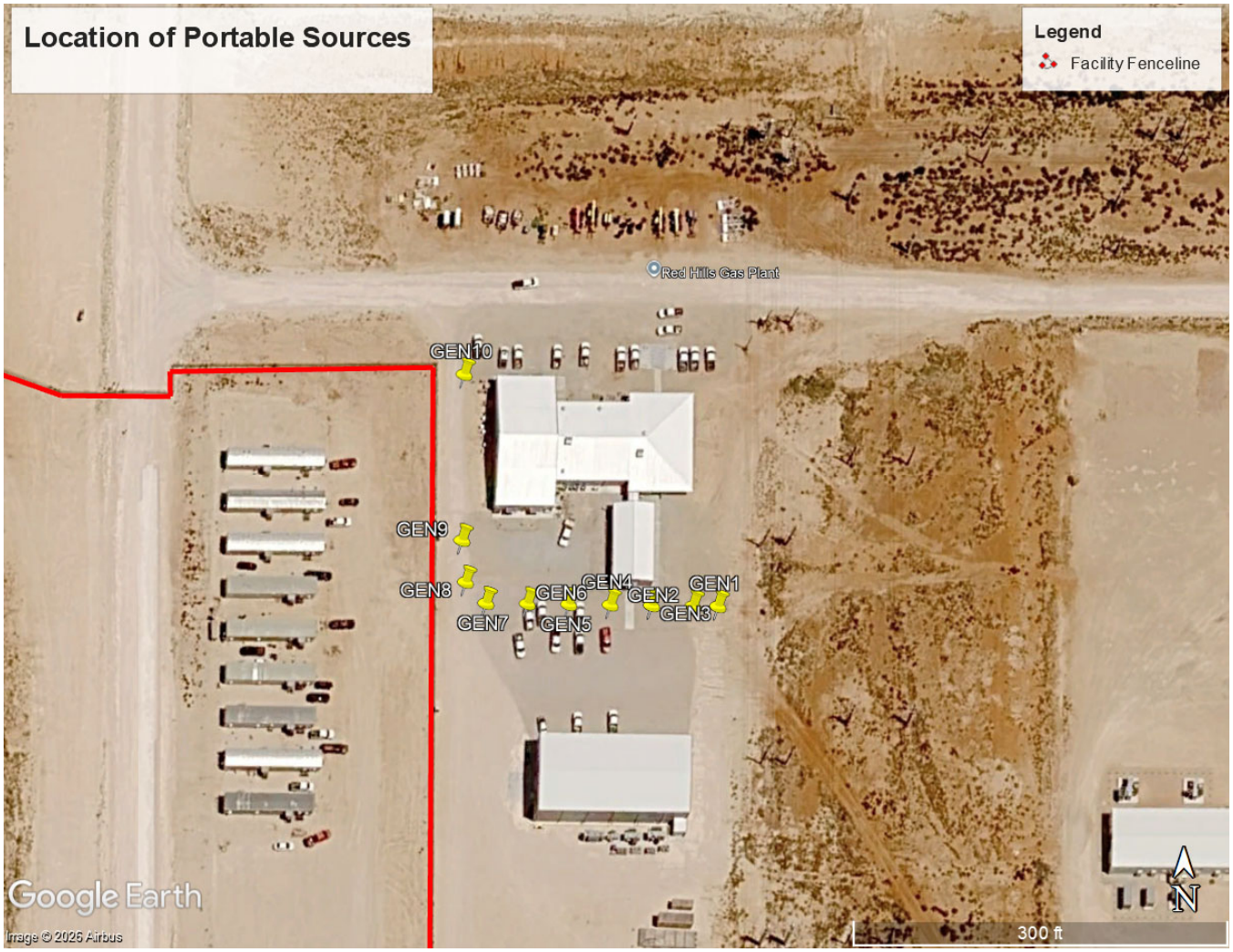



**Table 4-5. Coordinates of Worst-Case Locations**

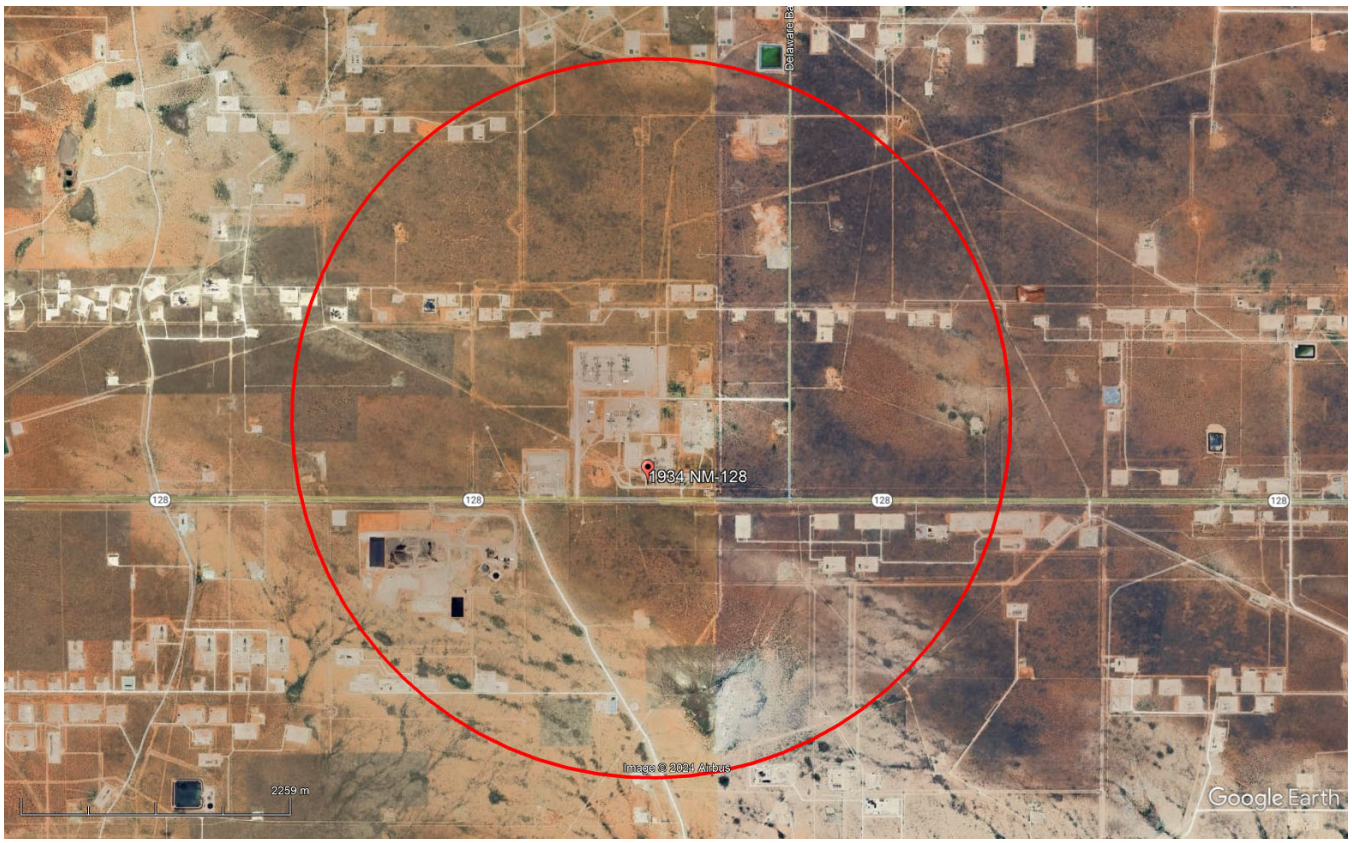
| Model Unit ID | UTM Easting (m) | UTM Northing (m) |
|---|---|---|
| GEN1 | 638698.7 | 3565483.2 |
| GEN2 | 638692.1 | 3565483.2 |
| GEN3 | 638682.1 | 3565483.2 |
| GEN4 | 638672.1 | 3565483.2 |
| GEN5 | 638662.1 | 3565483.1 |
| GEN6 | 638652.1 | 3565483.1 |
| GEN7 | 638642.1 | 3565483.1 |
| GEN8 | 638637 | 3565488.1 |
| GEN9 | 638636.9 | 3565498.1 |
| GEN10 | 638636.5 | 3565538.1 |

## 4.5 Land Use Classification

A qualitative Auer land-use analysis, as described in Section 7.2.1.1(b)(i) of the Modeling Guideline was performed to determine the appropriate dispersion coefficients used by the AERMOD model. The qualitative land use analysis was performed using aerial imagery from Google Earth.

Figure 4-4 presents an aerial image of the area around Red Hills. The red circle shown represents a 3-km radius circle from the site. Less than 50% of the area within the 3-km radius is classified as land use types I1, I2, C1, R2, or R3 [heavy industrial, light/moderate industrial, commercial, compact residential (single family), or compact residential (multi-family), respectively], so the URBANOPT keyword in AERMOD with appropriate inputs was not used. As shown in the image, the majority of the land use is undeveloped; as such, rural dispersion coefficients were used in AERMOD.

**Figure 4-4. Area Surrounding the Red Hills Gas Processing Plant**




## 4.6 Building Downwash

The Red Hills point sources were evaluated for proximity to nearby structures to determine if the stack discharge might become caught in the structures' turbulent wakes. Wind blowing over a building creates zones of turbulence that are greater than if the building was absent. AERMOD incorporates the Plume Rise Model Enhancements (PRIME) algorithms for estimating enhanced plume growth and restricted plume rise for plumes affected by building wakes.

EPA has promulgated stack height regulations that restrict the use of stack heights in excess of GEP in air dispersion modeling analyses. Under these regulations, that portion of a stack in excess of the GEP height is

generally not creditable when modeling to determine source impacts. This essentially prevents the use of excessively tall stacks to reduce the ground-level pollutant concentrations. Trinity has ensured that no stacks are represented as exceeding GEP height as described in EPA's GEP Technical Support document.[23]

Direction-specific building dimensions and the dominant downwash structure parameters used as inputs to AERMOD were determined using the *BREEZE®* BPIP software, developed by Trinity, which incorporates the current version of EPA's Building Profile Input Program for PRIME (BPIPPRM) building downwash processor.

The BPIPPRM processor is designed to incorporate the concepts and procedures expressed in the GEP Technical Support document[24] and other related documents. The site elevation was determined from digital elevation data.

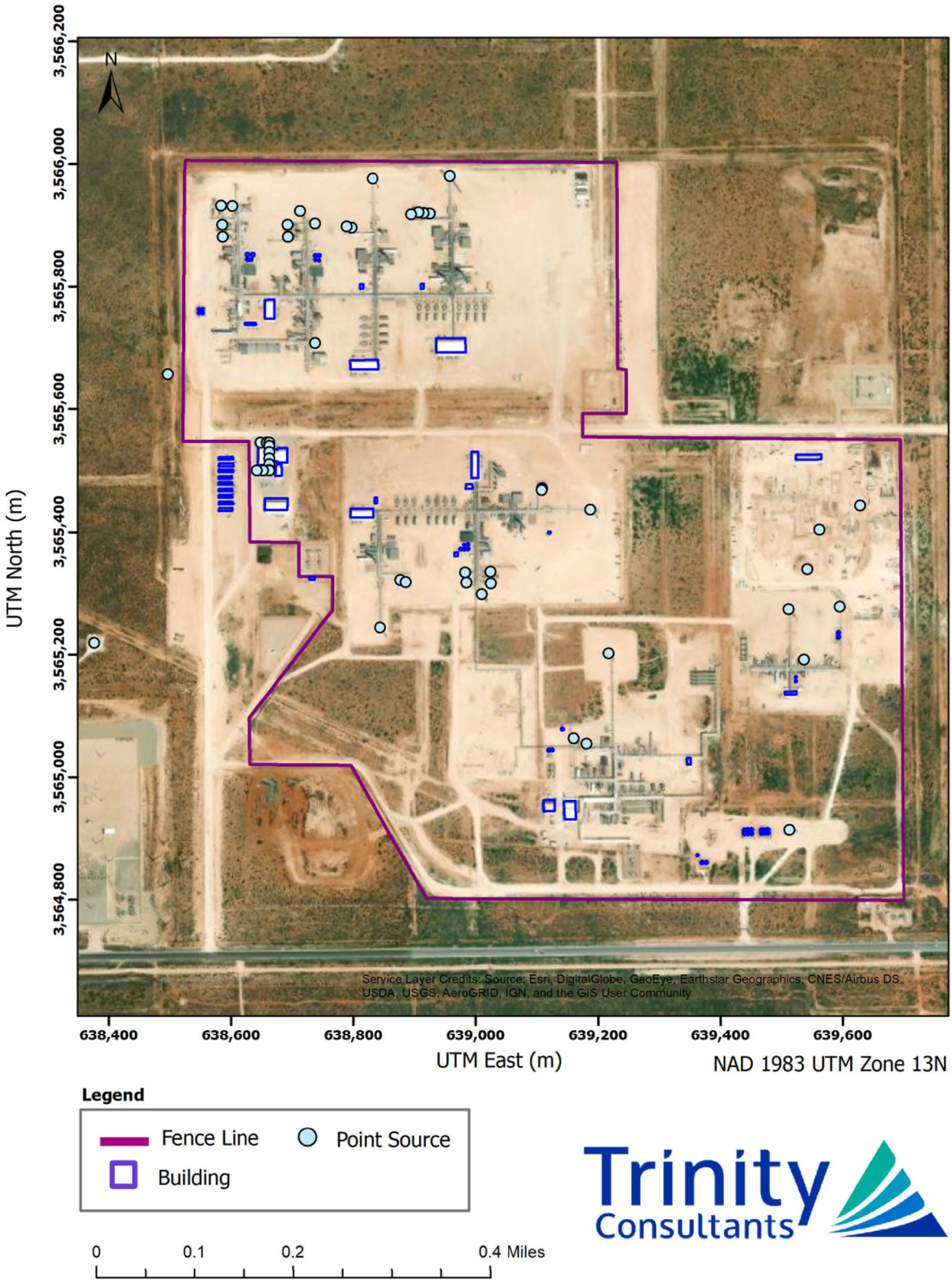
The output from the BPIPPRM downwash analysis lists the names and dimensions of the structures generating wake effects and the locations and heights of the affected point sources. In addition, the output contains a summary of the dominant structure for each emission unit (considering all wind directions) and the actual building height and projected widths for all wind directions. This information was input into the AERMOD air dispersion model for each point source.

A simplified plot plan of the facility showing the locations of analyzed structures and point sources is provided in Figure 4-5. Structures with greater than 50% permeability were excluded from the downwash analysis.

[23] Guideline for Determination of Good Engineering Practice Stack Height (Technical Support Document for the Stack Height Regulations). EPA-450/4-80-023R.

[24] Guideline for Determination of Good Engineering Practice Stack Height (Technical Support Document for the Stack Height Regulations). EPA-450/4-80-023R.

**Figure 4-5. Plot Plan: Buildings and Structures**



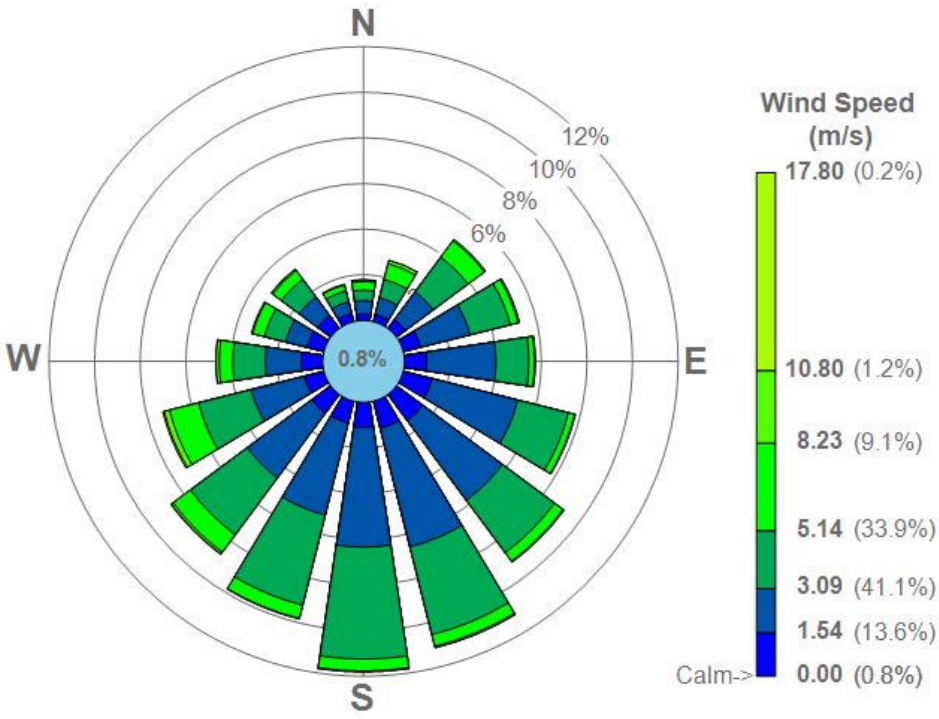
## 4.7 Meteorological Data

Hourly meteorological data used for air quality modeling must be spatially and climatologically representative of the area of interest. The EPA Modeling Guideline requires at least one year of site-specific meteorological data or five years from the most recent, readily available data collected at a representative National Weather Service (NWS) station.[25]

Site-specific meteorological data is not available for the immediate Red Hills area. The NMED provides processed meteorological data suitable for direct input to AERMOD.[26] Five years of AERMOD-ready meteorological data collected at Hobbs, New Mexico for the period 2017 through 2021 was used for this application. A composite 5-year wind rose is shown in Figure 4-6.

When updates to the EPA Modeling Guideline were promulgated in 2017, EPA adopted the use of ADJ_U* as a regulatory option when using NWS airport meteorological data, site-specific meteorological data without turbulence parameters, or prognostic meteorological data. Utilizing ADJ_U* in data processing for meteorological data without turbulence parameters is recommended to address model overprediction issues during light wind, stable conditions. The NMED invoked the ADJ_U* option in the AERMET[27] processing of the Hobbs meteorological dataset. The surface station elevation is 1,108.2 m.

**Figure 4-6. Hobbs, New Mexico Wind Rose (2017-2021)**




[25] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Section 4.3.1.

[26] Meteorological data available for download from Resource Space (resourcespaceapp.azurewebsites.net).

[27] The NMED processed the meteorological with AERMET Version 19191. Use of the current version of AERMET (Version 23132) is not expected to produce appreciably different dispersion meteorological conditions for this application.

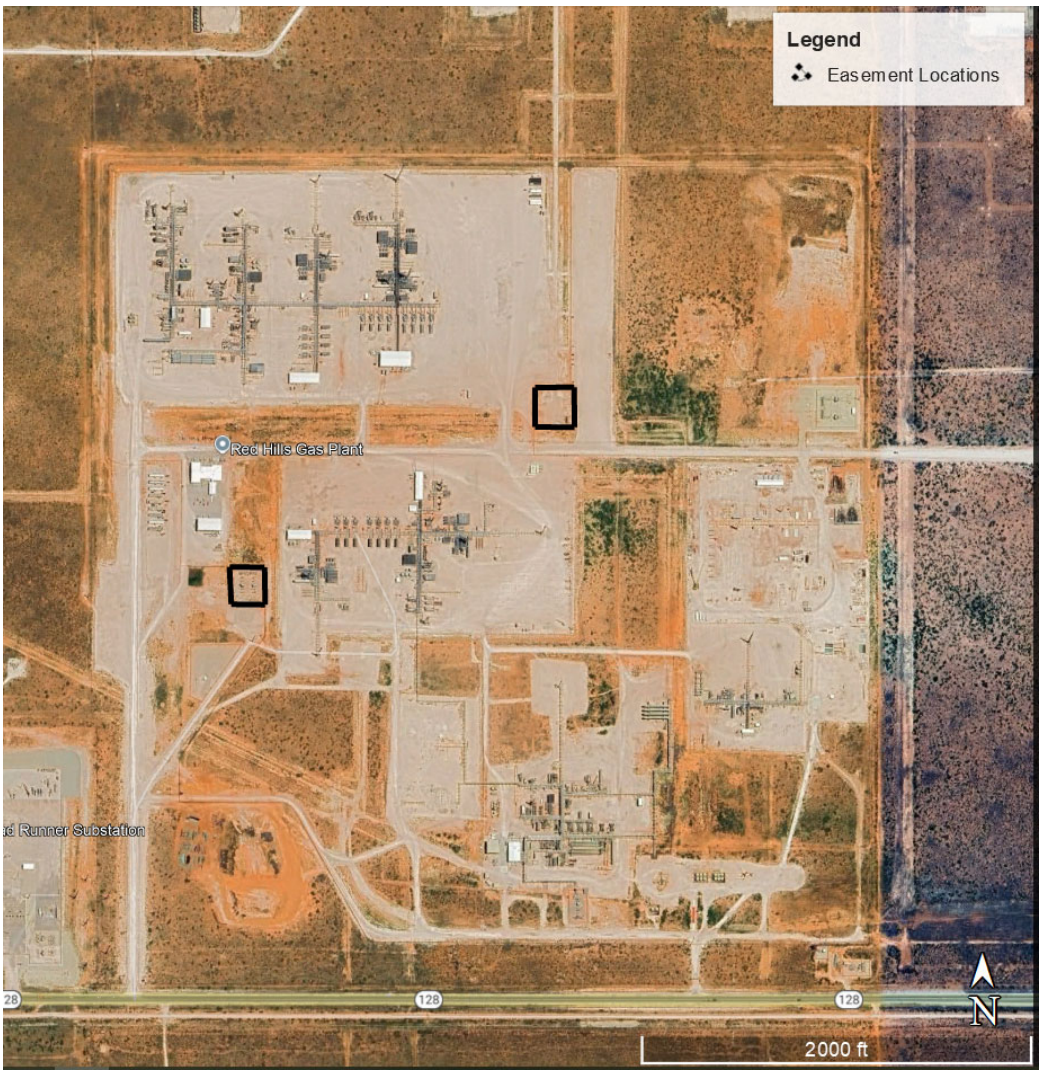
## 4.8 Ambient Air Boundary

According to the NMED modeling guidelines, "ambient air" is defined as that portion of the atmosphere, external to buildings, to which the general public has access. The atmosphere over land owned or controlled by a facility may be excluded from ambient air where the facility employs measures, such as physical barriers, that are effective in precluding access to the land by the general public. [28]

Within the facility boundaries of Red Hills, there are two separate areas to which other companies have unrestricted access. For this reason, onsite receptors are included within these two areas as denoted in Figure 4-7. Figure 2-1 shows the land owned and controlled by Targa that constitutes the ambient air boundary used in the AQIA.

**Figure 4-7. Red Hills Gas Processing Plant Easement Locations**

Google Earth, image produced 04/08/2025




[28] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Section 4.6.2.

## 4.9 Receptor Network and Terrain Elevations

Cartesian receptor grids centered on the facility were defined using UTM Zone 13 NAD83 coordinates. For purposes of air dispersion modeling, the NAD83 spatial reference system is equivalent to WGS84.[29]

Several receptor grids of varying resolution were defined for the Class II significant impact analysis following recommendations in NMED's modeling guidance. The Class II significant impact analysis grids consisted of a set of nested receptors placed at:

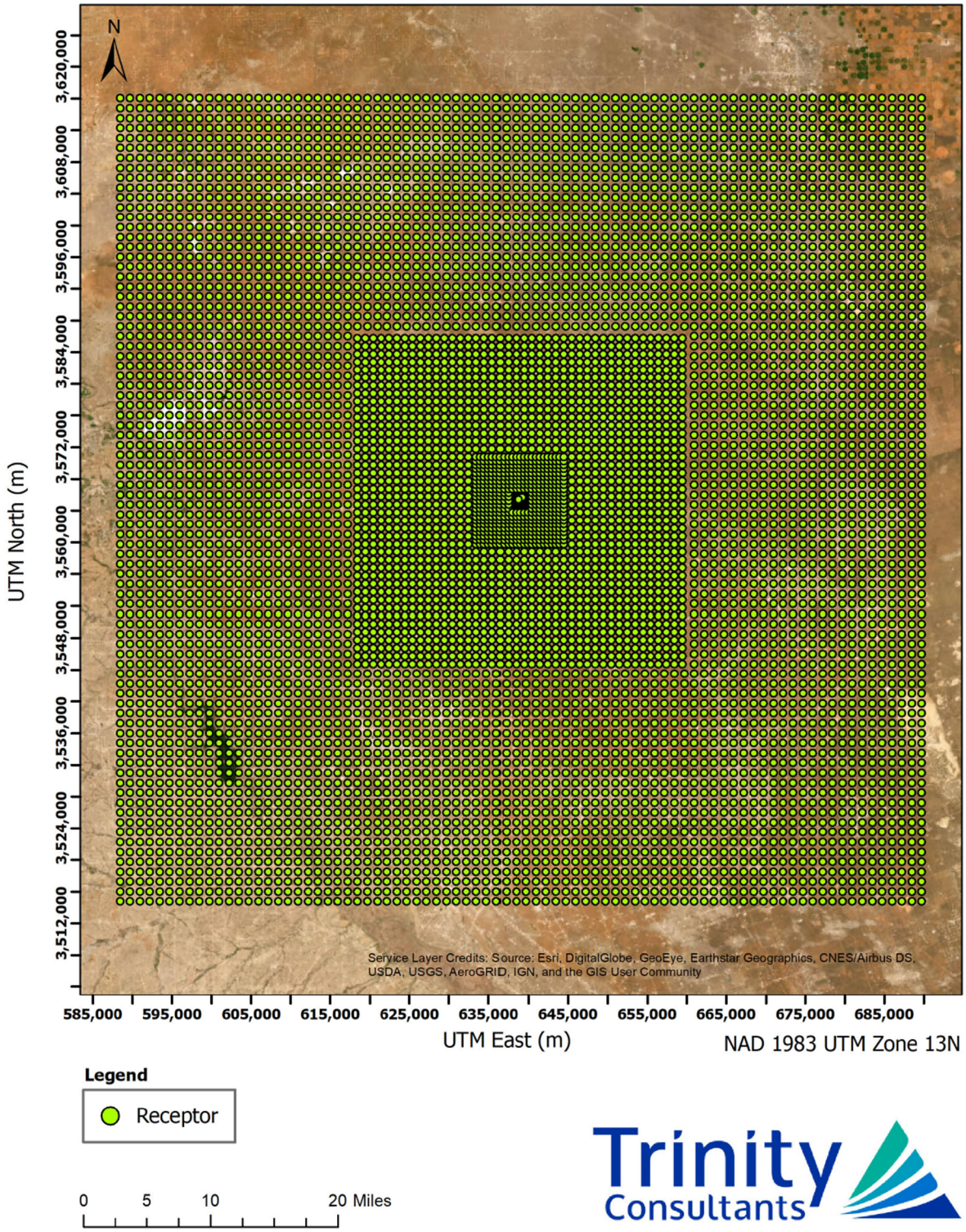
- 25-m resolution at the two onsite easements.
- 25-m resolution along the ambient air boundary.
- 100-m resolution extending to approximately 500 m from the ambient air boundary.
- 500-m resolution starting at 500 m and extending to approximately 5 km from the ambient air boundary.
- 1,000-m resolution starting at 5 km and extending to approximately 20 km from the ambient air boundary.
- 1,250-m resolution starting at 20 km and extending to approximately 50 km from the ambient air boundary.

For pollutants and averaging periods where modeled concentrations are greater than the applicable SIL and thus triggering cumulative impact analyses (see Section 5.2), only the receptors with modeled impacts greater than or equal to the SIL were modeled for the significant pollutant and averaging period.

If maximum cumulative impacts greater than or equal to 75 percent of the applicable standard are predicted at receptors located in the 100-m, 500-m or 1,000-m grids, supplemental receptors were generated at 50-m spacing to identify the overall maximum impact. The refined grids were large enough to include adjacent receptors in all directions (200 m square in the 100-m interval portion of the grid, 1,000 m square in the 500-meter interval portion of the grid, and 2,000 m square in the 1,000-meter interval portion of the grid). The receptor grid is shown in Figure 4-8 below.

[29] AERMAP User's Guide (EPA-454/B-18-004), Section 2.1.

**Figure 4-8. Receptor Grid**



Receptor elevations were obtained using the EPA's AERMAP terrain processor. The digital elevation dataset provided as input to AERMAP was USGS National Elevation Data (NED) at 1/3 arc second resolution, which is equivalent to approximately 10 m.

In addition to receptor elevations, AERMAP provided the hill height scale required for each receptor. The hill height scale supplies the computational algorithms with an indication of the relative relief within the modeling domain for the determination of the critical dividing streamline height for each hour of meteorological data. AERMOD computes the impact at a receptor as a weighted interpolation between horizontal and terrain-following conditions using a critical dividing streamline approach. This scheme assumes that part of the plume mass would have enough energy to ascend and traverse over a terrain feature and the remainder would impinge and traverse around a terrain feature under certain meteorological conditions. The hill height scale is computed by the AERMAP terrain preprocessor for each receptor as a measure of the one terrain feature in the modeling domain that would have the greatest effect on plume behavior at that receptor.

## 4.10 Nearby Source Inventory

For pollutants and averaging periods that have impacts that exceed a SIL, cumulative modeling is required to demonstrate compliance with the NMAAQS, NAAQS, and PSD increments, as applicable. In accordance with NMED's Modeling Guidance,[30] modeled nearby sources are required for $H_2S$, $PM_{10}$, $PM_{2.5}$, and $SO_2$. For CO, $NO_2$, and $SO_2$ (other than the 1-hour averaging period for NMAAQS, NAAQS, and increment, as applicable), an applicant may choose to explicitly model nearby sources within certain distances of the facility or add monitored background concentrations to facility-only modeled impacts for NMAAQS and NAAQS compliance demonstrations. Red Hills does not meet the definition of being near a city, which NMED has stated as being within 20 km of Albuquerque, NM or El Paso, TX. For PSD increment analyses, while NMED provides the option to use monitored background concentrations, explicitly modeling nearby increment consumers and expanders may be preferred. Table 4-6 summarizes the averaging periods that were modeled, NMED's guidance on the use of nearby sources and background, if nearby sources or background or both were used for the facility's modeling, and the modeled concentration.

An inventory of all pollutants from surrounding sources was obtained from NMED. For pollutants that explicitly model nearby sources, the retention distance from the Red Hills Facility follows Section 4.8.1.1 of NMED's Modeling Guidelines. The NMED-provided inventory was used as applicable and any adjustments to source parameters is documented in in Section 4.10.1 through 4.10.8 below and made per the guidance in Section 4.8.1.3 of NMED'S Modeling Guidelines.[31] Nearby source UTM coordinates were preserved as provided by NMED unless errors were identified. If elevation data is provided, that data was used in the model once verified. Per NMED Modeling Guidelines,[32] nearby sources for which elevation data is not provided, elevations were calculated using AERMAP. Copies of source inventories are included for $PM_{10}$, $PM_{2.5}$, $H_2S$, and for $SO_2$ with the submitted and approved modeling protocol. A secondary copy is not included herein as a copy is included as part of the submitted application.

[30] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Table 20.

[31] NMED Air Dispersion Modeling Guidelines (Revised June 2024).

[32] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Section 4.5.2.

**Table 4-6. Nearby Sources and Background Determination**

| Averaging Period | NMED Guidance on Nearby Sources and Background | Nearby Sources or Background? | Modeled Concentration |
|---|---|---|---|
| CO 8-hour NMAAQs | Choose One (Both if near city) | Background | High 8 hour |
| CO 1-hour NMAAQs | Choose One (Both if near city) | Background | High 1 hour |
| $H_2S$ 1-hour or ½-hour NMAAQs | Model Nearby Sources | Nearby Sources | High 1 hour |
| $NO_2$ annual NMAAQs | Choose one (Both if near city) | Background | Annual average |
| $NO_2$ Annual PSD increment | Choose One | Background | Annual Average |
| $NO_2$ 1-hour NAAQs | Choose one (Both if near city) | Background | 98$^{th}$-percentile 1 hour |
| $PM_{2.5}$ annual NAAQs | Both | Nearby Sources and Background | Annual average |
| $PM_{2.5}$ annual PSD increment | Choose one | Nearby Sources | Annual average |
| $PM_{2.5}$ 24-hour NAAQS | Both | Nearby Sources and Background | 98$^{th}$-percentile 24 hour |
| $PM_{2.5}$ 24-hour PSD increment | Choose one | Nearby Sources | High second high 24 hour |
| $PM_{10}$ annual PSD increment | Choose one | Nearby Sources | Annual average |
| $PM_{10}$ 24-hour NAAQs | Both | Nearby Sources and Background | High second high 24 hour |
| $PM_{10}$ 24-hour PSD increment | Choose one | Nearby Sources | High second high 24 hour |
| $SO_2$ annual PSD increment | Choose one | Nearby Sources | Annual average |
| $SO_2$ 24-hour PSD increment | Choose one | Nearby Sources | High second high 24 hour |
| $SO_2$ 3-hour PSD increment | Choose one | Nearby Sources | High second high 3 hour |
| $SO_2$ 1-hour NAAQs | Choose one (Both if near city. Model nearby sources without adding background in Permian Basin) | Nearby Sources* | 99$^{th}$ -percentile 1 hour |

*Per comments received from Sufi Mustafa, Manager Air Dispersion Modeling and Emission Inventory Section on January 6, 2026 regarding the modeling protocol, Background concentrations for 1-hour SO2 was included in addition to surrounding sources. The background concentration (2024 design value) from Del Norte High School (AQS ID: 35-001-0023) was used.

Surrounding sources were obtained from the NMED MergeMaster Database on January 27, 2024. The below sections detail adjustment to surrounding source parameters that have been identified.

### 4.10.1 Adjusted Sources based on Distance

Upon reviewing the surrounding source files, several sources were identified as being located more than 25 km from the facility, which exceeds the inclusion limit for surrounding sources. Table 4-7 below lists these sources, the pollutants they were associated with, and the proposed corrections to the surrounding source file.

**Table 4-7. Surrounding Source Corrections**

| AQB Source ID | Description of Corrections |
|---|---|
| 29590E20 | NO2: Point source is in the wrong location (~93 km from facility). Source was removed. |
| 29590E21 | NO2: Point source is in the wrong location (~93 km from facility). Source was removed. |
| 1775@1 | NO2, PM2.5, PM10, SO2: Point source is in the wrong location (~69 km from facility). Source was removed. |
| 30051E7 | NO2, PM2.5, PM10, SO2: Point source is in the wrong location (~43 km from facility). Source was removed. |
| 30051E8 | NO2, PM2.5, PM10, SO2: Point source is in the wrong location (~43 km from facility). Source was removed. |
| 38058E18 | NO2, PM2.5, PM10, SO2: Point source is in the wrong location (~77 km from facility). Source was removed. |
| 38058E19 | NO2, PM2.5, PM10, SO2: Point source is in the wrong location (~77 km from facility). Source was removed. |

### 4.10.2 Surrounding Source AI # 40063

Surrounding source AI # 40063, with AQB source ID #40063@1, is the Roswell Ready Mix Company's Concrete Batch Plant which operates under GCP-5 #9285. $PM_{10}$ and $PM_{2.5}$ emission rates were based off 95 tpy (21.69 lb/hr) total suspended particulate (TSP) from the GCP-5 permit for Concrete Batch plants. No emission calculations were submitted with the last permitting action. Since TSP is larger than both $PM_{10}$ and $PM_{2.5}$, the 21.69 lb/hr emission rates were ratioed based on particle size multiplier constants taken from AP-42 Chapter 13.2.4 for Aggregate Handling and Storage Piles. The new values are: 10.26 lb/hr $PM_{10}$ and 1.55 lb/hr $PM_{2.5}$. Calculations are included in Appendix D for reference. The GCP-5 permit has been included for reference in Appendix E and the most recent publicly available permit application for GCP-5 #9285 is included for reference in Appendix F. AP-42 Chapter 13.2.4 is included for reference in Appendix G. Additionally, the facility's public notice notes that the facility operates during daylight hours only; therefore, the facility's emissions have been limited to 6am to 8pm. The facility public notice is included for reference in10.4Appendix H.

### 4.10.3 Surrounding Source AI # 38504

Surrounding source AI #38504, with AQB source IDs 38504A1, 38504E3, 38504E5, 38504E6, 38504E7, 38504E36, and 38504E27, is Matador Production Company's Leo Thorsness Facility which operates under GCP-O&G #7899. Annual haul road emissions were adjusted based on the permitted tpy for $PM_{2.5}$. The tpy value was averaged over the course of the year to determine a long-term annualized emission rate in a lb/hr unit basis. Additionally, numerous unit emission rates for $PM_{2.5}$ were adjusted based on their actual operating hours per day and per year as provided in the surrounding source file, as retrieved from NMED's MergeMaster tool. Table 4-8 below summarizes the adjustments made. Permit GCP-O&G #7899 is included for reference in 10.4Appendix I and calculations are included in Appendix D.

**Table 4-8. AI # 38504 Adjusted Emission Rates**

| AQB Source ID | Unit ID | As Provided $PM_{2.5}$ Emission Rate | Daily Operating Hours | Annual Operating Hours | $PM_{2.5}$ Short-Term Emission Rate | $PM_{2.5}$ Long-Term Emission Rate |
|---|---|---|---|---|---|---|
| | | g/s | Hrs/day | Hrs/year | g/s | g/s |
| 38504A1[1] | HR-1 | 0.01386 | -- | 8760 | 0.01386 | 0.0023 |
| 38504E3 | ENG-5 | 0.00126 | -- | 8760 | 0.00126 | 0.00126 |
| 38504E5 | GEN-1 | 0.00504 | 3 | 1067 | 0.00063 | 0.000614 |
| 38504E6 | HT-1 | 0.00058 | -- | 8760 | 0.00058 | 0.00058 |
| 38504E7 | HT-2 | 0.00058 | 17 | 6192 | 0.00041 | 0.00041 |
| 38504E26[2] | ENG-2 | 0.00252 | 0 | 0 | 0.00252 | 0.00252 |
| 38504E27 | ENG-6 | 0.00252 | 11 | 3888 | 0.0012 | 0.0012 |

[1] Haul road emissions for unit HR-1 were adjusted for annualized rates based on the permitted tpy rate of 0.08 tpy for $PM_{2.5}$.

[2] Unit ENG-2 was conservatively assumed to operate 8760 hrs/yr instead of utilizing the provided hrs/yr in the surrounding source file.

### 4.10.4 Surrounding Source AI # 40140

Surrounding source AI #40140, with AQB source ID 40140A1, is Devon's Broadside 12 Facility 2, which operates under NOI #9357. The MergeMaster Source Retrieval tool provides only short-term emission rates. Annual haul road emissions were adjusted based on the tpy for $PM_{2.5}$ provided in the most recent NOI application. The tpy value was averaged over the course of the year to determine a long-term annualized

emission rate in a lb/hr unit basis. Table 4-9 below summarizes the adjustments made. NOI #9357 is included for reference in Appendix J. Calculations are included in Appendix D.

**Table 4-9. AI # 40140 Adjusted Emission Rates**

| AQB Source ID | Unit ID | As Provided $PM_{2.5}$ Emission Rate | Daily Operating Hours | Annual Operating Hours | $PM_{2.5}$ Short-Term Emission Rate | $PM_{2.5}$ Long-Term Emission Rate |
|---|---|---|---|---|---|---|
| | | g/s | Hrs/day | Hrs/year | g/s | g/s |
| 40140A1[1] | ROAD-1 | 0.02772 | -- | 8760 | 0.02772 | 0.0011 |

[1] Haul road emissions for unit HR-1 were adjusted for annualized rates based on the NOI represented tpy rate of 0.038 tpy for $PM_{2.5}$.

### 4.10.5 Surrounding Source AI # 39913

Surrounding source AI #39913, with AQB source IDs 39913A1, 39913E2, and 39913E4, is Devon's Broadside 12 Facility 1, which operates under NOI #9134. The MergeMaster Source Retrieval tool provides only short-term emission rates. Annual haul road emissions were adjusted based on the tpy for $PM_{2.5}$ provided in the most recent NOI application. The tpy value was averaged over the course of the year to determine a long-term annualized emission rate in a lb/hr unit basis. Table 4-10 summarizes the adjustments made. NOI #9134 is included for reference in 10.4Appendix K K. Calculations are included in Appendix D.

**Table 4-10. AI # 39913 Adjusted Emission Rates**

| AQB Source ID | Unit ID | As Provided $PM_{2.5}$ Emission Rate | Daily Operating Hours | Annual Operating Hours | $PM_{2.5}$ Short-Term Emission Rate | $PM_{2.5}$ Long-Term Emission Rate |
|---|---|---|---|---|---|---|
| | | g/s | Hrs/day | Hrs/year | g/s | g/s |
| 39913A1[1] | ROAD-1 | 0.02772 | -- | 8760 | 0.02772 | 0.0011 |

1 Haul road emissions for unit HR-1 were adjusted for annualized rates based on the NOI represented tpy rate of 0.038 tpy for $PM_{2.5}$.

### 4.10.6 Surrounding Source AI # 39575

Surrounding source AI #39575, with AQB source IDs 39575R2 and 39575R3 is EOG Resources Inc. Midland Division's Bandit Compressor Station, which operates under GCP-O&G #8851M1. The MergeMaster Source Retrieval tool provides $H_2S$ emission rates for both unit IDs. Upon review of the most recent publicly available permit application, which is included in Appendix M for reference, it was found that the $H_2S$ emissions were associated with vented SSM and malfunction emissions (permit IDs SSM and MALF). Per Condition A107.C, the GCP-O&G, which is included in Appendix L for reference, only VOC emissions are authorized for SSM and malfunction events. Therefore, the $H_2S$ sources from this facility were removed from the surrounding source file.

### 4.10.7 Surrounding Source AI # 39956

Surrounding source AI #39956, with AQB source IDs 39956R2 and 39956R3 is EOG Resources Inc – Midland Division's Bald Eagle LGL Station, which operates under GCP-O&G #9177. The MergeMaster Source Retrieval tool provides $H_2S$ emission rates for both unit IDs. Upon review of the most recent publicly available permit application, which is included in Appendix N for reference, it was found that the $H_2S$ emissions were associated

with vented SSM and malfunction emissions (permit IDs SSM and MALF). Per Condition A107.C, the GCP-O&G, which is included in Appendix L for reference, only VOC emissions are authorized for SSM and malfunction events. Therefore, the $H_2S$ sources from this facility were removed from the surrounding source file.

### 4.10.8 Surrounding Source AI # 39664

Surrounding source AI 39664, with AQB source IDs 39664R2 and 39664R3 is EOG Resources Inc – Midland Division's Boa Localized Gas Lift Station, which operates under GCP-O&G #8932. The MergeMaster Source Retrieval tool provides $H_2S$ emission rates for both unit IDs. Upon review of the most recent publicly available permit application, which is included in Appendix O for reference, it was found that the $H_2S$ emissions were associated with vented SSM and malfunction emissions (permit IDs SSM and MALF). Per Condition A107.C, the GCP-O&G, which is included in 10.4Appendix L for reference, only VOC emissions are authorized for SSM and malfunction events. Therefore, the $H_2S$ sources from this facility were removed from the surrounding source file.

## 4.11 Background Concentrations

The portion of the background air quality that accounts for Other Sources as defined in Modeling Guideline, Section 8.3.1.(ii) [i.e., emission sources other than those that would be explicitly modeled under Section 8.3.1.(i) of the Modeling Guideline], must be characterized by ambient monitoring data. Other Sources are defined as the portion of the background attributable to natural sources, other unidentified sources in the vicinity of the Red Hills, and regional transport contributions from more distant sources (domestic and international). Table 4-10 provides the design values that were used in the cumulative NMAAQS and NAAQS analyses for those pollutants and averaging periods that exceed the respective SIL.

**Table 4-11. Background Air Quality Concentrations**

| Station/ AQS ID | Pollutant [a] | Averaging Period | Monitored Design Value ($\mu g/m^{3u}$) | NMAAQS/ NAAQS [b] ($\mu g/m^3$) |
|---|---|---|---|---|
| 5ZS Hobbs Jefferson/ 35-025-0008 | $NO_2$ | 1-Hour [c] | 58.3 | 188.03 |
| | | Annual [d] | 9.4 | 94.02 |
| El Paso Chamizal/ 48-141-0044 | CO | 1-Hour [e] | 4,577 | 14,997.5 |
| | | 8-Hour [e] | 3,433 | 9,960.1 |
| 5ZS Hobbs Jefferson/ 35-025-0008 | Ozone | 8-Hour [f] | 0.071 ppm | 0.070 ppm |
| Douglas Red Cross/ 04-003-1005 | $PM_{10}$ | 24-Hour [e] | 124 | 150 |
| 5ZS Hobbs Jefferson/ 35-025-0008 | $PM_{2.5}$ | 24-Hour [g] | 20 | 35 |
| | | Annual [h] | 6.6 | 9 |
| Albuquerque/35-001-0023 | $SO_2$ | 1-Hour [i] | 5.2 | 196.4 |

a. Per NMED Air Dispersion Modeling Guidelines (Revised June 2024), Section 2.6.8.2, Red Hills and surrounding sources were explicitly modeled and background $SO_2$ concentrations will not be added to the modeled impacts. Therefore, background $SO_2$ concentrations are not shown in this table. Both explicitly modeled nearby sources and background concentrations were used in the $PM_{2.5}$ and $PM_{10}$ NMAAQS/NAAQS analyses. $NO_2$ and CO concentrations are provided for reference and cumulative NMAAQS/NAAQS analyses for these pollutants may only use explicitly modeled nearby sources.
b. The more stringent of the NMAAQS and NAAQS is shown in this table.
c. 98th percentile of 1-hour daily maximum concentrations, averaged over the 3-year period 2021-2023. Compliance with the 1-hour $NO_2$ NAAQS demonstrates compliance with the 24-hour NMAAQS.[33]
d. Maximum annual mean during the 3-year period 2021-2023.
e. 2nd highest concentration during the 3-year period 2021-2023.
f. 4th highest daily maximum 8-hour concentration, averaged over the 3-year period 2021-2023.
g. 98th percentile of the 24-hour average concentrations, averaged over the 3-year period 2021-2023.
h. Weighted annual mean concentration, averaged over the 3-year period 2021-2023.
i. In discussion with NMED, the background data from the Albuquerque monitor will be used in the $SO_2$ NAAQS modeling in addition to modeling surrounding sources.

## 4.12 Estimating $NO_2$ Impacts

Some forms of emitted $NO_X$ [i.e., nitrogen oxide (NO)] react with other atmospheric constituents (ozone) to form $NO_2$. These reactions are complex and depend on factors such as mixing of ambient air into the plume, individual reaction rates, and the concentration of specific reactants in the atmosphere. Regulatory dispersion models such as AERMOD are designed to model impacts of non-reactive pollutants, but there are various supplemental modeling techniques that can be used to estimate ambient $NO_2$ impacts.

The Modeling Guideline presents a three-tiered approach that may be applied to modeling $NO_2$ impacts. The three tiers are:

- Tier 1: Assume full conversion of NO to $NO_2$ (i.e., assume that all $NO_X$ is emitted as $NO_2$).

[33] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Section 2.6.4.1.

- Tier 2: Multiply the Tier 1 result by the Ambient Ratio Method 2 (ARM2), which provides estimates of representative equilibrium ratios of $NO_2/NO_X$ value based ambient levels of $NO_2$ and $NO_X$ derived from national data from the EPA's AQS.
- Tier 3: The ozone limiting method (OLM) or plume volume molar ratio method (PVMRM) as a detailed screening technique.

Trinity used Tier 2 screening techniques in this analysis.

## 4.13 Secondary Pollutant Formation

Ozone and $PM_{2.5}$ are regulated pollutants under the Federal PSD program. Because the Red Hills site is a PSD source of the ozone precursors $NO_X$ and VOC and a source of direct $PM_{2.5}$ emissions and the $PM_{2.5}$ precursors $NO_X$ and $SO_2$, an air quality impact analysis is required for ozone and $PM_{2.5}$.

Secondary ozone and $PM_{2.5}$ formation resulting from facility emissions of $NO_X$ and VOC, and $NO_X$ and $SO_2$, respectively, were evaluated using the methodology provided in EPA's Modeled Emission Rates for Precursors (MERPs) guidance[34] and guidance for ozone and fine particulate matter permit modeling.[35] Secondary formation of ozone and $PM_{2.5}$ from the Red Hills can be estimated using the following equation from the MERPs Guidance, Equation 2:

$$Facility\ Impact\ \left(\frac{\mu g}{m^3}\right) = Facility\ Emission\ Rate\ (tpy) \times \frac{Hypothetical\ Source\ Modeled\ Impact\ \left(\frac{\mu g}{m^3}\right)}{Hypothetical\ Source\ Emission\ Rate\ (tpy)}$$

Thise equation was used to calculate secondary impacts resulting from each precursor and then summed for the total secondary contribution to ozone and $PM_{2.5}$ impacts. The modeled impacts from hypothetical sources can be obtained from the EPA MERPs View Qlik website.[36] The MERPs View Qlik website provides illustrative hypothetical single source modeled impacts for annual maximum daily 8-hour ozone, and daily maximum and annual average $PM_{2.5}$ for source locations across the United States based on various levels of precursor emissions (VOC, $NO_X$, and $SO_2$, as applicable) and stack heights.

Trinity reviewed the available hypothetical sources in the View Qlik database and found that the nearest hypothetical source in New Mexico is in Otero County. MERP values are available for 500, 1,000, and 3,000 tons per year (tpy) of precursor emissions and 10 meter (m) and 90 m stack heights. Based on the preliminary Red Hills potential to emit, and range of stack heights, the modeled impacts associated with 500 tpy of precursor emissions from a 10 m stack were used for this analysis. Table 4-12 provides the output from the MERPs View Qlik database for Otero County.

[34] Guidance on the Development of Modeled Emission Rates for Precursors (MERPs) as a Tier 1 Demonstration Tool for Ozone and $PM_{2.5}$ under the PSD Permitting Program. Memorandum from Richard A. Weyland (Air Quality Assessment Division). April 30, 2019.

[35] EPA memorandum from C. Wayland and S. Mathias to EPA regional air division directors. July 29, 2022.

[36] https://www.epa.gov/scram/merps-view-qlik.

**Table 4-12. Closest Hypothetical MERP Source**

| Metric | Precursor | Emissions (tpy) | Stack Height (m) | Maximum Modeled Concentration (mg/m3) |
|---|---|---|---|---|
| 24-Hour $PM_{2.5}$ | $NO_X$ | 500 | 10 | 0.006181 |
| 24-Hour $PM_{2.5}$ | $SO_2$ | 500 | 10 | 0.036081 |
| Annual $PM_{2.5}$ | $NO_X$ | 500 | 10 | 0.000284 |
| Annual $PM_{2.5}$ | $SO_2$ | 500 | 10 | 0.001754 |
| 8-Hour Ozone | $NO_X$ | 500 | 10 | 1.209116 |
| 8-Hour Ozone | VOC | 500 | 10 | 0.006089 |

The 2019 MERPs guidance states that the representativeness of a hypothetical source should be based on the chemical and physical environment, for example, meteorology, background pollutant concentrations, and regional/local emissions and the following criteria:

- Proximity
- Terrain and Land Use
- Climate
- Regional Sources of Pollutants
- Background Pollutant Concentrations

The contributions of secondarily formed ozone and $PM_{2.5}$ are calculated using the equations provided by the NMED modeling guidelines and are presented below. The secondary formation due to each precursor (i.e., $NO_X$ and VOC for ozone, and $NO_X$ and $SO_2$ for $PM_{2.5}$) are summed in the calculations below.

8-hour ozone:

$$[O_3]_{8-hour} = \frac{NOx\ emission\ rate\ (\frac{ton}{yr})}{MERP_{NOx}} + \frac{VOC\ emission\ rate\ (\frac{ton}{yr})}{MERP_{VOC}} x\ 1.96\ \mu g/m^3$$

$$[O_3]_{8-hour} = \frac{188.76\ (\frac{ton}{yr})}{340} + \frac{909.63\ (\frac{ton}{yr})}{9578} x\ 1.96\ \mu g/m^3 = 1.27\ \mu g/m^3$$

As shown, predicted ozone formation from the project emissions are less than the SIL value of 1 ppb (1.96 µg/m$^3$) and as such, no further ozone analysis was conducted for this project.

24-hour $PM_{2.5}$:

$$[PM_{2.5}]_{24-hour} = \frac{NOx\ emission\ rate\ (\frac{ton}{yr})}{MERP_{NOx-24\ hour}} + \frac{SO_2\ emission\ rate\ (\frac{ton}{yr})}{MERP_{SO_{2-24\ hour}}} x\ 1.2\ \mu g/m^3$$

$$[PM_{2.5}]_{24-hour} = \frac{188.76\ (\frac{ton}{yr})}{7331} + \frac{436.30\ (\frac{ton}{yr})}{1981} x\ 1.2\ \mu g/m^3 = 0.295\ \mu g/m^3$$

Annual $PM_{2.5}$:

$$[PM_{2.5}]_{annual} = \frac{NOx\ emission\ rate\ (\frac{ton}{yr})}{MERP_{NOx-annual}} + \frac{SO_2\ emission\ rate\ (\frac{ton}{yr})}{MERP_{SO_{2}-annual}}\ x\ 0.2\ \mu g/m^3$$

$$[PM_{2.5}]_{annual} = \frac{188.76\ (\frac{ton}{yr})}{26780} + \frac{436.30\ (\frac{ton}{yr})}{14978}\ x\ 0.2\ \mu g/m^3 = 0.00724\ \mu g/m^3$$

The predicted concentrations of secondarily formed $PM_{2.5}$ were added to the AERMOD modeled impacts presented in Section 6 if this modeling report.

# 5. CLASS II MODELING ANALYSIS

## 5.1 Significant Impact Analysis

Significant impact analyses were conducted to determine whether ambient air quality impacts on a pollutant-by-pollutant basis exceed the applicable Significant Impact Level (SIL) and require additional analysis. The significant impact analysis included all facility emission units using the source characterizations discussed in Section 3, modeling methods in Section 4, the Cartesian receptor grids described in Section 4.9, and proposed emission rates presented in the corresponding permit application. The modeled significance impacts are compared to the Class II SILs listed in Table 5-1.

**Table 5-1. Class II Significant Impact Levels for Air Quality Standards and PSD Increment**

| Pollutant | Averaging Period | SIL [a] ($\mu g/m^3$) |
|---|---|---|
| CO | 8-hour | 500 |
| | 1-hour | 2,000 |
| $NO_2$ [b] | Annual | 1.0 |
| | 24-hour | 5.0 |
| | 1-hour | 7.52 |
| Ozone [c] | 8-hour | 1.96 |
| $PM_{2.5}$ [d] | Annual | 0.13 |
| | 24-hour | 1.2 |
| $PM_{10}$ | Annual | 1.0 |
| | 24-hour | 5.0 |
| $SO_2$ | Annual | 1.0 |
| | 24-hour | 5.0 |
| | 3-hour | 25.0 |
| | 1-hour | 7.8 |

[a] All SIL analyses compared the highest-first-high (H1H) modeled concentration to the applicable SIL.[37]

[b] The NMAAQS 24-hr averaging period compliance is demonstrated with compliance with the 1-hr averaging period.

[c] See Section 4.13.

[d] The annual $PM_{2.5}$ SIL was updated by EPA on 4/30/2024.[38] $PM_{2.5}$ modeled impacts were the sum of direct secondarily formed $PM_{2.5}$ predicted by AERMOD for the 24-hour and annual averaging periods. Section 4.13 discusses the secondary $PM_{2.5}$ formation calculations.

[37] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Table 18

[38] Memo from R. Wayland (EPA Director of the Air Quality Assessment Division) to EPA Regional Air Division Directors titled: *Supplement to the Guidance on Significant Impact Levels for Ozone and Fine Particles in the Prevention of Significant Deterioration Permitting Program*. April 30, 2024.

## 5.2 Cumulative Impact Analysis

### 5.2.1 New Mexico and National Ambient Air Quality Standard Analysis

A cumulative impact analysis was performed for each pollutant and averaging period that exceeds the applicable SIL. Per modeling guidance, the cumulative impact modeling was performed only for those receptors where the significant impact level is exceeded on a pollutant and averaging period basis. Compliance with the NMAAQS and NAAQS was based on the total estimated air quality concentrations, which are the sum of the following:

- Red Hills emission sources;
- Modeled emissions from nearby sources described in Section 4.10; and
- Background pollutant concentrations described in Section 4.11.

### 5.2.2 PSD Increment Analysis

PSD increment is the maximum allowable increase in ambient concentrations allowed to occur above a baseline concentration for each applicable pollutant and averaging period. Red Hills is located in Air Quality Control Region (AQCR) 155. Per Table 22 of the NMED Modeling Guidelines, the minor source baseline dates are as follows:

- $NO_2$ – March 16, 1988
- $SO_2$ – July 28, 1978
- $PM_{10}$ – February 20, 1979
- $PM_{2.5}$ – November 13, 2013

For PSD increment analysis, only the emissions increases (and decreases) from the facility after the minor source baseline date are considered. Modeled emissions from nearby sources described in Section 4.10 are included in the PSD increment analysis. If ozone or PM2.5 is modeled, the applicable Class II PSD increments listed in Table 5 of the NMED Modeling Guidelines are used. The applicable Class II PSD increments are listed in Table 5-1.

Table 5-3. All sources at Red Hills are considered increment consumers as they were constructed after the minor source baseline dates previously stated for AQCR 155, except for SSM emission sources and generators that operate less than 500 hours per year. Table 5-2 below indicates which pollutant each source is an increment consumer of. The choice of option for each averaging period is outlined in Table 4-6. Surrounding source inventories are included with the modeling protocol. Refer to Section 16 of the application.

**Table 5-2. Red Hills Increment Consuming Sources**

| Model Unit ID | Permit Unit ID | NO2 | SO2 | PM10 | PM2.5 |
|---|---|---|---|---|---|
| 1EP1 | RH1-H-23-704 | X | X | X | X |
| 1.5EP1G | RH1-H-1101 | X | X | X | X |
| 4EP1G | RH4-H-41100 | X | X | X | X |
| 2EP1A | RH2-H-741 | X | X | X | X |
| 2EP1B | RH2-H-781 | X | X | X | X |
| 2EP1E | RH2-H-2301 | X | X | X | X |
| 2EP1H | RH2-H-0901 | X | X | X | X |
| 2AEP1D | RH2-H-1001 | X | X | X | X |
| 2.5EP1D | RHA-H-4901 | X | X | X | X |
| 3EP1A | RH3-H-741 | X | X | X | X |
| 3EP1B | RH3-H-781 | X | X | X | X |
| 3EP1E | RH3-H-6301 | X | X | X | X |
| 4EP1A | RH4-H-741 | X | X | X | X |
| 4EP1B | RH4-H-781 | X | X | X | X |
| 4EP1D | RH4-H-3901 | X | X | X | X |
| 4EP1E | RH4-H-5301 | X | X | X | X |
| 4EP1H | RH4-H-4001 | X | X | X | X |
| 5EP1A | RH5-H-50902 | X | X | X | X |
| 5EP1B | RH5-H-50001 | X | X | X | X |
| 5EP1C | RH5-H-50741 | X | X | X | X |
| 5EP1D | RH5-H-50781 | X | X | X | X |
| 6EP1C | RH6-H-60001 | X | X | X | X |
| 6EP1D | RH6-H-60741 | X | X | X | X |
| 6EP1A | RH6-H-60781 | X | X | X | X |
| 5.5EP1A | RA2-H-20001 | X | X | X | X |
| 1EP2 | RH1-FL-29-1003 | X | X | * | * |
| 2EP2A | RH2-FL-5100 | X | X | * | * |
| 2.5EP5 | RHA-FL-5100 | X | X | * | * |
| 3EP2A | RH3-FL-5100 | X | X | * | * |
| 4EP2A | RH4-FL-45100 | X | X | * | * |
| 5EP2 | RH5-FL-55100 | X | X | * | * |
| 5.5EP1B | RA2-FL-25100 | X | X | * | * |
| EP9 | RHA-FL-5850 | X | X | * | * |
| EP13 | RA2-FL-25850 | X | X | * | * |
| EP79 | RH1-FL-2850 | X | X | * | * |
| RH4FLTNK | RH4-FL-46200 | X | X | * | * |
| EP5 | RH2-TO-5500 | X | X | X | X |
| EP8 | RH4-TO-45500 | X | X | X | X |

| Model Unit ID | Permit Unit ID | NO2 | SO2 | PM10 | PM2.5 |
|---|---|---|---|---|---|
| EP10 | RH5-TO-55500 | X | X | X | X |
| HAUL-1 | RH-HAUL | * | * | X | X |

X indicates the source ID consumes increment for the indicated pollutant.

* indicates the source ID is not an emitter of the indicated pollutant.

## Table 5-3. Air Quality Standards and Class II PSD Increments

| Pollutant | Averaging Period | NAAQS (µg/m³) | NMAAQS (µg/m³)[a] | Class II PSD Increment (µg/m³) | Design Value / Notes |
|---|---|---|---|---|---|
| $H_2S$ | ½-hour | -- | 139.3 | -- | Model the 1-hr averaging time. Include entire facility and nearby sources. No background concentration is added. |
| $SO_2$ | 1-hour | 196.4 | -- | -- | 3-year average of the 99th-percentile of the annual distribution of daily maximum 1-hour concentrations (H4H). Compliance with 1-hr average demonstrates compliance with all other NAAQS and NMAAQS averaging periods. |
| | 3-hour | -- | -- | 512 | Increment: H2H average |
| | 24-hour | -- | 261.9 | 91 | Increment: H2H average |
| | Annual | 26 | 52.4 | 20 | Annual average, averaged over 3 years |
| $PM_{2.5}$ [b] | 24-hour | 35 | -- | 9 | 98th percentile of the combined concentrations from all sources (H8H) |
| | Annual | 9 | -- | 4 | Annual average |
| $PM_{10}$ | 24-hour | 150 | -- | 30 | H2H and single year of representative met data or H4H with multi-year analysis. |
| | Annual | -- | -- | 17 | Annual average |
| $NO_x$ | 1-hour | 188.03 *(100 ppb)* | 188.03 *(100 ppb)* | -- | 3-year average of the 98th-percentile of the annual distribution of daily maximum 1-hour concentrations (H8H) |
| | 24-hour | -- | 188.03 | -- | The 1-hour NO2 standard is considered a surrogate for the 24-hour NMAAQS. |
| | Annual | 99.66 | 94.02 | 25 | Model entire facility and add annual background concentration or model entire facility and nearby sources. |
| CO | 1-hour | 40,069.6 (35 ppm) | 14,997.5 | -- | NAAQS not to be exceeded more than once per year. NMAAQS not to be exceeded. Compliance with NMAAQS demonstrates compliance with NAAQS. |
| | 8-hour | 10,303.6 (9 ppm) | 9,960.1 | -- | |
| Ozone | 8-hour | 137.3 (70 ppb) | -- | -- | Demonstrate compliance using MERPs method. |

# 6. MODELING RESULTS AND ELECTRONIC FILES

The maximum (highest first high; H1H) modeled ground-level concentrations (GLC) were compared to the applicable SILs. The results are shown in Table 6-1 through Table 6-6. SIL results for all modeled scenarios are provided. The scenario producing the largest impact for each pollutant and averaging period is used for cumulative modeling.

**Table 6-1. CO SIL Results**

| Pollutant | Averaging Period | Scenario | Period | Form | GLC ($\mu g/m^3$) | SIL ($\mu g/m^3$) | Cumulative Modeling Required? |
|---|---|---|---|---|---|---|---|
| CO | 8-hr | 1 | 2017-2021 | H1H | 1085.28 | 500 | Yes |
| CO | 8-hr | 2 | 2017-2021 | H1H | 1068.41 | | Yes |
| CO | 8-hr | 3 | 2017-2021 | H1H | 1068.41 | | Yes |
| CO | 1-hr | 1 | 2017-2021 | H1H | 1357.17 | 2,000 | No |
| CO | 1-hr | 2 | 2017-2021 | H1H | 1330.73 | | No |
| CO | 1-hr | 3 | 2017-2021 | H1H | 1330.73 | | No |

Scenario 1 has the highest modeled impact for the CO 8-hour modeling demonstration. None of the scenarios are greater than the SIL for the CO 1-hour modeling demonstration.

**Table 6-2. $NO_2$ SIL Results**

| Pollutant | Averaging Period | Scenario | Period | Form | GLC ($\mu g/m^3$) | SIL ($\mu g/m^3$) | Cumulative Modeling Required? |
|---|---|---|---|---|---|---|---|
| $NO_2$ | Annual | 1 | 2017-2021 | H1H | 3.92 | 1 | Yes |
| $NO_2$ | Annual | 2 | 2017-2021 | H1H | 3.92 | | Yes |
| $NO_2$ | Annual | 3 | 2017-2021 | H1H | 3.92 | | Yes |
| $NO_2$ | 24-hr | 1 | 2017-2021 | H1H | 72.28 | 5 | Yes |
| $NO_2$ | 24-hr | 2 | 2017-2021 | H1H | 87.72 | | Yes |
| $NO_2$ | 24-hr | 3 | 2017-2021 | H1H | 87.72 | | Yes |
| $NO_2$ | 1-hr | 1 | 2017-2021 | H1H | 111.94 | 7.52 | Yes |
| $NO_2$ | 1-hr | 2 | 2017-2021 | H1H | 130.61 | | Yes |
| $NO_2$ | 1-hr | 3 | 2017-2021 | H1H | 130.61 | | Yes |

Scenario 2 has the highest modeled impact for the $NO_2$ annual modeling demonstration. Scenario 3 has the highest modeled impact for the $NO_2$ 24-hr modeling demonstration. Per NMED Modeling Guidance, passing $NO_2$ 1-hour NAAQS is an appropriate surrogate to demonstrate compliance for the $NO_2$ 24-hour NMAAQS.[39] Scenario 3 has the highest modeled impact for the $NO_2$ 1-hour modeling demonstration.

[39] NMED Air Dispersion Modeling Guidance Table 19.

**Table 6-3. $PM_{2.5}$ SIL Results**

| Pollutant | Averaging Period | Scenario | Period | Form | GLC (µg/m³) | SIL (µg/m³) | Cumulative Modeling Required? |
|---|---|---|---|---|---|---|---|
| $PM_{2.5}$ | Annual | All | 2017-2021 | H1H | 7.62 | 1.2 | Yes |
| $PM_{2.5}$ | 24-hr | All | 2017-2021 | H1H | 0.60 | 0.13 | Yes |

As the scenarios do not impact $PM_{2.5}$ emission rates, all scenarios had the same modeled concentration. Scenario 1 was used for the $PM_{2.5}$ 24-hr and annual modeling demonstrations.

**Table 6-4. $PM_{10}$ SIL Results**

| Pollutant | Averaging Period | Scenario | Period | Form | GLC (µg/m³) | SIL (µg/m³) | Cumulative Modeling Required? |
|---|---|---|---|---|---|---|---|
| $PM_{10}$ | Annual | All | 2017-2021 | H1H | 2.04 | 1 | Yes |
| $PM_{10}$ | 24-hr | All | 2017-2021 | H1H | 57.29 | 5 | Yes |

As the scenarios do not impact $PM_{10}$ emission rates, all scenarios had the same modeled concentration. Scenario 1 was used for the $PM_{10}$ 24-hr and annual modeling demonstrations.

**Table 6-5. $SO_2$ SIL Results**

| Pollutant | Averaging Period | Scenario | Period | Form | GLC (µg/m³) | SIL (µg/m³) | Cumulative Modeling Required? |
|---|---|---|---|---|---|---|---|
| $SO_2$ | Annual | 1 | 2017-2021 | H1H | 7.99 | 1 | Yes |
| $SO_2$ | Annual | 2 | 2017-2021 | H1H | 8.16 | | Yes |
| $SO_2$ | Annual | 3 | 2017-2021 | H1H | 8.16 | | Yes |
| $SO_2$ | 24-hr | 1 | 2017-2021 | H1H | 42.93 | 5 | Yes |
| $SO_2$ | 24-hr | 2 | 2017-2021 | H1H | 43.97 | | Yes |
| $SO_2$ | 24-hr | 3 | 2017-2021 | H1H | 43.96 | | Yes |
| $SO_2$ | 3-hr | 1 | 2017-2021 | H1H | 86.67 | 25 | Yes |
| $SO_2$ | 3-hr | 2 | 2017-2021 | H1H | 89.13 | | Yes |
| $SO_2$ | 3-hr | 3 | 2017-2021 | H1H | 89.13 | | Yes |
| $SO_2$ | 1-hr | 1 | 2017-2021 | H1H | 109.99 | 7.8 | Yes |
| $SO_2$ | 1-hr | 2 | 2017-2021 | H1H | 113.29 | | Yes |
| $SO_2$ | 1-hr | 3 | 2017-2021 | H1H | 113.29 | | Yes |

Scenario 2 has the highest modeled impact for the $SO_2$ annual modeling demonstration. Scenario 3 has the highest modeled impact for the $SO_2$ 24-hr modeling demonstration. Scenario 2 has the highest modeled impact for the $SO_2$ 3-hr modeling demonstration. Scenario 2 has the highest modeled impact for the $SO_2$ 1-hr modeling demonstration.

**Table 6-6. $H_2S$ SIL Results**

| Pollutant | Averaging Period | Scenario | Period | Form | GLC (µg/m³) | SIL (µg/m³) | Cumulative Modeling Required? |
|---|---|---|---|---|---|---|---|
| $H_2S$ | ½ hour | 1 | 2017-2021 | H1H | 130.83 | 5 | Yes |
| $H_2S$ | ½ hour | 2 | 2017-2021 | H1H | 130.83 | | Yes |
| $H_2S$ | ½ hour | 3 | 2017-2021 | H1H | 130.83 | | Yes |

Scenario 3 has the highest modeled impact for the $H_2S$ 1-hour modeling demonstration.

## 6.1 NAAQS/NMAAQS Modeling Results

The results for the NAAQS/NMAAQs results are presented in Table 6-7 and Table 6-8 below. Note that since SSM operations with particulate matter emissions cannot occur more than once per year, Targa did not include those sources in the model. As such, the 24-hour $PM_{10}$ analysis was conducted for the high-5$^{th}$-high (H5H) concentration rather than the H6H design value. Also note that as the impacts shown for the full modeling domain exceeded the 24-hour $PM_{10}$ standard, a source culpability analysis was conducted and demonstrated that Targa was not culpable at any of the exceedances.

**Table 6-7. NAAQS/NMAAQS Modeling Results for CO, $H_2S$, $NO_2$, $PM_{10}$, and $SO_2$**

| Pollutant | Averaging Period | Form[a] | Facility GLC (µg/m³) | Facility + Neighbors GLC (µg/m³) | Background | Full Impact (µg/m³) | NAAQs/ NMAAQS (µg/m³) | % of Standard[b] |
|---|---|---|---|---|---|---|---|---|
| CO | 8-hr | H2H | 1036.76 | - | 1265 | 2301.76 | 10,000 | 23.0% |
| $H_2S$ | 1-hr | H1H | - | 1267.12 | - | 1267.12 | 139.3 | *See footnote b* |
| $NO_2$ | Annual | H1H | 3.925 | - | 9.4 | 13.32 | 94.02 | 14.2% |
| $NO_2$ | 1-hr | H8H | 125.02 | - | 58.3 | 183.32 | 188.03 | 97.5% |
| $PM_{10}$ | 24-hr | H5H | - | 269.58 | 124 | 418.52 | 150 | *See footnote b* |
| $SO_2$ | 1-hr | H4H | - | 184.32 | 5.2 | 189.55 | 196 | 96.7% |

a. The $PM_{10}$ NAAQS form of the standard is H6H. However, Targa is removing SSM sources from the model as Targa does not expect SSM operations to occur more than once per year. Thus, Targa is removing one of the highs from the model and comparing the H5H to the NAAQS.
b. For models that exceed the standard, a culpability analysis was conducted to show that Targa is not culpable for any NAAQS exceedances.

**Table 6-8. NAAQS Modeling Results for $PM_{2.5}$**

| Averaging Period | Form | Facility + Neighbors GLC (µg/m³) | Background (µg/m³) | Secondary Formation (µg/m³) | Full Impact (µg/m³) | NAAQS (µg/m³) | % of Standard |
|---|---|---|---|---|---|---|---|
| 24-hr | H8H | 12.90 | 20 | 0.294 | 33.20 | 35 | 94.8% |
| Annual | H1H | 2.14 | 6.6 | 0.00716 | 8.74 | 9 | 97.1% |

## 6.2 PSD Class II Increment Results

**Table 6-9. PSD Increment Modeling Results for $NO_2$, $PM_{10}$, and $SO_2$**

| Pollutant | Averaging Period | Form[a] | Facility GLC (µg/m³) | Facility + Neighbors GLC (µg/m³) | Background (µg/m³) | Full Impact (µg/m³) | PSD Class II Increment (µg/m³) | % of Standard[b] |
|---|---|---|---|---|---|---|---|---|
| $NO_2$ | Annual | H1H | 3.925 | - | 9.4 | 13.32 | 25 | 53.3% |
| $PM_{10}$ | Annual | H1H | - | 7.46 | - | 7.46 | 17 | 43.9% |
| $PM_{10}$ | 24-hr | H1H | - | 269.58 | - | 269.58 | 30 | *See footnote b* |
| $SO_2$ | Annual | H1H | - | 13.12 | - | 13.12 | 20 | 65.6% |
| $SO_2$ | 24-hr | H2H | - | 77.36 | - | 77.36 | 91 | 85% |
| $SO_2$ | 3-hr | H2H | - | 217.59 | - | 217.59 | 512 | 42.5% |

a. The $PM_{10}$ PSD Increment Class II form of the standard is H2H. However, Targa is removing SSM sources from the model as Targa does not expect SSM operations with particulate matter emissions to occur more than once a year. Thus, Targa is removing one of the highs from the model and comparing the H1H to the PSD Increment.
b. For models that exceed the standard, a culpability analysis was conducted to show that Targa is not culpable for any PSD Increment exceedances.

**Table 6-10. PSD Increment Modeling Results for $PM_{2.5}$**

| Pollutant | Averaging Period | Forma | Facility + Neighbors GLC (µg/m³) | Secondary Formation (µg/m³) | Full Impact (µg/m³) | PSD Class II Increment (µg/m³) | % of Standard[b] |
|---|---|---|---|---|---|---|---|
| $PM_{2.5}$ | Annual | H1H | 1.86 | 0.00716 | 1.87 | 4 | 46.7% |
| $PM_{2.5}$ | 24-hr | H1H | 16.47 | 0.294 | 16.76 | 9 | *See footnote b* |

a. The $PM_{2.5}$ PSD Increment Class II form of the standard is H2H. However, Targa is removing SSM sources from the model as Targa does not expect SSM operations with particulate matter emissions to occur more than once a year. Thus, Targa is removing one of the highs from the model and comparing the H1H to the PSD Increment.
b. For models that exceed the standard, a culpability analysis was conducted to show that Targa is not culpable for any PSD Increment exceedances.

## 6.3 Culpability Analyses

For the culpability analyses, Targa identified the significant receptors that were exceeding the respective NAAQS or PSD Increment. The models were re-run with these significant receptors and postfiles to determine the contribution from Targa sources at each receptor. The analysis showed that for every exceedance of the regulatory threshold, Targa was below the SIL.

The spreadsheets used to conduct this analysis are included with the modeling file submittal compilation.

## 6.4 Electronic Files

| File name (or folder and file name) | Pollutant(s) | Purpose (ROI/SIA, cumulative, culpability analysis, other) |
|---|---|---|
| RHGP_Generators | All | Determine worst-case generator locations |
| RHGP_CO_SIL | CO | ROI/SIA |
| RHGP_H2S_SIL | $H_2S$ | ROI/SIA |
| RHGP_NO2 Ann_SIL | $NO_2$ | ROI/SIA |
| RHGP_NO2 24hr_SIL | $NO_2$ | ROI/SIA |
| RHGP_NO2 1hr_SIL | $NO_2$ | ROI/SIA |
| RHGP_PM25 Ann_SIL | $PM_{2.5}$ | ROI/SIA |
| RHGP_PM25 24hr_SIL | $PM_{2.5}$ | ROI/SIA |
| RHGP_PM10 Ann_SIL | $PM_{10}$ | ROI/SIA |
| RHGP_PM10 24hr_SIL | $PM_{10}$ | ROI/SIA |
| RHGP_SO2 Ann_SIL | $SO_2$ | ROI/SIA |
| RHGP_SO2 3hr_24hr_SIL | $SO_2$ | ROI/SIA |
| RHGP_SO2 1hr_SIL | $SO_2$ | ROI/SIA |
| RHGP_CO_CIA | CO | Cumulative – 8hr NAAQs |
| RHGP_H2S_CIA | H2S | Cumulative – 1/2hr NMAAQs |
| RHGP_NO2 Ann_PSD | $NO_2$ | Cumulative – Annual PSD Inc. Class II |
| RHGP_NO2 Ann_CIA | $NO_2$ | Cumulative – Annual NMAAQs |
| RHGP_NO2 1hr_CIA | $NO_2$ | Cumulative – 1hr NAAQs |
| RHGP_PM25 Ann_PSD | $PM_{2.5}$ | Cumulative – Annual PSD Inc. Class II |
| RHGP_PM25 Ann_CIA | $PM_{2.5}$ | Cumulative – Annual NAAQs |
| RHGP_PM25 24hr_PSD | $PM_{2.5}$ | Cumulative – 24hr PSD Inc. Class II |
| RHGP_PM25 24hr_CIA | $PM_{2.5}$ | Cumulative – 24hr NAAQs |
| RHGP_PM10 Ann_PSD | $PM_{10}$ | Cumulative – Annual PSD Inc. Class II |
| RHGP_PM10 24hr_PSD | $PM_{10}$ | Cumulative – 24hr PSD Inc. Class II |
| RHGP_PM10 24hr_CIA | $PM_{10}$ | Cumulative – 24hr NAAQs |
| RHGP_SO2 Ann_PSD | $SO_2$ | Cumulative – Annual PSD Inc. Class II |
| RHGP_SO2 24hr_PSD | $SO_2$ | Cumulative – 24hr PSD Inc. Class II |
| RHGP_SO2 3hr_PSD | $SO_2$ | Cumulative – 3hr PSD Inc. Class II |
| RHGP_SO2 1hr_CIA | $SO_2$ | Cumulative – 1hr NAAQs |
| RHGP_CC_Class I | Varies | ROI/SIA – Carlsbad PSD Inc. Class I |
| RHGP_GMNP_Class I | Varies | ROI/SIA – Guadalupe PSD Inc. Class I |
| RHGP_SCW_Class I | Varies | ROI/SIA – Salt Creek PSD Inc. Class I |
| RHGP_BBNP_Class I | Varies | ROI/SIA – Big Bend PSD Inc. Class I |
| RHGP_H2S 1hr_CIA_CP | H2S | Culpability Analysis – H2S 1hr |
| RHGP_PM25 24hr_PSD_CP | $PM_{2.5}$ | Culpability Analysis – PM2.5 24hr |
| RHGP_PM10 24hr_PSD_CP | $PM_{10}$ | Culpability Analysis – PM10 24hr |
| RHGP_PM10 24hr_NAAQs_CP | $PM_{10}$ | Culpability Analysis – PM10 24hr |

# 7. ADDITIONAL IMPACTS

All PSD applications must include an Additional Impacts Analysis composed of the following parts:

- Growth analysis
- Soils and vegetation analysis
- State and Federal threatened and endangered species analysis
- Visibility impairment analysis
- Water impact and consumption analysis

## 7.1 Growth Analysis

A growth analysis consists of a projection of the associated industrial, commercial, and residential growth that is likely to occur in the area due to the facility, and an estimate of the emissions generated by that associated growth. Because the facility is an existing source, no new emission units will be constructed and no increase in workforce is planned; therefore, no future growth is anticipated as a result of this project.

## 7.2 Soil and Vegetation Analysis

Pursuant to the requirements in 40 CFR 52.21(o), an analysis of the impact that could occur to soils and vegetation of significant commercial or recreational value as a result of operating the Red Hills Gas Plant is discussed below.

The EPA developed the secondary NAAQS in order to protect soil and vegetation air quality-related values that were not sufficiently protected by the primary NAAQS. The secondary NAAQS represent ambient air concentrations below which most types of soils and vegetation are unaffected by criteria pollutants. If predicted ambient air concentrations are found to be less than the secondary NAAQS, it is presumed that emissions from the Red Hills Gas Plant do not result in harmful effects to either soil or vegetation and no further soil or vegetation analysis will be performed.

## 7.3 State and Federal Endangered Species Analysis

The Endangered Species Act (ESA) protects the habitats of any endangered or threatened species. Threatened and endangered species of plants and animals for the facility and surrounding area have been identified using the U.S. Fish and Wildlife Service website, Information for Planning and Consultation (IPaC; https://ecos.fws.gov/ipac/). The IPaC informal species list is attached. The online Critical Habitat Mapper provided by the U.S. Fish and Wildlife Service (http://criticalhabitat.fws.gov/crithab/) was used to determine critical habitats and project effect determinations for all threatened and endangered species.

The determinations are summarized below. Based on the information provided by IPaC, there are no critical habitats at this location. Therefore, it is expected that no ESA-listed species are adversely impacted by the project.

**Table 7-1. State and Federal Endangered Species Analysis**

| Species | Status | Habitat | Proximity | Determination of Effect |
|---|---|---|---|---|
| Lesser Prairie-chicken | Endangered | This species can be found in the Shinnery Oak Prairie Ecoregion. The species is ground-dwelling, and they require large, ecologically functioning grasslands and shrublands with a diversity of grass and low-growing shrub species with limited anthropogenic structures and trees. | There are no grasslands and shrublands with limited anthropogenic structures in the area, therefore, no critical habitat within the project or action area. | No Effect Expected |
| Northern Aplomado Falcon | Experimental Population, Non-Essential | Habitat includes palm and oak savannahs, various desert grassland associations, and open pine woodlands. Essential habitat elements appear to be open terrain with scattered trees, relatively low ground cover, an abundance of insects and small to medium-sized birds, and a supply of nest sites. | The project area contains minimal low-quality migratory and nesting habitat. | No Effect Expected |
| Monarch Butterfly | Proposed Threatened | Habitat includes western migratory population overwintering sites, though breeding and migratory habitat covers much of the contiguous US. | The project area contains minimal low-quality migratory and breeding habitat. | No Effect Expected |
| Dunes Sagebrush Lizard[1] | Endangered | Habitat primarily relies on shinnery oak sand dune ecosystem. | Based on information available at the time of application submittal, the facility has not been identified as a Critical Habitat for this species. | No Effect Expected |

1. Due to recent regulatory action and jurisdictional overlap, this species was not identified in IPaC, but is included here for completeness of the determination.

## 7.4 Visibility Impairment Analysis

Red Hills identified the Lea County/Jal Airport-E26 as the nearest sensitive receptor. There are no other state parks or wilderness areas within 50 km. A Level 1 VISCREEN analysis was performed for the project emissions to estimate visual plume impacts at that airport location. The default ozone value (0.04 ppm) was updated to the most recent and most conservative nearby ozone design value in the area (0.08 ppm). Based on that

analysis, it was determined that the proposed project will not cause any visible plume impact of concern at the airport.

## 7.5 Water Impact and Consumption Analysis

There are no jurisdictional waters of the U.S. or other surface water bodies, including any salt playas, located within the proposed project area. Therefore, there are no direct impacts to surface waters.
There are relatively few groundwater level measurements in the vicinity of the project area. The few that are available indicate various groundwater depths, ranging from approximately 20 to 350 feet below ground surface (USGS). The nearest groundwater well site to the plant site is located approximately 4 miles northwest of the property boundary. The use of this well is currently unknown. Here, the groundwater depth is approximately 40 feet below ground surface so there would be no direct impact from construction or operational activities on groundwater resources.

The facility operates acid gas injection wells for sequestration of carbon dioxide and hydrogen sulfide gases, which would have the potential to directly impact groundwater resources. Based on the necessity to obtain an Underground Injection Control permit through the New Mexico Oil Conservation Division, and the lack of evidence for any domestic or public water supplies within the area, it is unlikely that direct impacts to potable groundwater supplies would occur due to the use of the acid gas injection wells. The facility monitors the aquifer to ensure there is no infiltration of the acid gas from the injection well.

The potential to impact water resources primarily lies with the indirect impacts that could occur due to stormwater runoff from facility activities. While indirect impacts from stormwater movement of contaminants or sediment due to the arid climate is a possibility, the implementation of good housekeeping practices and other best management practices are likely to limit any movement of contaminants or sediment and limit any indirect impacts to surface waterbodies. The distance to the nearest intermittent lake/pond is approximately 1,000 feet. This area east of the facility is relatively small compared to the project area and is not anticipated to typically contain surface water. This project would have no impact on the Pecos River, located approximately 25 miles west of the facility.

The Proposed Action is unlikely to result in direct or indirect impacts to surface water and groundwater resources in the area. No additional mitigation measures are recommended.

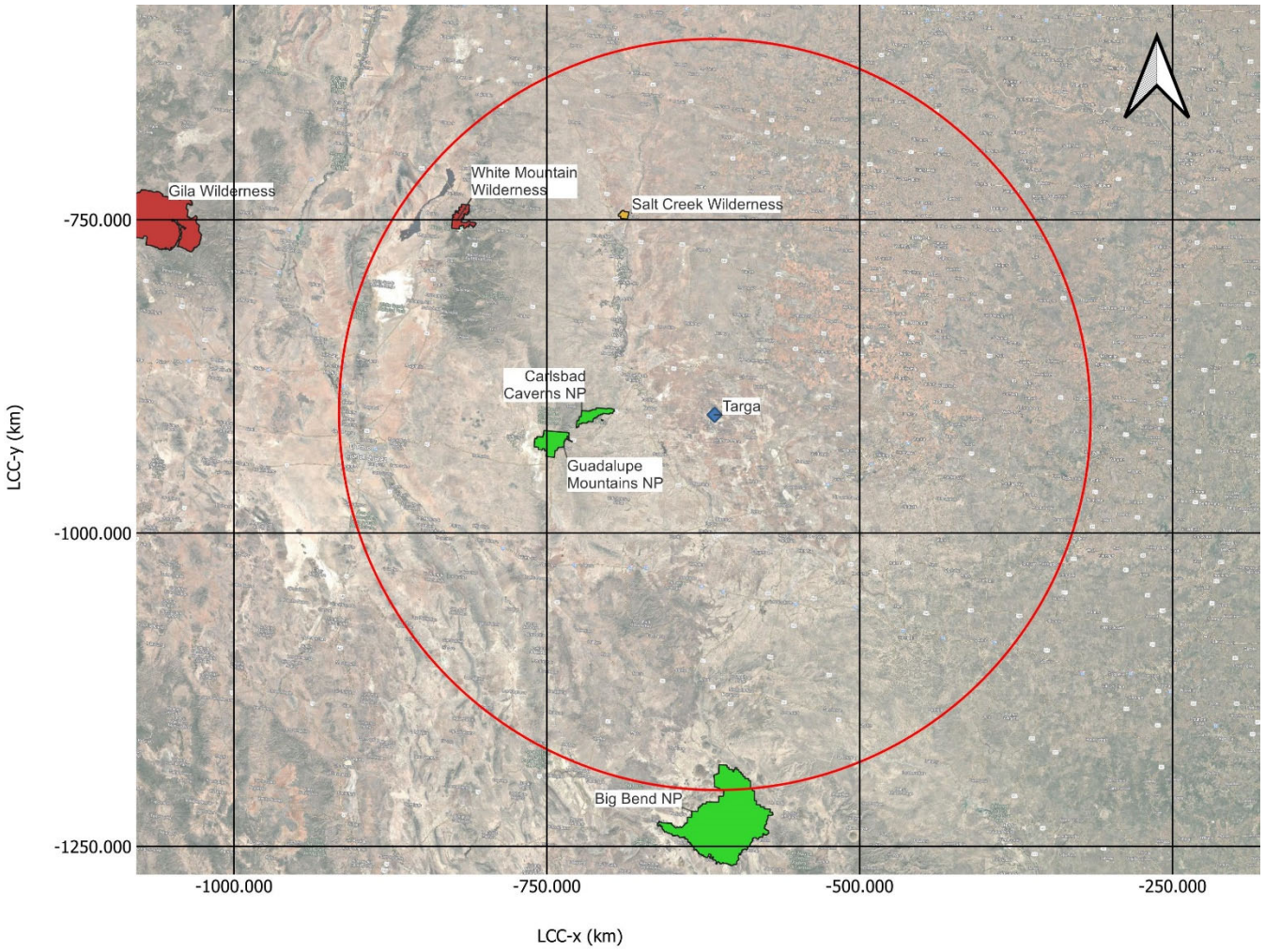
# 8. CLASS I MODELING REQUIREMENTS

There are no Class I areas within 50 km of Red Hills. The Class I areas within 300 km of Red Hills are Carlsbad Caverns National Park (~80 km W-WSW), Guadalupe Mountains National Park (~115 km WSW), Salt Creek Wildlife Area (~170 km NNW), White Mountain Wilderness (~275 km WNW), and Big Bend National Park (~280 km SSE). These Class I areas are shown in Figure 8-1. With the exception of Big Bend National Park, the exterior boundaries of the Class I areas are fully within the 300-km distance from the Red Hills.

## 8.1 Initial Screening Analyses

Trinity conducted initial screening analyses of the potential air quality impacts at Class I areas within 300 km of Red Hills. The following sections present the initial screening analysis procedures used and their results.

**Figure 8-1. PSD Class I Areas Within 300 km of Red Hills Gas Processing Plant**



### 8.1.1 Significant Impact Analysis Screening

Initial screening for significant impacts was conducted using EPA's initial screening procedures to address Class I increment impacts from the project.[40]

**Table 8-1. Class I Significant Impact Levels for Air Quality Standards and PSD Increments**

| Pollutant | Averaging Period | SIL [a] (µg/m³) | Form of SIL |
|---|---|---|---|
| $SO_2$ | 3-hour | 1.0 | H1H |
| | 24-hour | 0.2 | H1H |
| | Annual | 0.1 | H1H |
| $PM_{2.5}$ [b] | 24-hour | 0.27 | H1H [c] |
| | Annual | 0.03 | H1H [c] |
| $PM_{10}$ | 24-hour | 0.3 | H1H |
| | Annual | 0.2 | H1H |
| $NO_2$ | Annual | 0.1 | H1H |
| Ozone [d] | 8-hour | 1.96 | See Table Note d |

[a] The modeled facility-only impacts will be the H1H modeled concentrations for comparison to the SILs on an individual year basis unless otherwise noted.

[b] $PM_{2.5}$ modeled impacts will be the sum of direct $PM_{2.5}$ predicted by AERMOD and secondarily formed $PM_{2.5}$ as calculated by CALPUFF.

[C] The annual $PM_{2.5}$ SIL was updated by EPA on 4/30/2024. EPA guidance specifies that the highest of the multi-year averages of the maximum modeled 24 hour and annual $PM_{2.5}$ concentrations predicted each year at each receptor, based on 2 or more years and up to 5 complete years of available meteorological data, be used for the SIL analyses.

[d] See Section 4.13.

## 8.2 Q/D Analysis

A Q/D screening analysis was performed in a manner consistent with the proposed method as outlined in FLAG 2010.[41] This method compares the ratio of visibility-affecting pollutants (VAP, which includes $NO_x$, $SO_2$, $PM_{10}$ and $H_2SO_4$) emission rates associated with the project to the distance from the Class I area. There are no direct $H_2SO_4$ emissions, so the screening analysis only considers $NO_x$, $SO_2$, and $PM_{10}$ emissions.

For the FLAG 2010 approach, "Q" is calculated as the sum of the worst-case 24-hour emissions from the "project", converted to an annual basis. The "D'" term is defined as the distance, in kilometers (km), from the

[40] Federal Land Manager's Air Quality Related Values Work Group (FLAG), Phase 1 Report-Revised (2010), NSP/MRPC/NRR, 2010

[41] Federal Land Manager's Air Quality Related Values Work Group (FLAG), Phase 1 Report-Revised (2010), NSP/MRPC/NRR, 2010

facility to the closest receptor in the corresponding Class I area. A Q/D screening threshold of ten (10) is provided in the FLAG 2010 guidance document.

When considering the proposed emissions for the facility, the total "Q" is roughly 7,100 tons per year (tpy). Table 8-2 to Table 8-4 show the project's Q'D for the three operating scenarios detailed in Section 4.3. Detailed Q/D calculations are included in 10.4Appendix Q.

**Table 8-2. Class I AQRV Screening Analysis Result - Scenario 1**

| Class I Area | Distance (km) | Annualized Maximum Daily Emission Rate (tpy) | | | Q (tpy) | Q/D* | Additional Review? |
|---|---|---|---|---|---|---|---|
| | | $SO_2$ | $NO_X$ | $PM_{10}$ | | | (Yes/No) |
| Carlsbad Caverns National Park | 79.80 | 1,029 | 6,011 | 36.52 | 7,077 | 88.86 | Yes |
| Guadalupe Mountains National Park | 116.00 | | | | | 61.00 | Yes |
| Salt Creek Wilderness | 170.60 | | | | | 41.48 | Yes |
| White Mountain Wilderness | 242.57 | | | | | 29.17 | Yes |
| Big Bend | 279.75 | | | | | 25.30 | Yes |

**Table 8-3. Class I AQRV Screening Analysis Result - Scenario 2**

| Class I Area | Distance (km) | Annualized Maximum Daily Emission Rate (tpy) | | | Q (tpy) | Q/D* | Additional Review? |
|---|---|---|---|---|---|---|---|
| | | $SO_2$ | $NO_X$ | $PM_{10}$ | | | (Yes/No) |
| Carlsbad Caverns National Park | 79.80 | 1,041 | 5,962 | 36.52 | 7,039 | 88.21 | Yes |
| Guadalupe Mountains National Park | 116.00 | | | | | 60.68 | Yes |
| Salt Creek Wilderness | 170.60 | | | | | 41.26 | Yes |
| White Mountain Wilderness | 242.57 | | | | | 29.02 | Yes |
| Big Bend | 279.75 | | | | | 25.16 | Yes |

**Table 8-4. Class I AQRV Screening Analysis Result - Scenario 3**

| Class I Area | Distance (km) | Annualized Maximum Daily Emission Rate (tpy) | | | Q (tpy) | Q/D* | Additional Review? |
|---|---|---|---|---|---|---|---|
| | | $SO_2$ | $NO_X$ | $PM_{10}$ | | | (Yes/No) |
| Carlsbad Caverns National Park | 79.80 | 1,037 | 5,970 | 36.52 | 7,044 | 88.27 | Yes |
| Guadalupe Mountains National Park | 116.00 | | | | | 60.72 | Yes |
| Salt Creek Wilderness | 170.60 | | | | | 41.29 | Yes |
| White Mountain Wilderness | 242.57 | | | | | 29.04 | Yes |
| Big Bend | 279.75 | | | | | 25.18 | Yes |

## 8.3 Class I AQRV Analyses

The FLMs for Class I areas have the responsibility to protect air quality related values and to consider in consultation with the permitting authority whether a proposed major emitting facility will have an adverse impact on such values. Federal Land Managers' Air Quality Related Values Work Group (FLAG) 2010 Phase I Report defines the following:[42]

> *Air Quality Related Value* - A resource, as identified by the FLM for one or more Federal areas that may be adversely impacted by a change in air quality. The resource may include visibility or a specific scenic, cultural, physical, biological, ecological, or recreational resource identified by the FLM for a particular area.
>
> *Adverse Impact on Air Quality Related Values* - An unacceptable effect, as identified by an FLM, that results from current, or would result from predicted, deterioration of air quality in a Federal Class I or Class II area. A determination of unacceptable effect shall be made on a case-by-case basis for each area considering existing air quality conditions. It should be based on a demonstration that the current or predicted deterioration of air quality will cause or contribute to a diminishment of the area's national significance, impairment of the structure and functioning of the area's ecosystem, or impairment of the quality of the visitor experience in the area.

Red Hills evaluated impacts to deposition and visibility to address AQRVs at the five Class I areas. The following sections provide further details on the AQRVs that are addressed for this project.

### 8.3.1 Deposition

In the deposition analysis, the project's contribution to the deposition of chemical species at the four Class I areas will be evaluated against the deposition analysis thresholds (DAT) for nitrate ($NO_3$) and sulfate ($SO_4$), which are set by the FLM. As the five Class I areas are located more than 50 km from the facility, Trinity used CALPUFF to model deposition.

[42] Federal Land Manager's Air Quality Related Values Work Group (FLAG), Phase 1 Report-Revised (2010), NSP/MRPC/NRR, 2010

As stated in FLAG 2010, the DAT represents "the additional amount of nitrogen or sulfur deposition within a Class I area, below which estimated impacts from a proposed new or modified source are considered negligible." Moreover, according to FLAG 2010, "If the new or modified source has a predicted nitrogen or sulfur deposition impact below the respective DAT, the NPS and FWS will consider that impact to be negligible, and no further analysis would be required of that pollutant." The recommended DAT is not necessarily an adverse impact threshold, rather it's used as a screening level value. Since the potentially-affected Class I areas are all in the Southwestern US, the deposition impacts will be evaluated against appropriate sulfur and nitrogen DAT of 0.005 kg/ha/yr (each) for Class I areas in the Western United States.

Consistent with Interagency Workgroup On Air Quality Modeling (IWAQM) Phase 2 Summary Report (IWAQM Phase 2), particulate-phase dry and wet deposition will be modeled for $SO_4$. For sulfur deposition, the sum of wet and dry deposition fluxes for $SO_4$ will be normalized by the molecular weight of sulfur and expressed as total sulfur.

### 8.3.2 Visibility

Visibility can be affected by plume impairment (heterogeneous) or regional haze (homogeneous). Plume impairment results when there is a contrast or color difference between the plume and a viewed background (the sky or a terrain feature). Plume impairment is generally only of concern when the Class I area is near the proposed source (i.e., less than 50 km). Since the distances between the facility and the Class I areas are greater than 50 km, only regional haze will be considered.

Regional haze occurs at distances where the plume has become evenly dispersed into the atmosphere such that there is no definable plume. The primary causes of regional haze are $SO_4$ and $NO_3$ (primarily as ammonium salts). Particulate emissions also contribute to regional haze but to a lesser extent since sulfates and nitrates are hygroscopic species that increasingly reduce visibility with increased relative humidity.

Regional haze is measured using the light extinction coefficient ($b_{ext}$). The Interagency Monitoring of Protected Visual Environments (IMPROVE) workgroup proposed a method informally known as "Method 8" to compute visibility impairments, which has been incorporated as the default method in FLAG 2010. This algorithm will be used to calculate the daily light extinction attributable to the project and light extinction attributable to a natural background.

To determine a change in regional haze, the percentage change of the light extinction coefficient ($\Delta b_{ext}$) will be evaluated using Equation 1:[43]

$$\Delta b_{ext} = (b_{ext(source+nat\ cond)} - b_{ext(nat\ cond)})/b_{ext(nat\ cond)} \quad \textit{(Equation 1)}$$

[43] Federal Land Managers' Air Quality Related Values Work Group (FLAG), Phase I Report-Revised (2010), NSP,/NRPC/NRR, 2010

The background extinction coefficient $b_{ext,(nat\ cond)}$ is affected by various chemical species and the Rayleigh scattering phenomenon and can be calculated as shown in Equation 2:[44]

$$b_{ext} = 2.2 \times f_S(RH) \times [\text{Small Sulfate}] + 4.8 \times f_L(RH) \times [\text{Large Sulfate}] + 2.4 \times f_S(RH) \times [\text{Small Nitrate}] + 5.1 \times f_L(RH) \times [\text{Large Nitrate}] + 2.8 \times [\text{Small Organic Mass}] + 6.1 \times [\text{Large Organic Mass}] + 10 \times [\text{Elemental Carbon}] + 1 \times [\text{Fine Soil}] + 0.6 \times [\text{Coarse Mass}] + 1.7 \times f_{SS}(RH) \times [\text{Sea Salt}] + \text{Rayleigh Scattering (Site Specific)} + 0.33 \times [NO_2\ (ppb)] \left\{\text{or as: } 0.1755 \times \left[NO_2\ \left(\frac{\mu g}{m^3}\right)\right]\right\} \quad \textit{(Equation 2)}$$

Where:

[ ] indicates concentrations in μg/m$^3$

$f_S(RH)$ = Relative humidity adjustment factor for small sulfate and nitrate

$f_L(RH)$ = Relative humidity adjustment factor for large sulfate and nitrate

$f_{SS}(RH)$ = Relative humidity adjustment factor for sea salt

For Total Sulfate < 20 μg/m$^3$:

[Large Sulfate] = ([Total Sulfate] / 20 μg/m$^3$) x [Total Sulfate]

For Total Sulfate ≥ 20 μg/m$^3$:

[Large Sulfate] = [Total Sulfate]

And:

[Large Sulfate] = [Total Sulfate]-[Large Sulfate]

The natural background concentrations and Rayleigh scattering value at the Class I areas considered in this analysis are provided on an annual average basis in FLAG 2010. The values are shown in Table 8-5 and are representative of each of the five Class I areas. The monthly relative humidity (f(RH)) values for each of the Class I areas were also obtained from FLAG 2010 and are shown in Table 8-6 through Table 8-8.

Pollutants that have the potential to affect visibility (particulate species) are emitted from Red Hills. The extinction coefficient $b_{ext(source)}$ due to emissions of visibility affecting pollutants from a single project were calculated using CALPUFF. The extinction due to the project was calculated as shown in Equation 2 above and compared with natural conditions using Equation 1.

[44] Federal Land Managers' Air Quality Related Values Work Group (FLAG), Phase I Report-Revised (2010), NSP,/NRPC/NRR, 2010

**Table 8-5. Annual Average Natural Conditions**

| Class I Area | Sulfate ($\mu g/m^3$) | Nitrate ($\mu g/m^3$) | OM ($\mu g/m^3$) | EC ($\mu g/m^3$) | Soil ($\mu g/m^3$) | CM ($\mu g/m^3$) | Sea Salt ($\mu g/m^3$) | Rayleigh $Mn^{-1}$ |
|---|---|---|---|---|---|---|---|---|
| White Mountain Wilderness | 0.12 | 0.10 | 0.60 | 0.02 | 0.50 | 3.00 | 0.03 | 9.00 |
| Salt Creek Wilderness | 0.12 | 0.10 | 0.60 | 0.02 | 0.50 | 3.00 | 0.04 | 10.00 |
| Guadalupe Mountains NP | 0.12 | 0.10 | 0.60 | 0.02 | 0.50 | 3.00 | 0.02 | 9.00 |
| Carlsbad Caverns NP | 0.12 | 0.10 | 0.60 | 0.02 | 0.50 | 3.00 | 0.02 | 9.00 |
| Big Bend NP | 0.12 | 0.10 | 0.60 | 0.02 | 0.50 | 3.00 | 0.03 | 10.00 |

**Table 8-6. Monthly Large $(NH_3)SO_4$ and $NH_4NO_3$ Relative Humidity Adjustment Factor**

| Class I Area | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| White Mountain Wilderness | 2.00 | 1.79 | 1.51 | 1.40 | 1.44 | 1.37 | 1.64 | 1.82 | 1.85 | 1.59 | 1.72 | 1.95 |
| Salt Creek Wilderness | 2.01 | 1.79 | 1.51 | 1.45 | 1.55 | 1.48 | 1.64 | 1.80 | 1.91 | 1.64 | 1.72 | 1.91 |
| Guadalupe Mountains NP | 2.14 | 1.82 | 1.49 | 1.38 | 1.48 | 1.47 | 1.78 | 1.98 | 2.10 | 1.60 | 1.78 | 2.08 |
| Carlsbad Caverns NP | 2.07 | 1.81 | 1.50 | 1.42 | 1.51 | 1.48 | 1.72 | 1.90 | 2.03 | 1.64 | 1.76 | 2.00 |
| Big Bend NP | 1.72 | 1.61 | 1.44 | 1.38 | 1.47 | 1.48 | 1.58 | 1.74 | 1.83 | 1.63 | 1.63 | 1.70 |

**Table 8-7. Monthly Small $(NH_3)SO_4$ and $NH_4NO_3$ Relative Humidity Adjustment Factor**

| Class I Area | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| White Mountain Wilderness | 2.54 | 2.19 | 1.76 | 1.58 | 1.65 | 1.53 | 1.94 | 2.20 | 2.29 | 1.87 | 2.07 | 2.45 |
| Salt Creek Wilderness | 2.57 | 2.19 | 1.75 | 1.67 | 1.82 | 1.69 | 1.93 | 2.16 | 2.37 | 1.94 | 2.07 | 2.38 |
| Guadalupe Mountains NP | 2.85 | 2.28 | 1.74 | 1.57 | 1.73 | 1.69 | 2.16 | 2.48 | 2.74 | 1.90 | 2.20 | 2.71 |
| Carlsbad Caverns NP | 2.70 | 2.25 | 1.75 | 1.63 | 1.77 | 1.70 | 2.06 | 2.34 | 2.59 | 1.95 | 2.16 | 2.57 |
| Big Bend NP | 2.11 | 1.92 | 1.65 | 1.56 | 1.67 | 1.67 | 1.83 | 2.07 | 2.22 | 1.92 | 1.92 | 2.04 |

**Table 8-8. Salt Relative Humidity Adjustment Factor**

| Class I Area | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| White Mountain Wilderness | 2.71 | 2.37 | 1.89 | 1.68 | 1.76 | 1.66 | 2.14 | 2.46 | 2.49 | 2.02 | 2.25 | 2.63 |
| Salt Creek Wilderness | 2.72 | 2.37 | 1.88 | 1.77 | 1.96 | 1.87 | 2.15 | 2.44 | 2.59 | 2.12 | 2.26 | 2.56 |
| Guadalupe Mountains NP | 2.82 | 2.35 | 1.84 | 1.64 | 1.82 | 1.83 | 2.36 | 2.72 | 2.85 | 2.01 | 2.28 | 2.76 |
| Carlsbad Caverns NP | 2.75 | 2.36 | 1.86 | 1.72 | 1.89 | 1.86 | 2.27 | 2.59 | 2.75 | 2.09 | 2.29 | 2.68 |
| Big Bend NP | 2.20 | 2.03 | 1.75 | 1.67 | 1.84 | 1.87 | 2.03 | 2.34 | 2.47 | 2.09 | 2.10 | 2.22 |

This data is used in the AQRV Analysis provided in Section 10.2 of this report.

Equation 2 above for regional haze requires an estimate of the chemical composition and size distribution of the particulates emitted from the sources at the facility. Particulate extinction coefficients of a natural gas fuel burning source for use in the CALPOST program are based on best estimates for elemental carbon (EC), with the balance of filterable particulate divided between fine soil (PMF) and coarse mass (PMC). Condensable particulate matter will be assumed to be "Inorganic" Condensable $PM_{10}$ (CPM IOR) and secondary organic aerosol (SOA). A relative humidity adjustment factor of 3.0 * f (RH) is used to calculate the sulfate ($SO_4$) component of the light extinction coefficient, which accounts for the hygroscopic growth of sulfate aerosol in the presence of water vapor. Table 8-9 provides a summary of the particle speciation percentages based on the speciation profile from the EPA SPECIATE v5.3 database for a boiler burning natural gas.[45]

**Table 8-9. Particle Speciation Percentages**

| Source | Coarse (PMC) | Fine Soil (PMF) | Fine EC | CPM IOR | SOA | Nitrate (NO3) |
|---|---|---|---|---|---|---|
| Heaters | 0.0 | 81.8 | 3.0 | 4.4 | 8.7 | 2.13 |
| Boilers | 0.0 | 81.8 | 3.0 | 4.4 | 8.7 | 2.13 |
| Thermal Oxidizer | 0.0 | 81.8 | 3.0 | 4.4 | 8.7 | 2.13 |

## 8.4 Class I PSD Increment Analyses

PSD permit applicants are required to demonstrate, through air quality modeling, that the emissions from the project will not cause or contribute to violations of allowable increments within affected Class I areas. A significant contribution to Class I Increment consumption is defined as a modeled concentration in excess of the significant impact levels summarized in Table 8-10.

[45] EPA SPECIATE v5.4, https://www.epa.gov/air-emissions-modeling/speciate

**Table 8-10. Class I PSD Modeling Significance Levels and Increments**

| Pollutant | Averaging Period | SIL ($\mu g/m^3$) | Increment ($\mu g/m^3$) |
|---|---|---|---|
| $NO_2$ | Annual | 0.10 | 2.5 |
| $SO_2$ | 3-Hour | 1.00 | 25 |
| | 24-Hour | 0.20 | 5 |
| | Annual | 0.10 | 2 |
| $PM_{10}$ | 24-Hour | 0.30 | 8 |
| | Annual | 0.20 | 4 |
| $PM_{2.5}$ | 24-Hour | 0.27 | 2 |
| | Annual | 0.05 | 1 |

# 9. CLASS I MODELING INPUTS

The U.S. EPA no longer recommends the CALPUFF modeling system as a tool for analyzing long-range pollutant transport (i.e., distances greater than 50 km) within the Guideline on Air Quality Models, Appendix W.[46] The FLMs have approved the  version [Version 5.8.5 of CALPUFF (level 151214) and 6.221 of CALPOST (level 082724] of the CALPUFF modeling suite as a screening model for Class I SIL and Increment. The FLMs continue to prefer the use of CALPUFF in the assessment of AQRV impacts. Targa will use CALPUFF to determine the possible impacts of the Red Hills facility on Class I AQRVs at each of the five Class I areas. Class I increment was not modeled as the Class I impacts were less than the Class I SIL.

In addition to gridded meteorological data, the CALPUFF model uses several other input files to specify source and receptor parameters. The selection and control of CALPUFF options are determined by user-specific inputs contained in the control file. This file contains all of the necessary information to define a model run (e.g., starting date, run length, grid specifications, technical options, output options). The air quality modeling was performed using CALPUFF default options unless otherwise noted, as specified in the federal Guideline and IWAQM documents.[47] The following sections describe the modeling domain, meteorological data, background concentrations, and model implementation that were used for the analysis of the Red Hills facility.

## 9.1 Modeling Domains

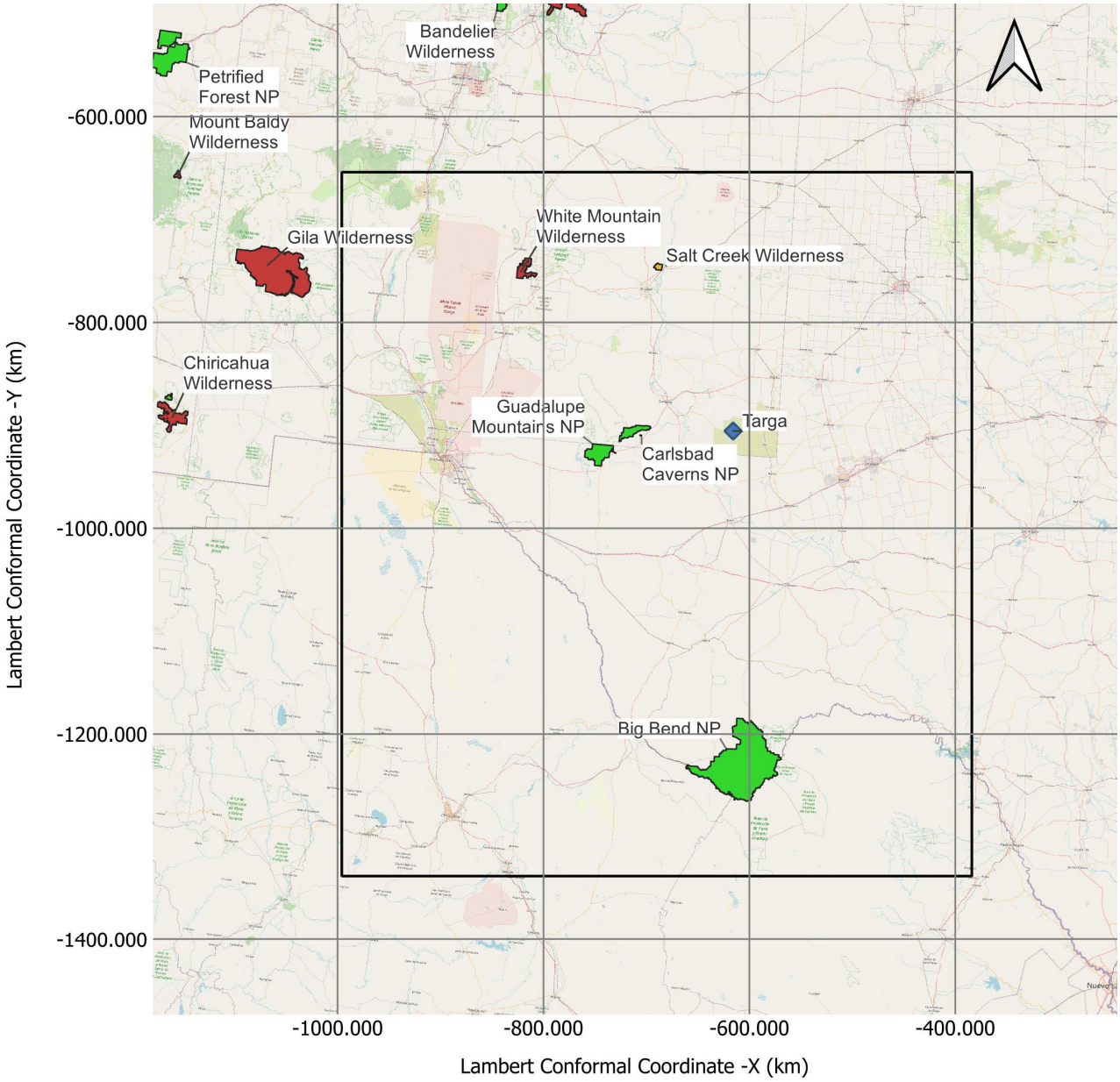
The location, terrain, and land use within the meteorological MMIF and computational CALPUFF domains are based on previously-developed datasets. Trinity used the 2018-2020 WRF data recently compiled and distributed by Tim Allen at USFWS.[48] The CALPUFF computational domain was set to encompass the entire CALMET domain and used the same grid spacing (12 km). The horizontal domain is comprised of grid cells, each containing a central grid point at which meteorological and computational parameters were calculated at each time step. Trinity used a domain defined with Lambert Conformal Coordinate (LCC) shown in Table 9-1 and as shown in Figure 9-1. This domain is 612 km x 684 km which corresponds to a grid of 51 x 57 cells at a 12-km resolution. The grid center is offset from the facility to capture the Class I areas to the west and south.

**Table 9-1. Model Domain Coordinates**

| Indices | Longitude | Latitude | LCC X (km) | LCC Y (km) |
|---|---|---|---|---|
| SW | -107.04637 | 28.04069 | -996.000 | -1338.000 |
| NE | -101.20709 | 34.58297 | -384.000 | -654.000 |

[47] Federal Land Managers' Air Quality Related Values Work Group (FLAG), Phase I Report-Revised (2010), NSP,/NRPC/NRR, 2010 and Interagency Workgroup on Air Quality Modeling (IWAQM) Phase 2 Summary Report and Recommendations for Modeling Long Range Transport Impacts. EPA-454/R-98-019. December 1998.

**Figure 9-1. Map Showing CALPUFF Modeling Domain**




Vertical grid structure is defined by the cell face height. The cell face height of each cell indicates its vertical extent. The vertical domain is composed of terrain-following grid cells, the number and size of which are chosen to constrain the boundary layer where dispersion and chemical transformations take place. The highest cell face is proposed to be 4,000 meters to constrain the default maximum mixing height of 3,000 meters. CALMET and CALPUFF used the same cell face heights.Table 9-2 summarizes the vertical grid structure used for the analyses.

**Table 9-2. Vertical Grid Structure**

| Vertical Grid Cell | Cell Face Height (meters) |
|---|---|
| 1 | 20 |
| 2 | 40 |
| 3 | 80 |
| 4 | 160 |
| 5 | 320 |
| 6 | 640 |
| 7 | 1,000 |
| 8 | 2,000 |
| 9 | 3,000 |
| 10 | 4,000 |

Ambient impacts were predicted at receptors specified by the FLMs to represent Class I Areas.[49] Receptor elevations were provided by NPS[50]. Note that the coordinates used in this modeling simulation were Lambert Conformal Coordinates (LCC) based on the design of the CALMET meteorological domain. These coordinates have an origin of 40.574°N and 97°W with standard parallels of 33°N and 45°N. Receptor locations for the Class I areas were converted to LCC using the Class I conversion tool provided by the NPS.

## 9.2 CALPUFF Meteorological Processing

Data from the 2018-2020 meteorological data set were extracted in CALPUFF-ready format using the Mesoscale Model Interface (MMIF) tool provided by U.S. EPA. The data was processed using the regulatory default settings in the MMIF guidance document.[51]

## 9.3 CALPUFF Model Processing

Using the data provided by MMIF, CALPUFF was used to simulate the dispersion (along with the deposition and chemical transformation for AQRV analyses) of discrete puffs of mass from emission sources. Each puff contained emissions of each modeled species and was advected throughout the domain while deposition and chemical transformation processes takes place. CALPUFF is a Lagrangian puff model, the principal advantages of which are that plumes can evolve dynamically and chemically over time and can respond to complex winds caused by terrain effects, stagnation, and recirculation.

Emissions data for the Red Hills Plant was entered into CALPUFF. The modeling analysis will only include the main combustion sources (i.e., heater, flares, etc.) as this is the source that would be expected to contribute to long-range transport. Fugitive PM emissions such as those from paved roadways were not included due to their very localized nature. Emergency engines were also excluded from the modeling given their infrequent operation and localized impacts.

[50] https://irma.nps.gov/DataStore/Reference/Profile/2249830

[51] Guidance on the Use of the Mesoscale Model Interface Program (MMIF), Document Display | NEPIS | US EPA

This analysis was performed with the deposition algorithm enabled except for particulate SIL analyses. A full resistance model is provided in CALPUFF for the computation of dry deposition rates of gases and particulate matter as a function of geophysical parameters, meteorological conditions, and pollutant species. An empirical scavenging coefficient approach using default options was enabled in CALPUFF to compute the depletion and wet deposition fluxes due to precipitation scavenging.

The CALPUFF model is capable of simulating linear chemical transformation effects by using pseudo-first-order chemical reaction mechanisms for the conversions of $SO_2$ to $SO_4$ and $NO_X$, which consists of NO and $NO_2$, to $NO_3$ and $HNO_3$. There are two user-selected input parameters that affect the MESOPUFF II chemical transformation, ammonia concentrations and ozone concentrations. The selection of each parameter is discussed separately. The chemistry model was not enabled for the particulate SIL modeling.

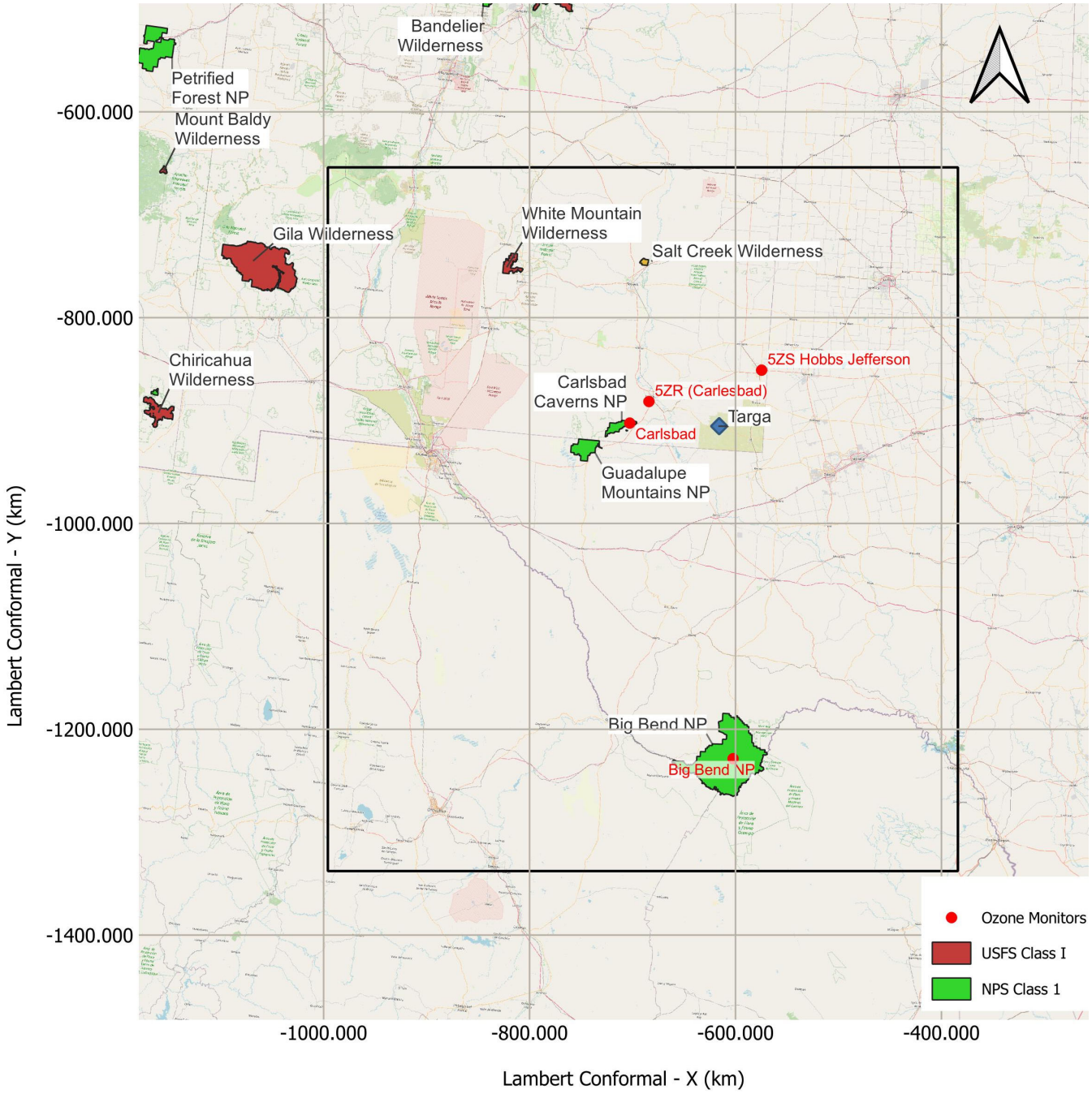
### 9.3.1 Ozone

Ambient ozone concentrations are required for inputs for the MESOPUFF II chemical scheme in order to handle the $NO_2$ chemistry in the model. Ozone values can be input to the model as a background level or using hourly, spatially varying observations. For this analysis, monthly average ozone background values were computed for each modeled year (2018, 2019 and 2020) from the CASTNET and AIRS data). The sites used for the ozone data are listed in Table 9-3 and their locations are demonstrated in Figure 9-2.

**Table 9-3. Ozone Background Monitors**

| Class I Area | Ozone Monitor Location | Ozone Monitor ID |
|---|---|---|
| White Mountain Wilderness | Carlsbad SZR | 35-015-1005 |
| Salt Creek Wilderness | Carlsbad SZR | 35-015-1005 |
| Guadalupe Mountains NP | Carlsbad and Carlsbad SZR | 35-015-1005 and 35-015-0010 |
| Carlsbad Caverns NP | Carlsbad and Carlsbad SZR | 35-015-1005 and 35-015-0010 |
| Big Bend NP | Big Bend | 48-043-0101 |

**Figure 9-2. Map Showing Ozone Monitor Locations**




## 9.3.2 Ammonia

IWAQM Phase 2 recommends the use of spatially constant background ammonia concentrations to participate in the MESOPUFF-II chemical transformation mechanism. Ammonia background data may be available from the National Atmospheric Deposition Program (NADP), Ammonia Monitoring Network. However no nearby monitors were found within the modeling domain. Given that the land use across the domain is predominantly

comprised of arid lands and through consultation with the FLMs, the default ammonia background of 1.0 ppb was applied for this analysis.

### 9.3.3 CALPUFF Processing Control

CALPUFF modeling was conducted using the recommended regulatory default options specified in Appendix B of IWAQM Phase 2. The integrated puff representation was used and puff splitting will be conservatively disabled.

## 9.4 POSTUTIL Processing

The first postprocessing step involved running POSTUTIL to calculate the concentrations of visibility-affecting and deposited species prior to running CALPOST. Specifically, POSTUTIL was used to combine the appropriate wet and dry fluxes of sulfur-bearing species deposited as particles and gases.

The other step performed in POSTUTIL was to repartition the nitrogen mass between nitric acid and nitrate. This processing stage, referred to as the ammonia limiting method (ALM), was accomplished by utilizing the default setting in POSTUTIL of MNITRATE = 1.

## 9.5 CALPOST Postprocessing Analysis

The CALPOST postprocessor was used to compute the total deposition of nitrogen and sulfur within each of the five Class I areas for assessment against the DAT as well as the 24-hour average visibility impairment. Section 7.4 generally described the technical approach for computing these values from the modeled concentrations of pollutant emissions. A summary of CALPOST program switches is included in 10.4Appendix R.

A change in light extinction attributable to a single facility of 0.5 deciview (DV) or less on a 24-hour average basis is generally acceptable to the FLM[52]. The FLAG 2010 guidance establishes a metric for assessing whether a single facility causes or contributes to visibility impairment. This guidance establishes a 0.5 DV extinction change threshold for contribution and a 1.0 DV extinction change threshold for causation of visibility impairment. These thresholds are applied to the 98th percentile model result for an analysis that considers multiple years of meteorological data. In other words, application of the 98th percentile standard formalizes the intensity, duration, and frequency aspects of modeled visibility impairment events by standardizing discretion left to the FLM on a case-by-case basis to exclude visibility impairment events that could be due to meteorological conditions or other naturally occurring phenomena that are not attributable to the emissions source.

[52] Federal Land Managers' Air Quality Related Values Work Group (FLAG), Phase I Report-Revised (2010), NSP,/NRPC/NRR, 2010

# 10. CLASS I MODELING RESULTS

## 10.1 SIL Analysis

The tables below detail the results of the significant impact screening. Table 10 1 details the results at Carlsbad Caverns, Table 10 2 details the results at Guadalupe Mountains, Table 10 3 details the results at Salt Creek Wilderness, Table 10 4 details the results at White Mountain Wilderness, and Table 10 5 details the results at Big Bend. The project's impact was less than the Class I significant impact level at all Class I areas evaluated. Therefore, no further NAAQS or Increment analysis was completed. Significant Impact Screening Results

**Table 10-1. Carlsbad Caverns Class I SIL Results (μg/m³)**

| Pollutant | Averaging Period | Scenario | 2018 | 2019 | 2020 | Secondary PM2.5 | Max | SIL | <SIL? |
|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ | Annual | 1 | 8.00E-04 | 6.03E-04 | 6.69E-04 | | 8.00E-04 | 1.00E-01 | YES |
| $NO_2$ | Annual | 2 | 8.03E-04 | 6.04E-04 | 6.70E-04 | | 8.03E-04 | 1.00E-01 | YES |
| $NO_2$ | Annual | 3 | 8.01E-04 | 6.03E-04 | 6.69E-04 | | 8.01E-04 | 1.00E-01 | YES |
| $PM_{10}$ | 24-hr | 1 | 1.58E-02 | 7.42E-03 | 8.14E-03 | | 1.58E-02 | 3.00E-01 | YES |
| $PM_{10}$ | 24-hr | 2 | 1.58E-02 | 7.42E-03 | 8.14E-03 | | 1.58E-02 | 3.00E-01 | YES |
| $PM_{10}$ | 24-hr | 3 | 1.58E-02 | 7.42E-03 | 8.14E-03 | | 1.58E-02 | 3.00E-01 | YES |
| $PM_{10}$ | Annual | 1 | 4.57E-04 | 2.63E-04 | 3.51E-04 | | 4.57E-04 | 2.00E-01 | YES |
| $PM_{10}$ | Annual | 2 | 4.57E-04 | 2.63E-04 | 3.51E-04 | | 4.57E-04 | 2.00E-01 | YES |
| $PM_{10}$ | Annual | 3 | 4.57E-04 | 2.63E-04 | 3.51E-04 | | 4.57E-04 | 2.00E-01 | YES |
| $PM_{2.5}$ | 24-hr | 1 | 1.58E-02 | 7.42E-03 | 8.14E-03 | 8.53E-02 | 1.01E-01 | 2.70E-01 | YES |
| $PM_{2.5}$ | 24-hr | 2 | 1.58E-02 | 7.42E-03 | 8.14E-03 | 8.53E-02 | 1.01E-01 | 2.70E-01 | YES |
| $PM_{2.5}$ | 24-hr | 3 | 1.58E-02 | 7.42E-03 | 8.14E-03 | 8.53E-02 | 1.01E-01 | 2.70E-01 | YES |
| $PM_{2.5}$ | Annual | 1 | 4.57E-04 | 2.63E-04 | 3.51E-04 | 1.89E-03 | 2.35E-03 | 3.00E-02 | YES |
| $PM_{2.5}$ | Annual | 2 | 4.57E-04 | 2.63E-04 | 3.51E-04 | 1.89E-03 | 2.35E-03 | 3.00E-02 | YES |
| $PM_{2.5}$ | Annual | 3 | 4.57E-04 | 2.63E-04 | 3.51E-04 | 1.89E-03 | 2.35E-03 | 3.00E-02 | YES |
| $SO_2$ | 3-hr | 1 | 7.87E-01 | 9.63E-01 | 6.55E-01 | | 9.63E-01 | 1.00E+00 | YES |
| $SO_2$ | 3-hr | 2 | 8.27E-01 | 9.65E-01 | 6.57E-01 | | 9.65E-01 | 1.00E+00 | YES |
| $SO_2$ | 3-hr | 3 | 8.55E-01 | 9.54E-01 | 6.76E-01 | | 9.54E-01 | 1.00E+00 | YES |
| $SO_2$ | 24-hr | 1 | 1.95E-01 | 1.84E-01 | 1.02E-01 | | 1.95E-01 | 2.00E-01 | YES |
| $SO_2$ | 24-hr | 2 | 1.82E-01 | 1.90E-01 | 1.06E-01 | | 1.90E-01 | 2.00E-01 | YES |
| $SO_2$ | 24-hr | 3 | 1.79E-01 | 1.81E-01 | 1.05E-01 | | 1.81E-01 | 2.00E-01 | YES |
| $SO_2$ | Annual | 1 | 2.22E-03 | 1.50E-03 | 1.97E-03 | | 2.22E-03 | 1.00E-01 | YES |
| $SO_2$ | Annual | 2 | 2.22E-03 | 1.50E-03 | 1.97E-03 | | 2.22E-03 | 1.00E-01 | YES |
| $SO_2$ | Annual | 3 | 2.22E-03 | 1.50E-03 | 1.97E-03 | | 2.22E-03 | 1.00E-01 | YES |

## Table 10-2. Guadalupe Mountains Class I SIL Results (μg/m³)

| Pollutant | Averaging Period | Scenario | 2018 | 2019 | 2020 | Secondary PM2.5 | Max | SIL | <SIL? |
|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ | Annual | 1 | 1.98E-04 | 1.68E-04 | 1.24E-04 | | 1.98E-04 | 1.00E-01 | YES |
| $NO_2$ | Annual | 2 | 1.98E-04 | 1.68E-04 | 1.24E-04 | | 1.98E-04 | 1.00E-01 | YES |
| $NO_2$ | Annual | 3 | 1.98E-04 | 1.68E-04 | 1.24E-04 | | 1.98E-04 | 1.00E-01 | YES |
| $PM_{10}$ | 24-hr | 1 | 6.02E-03 | 3.16E-03 | 3.34E-03 | | 6.02E-03 | 3.00E-01 | YES |
| $PM_{10}$ | 24-hr | 2 | 6.02E-03 | 3.16E-03 | 3.34E-03 | | 6.02E-03 | 3.00E-01 | YES |
| $PM_{10}$ | 24-hr | 3 | 6.02E-03 | 3.16E-03 | 3.34E-03 | | 6.02E-03 | 3.00E-01 | YES |
| $PM_{10}$ | Annual | 1 | 1.66E-04 | 1.08E-04 | 1.17E-04 | | 1.66E-04 | 2.00E-01 | YES |
| $PM_{10}$ | Annual | 2 | 1.66E-04 | 1.08E-04 | 1.17E-04 | | 1.66E-04 | 2.00E-01 | YES |
| $PM_{10}$ | Annual | 3 | 1.66E-04 | 1.08E-04 | 1.17E-04 | | 1.66E-04 | 2.00E-01 | YES |
| $PM_{2.5}$ | 24-hr | 1 | 6.02E-03 | 3.16E-03 | 3.34E-03 | 8.53E-02 | 9.14E-02 | 2.70E-01 | YES |
| $PM_{2.5}$ | 24-hr | 2 | 6.02E-03 | 3.16E-03 | 3.34E-03 | 8.53E-02 | 9.14E-02 | 2.70E-01 | YES |
| $PM_{2.5}$ | 24-hr | 3 | 6.02E-03 | 3.16E-03 | 3.34E-03 | 8.53E-02 | 9.14E-02 | 2.70E-01 | YES |
| $PM_{2.5}$ | Annual | 1 | 1.66E-04 | 1.08E-04 | 1.17E-04 | 1.89E-03 | 2.06E-03 | 3.00E-02 | YES |
| $PM_{2.5}$ | Annual | 2 | 1.66E-04 | 1.08E-04 | 1.17E-04 | 1.89E-03 | 2.06E-03 | 3.00E-02 | YES |
| $PM_{2.5}$ | Annual | 3 | 1.66E-04 | 1.08E-04 | 1.17E-04 | 1.89E-03 | 2.06E-03 | 3.00E-02 | YES |
| $SO_2$ | 3-hr | 1 | 3.67E-01 | 3.55E-01 | 2.00E-01 | | 3.67E-01 | 1.00E+00 | YES |
| $SO_2$ | 3-hr | 2 | 3.73E-01 | 4.02E-01 | 2.13E-01 | | 4.02E-01 | 1.00E+00 | YES |
| $SO_2$ | 3-hr | 3 | 3.71E-01 | 4.22E-01 | 2.26E-01 | | 4.22E-01 | 1.00E+00 | YES |
| $SO_2$ | 24-hr | 1 | 6.08E-02 | 7.95E-02 | 1.02E-01 | | 1.02E-01 | 2.00E-01 | YES |
| $SO_2$ | 24-hr | 2 | 5.87E-02 | 9.46E-02 | 9.79E-02 | | 9.79E-02 | 2.00E-01 | YES |
| $SO_2$ | 24-hr | 3 | 5.50E-02 | 9.85E-02 | 9.48E-02 | | 9.85E-02 | 2.00E-01 | YES |
| $SO_2$ | Annual | 1 | 7.43E-04 | 6.14E-04 | 6.41E-04 | | 7.43E-04 | 1.00E-01 | YES |
| $SO_2$ | Annual | 2 | 7.43E-04 | 6.14E-04 | 6.41E-04 | | 7.43E-04 | 1.00E-01 | YES |
| $SO_2$ | Annual | 3 | 7.43E-04 | 6.14E-04 | 6.41E-04 | | 7.43E-04 | 1.00E-01 | YES |

## Table 10-3. Salt Creek Wilderness Class I SIL Results (μg/m³)

| Pollutant | Averaging Period | Scenario | 2018 | 2019 | 2020 | Secondary PM2.5 | Max | SIL | <SIL? |
|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ | Annual | 1 | 6.27E-04 | 5.64E-04 | 6.56E-04 | | 6.56E-04 | 1.00E-01 | YES |
| $NO_2$ | Annual | 2 | 6.27E-04 | 5.64E-04 | 6.57E-04 | | 6.57E-04 | 1.00E-01 | YES |
| $NO_2$ | Annual | 3 | 6.26E-04 | 5.64E-04 | 6.56E-04 | | 6.56E-04 | 1.00E-01 | YES |
| $PM_{10}$ | 24-hr | 1 | 3.66E-03 | 4.02E-03 | 5.86E-03 | | 5.86E-03 | 3.00E-01 | YES |
| $PM_{10}$ | 24-hr | 2 | 3.66E-03 | 4.02E-03 | 5.86E-03 | | 5.86E-03 | 3.00E-01 | YES |
| $PM_{10}$ | 24-hr | 3 | 3.66E-03 | 4.02E-03 | 5.86E-03 | | 5.86E-03 | 3.00E-01 | YES |
| $PM_{10}$ | Annual | 1 | 3.83E-04 | 3.07E-04 | 3.21E-04 | | 3.83E-04 | 2.00E-01 | YES |
| $PM_{10}$ | Annual | 2 | 3.83E-04 | 3.07E-04 | 3.21E-04 | | 3.83E-04 | 2.00E-01 | YES |
| $PM_{10}$ | Annual | 3 | 3.83E-04 | 3.07E-04 | 3.21E-04 | | 3.83E-04 | 2.00E-01 | YES |
| $PM_{2.5}$ | 24-hr | 1 | 3.66E-03 | 4.02E-03 | 5.86E-03 | 8.53E-02 | 9.12E-02 | 2.70E-01 | YES |
| $PM_{2.5}$ | 24-hr | 2 | 3.66E-03 | 4.02E-03 | 5.86E-03 | 8.53E-02 | 9.12E-02 | 2.70E-01 | YES |
| $PM_{2.5}$ | 24-hr | 3 | 3.66E-03 | 4.02E-03 | 5.86E-03 | 8.53E-02 | 9.12E-02 | 2.70E-01 | YES |
| $PM_{2.5}$ | Annual | 1 | 3.83E-04 | 3.07E-04 | 3.21E-04 | 1.89E-03 | 2.28E-03 | 3.00E-02 | YES |
| $PM_{2.5}$ | Annual | 2 | 3.83E-04 | 3.07E-04 | 3.21E-04 | 1.89E-03 | 2.28E-03 | 3.00E-02 | YES |
| $PM_{2.5}$ | Annual | 3 | 3.83E-04 | 3.07E-04 | 3.21E-04 | 1.89E-03 | 2.28E-03 | 3.00E-02 | YES |
| $SO_2$ | 3-hr | 1 | 3.75E-01 | 5.04E-01 | 2.22E-01 | | 5.04E-01 | 1.00E+00 | YES |
| $SO_2$ | 3-hr | 2 | 3.27E-01 | 4.98E-01 | 2.20E-01 | | 4.98E-01 | 1.00E+00 | YES |
| $SO_2$ | 3-hr | 3 | 3.20E-01 | 4.87E-01 | 2.22E-01 | | 4.87E-01 | 1.00E+00 | YES |
| $SO_2$ | 24-hr | 1 | 1.04E-01 | 1.27E-01 | 1.08E-01 | | 1.27E-01 | 2.00E-01 | YES |
| $SO_2$ | 24-hr | 2 | 9.76E-02 | 1.22E-01 | 1.04E-01 | | 1.22E-01 | 2.00E-01 | YES |
| $SO_2$ | 24-hr | 3 | 9.57E-02 | 1.20E-01 | 1.01E-01 | | 1.20E-01 | 2.00E-01 | YES |
| $SO_2$ | Annual | 1 | 1.92E-03 | 1.74E-03 | 1.94E-03 | | 1.94E-03 | 1.00E-01 | YES |
| $SO_2$ | Annual | 2 | 1.92E-03 | 1.74E-03 | 1.94E-03 | | 1.94E-03 | 1.00E-01 | YES |
| $SO_2$ | Annual | 3 | 1.92E-03 | 1.74E-03 | 1.94E-03 | | 1.94E-03 | 1.00E-01 | YES |

## Table 10-4. White Mountain Class I SIL Results (μg/m³)

| Pollutant | Averaging Period | Scenario | 2018 | 2019 | 2020 | Secondary PM2.5 | Max | SIL | <SIL? |
|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ | Annual | 1 | 2.50E-05 | 2.87E-05 | 2.18E-05 | | 2.87E-05 | 1.00E-01 | YES |
| $NO_2$ | Annual | 2 | 2.50E-05 | 2.87E-05 | 2.17E-05 | | 2.87E-05 | 1.00E-01 | YES |
| $NO_2$ | Annual | 3 | 2.50E-05 | 2.87E-05 | 2.18E-05 | | 2.87E-05 | 1.00E-01 | YES |
| $PM_{10}$ | 24-hr | 1 | 2.47E-03 | 8.47E-04 | 8.16E-04 | | 2.47E-03 | 3.00E-01 | YES |
| $PM_{10}$ | 24-hr | 2 | 2.47E-03 | 8.47E-04 | 8.16E-04 | | 2.47E-03 | 3.00E-01 | YES |
| $PM_{10}$ | 24-hr | 3 | 2.47E-03 | 8.47E-04 | 8.16E-04 | | 2.47E-03 | 3.00E-01 | YES |
| $PM_{10}$ | Annual | 1 | 5.33E-05 | 3.32E-05 | 2.90E-05 | | 5.33E-05 | 2.00E-01 | YES |
| $PM_{10}$ | Annual | 2 | 5.33E-05 | 3.32E-05 | 2.90E-05 | | 5.33E-05 | 2.00E-01 | YES |
| $PM_{10}$ | Annual | 3 | 5.33E-05 | 3.32E-05 | 2.90E-05 | | 5.33E-05 | 2.00E-01 | YES |
| $PM_{2.5}$ | 24-hr | 1 | 2.47E-03 | 8.47E-04 | 8.16E-04 | 8.53E-02 | 8.62E-02 | 2.70E-01 | YES |
| $PM_{2.5}$ | 24-hr | 2 | 2.47E-03 | 8.47E-04 | 8.16E-04 | 8.53E-02 | 8.62E-02 | 2.70E-01 | YES |
| $PM_{2.5}$ | 24-hr | 3 | 2.47E-03 | 8.47E-04 | 8.16E-04 | 8.53E-02 | 8.62E-02 | 2.70E-01 | YES |
| $PM_{2.5}$ | Annual | 1 | 5.33E-05 | 3.32E-05 | 2.90E-05 | 1.89E-03 | 1.95E-03 | 3.00E-02 | YES |
| $PM_{2.5}$ | Annual | 2 | 5.33E-05 | 3.32E-05 | 2.90E-05 | 1.89E-03 | 1.95E-03 | 3.00E-02 | YES |
| $PM_{2.5}$ | Annual | 3 | 5.33E-05 | 3.32E-05 | 2.90E-05 | 1.89E-03 | 1.95E-03 | 3.00E-02 | YES |
| $SO_2$ | 3-hr | 1 | 1.55E-01 | 6.29E-02 | 1.37E-01 | | 1.55E-01 | 1.00E+00 | YES |
| $SO_2$ | 3-hr | 2 | 1.59E-01 | 6.65E-02 | 1.33E-01 | | 1.59E-01 | 1.00E+00 | YES |
| $SO_2$ | 3-hr | 3 | 1.59E-01 | 6.42E-02 | 1.28E-01 | | 1.59E-01 | 1.00E+00 | YES |
| $SO_2$ | 24-hr | 1 | 2.98E-02 | 2.05E-02 | 1.94E-02 | | 2.98E-02 | 2.00E-01 | YES |
| $SO_2$ | 24-hr | 2 | 2.79E-02 | 2.01E-02 | 2.04E-02 | | 2.79E-02 | 2.00E-01 | YES |
| $SO_2$ | 24-hr | 3 | 2.72E-02 | 1.97E-02 | 1.77E-02 | | 2.72E-02 | 2.00E-01 | YES |
| $SO_2$ | Annual | 1 | 1.87E-04 | 1.53E-04 | 1.43E-04 | | 1.87E-04 | 1.00E-01 | YES |
| $SO_2$ | Annual | 2 | 1.87E-04 | 1.53E-04 | 1.43E-04 | | 1.87E-04 | 1.00E-01 | YES |
| $SO_2$ | Annual | 3 | 1.87E-04 | 1.53E-04 | 1.43E-04 | | 1.87E-04 | 1.00E-01 | YES |

**Table 10-5. Big Bend Class I SIL Results (μg/m³)**

| Pollutant | Averaging Period | Scenario | 2018 | 2019 | 2020 | Secondary PM2.5 | Max | SIL | <SIL? |
|---|---|---|---|---|---|---|---|---|---|
| $NO_2$ | Annual | 1 | 1.15E-05 | 1.21E-05 | 1.64E-05 | | 1.64E-05 | 1.00E-01 | YES |
| $NO_2$ | Annual | 2 | 1.15E-05 | 1.21E-05 | 1.64E-05 | | 1.64E-05 | 1.00E-01 | YES |
| $NO_2$ | Annual | 3 | 1.15E-05 | 1.21E-05 | 1.64E-05 | | 1.64E-05 | 1.00E-01 | YES |
| $PM_{10}$ | 24-hr | 1 | 7.88E-04 | 5.55E-04 | 8.12E-04 | | 8.12E-04 | 3.00E-01 | YES |
| $PM_{10}$ | 24-hr | 2 | 7.88E-04 | 5.55E-04 | 8.12E-04 | | 8.12E-04 | 3.00E-01 | YES |
| $PM_{10}$ | 24-hr | 3 | 7.88E-04 | 5.55E-04 | 8.12E-04 | | 8.12E-04 | 3.00E-01 | YES |
| $PM_{10}$ | Annual | 1 | 1.92E-05 | 1.54E-05 | 2.04E-05 | | 2.04E-05 | 2.00E-01 | YES |
| $PM_{10}$ | Annual | 2 | 1.92E-05 | 1.54E-05 | 2.04E-05 | | 2.04E-05 | 2.00E-01 | YES |
| $PM_{10}$ | Annual | 3 | 1.92E-05 | 1.54E-05 | 2.04E-05 | | 2.04E-05 | 2.00E-01 | YES |
| $PM_{2.5}$ | 24-hr | 1 | 7.88E-04 | 5.55E-04 | 8.12E-04 | 8.53E-02 | 8.61E-02 | 2.70E-01 | YES |
| $PM_{2.5}$ | 24-hr | 2 | 7.88E-04 | 5.55E-04 | 8.12E-04 | 8.53E-02 | 8.61E-02 | 2.70E-01 | YES |
| $PM_{2.5}$ | 24-hr | 3 | 7.88E-04 | 5.55E-04 | 8.12E-04 | 8.53E-02 | 8.61E-02 | 2.70E-01 | YES |
| $PM_{2.5}$ | Annual | 1 | 1.92E-05 | 1.54E-05 | 2.04E-05 | 1.89E-03 | 1.91E-03 | 5.00E-02 | YES |
| $PM_{2.5}$ | Annual | 2 | 1.92E-05 | 1.54E-05 | 2.04E-05 | 1.89E-03 | 1.91E-03 | 5.00E-02 | YES |
| $PM_{2.5}$ | Annual | 3 | 1.92E-05 | 1.54E-05 | 2.04E-05 | 1.89E-03 | 1.91E-03 | 5.00E-02 | YES |
| $SO_2$ | 3-hr | 1 | 1.03E-01 | 8.63E-02 | 1.21E-01 | | 1.21E-01 | 1.00E+00 | YES |
| $SO_2$ | 3-hr | 2 | 1.06E-01 | 8.78E-02 | 1.28E-01 | | 1.28E-01 | 1.00E+00 | YES |
| $SO_2$ | 3-hr | 3 | 1.00E-01 | 8.83E-02 | 1.27E-01 | | 1.27E-01 | 1.00E+00 | YES |
| $SO_2$ | 24-hr | 1 | 1.87E-02 | 2.10E-02 | 2.35E-02 | | 2.35E-02 | 2.00E-01 | YES |
| $SO_2$ | 24-hr | 2 | 1.87E-02 | 2.12E-02 | 2.31E-02 | | 2.31E-02 | 2.00E-01 | YES |
| $SO_2$ | 24-hr | 3 | 1.85E-02 | 2.11E-02 | 2.33E-02 | | 2.33E-02 | 2.00E-01 | YES |
| $SO_2$ | Annual | 1 | 7.95E-05 | 8.56E-05 | 1.02E-04 | | 1.02E-04 | 1.00E-01 | YES |
| $SO_2$ | Annual | 2 | 7.95E-05 | 8.56E-05 | 1.02E-04 | | 1.02E-04 | 1.00E-01 | YES |
| $SO_2$ | Annual | 3 | 7.95E-05 | 8.56E-05 | 1.02E-04 | | 1.02E-04 | 1.00E-01 | YES |

## 10.2 Class I AQRV Analyses

### 10.2.1 Deposition

Table 10-6 through Table 10-10 present the modeled impact of nitrogen and sulfur deposition resulting from the facility. As shown, the impacts are less than the established deposition analysis thresholds at the Class I areas.

## Table 10-6. Deposition Results for Big Bend

| Scenario | Class I Area | Year | N (kg/ha/yr) | S (kg/ha/yr) | Threshold (kg/ha/yr) | Below Threshold? |
|---|---|---|---|---|---|---|
| 1 | Big Bend | 2018 | 1.01E-05 | 4.53E-05 | 0.005 | YES |
| 2 | Big Bend | 2018 | 1.01E-05 | 4.53E-05 | 0.005 | YES |
| 3 | Big Bend | 2018 | 1.01E-05 | 4.53E-05 | 0.005 | YES |
| 1 | Big Bend | 2019 | 9.96E-06 | 2.92E-05 | 0.005 | YES |
| 2 | Big Bend | 2019 | 9.97E-06 | 2.92E-05 | 0.005 | YES |
| 3 | Big Bend | 2019 | 9.97E-06 | 2.92E-05 | 0.005 | YES |
| 1 | Big Bend | 2020 | 1.15E-05 | 3.13E-05 | 0.005 | YES |
| 2 | Big Bend | 2020 | 1.15E-05 | 3.13E-05 | 0.005 | YES |
| 3 | Big Bend | 2020 | 1.15E-05 | 3.13E-05 | 0.005 | YES |

* Note that output units in the summary section of the LST file is kg/ha/yr. CALPOST applies the following conversion. 1 (ug/m2/s2) = 315.56926 (kg/ha/yr).

## Table 10-7. Deposition Results for Carlsbad Caverns

| Scenario | Class I Area | Year | N (kg/ha/yr) | S (kg/ha/yr) | Threshold (kg/ha/yr) | Below Threshold? |
|---|---|---|---|---|---|---|
| 1 | Carlsbad Caverns | 2018 | 5.56E-04 | 1.99E-03 | 0.005 | YES |
| 2 | Carlsbad Caverns | 2018 | 5.57E-04 | 1.99E-03 | 0.005 | YES |
| 3 | Carlsbad Caverns | 2018 | 5.56E-04 | 1.99E-03 | 0.005 | YES |
| 1 | Carlsbad Caverns | 2019 | 1.39E-04 | 4.76E-04 | 0.005 | YES |
| 2 | Carlsbad Caverns | 2019 | 1.39E-04 | 4.76E-04 | 0.005 | YES |
| 3 | Carlsbad Caverns | 2019 | 1.39E-04 | 4.76E-04 | 0.005 | YES |
| 1 | Carlsbad Caverns | 2020 | 2.00E-04 | 6.91E-04 | 0.005 | YES |
| 2 | Carlsbad Caverns | 2020 | 2.00E-04 | 6.91E-04 | 0.005 | YES |
| 3 | Carlsbad Caverns | 2020 | 2.00E-04 | 6.91E-04 | 0.005 | YES |

* Note that output units in the summary section of the LST file is kg/ha/yr. CALPOST applies the following conversion. 1 (ug/m2/s2) = 315.56926 (kg/ha/yr).

## Table 10-8. Deposition Results for Guadalupe Mountains

| Scenario | Class I Area | Year | N (kg/ha/yr) | S (kg/ha/yr) | Threshold (kg/ha/yr) | Below Threshold? |
|---|---|---|---|---|---|---|
| 1 | Guadalupe Mt. | 2018 | 3.35E-04 | 1.08E-03 | 0.005 | YES |
| 2 | Guadalupe Mt. | 2018 | 3.36E-04 | 1.08E-03 | 0.005 | YES |
| 3 | Guadalupe Mt. | 2018 | 3.35E-04 | 1.08E-03 | 0.005 | YES |
| 1 | Guadalupe Mt. | 2019 | 1.31E-04 | 4.39E-04 | 0.005 | YES |
| 2 | Guadalupe Mt. | 2019 | 1.31E-04 | 4.39E-04 | 0.005 | YES |
| 3 | Guadalupe Mt. | 2019 | 1.31E-04 | 4.39E-04 | 0.005 | YES |
| 1 | Guadalupe Mt. | 2020 | 1.17E-04 | 3.75E-04 | 0.005 | YES |
| 2 | Guadalupe Mt. | 2020 | 1.17E-04 | 3.75E-04 | 0.005 | YES |
| 3 | Guadalupe Mt. | 2020 | 1.17E-04 | 3.75E-04 | 0.005 | YES |

* Note that output units in the summary section of the LST file is kg/ha/yr. CALPOST applies the following conversion. 1 (ug/m2/s2) = 315.56926 (kg/ha/yr).

## Table 10-9. Deposition Results for Salt Creek Wilderness

| Scenario | Class I Area | Year | N (kg/ha/yr) | S (kg/ha/yr) | Threshold (kg/ha/yr) | Below Threshold? |
|---|---|---|---|---|---|---|
| 1 | Salt Creek | 2018 | 3.64E-04 | 1.60E-03 | 0.005 | YES |
| 2 | Salt Creek | 2018 | 3.64E-04 | 1.60E-03 | 0.005 | YES |
| 3 | Salt Creek | 2018 | 3.64E-04 | 1.60E-03 | 0.005 | YES |
| 1 | Salt Creek | 2019 | 3.77E-04 | 1.40E-03 | 0.005 | YES |
| 2 | Salt Creek | 2019 | 3.77E-04 | 1.40E-03 | 0.005 | YES |
| 3 | Salt Creek | 2019 | 3.76E-04 | 1.40E-03 | 0.005 | YES |
| 1 | Salt Creek | 2020 | 1.95E-04 | 6.13E-04 | 0.005 | YES |
| 2 | Salt Creek | 2020 | 1.95E-04 | 6.13E-04 | 0.005 | YES |
| 3 | Salt Creek | 2020 | 1.95E-04 | 6.13E-04 | 0.005 | YES |

* Note that output units in the summary section of the LST file is kg/ha/yr. CALPOST applies the following conversion. 1 (ug/m2/s2) = 315.56926 (kg/ha/yr).

## Table 10-10. Deposition Results for White Mountain Wilderness

| Scenario | Class I Area | Year | N (kg/ha/yr) | S (kg/ha/yr) | Threshold (kg/ha/yr) | Below Threshold? |
|---|---|---|---|---|---|---|
| 1 | White Mt. | 2018 | 1.70E-04 | 4.46E-04 | 0.005 | YES |
| 2 | White Mt. | 2018 | 1.70E-04 | 4.46E-04 | 0.005 | YES |
| 3 | White Mt. | 2018 | 1.70E-04 | 4.46E-04 | 0.005 | YES |
| 1 | White Mt. | 2019 | 7.07E-05 | 1.76E-04 | 0.005 | YES |
| 2 | White Mt. | 2019 | 7.08E-05 | 1.76E-04 | 0.005 | YES |
| 3 | White Mt. | 2019 | 7.08E-05 | 1.76E-04 | 0.005 | YES |
| 1 | White Mt. | 2020 | 3.61E-05 | 8.92E-05 | 0.005 | YES |
| 2 | White Mt. | 2020 | 3.61E-05 | 8.92E-05 | 0.005 | YES |
| 3 | White Mt. | 2020 | 3.61E-05 | 8.92E-05 | 0.005 | YES |

* Note that output units in the summary section of the LST file is kg/ha/yr. CALPOST applies the following conversion. 1 (ug/m2/s2) = 315.56926 (kg/ha/yr).

## 10.3 Regional Haze

Table 10-11 through Table 10-15 present the results of the visibility impairment analysis that was conducted for the facility. A change in the extinction attributable to a single facility of 5% or less on a 24-hour average basis is generally acceptable of the FLM. The FLAG 2010 guidance establishes a metric for assessing whether a single facility causes or contributes to visibility impairment. This guidance establishes a 0.5 DV extinction change threshold for contribution and a 1.0 DV extinction change threshold for causation of visibility impairment. These thresholds were applied to the 98$^{th}$ percentile model result for an analysis that considers multiple years of meteorological data. In other words, application of the 98$^{th}$ percentile standard formalized the intensity, duration, and frequency aspects of modeled visibility impairment events by standardizing discretion left to the FLM on a case-by-case basis to exclude visibility impairment events that could be due to meteorological conditions or other naturally occurring phenomena that are not attributable to the emissions source. As shown, the impacts are less than the established change in DV thresholds at the Class I areas.

**Table 10-11. Regional Haze Results for Big Bend**

| Scenario | Class I Area | Year | Maximum Delta DV | 98%tile change in DV | # Days >0.5 | #Days>1 | Threshold | Below Threshold? |
|---|---|---|---|---|---|---|---|---|
| 1 | Big Bend | 2018 | 0.07 | 0.03 | 0 | 0 | 0.5 | Yes |
| 2 | Big Bend | 2018 | 0.072 | 0.03 | 0 | 0 | 0.5 | Yes |
| 3 | Big Bend | 2018 | 0.071 | 0.031 | 0 | 0 | 0.5 | Yes |
| 1 | Big Bend | 2019 | 0.092 | 0.041 | 0 | 0 | 0.5 | Yes |
| 2 | Big Bend | 2019 | 0.093 | 0.04 | 0 | 0 | 0.5 | Yes |
| 3 | Big Bend | 2019 | 0.093 | 0.04 | 0 | 0 | 0.5 | Yes |
| 1 | Big Bend | 2020 | 0.092 | 0.032 | 0 | 0 | 0.5 | Yes |
| 2 | Big Bend | 2020 | 0.092 | 0.032 | 0 | 0 | 0.5 | Yes |
| 3 | Big Bend | 2020 | 0.092 | 0.032 | 0 | 0 | 0.5 | Yes |

**Table 10-12. Regional Haze Results for Carlsbad Caverns**

| Scenario | Class I Area | Year | Maximum Delta DV | 98%tile change in DV | # Days >0.5 | #Days>1 | Threshold | Below Threshold? |
|---|---|---|---|---|---|---|---|---|
| 1 | Carlsbad Caverns | 2018 | 1.079 | 0.243 | 1 | 1 | 0.5 | Yes |
| 2 | Carlsbad Caverns | 2018 | 1.074 | 0.243 | 1 | 1 | 0.5 | Yes |
| 3 | Carlsbad Caverns | 2018 | 1.076 | 0.243 | 1 | 1 | 0.5 | Yes |
| 1 | Carlsbad Caverns | 2019 | 0.83 | 0.216 | 2 | 0 | 0.5 | Yes |
| 2 | Carlsbad Caverns | 2019 | 0.826 | 0.215 | 2 | 0 | 0.5 | Yes |
| 3 | Carlsbad Caverns | 2019 | 0.828 | 0.215 | 2 | 0 | 0.5 | Yes |
| 1 | Carlsbad Caverns | 2020 | 0.221 | 0.147 | 0 | 0 | 0.5 | Yes |
| 2 | Carlsbad Caverns | 2020 | 0.224 | 0.145 | 0 | 0 | 0.5 | Yes |
| 3 | Carlsbad Caverns | 2020 | 0.226 | 0.144 | 0 | 0 | 0.5 | Yes |

**Table 10-13. Regional Haze Results for Guadalupe Mountains**

| Scenario | Class I Area | Year | Maximum Delta DV | 98%tile change in DV | # Days >0.5 | #Days>1 | Threshold | Below Threshold? |
|---|---|---|---|---|---|---|---|---|
| 1 | Guadalupe Mt. | 2018 | 0.634 | 0.166 | 1 | 0 | 0.5 | Yes |
| 2 | Guadalupe Mt. | 2018 | 0.631 | 0.162 | 1 | 0 | 0.5 | Yes |
| 3 | Guadalupe Mt. | 2018 | 0.632 | 0.16 | 1 | 0 | 0.5 | Yes |
| 1 | Guadalupe Mt. | 2019 | 0.84 | 0.128 | 1 | 0 | 0.5 | Yes |
| 2 | Guadalupe Mt. | 2019 | 0.835 | 0.13 | 1 | 0 | 0.5 | Yes |
| 3 | Guadalupe Mt. | 2019 | 0.836 | 0.131 | 1 | 0 | 0.5 | Yes |
| 1 | Guadalupe Mt. | 2020 | 0.345 | 0.122 | 0 | 0 | 0.5 | Yes |
| 2 | Guadalupe Mt. | 2020 | 0.345 | 0.122 | 0 | 0 | 0.5 | Yes |
| 3 | Guadalupe Mt. | 2020 | 0.345 | 0.122 | 0 | 0 | 0.5 | Yes |

**Table 10-14. Regional Haze Results for Salt Creek Wilderness**

| Scenario | Class I Area | Year | Maximum Delta DV | 98%tile change in DV | # Days >0.5 | #Days>1 | Threshold | Below Threshold? |
|---|---|---|---|---|---|---|---|---|
| 1 | Salt Creek | 2018 | 0.368 | 0.117 | 0 | 0 | 0.5 | Yes |
| 2 | Salt Creek | 2018 | 0.37 | 0.113 | 0 | 0 | 0.5 | Yes |
| 3 | Salt Creek | 2018 | 0.371 | 0.114 | 0 | 0 | 0.5 | Yes |
| 1 | Salt Creek | 2019 | 0.261 | 0.124 | 0 | 0 | 0.5 | Yes |
| 2 | Salt Creek | 2019 | 0.26 | 0.109 | 0 | 0 | 0.5 | Yes |
| 3 | Salt Creek | 2019 | 0.259 | 0.107 | 0 | 0 | 0.5 | Yes |
| 1 | Salt Creek | 2020 | 0.271 | 0.11 | 0 | 0 | 0.5 | Yes |
| 2 | Salt Creek | 2020 | 0.264 | 0.109 | 0 | 0 | 0.5 | Yes |
| 3 | Salt Creek | 2020 | 0.264 | 0.109 | 0 | 0 | 0.5 | Yes |

**Table 10-15. Regional Haze Results for White Mountain Wilderness**

| Scenario | Class I Area | Year | Maximum Delta DV | 98%tile change in DV | # Days >0.5 | #Days>1 | Threshold | Below Threshold? |
|---|---|---|---|---|---|---|---|---|
| 1 | White Mountain | 2018 | 0.249 | 0.061 | 0 | 0 | 0.5 | Yes |
| 2 | White Mountain | 2018 | 0.246 | 0.061 | 0 | 0 | 0.5 | Yes |
| 3 | White Mountain | 2018 | 0.246 | 0.061 | 0 | 0 | 0.5 | Yes |
| 1 | White Mountain | 2019 | 0.122 | 0.037 | 0 | 0 | 0.5 | Yes |
| 2 | White Mountain | 2019 | 0.122 | 0.036 | 0 | 0 | 0.5 | Yes |
| 3 | White Mountain | 2019 | 0.122 | 0.036 | 0 | 0 | 0.5 | Yes |
| 1 | White Mountain | 2020 | 0.114 | 0.046 | 0 | 0 | 0.5 | Yes |
| 2 | White Mountain | 2020 | 0.113 | 0.046 | 0 | 0 | 0.5 | Yes |
| 3 | White Mountain | 2020 | 0.113 | 0.046 | 0 | 0 | 0.5 | Yes |

## 10.4 Class I $PM_{2.5}$ Secondary Impacts

In addition to the primary impacts for $PM_{2.5}$ shown in Tables 10-1 through 10-5, Targa also considered secondarily formed $PM_{2.5}$ from project emissions of $NO_x$ and $SO_2$. In this analysis, the project emissions increases are multiplied by the ratio of the modeled concentrations to the modeled emission rates for hypothetical sources to estimate project related secondary $PM_{2.5}$ concentrations. Since the Class I areas are more than 50 km distant, the distance-dependent data was obtained from the U.S. EPA's MERPs View Qlik website.[53] Table 10-16 presents the secondary $PM_{2.5}$ impacts expected at the nearest Class I area (Carlsbad

[53] www.epa.gov/scram/merps-view-qlik

Caverns). Targa conservatively assumed that the secondary $PM_{2.5}$ impacts expected at all other Class I areas would be equal to the impact at the nearest Class I area.

**Table 10-16. Expected Secondary $PM_{2.5}$ Impacts for Carlsbad Caverns**

| Averaging Period | Precursor | Modeled ER from Hypo. Source[a] (tpy) | Modeled Impact from Hypo. Source[a] ($\mu g/m^3$) | Net Emissions Increase (tpy) | Secondary $PM_{2.5}$ Project Impact ($\mu g/m^3$) |
|---|---|---|---|---|---|
| 24-hour | $NO_X$ | 500 | 0.0321 | 179.3 | **0.01152** |
| 24-hour | $SO_2$ | 500 | 0.0846 | 436.3 | **0.07381** |
| 24-hour | | | | **Total** | **0.08533** |
| Annual | $NO_X$ | 500 | 0.0014 | 179.3 | **0.00051** |
| Annual | $SO_2$ | 500 | 0.0016 | 436.3 | **0.00138** |
| Annual | | | | **Total** | **0.00189** |

c. Hypothetical source is a source located in either Otero County, New Mexico or Terry County, Texas from EPA's MERPs View Qlik website, based on the maximum modeled impact between the two locations at a distance of 80 km from the hypothetical source (approximate distance to the closest Class I area from the project location). Hypothetical source emission rate represents the closest value available in MERPs View Qlik to the source-wide PTE for NOX and SO2 for the project.

The values in Table 10-16 were then added to the primary $PM_{2.5}$ impacts provided in Tables 10-1 through 10-5. As discussed previously, Carlsbad Caverns is 80 km from the facility so the 80 km data were selected as the closest datapoint.

# Electronic Files

The file naming conventions and structure is the same for each of the three scenarios.

| SCENARIO | FOLDER | FILE or FOLDER | FILE or FOLDER | FILE | DESCRIPTION |
|---|---|---|---|---|---|
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_ANN.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_ANN.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_DAY.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_DAY.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_HR.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_HR.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_SIL_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_SIL_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_SIL_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_SIL_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_SIL_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2018_BB_SIL_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_ANN.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_ANN.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_DAY.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_DAY.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_HR.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_HR.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_SIL_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_SIL_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_SIL_DAY.CON | | | CALPUFF concentration output file |

| | | | | | |
|---|---|---|---|---|---|
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_SIL_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_SIL_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2019_BB_SIL_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_ANN.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_ANN.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_DAY.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_DAY.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_HR.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_HR.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_SIL_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_SIL_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_SIL_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_SIL_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_SIL_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | BigBend | CPTAR2020_BB_SIL_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | BigBend | CP_Targa_BB_2018_Ann.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | BigBend | CP_Targa_BB_2018_day.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | BigBend | CP_Targa_BB_2018_HRSO2SIL.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | BigBend | CP_Targa_BB_2018_SIL_Ann.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | BigBend | CP_Targa_BB_2018_SIL_day.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | BigBend | CP_Targa_BB_2019_Ann.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | BigBend | CP_Targa_BB_2019_day.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | BigBend | CP_Targa_BB_2019_HRSO2SIL.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | BigBend | CP_Targa_BB_2019_SIL_Ann.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | BigBend | CP_Targa_BB_2019_SIL_day.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | BigBend | CP_Targa_BB_2020_Ann.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | BigBend | CP_Targa_BB_2020_day.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | BigBend | CP_Targa_BB_2020_HRSO2SIL.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | BigBend | CP_Targa_BB_2020_SIL_Ann.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | BigBend | CP_Targa_BB_2020_SIL_day.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | BigBend | PU_Targa_BB_18DEP.INP | | | POSTUTIL input file |

| | | | | | |
|---|---|---|---|---|---|
| Scenario 1, 2, or 3 | BigBend | PU_Targa_BB_18VIS.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | BigBend | PU_Targa_BB_19DEP.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | BigBend | PU_Targa_BB_19VIS.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | BigBend | PU_Targa_BB_20DEP.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | BigBend | PU_Targa_BB_20VIS.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | BigBend | runCP18_Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runCP18_DAY.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runCP18_SIL_Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runCP18_SIL_day.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runCP18_SIL_hr.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runCP19.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runCP19_Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runCP19_DAY.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runCP19_SIL_Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runCP19_SIL_day.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runCP19_SIL_hr.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runCP20_Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runCP20_DAY.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runCP20_SIL_Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runCP20_SIL_day.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runCP20_SIL_hr.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runPU18_Dep.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runPU18_VIS.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runPU19_Dep.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runPU19_VIS.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runPU20_Dep.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | runPU20_VIS.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | BigBend | tar18_bb_dep.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | BigBend | tar18_bb_dep.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | BigBend | tar18_bb_vis.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | BigBend | tar18_bb_vis.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | BigBend | tar19_bb_dep.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | BigBend | tar19_bb_dep.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | BigBend | tar19_bb_vis.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | BigBend | tar19_bb_vis.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | BigBend | tar20_bb_dep.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | BigBend | tar20_bb_dep.lst | | | POSTUTIL list file |

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|---|---|---|---|---|---|
| Scenario 1, 2, or 3 | BigBend | tar20_bb_vis.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | BigBend | tar20_bb_vis.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | BigBend | Deposition | runPOST18NDEP_BB.bat | | CALPOST batch run file |
| Scenario 1, 2, or 3 | BigBend | Deposition | runPOST19NDEP_BB.bat | | CALPOST batch run file |
| Scenario 1, 2, or 3 | BigBend | Deposition | runPOST20NDEP_BB.bat | | CALPOST batch run file |
| Scenario 1, 2, or 3 | BigBend | Deposition | TAR18NDEP_BB.INP | | CALPOST deposition input file |
| Scenario 1, 2, or 3 | BigBend | Deposition | TAR18NDEP_BB_ANN.LST | | CALPOST deposition list file |
| Scenario 1, 2, or 3 | BigBend | Deposition | TAR18SDEP_BB.INP | | CALPOST deposition input file |
| Scenario 1, 2, or 3 | BigBend | Deposition | TAR18SDEP_BB_ANN.LST | | CALPOST deposition list file |
| Scenario 1, 2, or 3 | BigBend | Deposition | TAR19NDEP_BB.INP | | CALPOST deposition input file |
| Scenario 1, 2, or 3 | BigBend | Deposition | TAR19NDEP_BB_ANN.LST | | CALPOST deposition list file |
| Scenario 1, 2, or 3 | BigBend | Deposition | TAR19SDEP_BB.INP | | CALPOST deposition input file |
| Scenario 1, 2, or 3 | BigBend | Deposition | TAR19SDEP_BB_ANN.LST | | CALPOST deposition list file |
| Scenario 1, 2, or 3 | BigBend | Deposition | TAR20NDEP_BB.INP | | CALPOST deposition input file |
| Scenario 1, 2, or 3 | BigBend | Deposition | TAR20NDEP_BB_ANN.LST | | CALPOST deposition list file |
| Scenario 1, 2, or 3 | BigBend | Deposition | TAR20SDEP_BB.INP | | CALPOST deposition input file |
| Scenario 1, 2, or 3 | BigBend | Deposition | TAR20SDEP_BB_ANN.LST | | CALPOST deposition list file |
| Scenario 1, 2, or 3 | BigBend | SIL | runPOST18_BB.bat | | CALPOST batch run file |
| Scenario 1, 2, or 3 | BigBend | SIL | runPOST19_BB.bat | | CALPOST batch run file |
| Scenario 1, 2, or 3 | BigBend | SIL | runPOST20_BB.bat | | CALPOST batch run file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR18NO2_BB_Ann.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR18PM10_BB_Ann.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR18PM10_BB_day.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR18PM25_BB_Ann.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR18PM25_BB_day.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR18SO2_BB_3hr.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR18SO2_BB_Ann.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR18SO2_BB_day.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar18_no2_bb_sil_ann.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar18_pm10_bb_3hr.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar18_pm10_bb_sil_ann.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar18_pm10_bb_sil_day.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar18_pm25_bb_sil_ann.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar18_pm25_bb_sil_day.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar18_so2_bb_3hr.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar18_so2_bb_sil_ann.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar18_so2_bb_sil_day.lst | | CALPOST SIL list file |

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| Scenario 1, 2, or 3 | BigBend | SIL | TAR19NO2_BB_Ann.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR19PM10_BB_Ann.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR19PM10_BB_day.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR19PM25_BB_Ann.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR19PM25_BB_day.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR19SO2_BB_3hr.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR19SO2_BB_Ann.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR19SO2_BB_day.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar19_no2_bb_sil_ann.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar19_pm10_bb_sil_ann.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar19_pm10_bb_sil_day.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar19_pm25_bb_sil_ann.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar19_pm25_bb_sil_day.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar19_so2_bb_3hr.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar19_so2_bb_sil_ann.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar19_so2_bb_sil_day.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR20NO2_BB_Ann.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR20PM10_BB_Ann.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR20PM10_BB_day.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR20PM25_BB_Ann.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR20PM25_BB_day.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR20SO2_BB_3hr.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR20SO2_BB_Ann.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | TAR20SO2_BB_day.INP | | CALPOST SIL input file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar20_no2_bb_sil_ann.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar20_pm10_bb_sil_ann.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar20_pm10_bb_sil_day.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar20_pm25_bb_sil_ann.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar20_pm25_bb_sil_day.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar20_so2_bb_3hr.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar20_so2_bb_sil_ann.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | SIL | tar20_so2_bb_sil_day.lst | | CALPOST SIL list file |
| Scenario 1, 2, or 3 | BigBend | Visibility | runPOST18_BB.bat | | CALPOST batch run file |
| Scenario 1, 2, or 3 | BigBend | Visibility | runPOST19_BB.bat | | CALPOST batch run file |
| Scenario 1, 2, or 3 | BigBend | Visibility | runPOST20_BB.bat | | CALPOST batch run file |
| Scenario 1, 2, or 3 | BigBend | Visibility | TAR18VIS_BB.INP | | CALPOST visibility input file |
| Scenario 1, 2, or 3 | BigBend | Visibility | TAR18_BB_VIS.LST | | CALPOST visibility list file |

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| Scenario 1, 2, or 3 | BigBend | Visibility | TAR19VIS_BB.INP | | CALPOST visibility input file |
| Scenario 1, 2, or 3 | BigBend | Visibility | TAR19_BB_VIS.LST | | CALPOST visibility list file |
| Scenario 1, 2, or 3 | BigBend | Visibility | TAR20VIS_BB.INP | | CALPOST visibility input file |
| Scenario 1, 2, or 3 | BigBend | Visibility | TAR20_BB_VIS.LST | | CALPOST visibility list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_ANN.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_ANN.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_DAY.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_DAY.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_HR.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_HR.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_SIL_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_SIL_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_SIL_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_SIL_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_SIL_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2018_CB_GD_SIL_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_ANN.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_ANN.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_DAY.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_DAY.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_HR.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_HR.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_SIL_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_SIL_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_SIL_DAY.CON | | | CALPUFF concentration output file |

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| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_SIL_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_SIL_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2019_CB_GD_SIL_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_ANN.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_ANN.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_DAY.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_DAY.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_HR.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_HR.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_SIL_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_SIL_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_SIL_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_SIL_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_SIL_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CPTAR2020_CB_GD_SIL_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CP_Targa_CB_GD_2018_ANN.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CP_Targa_CB_GD_2018_DAY.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CP_Targa_CB_GD_2018_HRSO2SIL.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CP_Targa_CB_GD_2018_SIL_Ann.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CP_Targa_CB_GD_2018_SIL_DAY.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CP_Targa_CB_GD_2019_ANN.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CP_Targa_CB_GD_2019_DAY.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CP_Targa_CB_GD_2019_HRSO2SIL.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CP_Targa_CB_GD_2019_SIL_Ann.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CP_Targa_CB_GD_2019_SIL_DAY.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CP_Targa_CB_GD_2020_ANN.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CP_Targa_CB_GD_2020_DAY.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CP_Targa_CB_GD_2020_HRSO2SIL.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CP_Targa_CB_GD_2020_SIL_Ann.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | CP_Targa_CB_GD_2020_SIL_DAY.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | PU_Targa_CB_GD_18DEP.INP | | | POSTUTIL input file |

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| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | PU_Targa_CB_GD_18VIS.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | PU_Targa_CB_GD_19DEP.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | PU_Targa_CB_GD_19VIS.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | PU_Targa_CB_GD_20DEP.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | PU_Targa_CB_GD_20VIS.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runCP18Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runCP18Day.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runCP18_SIL_Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runCP18_SIL_day.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runCP18_SIL_hr.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runCP19Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runCP19Day.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runCP19_SIL_Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runCP19_SIL_day.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runCP19_SIL_hr.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runCP20Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runCP20Day.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runCP20_SIL_Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runCP20_SIL_day.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runCP20_SIL_hr.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runPU18_DEP.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runPU18_VIS.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runPU19_DEP.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runPU19_VIS.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runPU20_DEP.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | runPU20_VIS.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | tar18_cb_gd_dep.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | tar18_cb_gd_dep.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | tar18_cb_gd_vis.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | tar18_cb_gd_vis.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | tar19_cb_gd_dep.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | tar19_cb_gd_dep.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | tar19_cb_gd_vis.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | tar19_cb_gd_vis.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | tar20_cb_gd_dep.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | tar20_cb_gd_dep.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | tar20_cb_gd_vis.con | | | POSTUTIL concentration file |

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| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | tar20_cb_gd_vis.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Deposition | runPOST18NDEP_CARL.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Deposition | runPOST19NDEP_CARL.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Deposition | runPOST20NDEP_CARL.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Deposition | TAR18NDEP_CARL.INP | CALPOST deposition input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Deposition | TAR18NDEP_CB.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Deposition | TAR18SDEP_CARL.INP | CALPOST deposition input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Deposition | TAR18SDEP_CB.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Deposition | TAR19NDEP_CARL.INP | CALPOST deposition input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Deposition | TAR19NDEP_CB.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Deposition | TAR19SDEP_CARL.INP | CALPOST deposition input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Deposition | TAR19SDEP_CB.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Deposition | TAR20NDEP_CARL.INP | CALPOST deposition input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Deposition | TAR20NDEP_CB.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Deposition | TAR20SDEP_CARL.INP | CALPOST deposition input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Deposition | TAR20SDEP_CB.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | runPOST18_CB.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | runPOST19_CB.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | runPOST20_CB.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR18NO2_CARL_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR18PM10_CARL_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR18PM10_CARL_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR18PM25_CARL_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR18PM25_CARL_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR18SO2_CARL_3HR.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR18SO2_CARL_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR18SO2_CARL_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar18_no2_cb_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar18_pm10_cb_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar18_pm10_cb_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar18_pm25_cb_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar18_pm25_cb_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar18_so2_cb_3hr.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar18_so2_cb_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar18_so2_cb_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR19NO2_CARL_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR19PM10_CARL_Ann.INP | CALPOST SIL input file |

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| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR19PM10_CARL_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR19PM25_CARL_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR19PM25_CARL_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR19SO2_CARL_3HR.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR19SO2_CARL_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR19SO2_CARL_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar19_no2_cb_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar19_pm10_cb_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar19_pm10_cb_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar19_pm25_cb_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar19_pm25_cb_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar19_so2_cb_3hr.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar19_so2_cb_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar19_so2_cb_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR20NO2_CARL_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR20PM10_CARL_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR20PM10_CARL_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR20PM25_CARL_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR20PM25_CARL_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR20SO2_CARL_3HR.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR20SO2_CARL_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | TAR20SO2_CARL_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar20_no2_cb_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar20_pm10_cb_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar20_pm10_cb_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar20_pm25_cb_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar20_pm25_cb_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar20_so2_cb_3hr.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar20_so2_cb_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | SIL | tar20_so2_cb_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Visibility | runPOST18CARL.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Visibility | runPOST19CARL.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Visibility | runPOST20CARL.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Visibility | TAR18VIS_CARL.INP | CALPOST visibility input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Visibility | TAR18_CB_VIS.LST | CALPOST visibility list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Visibility | TAR19VIS_CARL.INP | CALPOST visibility input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Visibility | TAR19_CB_VIS.LST | CALPOST visibility list file |

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| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Visibility | TAR20VIS_CARL.INP | CALPOST visibility input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Carlsbad | Visibility | TAR20_CB_VIS.LST | CALPOST visibility list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Deposition | runPOST18NDEP_GUAD.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Deposition | runPOST19NDEP_GUAD.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Deposition | runPOST20NDEP_GUAD.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Deposition | TAR18NDEP_GD.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Deposition | TAR18NDEP_GUAD.INP | CALPOST deposition input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Deposition | TAR18SDEP_GD.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Deposition | TAR18SDEP_GUAD.INP | CALPOST deposition input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Deposition | TAR19NDEP_GD.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Deposition | TAR19NDEP_GUAD.INP | CALPOST deposition input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Deposition | TAR19SDEP_GD.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Deposition | TAR19SDEP_GUAD.INP | CALPOST deposition input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Deposition | TAR20NDEP_GD.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Deposition | TAR20NDEP_GUAD.INP | CALPOST deposition input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Deposition | TAR20SDEP_GD.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Deposition | TAR20SDEP_GUAD.INP | CALPOST deposition input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | runPOST18_GD.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | runPOST19_GD.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | runPOST20_GD.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR18NO2_GUAD_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR18PM10_GUAD_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR18PM10_GUAD_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR18PM25_GUAD_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR18PM25_GUAD_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR18SO2_GUAD_3HR.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR18SO2_GUAD_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR18SO2_GUAD_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar18_no2_gd_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar18_pm10_gd_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar18_pm10_gd_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar18_pm25_gd_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar18_pm25_gd_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar18_so2_gd_3hr.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar18_so2_gd_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar18_so2_gd_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR19NO2_GUAD_Ann.INP | CALPOST SIL input file |

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| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR19PM10_GUAD_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR19PM10_GUAD_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR19PM25_GUAD_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR19PM25_GUAD_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR19SO2_GUAD_3HR.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR19SO2_GUAD_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR19SO2_GUAD_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar19_no2_gd_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar19_pm10_gd_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar19_pm10_gd_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar19_pm25_gd_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar19_pm25_gd_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar19_so2_gd_3hr.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar19_so2_gd_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar19_so2_gd_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR20NO2_GUAD_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR20PM10_GUAD_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR20PM10_GUAD_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR20PM25_GUAD_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR20PM25_GUAD_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR20SO2_GUAD_3HR.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR20SO2_GUAD_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | TAR20SO2_GUAD_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar20_no2_gd_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar20_pm10_gd_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar20_pm10_gd_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar20_pm25_gd_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar20_pm25_gd_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar20_so2_gd_3hr.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar20_so2_gd_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | SIL | tar20_so2_gd_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Visibility | runPOST18GUAD.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Visibility | runPOST19GUAD.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Visibility | runPOST20GUAD.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Visibility | TAR18VIS_GUAD.INP | CALPOST visibility input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Visibility | TAR18_GD_VIS.LST | CALPOST visibility list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Visibility | TAR19VIS_GUAD.INP | CALPOST visibility input file |

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| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Visibility | TAR19_GD_VIS.LST | CALPOST visibility list file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Visibility | TAR20VIS_GUAD.INP | CALPOST visibility input file |
| Scenario 1, 2, or 3 | Carlsbad_Guadalupe | Guadalupe | Visibility | TAR20_GD_VIS.LST | CALPOST visibility list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_ANN.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_ANN.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_DAY.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_DAY.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_HR.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_HR.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_SIL_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_SIL_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_SIL_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_SIL_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_SIL_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2018_SC_WM_SIL_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_ANN.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_ANN.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_DAY.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_DAY.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_HR.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_HR.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_SIL_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_SIL_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_SIL_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_SIL_DAY.LST | | | CALPUFF list file |

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|---|---|---|---|---|---|
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_SIL_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2019_SC_WM_SIL_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_ANN.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_ANN.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_DAY.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_DAY.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_HR.DRY | | | CALPUFF dry deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_HR.WET | | | CALPUFF wet deposition output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_SIL_ANN.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_SIL_ANN.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_SIL_DAY.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_SIL_DAY.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_SIL_HR.CON | | | CALPUFF concentration output file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CPTAR2020_SC_WM_SIL_HR.LST | | | CALPUFF list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2018_ANN.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2018_DAY.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2018_HRSO2SIL.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2018_SIL_Ann.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2018_SIL_DAY.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2018_SIL_HR.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2019_ANN.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2019_DAY.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2019_HRSO2SIL.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2019_SIL_Ann.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2019_SIL_DAY.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2019_SIL_HR.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2020_ANN.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2020_DAY.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2020_HRSO2SIL.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2020_SIL_Ann.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2020_SIL_DAY.INP | | | CALPUFF input file |

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| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | CP_Targa_SC_WM_2020_SIL_HR.INP | | | CALPUFF input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | PU_Targa_SC_WM_18DEP.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | PU_Targa_SC_WM_18VIS.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | PU_Targa_SC_WM_19DEP.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | PU_Targa_SC_WM_19VIS.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | PU_Targa_SC_WM_20DEP.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | PU_Targa_SC_WM_20VIS.INP | | | POSTUTIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runCP18Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runCP18Day.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runCP18_SIL_Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runCP18_SIL_day.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runCP18_SIL_hr.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runCP19Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runCP19Day.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runCP19_SIL_Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runCP19_SIL_day.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runCP19_SIL_hr.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runCP20Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runCP20Day.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runCP20_SIL_Ann.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runCP20_SIL_day.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runCP20_SIL_hr.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runPU18_DEP.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runPU18_VIS.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runPU19_DEP.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runPU19_VIS.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runPU20_DEP.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | runPU20_VIS.bat | | | BATCH run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | tar18_sc_wm_dep.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | tar18_sc_wm_dep.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | tar18_sc_wm_vis.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | tar18_sc_wm_vis.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | tar19_sc_wm_dep.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | tar19_sc_wm_dep.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | tar19_sc_wm_vis.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | tar19_sc_wm_vis.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | tar20_sc_wm_dep.con | | | POSTUTIL concentration file |

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| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | tar20_sc_wm_dep.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | tar20_sc_wm_vis.con | | | POSTUTIL concentration file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | tar20_sc_wm_vis.lst | | | POSTUTIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Deposition | runPOST18NDEP_SALT.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Deposition | runPOST19NDEP_SALT.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Deposition | runPOST20NDEP_SALT.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Deposition | TAR18NDEP_SALT.inp | CALPOST deposition input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Deposition | TAR18NDEP_SC.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Deposition | TAR18SDEP_SALT.inp | CALPOST deposition input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Deposition | TAR18SDEP_SC.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Deposition | TAR19NDEP_SALT.inp | CALPOST deposition input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Deposition | TAR19NDEP_SC.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Deposition | TAR19SDEP_SALT.inp | CALPOST deposition input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Deposition | TAR19SDEP_SC.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Deposition | TAR20NDEP_SALT.inp | CALPOST deposition input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Deposition | TAR20NDEP_SC.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Deposition | TAR20SDEP_SALT.inp | CALPOST deposition input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Deposition | TAR20SDEP_SC.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | runPOST18_SC.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | runPOST19_SC.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | runPOST20_SC.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR18NO2_SALT_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR18PM10_SALT_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR18PM10_SALT_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR18PM25_SALT_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR18PM25_SALT_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR18SO2_SALT_3HR.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR18SO2_SALT_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR18SO2_SALT_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar18_no2_sc_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar18_pm10_sc_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar18_pm10_sc_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar18_pm25_sc_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar18_pm25_sc_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar18_so2_sc_3hr.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar18_so2_sc_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar18_so2_sc_day.lst | CALPOST SIL list file |

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| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR19NO2_SALT_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR19PM10_SALT_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR19PM10_SALT_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR19PM25_SALT_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR19PM25_SALT_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR19SO2_SALT_3HR.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR19SO2_SALT_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR19SO2_SALT_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar19_no2_sc_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar19_pm10_sc_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar19_pm10_sc_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar19_pm25_sc_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar19_pm25_sc_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar19_so2_sc_3hr.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar19_so2_sc_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar19_so2_sc_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR20NO2_SALT_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR20PM10_SALT_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR20PM10_SALT_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR20PM25_SALT_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR20PM25_SALT_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR20SO2_SALT_3HR.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR20SO2_SALT_Ann.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | TAR20SO2_SALT_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar20_no2_sc_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar20_pm10_sc_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar20_pm10_sc_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar20_pm25_sc_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar20_pm25_sc_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar20_so2_sc_3hr.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar20_so2_sc_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | SIL | tar20_so2_sc_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Visibility | runPOST18SALT.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Visibility | runPOST19SALT.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Visibility | runPOST20SALT.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Visibility | TAR18VIS_SALT.inp | CALPOST visibility input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Visibility | TAR18_SC_VIS.LST | CALPOST visibility list file |

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| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Visibility | TAR19VIS_SALT.inp | CALPOST visibility input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Visibility | TAR19_SC_VIS.LST | CALPOST visibility list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Visibility | TAR20VIS_SALT.inp | CALPOST visibility input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | SaltCreek | Visibility | TAR20_SC_VIS.LST | CALPOST visibility list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Deposition | runPOST18NDEP_WHITE.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Deposition | runPOST19NDEP_WHITE.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Deposition | runPOST20NDEP_WHITE.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Deposition | TAR18NDEP_WHITE.inp | CALPOST deposition input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Deposition | TAR18NDEP_WM.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Deposition | TAR18SDEP_WHITE.inp | CALPOST deposition input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Deposition | TAR18SDEP_WM.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Deposition | TAR19NDEP_WHITE.inp | CALPOST deposition input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Deposition | TAR19NDEP_WM.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Deposition | TAR19SDEP_WHITE.inp | CALPOST deposition input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Deposition | TAR19SDEP_WM.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Deposition | TAR20NDEP_WHITE.inp | CALPOST deposition input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Deposition | TAR20NDEP_WM.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Deposition | TAR20SDEP_WHITE.inp | CALPOST deposition input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Deposition | TAR20SDEP_WM.LST | CALPOST deposition list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | runPOST18_WM.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | runPOST19_WM.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | runPOST20_WM.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR18NO2_WHITE_ANN.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR18PM10_WHITE_ANN.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR18PM10_WHITE_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR18PM25_WHITE_ANN.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR18PM25_WHITE_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR18SO2_WHITE_3HR.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR18SO2_WHITE_ANN.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR18SO2_WHITE_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar18_no2_wm_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar18_pm10_wm_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar18_pm10_wm_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar18_pm25_wm_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar18_pm25_wm_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar18_so2_wm_3hr.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar18_so2_wm_ann.lst | CALPOST SIL list file |

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|---|---|---|---|---|---|
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar18_so2_wm_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR19NO2_WHITE_ANN.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR19PM10_WHITE_ANN.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR19PM10_WHITE_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR19PM25_WHITE_ANN.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR19PM25_WHITE_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR19SO2_WHITE_3HR.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR19SO2_WHITE_ANN.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR19SO2_WHITE_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar19_no2_wm_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar19_pm10_wm_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar19_pm10_wm_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar19_pm25_wm_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar19_pm25_wm_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar19_so2_wm_3hr.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar19_so2_wm_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar19_so2_wm_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR20NO2_WHITE_ANN.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR20PM10_WHITE_ANN.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR20PM10_WHITE_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR20PM25_WHITE_ANN.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR20PM25_WHITE_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR20SO2_WHITE_3HR.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR20SO2_WHITE_ANN.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | TAR20SO2_WHITE_DAY.INP | CALPOST SIL input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar20_no2_wm_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar20_pm10_wm_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar20_pm10_wm_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar20_pm25_wm_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar20_pm25_wm_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar20_so2_wm_3hr.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar20_so2_wm_ann.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | SIL | tar20_so2_wm_day.lst | CALPOST SIL list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Visibility | runPOST18White.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Visibility | runPOST19White.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Visibility | runPOST20White.bat | CALPOST batch run file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Visibility | TAR18VIS_White.inp | CALPOST visibility input file |

| | | | | | |
|---|---|---|---|---|---|
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Visibility | TAR18_WM_VIS.LST | CALPOST visibility list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Visibility | TAR19VIS_White.inp | CALPOST visibility input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Visibility | TAR19_WM_VIS.LST | CALPOST visibility list file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Visibility | TAR20VIS_White.inp | CALPOST visibility input file |
| Scenario 1, 2, or 3 | SaltCreek_WhiteMt | WhiteMt | Visibility | TAR20_WM_VIS.LST | CALPOST visibility list file |
| CALMET | 2018 or 2019 or 2020 | calmet-1.met | | | Calmet month 1 file |
| CALMET | 2018 or 2019 or 2020 | calmet-10.met | | | Calmet month 10 file |
| CALMET | 2018 or 2019 or 2020 | calmet-11.met | | | Calmet month 11 file |
| CALMET | 2018 or 2019 or 2020 | calmet-12.met | | | Calmet month 12 file |
| CALMET | 2018 or 2019 or 2020 | calmet-2.met | | | Calmet month 2 file |
| CALMET | 2018 or 2019 or 2020 | calmet-3.met | | | Calmet month 3 file |
| CALMET | 2018 or 2019 or 2020 | calmet-4.met | | | Calmet month 4 file |
| CALMET | 2018 or 2019 or 2020 | calmet-5.met | | | Calmet month 5 file |
| CALMET | 2018 or 2019 or 2020 | calmet-6.met | | | Calmet month 6 file |
| CALMET | 2018 or 2019 or 2020 | calmet-7.met | | | Calmet month 7 file |
| CALMET | 2018 or 2019 or 2020 | calmet-8.met | | | Calmet month 8 file |
| CALMET | 2018 or 2019 or 2020 | calmet-9.met | | | Calmet month 9 file |
| CALMET | 2018 or 2019 or 2020 | mmif | | | MMIF file |
| CALMET | 2018 or 2019 or 2020 | run18.sh | | | MMIF shell file |
| CALMET | 2018 or 2019 or 2020 | run | calmet.info.txt | | MMIF info file |
| CALMET | 2018 or 2019 or 2020 | run | domain.bln | | MMIF domain file |
| CALMET | 2018 or 2019 or 2020 | run | domain.bna | | MMIF domain file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-1.inp | | MMIF input file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-1.log | | MMIF log file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-10.inp | | MMIF input file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-10.log | | MMIF log file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-11.inp | | MMIF input file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-11.log | | MMIF log file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-12.inp | | MMIF input file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-12.log | | MMIF log file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-2.inp | | MMIF input file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-2.log | | MMIF log file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-3.inp | | MMIF input file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-3.log | | MMIF log file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-4.inp | | MMIF input file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-4.log | | MMIF log file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-5.inp | | MMIF input file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-5.log | | MMIF log file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-6.inp | | MMIF input file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-6.log | | MMIF log file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-7.inp | | MMIF input file |

| | | | | | |
|---|---|---|---|---|---|
| CALMET | 2018 or 2019 or 2020 | run | mmif-7.log | | MMIF log file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-8.inp | | MMIF input file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-8.log | | MMIF log file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-9.inp | | MMIF input file |
| CALMET | 2018 or 2019 or 2020 | run | mmif-9.log | | MMIF log file |
| CALMET | 2018 or 2019 or 2020 | run | qaplot.kml | | KML domain file |
| CALMET | 2018 or 2019 or 2020 | run | terrain.grd | | MMIF terrain file |
| CALMET | 2018 or 2019 or 2020 | run | terrain.lvl | | MMIF terrain file |
| MERPS | TGA-S-RH-C1-PM25-S1-24hr v00_2017.ami | | | | AERMOD PM2.5 secondary input file |
| MERPS | TGA-S-RH-C1-PM25-S1-24hr v00_2017.aml | | | | AERMOD PM2.5 secondary output file |
| MERPS | TGA-S-RH-C1-PM25-S1-24hr v00_2017.amz | | | | AERMOD PM2.5 secondary zip file |
| MERPS | TGA-S-RH-C1-PM25-S1-24hr v00_2018.ami | | | | AERMOD PM2.5 secondary input file |
| MERPS | TGA-S-RH-C1-PM25-S1-24hr v00_2018.aml | | | | AERMOD PM2.5 secondary output file |
| MERPS | TGA-S-RH-C1-PM25-S1-24hr v00_2018.amz | | | | AERMOD PM2.5 secondary zip file |
| MERPS | TGA-S-RH-C1-PM25-S1-24hr v00_2019.ami | | | | AERMOD PM2.5 secondary input file |
| MERPS | TGA-S-RH-C1-PM25-S1-24hr v00_2019.aml | | | | AERMOD PM2.5 secondary output file |
| MERPS | TGA-S-RH-C1-PM25-S1-24hr v00_2019.amz | | | | AERMOD PM2.5 secondary zip file |
| MERPS | TGA-S-RH-C1-PM25-S1-24hr v00_2020.ami | | | | AERMOD PM2.5 secondary input file |
| MERPS | TGA-S-RH-C1-PM25-S1-24hr v00_2020.aml | | | | AERMOD PM2.5 secondary output file |
| MERPS | TGA-S-RH-C1-PM25-S1-24hr v00_2020.amz | | | | AERMOD PM2.5 secondary zip file |
| MERPS | TGA-S-RH-C1-PM25-S1-24hr v00_2021.ami | | | | AERMOD PM2.5 secondary input file |
| MERPS | TGA-S-RH-C1-PM25-S1-24hr v00_2021.aml | | | | AERMOD PM2.5 secondary output file |
| MERPS | TGA-S-RH-C1-PM25-S1-24hr v00_2021.amz | | | | AERMOD PM2.5 secondary zip file |
| MERPS | TGA-S-RH-C1-PM25-S1-Ann v00_2017.ami | | | | AERMOD PM2.5 secondary input file |
| MERPS | TGA-S-RH-C1-PM25-S1-Ann v00_2017.aml | | | | AERMOD PM2.5 secondary output file |
| MERPS | TGA-S-RH-C1-PM25-S1-Ann v00_2017.amz | | | | AERMOD PM2.5 secondary zip file |
| MERPS | TGA-S-RH-C1-PM25-S1-Ann v00_2018.ami | | | | AERMOD PM2.5 secondary input file |
| MERPS | TGA-S-RH-C1-PM25-S1-Ann v00_2018.aml | | | | AERMOD PM2.5 secondary output file |
| MERPS | TGA-S-RH-C1-PM25-S1-Ann v00_2018.amz | | | | AERMOD PM2.5 secondary zip file |
| MERPS | TGA-S-RH-C1-PM25-S1-Ann v00_2019.ami | | | | AERMOD PM2.5 secondary input file |
| MERPS | TGA-S-RH-C1-PM25-S1-Ann v00_2019.aml | | | | AERMOD PM2.5 secondary output file |
| MERPS | TGA-S-RH-C1-PM25-S1-Ann v00_2019.amz | | | | AERMOD PM2.5 secondary zip file |
| MERPS | TGA-S-RH-C1-PM25-S1-Ann v00_2020.ami | | | | AERMOD PM2.5 secondary input file |
| MERPS | TGA-S-RH-C1-PM25-S1-Ann v00_2020.aml | | | | AERMOD PM2.5 secondary output file |
| MERPS | TGA-S-RH-C1-PM25-S1-Ann v00_2020.amz | | | | AERMOD PM2.5 secondary zip file |
| MERPS | TGA-S-RH-C1-PM25-S1-Ann v00_2021.ami | | | | AERMOD PM2.5 secondary input file |
| MERPS | TGA-S-RH-C1-PM25-S1-Ann v00_2021.aml | | | | AERMOD PM2.5 secondary output file |
| MERPS | TGA-S-RH-C1-PM25-S1-Ann v00_2021.amz | | | | AERMOD PM2.5 secondary zip file |

# APPENDIX A. MODELING PROTOCOL APPROVAL

## Jaimy Karacaoglu

**From:** Jaimy Karacaoglu
**Sent:** Thursday, March 5, 2026 7:50 PM
**To:** Jaimy Karacaoglu
**Subject:** FW: [EXTERNAL] RE: Red Hills Gas Plant

---

**From:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Sent:** Tuesday, January 27, 2026 4:07 PM
**To:** Andrea Sayles <Andrea.Sayles@trinityconsultants.com>
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

Andrea
The subject facility modeling protocol is approved. Please go ahead and model the facility.
Thank you.

Sufi A. Mustafa, Ph.D.
Manager Air Dispersion Modeling and Emission Inventory Section
New Mexico Environment Department's Air Quality Bureau
Office: (505) 629 6186
sufi.mustafa@state.nm.us
525 Camino de los Marquez
Suite 1
Santa Fe, New Mexico, 87505
https://www.env.nm.gov/air-quality/

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---

**From:** Andrea Sayles <Andrea.Sayles@trinityconsultants.com>
**Sent:** Monday, January 26, 2026 10:14 AM
**To:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Cc:** Bates, Charles J. <cbates@targaresources.com>
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

> You don't often get email from andrea.sayles@trinityconsultants.com. Learn why this is important

Hi Sufi,

Was this the last issue before protocol approval? We wanted to confirm the protocol is approved before moving forward with the final modeling. Let me know, thanks!

**Andrea Sayles**
Managing Consultant
M 217.971.5797

**From:** Andrea Sayles <Andrea.Sayles@trinityconsultants.com>
**Sent:** Wednesday, January 21, 2026 2:33 PM
**To:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

Thank you!

**Andrea Sayles**
Managing Consultant
M 217.971.5797

---

**From:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Sent:** Wednesday, January 21, 2026 10:41 AM
**To:** Andrea Sayles <Andrea.Sayles@trinityconsultants.com>
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

Andrea
Please include this justification in the modeling report (UA4).
Thank you.

Sufi A. Mustafa, Ph.D.
Manager Air Dispersion Modeling and Emission Inventory Section
New Mexico Environment Department's Air Quality Bureau
Office: (505) 629 6186
sufi.mustafa@state.nm.us
525 Camino de los Marquez
Suite 1
Santa Fe, New Mexico, 87505
https://www.env.nm.gov/air-quality/

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**From:** Andrea Sayles <Andrea.Sayles@trinityconsultants.com>
**Sent:** Wednesday, January 21, 2026 9:34 AM
**To:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Cc:** cbates@targaresources.com; Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Fong, Bryant, ENV <bryant.fong@env.nm.gov>; Rob Liles <RLiles@trinityconsultants.com>; Kuhn, Julia, ENV <Julia.Kuhn@env.nm.gov>; John Ke <JKe@trinityconsultants.com>
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

Hi Sufi,

I left you a voice message and wanted to follow up with an email. Can you let us know if we need to send you an updated protocol or if it is acceptable to include this information in the final modeling report? We are waiting for your response to proceed.

Thanks,

**Andrea Sayles**
Managing Consultant
M 217.971.5797

---

**From:** John Ke <JKe@trinityconsultants.com>
**Sent:** Wednesday, January 7, 2026 11:25 PM
**To:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Cc:** cbates@targaresources.com; Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Fong, Bryant, ENV <bryant.fong@env.nm.gov>; Andrea Sayles <Andrea.Sayles@trinityconsultants.com>; Rob Liles <RLiles@trinityconsultants.com>
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

Hi Sufi,

Thanks for the comments. Please see below regarding the justification for selecting the Otero County site for MERPs analysis.

EPA has released the "Guidance on the Development of Modeled Emission Rate for Precursors (MERPs) as a Tier 1 Demonstration Tool for Ozone and $PM_{2.5}$ under the PSD Permitting Program", and in this guidance, the EPA states that "source characteristics" and "chemical and physical environment near the project source" are criteria in determining an appropriate hypothetical source.

There are three hypothetical sources in New Mexico: Otero County, Roosevelt County, and McKinley County. EPA identifies all three sources in the Southwest Climate Zone, and for Otero County and McKinley County, the EPA guidance also indicates that the fractional urban coverage within 50 km of the two sources is at 0% These parameters are similar to the Red Hills facility.

At the facility, the average height of all the point sources is 17.75 m. The MERPs only provides two options, either a hypothetical source with a stack height of 10 m or 90 m. As the majority of stacks at the facility are closer to 10 m than 90 m, it is appropriate to select a hypothetical source with a stack height of 10 m. Both the Otero County site and the Roosevelt County site can represent a 10 m stack.

Based on our most recent PTE calculations, controlled NOx and SO2 emissions are below 500 tpy. Among the hypothetical sources in New Mexico with a stack height of 10 m, only the Otero County and McKinley County sources represent a hypothetical source with 500 tpy of emissions.

As the Otero County hypothetical site is the closest in proximity to the facility and the modeled impacts associated with 500 tpy of precursor emissions from a 10 m stack can represent the facility, Targa believes Otero County is the most appropriate source for the MERPs analysis. However, while we plan on stating in the protocol/report that Otero County would be the best hypothetical source, we are amenable to using the Terry County, TX hypothetical source for conservatism. Using Terry County is consistent with our call with you on 7/29/25.

Would you like to receive an updated protocol with this information included or is it more appropriate just to include this in our final modeling report? Please let us know, and don't hesitate to reach out if you have further questions on this information or any other matter.

Thanks,

**John Ke**
O 651.275.9900 x2406
M 651.390.7165

**From:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Sent:** Tuesday, January 6, 2026 1:42 PM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Fong, Bryant, ENV <bryant.fong@env.nm.gov>
**Cc:** John Ke <JKe@trinityconsultants.com>; cbates@targaresources.com
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

Jaimy
The modeling protocol you provided is very detailed and it seems acceptable. You had separately presented an approach to calculate effective flare height which is acceptable. You also suggested to use SO2 monitor data from Albuquerque for background concentrations and we have accepted it.
It appears to me that you have been in conversation with FLM regarding Class I modeling analyses. I hope analyses are provided to their expectation and satisfaction.
I have only one comment below:
The submitted modeling protocol discusses the criteria for the selection of a hypothetical emission source for MERP analyses. Please provide a justification based on the criteria why Otero county site is more appropriate than Roosevelt County site for MERP analyses.
Thank you.

Sufi A. Mustafa, Ph.D.
Manager Air Dispersion Modeling and Emission Inventory Section
New Mexico Environment Department's Air Quality Bureau
Office: (505) 629 6186
sufi.mustafa@state.nm.us
525 Camino de los Marquez
Suite 1
Santa Fe, New Mexico, 87505
https://www.env.nm.gov/air-quality/

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**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Monday, December 29, 2025 9:48 AM
**To:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>; Fong, Bryant, ENV <bryant.fong@env.nm.gov>
**Cc:** John Ke <JKe@trinityconsultants.com>; cbates@targaresources.com
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

Hi Sufi,

I am following up on the below. Are the comments on the protocol available for review?

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com

Connect with us: LinkedIn / YouTube / trinityconsultants.com (UPDATED WEBSITE!)

*View our capabilities in the Environmental Consulting, Built Environment, Life Sciences, and Water & Ecology markets.*

**Upcoming Events**
Jan 8 – Complimentary Webinar: 2026 Annual Compliance Reporting and Hot Topics in Wyoming – 11:30-1pm MT **FREE**
Jan 13 – Complimentary Webinar: 2026 Annual Compliance Reporting and Hot Topics in Montana – 11:30-1pm MT **FREE**
Jan 15 – Complimentary Webinar: 2026 Annual Compliance Reporting and Hot Topics in New Mexico – 11:30-1pm MT **FREE**
Jan 20 – Complimentary Webinar: 2026 Annual Compliance Reporting and Hot Topics in Colorado – 11:30-1pm MT **FREE**
Jan 22 – Complimentary Webinar: 2026 Annual Compliance Reporting and Hot Topics in Utah – 11:30-1pm MT **FREE**
Apr 8 – Air Quality Permitting in Utah – Salt Lake City, UT
Apr 22 – Air Quality Permitting in Colorado – Denver, CO
Apr 23 - Colorado Title V Permitting and Ozone NAA Workshop – Denver, CO
Apr 29 – Air Quality Permitting in Montana – Helena, MT

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**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Tuesday, December 23, 2025 12:44 PM
**To:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>; Fong, Bryant, ENV <bryant.fong@env.nm.gov>
**Cc:** John Ke <JKe@trinityconsultants.com>; cbates@targaresources.com
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

Hi Sufi,

I am following up on the below. Are the comments on the protocol available for review? We have concluded communication with the FLMs and will incorporate any correspondence, comments and updates into the protocol and analysis.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com

Connect with us: LinkedIn / YouTube / trinityconsultants.com (UPDATED WEBSITE!)

*View our capabilities in the Environmental Consulting, Built Environment, Life Sciences, and Water & Ecology markets.*

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Jan 15 – Complimentary Webinar: 2026 Annual Compliance Reporting and Hot Topics in New Mexico – 11:30-1pm MT **FREE**
Jan 20 – Complimentary Webinar: 2026 Annual Compliance Reporting and Hot Topics in Colorado – 11:30-1pm MT **FREE**
Jan 22 – Complimentary Webinar: 2026 Annual Compliance Reporting and Hot Topics in Utah – 11:30-1pm MT **FREE**
Apr 8 – Air Quality Permitting in Utah – Salt Lake City, UT
Apr 22 – Air Quality Permitting in Colorado – Denver, CO
Apr 23 - Colorado Title V Permitting and Ozone NAA Workshop – Denver, CO

**From:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Sent:** Thursday, December 18, 2025 2:07 PM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Fong, Bryant, ENV <bryant.fong@env.nm.gov>
**Cc:** John Ke <JKe@trinityconsultants.com>; cbates@targaresources.com
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

Jaimy
There are few comments on protocol that we discussed. I will compose comments today or tomorrow and send them to you.
Regarding Class I analysis, you sent me your email conversations with Don Shepperd. Did you conclude communications with FLMs. Please share any correspondence, comments or update in the modeling analyses protocol because of it.
Thank you.

Sufi A. Mustafa, Ph.D.
Manager Air Dispersion Modeling and Emission Inventory Section
New Mexico Environment Department's Air Quality Bureau
Office: (505) 629 6186
sufi.mustafa@state.nm.us
525 Camino de los Marquez
Suite 1
Santa Fe, New Mexico, 87505
https://www.env.nm.gov/air-quality/

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**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Monday, December 15, 2025 9:11 PM
**To:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>; Fong, Bryant, ENV <bryant.fong@env.nm.gov>
**Cc:** John Ke <JKe@trinityconsultants.com>; cbates@targaresources.com
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

Hi Sufi,

Thank you for providing confirmation! I know we also discussed additional comments from you and Erik regarding the protocol; are those available yet?

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com

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Jan 15 – Complimentary Webinar: 2026 Annual Compliance Reporting and Hot Topics in New Mexico – 11:30-1pm MT **FREE**
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Apr 22 – Air Quality Permitting in Colorado – Denver, CO
Apr 23 - Colorado Title V Permitting and Ozone NAA Workshop – Denver, CO
Apr 29 – Air Quality Permitting in Montana – Helena, MT

---

**From:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Sent:** Monday, December 15, 2025 4:40 PM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Fong, Bryant, ENV <bryant.fong@env.nm.gov>
**Cc:** John Ke <JKe@trinityconsultants.com>; cbates@targaresources.com
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

Jaimy
As we have discussed over the phone this approach for effective flare height and diameter is acceptable for the modeling analyses of the subject facility.
Thank you.

Sufi A. Mustafa, Ph.D.
Manager Air Dispersion Modeling and Emission Inventory Section
New Mexico Environment Department's Air Quality Bureau
Office: (505) 629 6186
sufi.mustafa@state.nm.us
525 Camino de los Marquez
Suite 1
Santa Fe, New Mexico, 87505
https://www.env.nm.gov/air-quality/

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**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Monday, November 10, 2025 12:49 PM
**To:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>; Fong, Bryant, ENV <bryant.fong@env.nm.gov>
**Cc:** John Ke <JKe@trinityconsultants.com>; cbates@targaresources.com
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

Hi Sufi,

Please find attached a memo describing our approach for using effective height for flares in AERMOD and the justification for using it as opposed to the physical stack height.

Please do not hesitate to reach out should you have any questions.

Thank you,

**Jaimy Karacaoglu**
Senior Consultant

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1999 Broadway, Suite 820 | Denver, Colorado 80202
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Oct 22 – Air Quality Permitting in Utah – Salt Lake City, UT
Oct 22 – Air Quality Permitting in Colorado – Denver, CO
Oct 23 – Air Dispersion Modeling for Managers in Colorado – Denver, CO

---

**From:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Sent:** Monday, October 20, 2025 1:14 PM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

Jaimy
I will not be available between 3:00 and 4:00 PM on Thursday. I prefer 1:00 PM.

Sufi A. Mustafa, Ph.D.
Manager Air Dispersion Modeling and Emission Inventory Section
New Mexico Environment Department's Air Quality Bureau
Office: (505) 629 6186
sufi.mustafa@state.nm.us
525 Camino de los Marquez
Suite 1
Santa Fe, New Mexico, 87505
https://www.env.nm.gov/air-quality/




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**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Monday, October 20, 2025 12:37 PM
**To:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Cc:** Adam Erenstein <AErenstein@trinityconsultants.com>; Bates, Charles J. <cbates@targaresources.com>
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

Hi Sufi,

Would any time before 12 pm MST or after 1 pm MST on Thursday, October 23, 2025 work for you? Let me know what works best for you and I can get an invite sent out.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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Oct 22 – Air Quality Permitting in Colorado – Denver, CO
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**From:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Sent:** Friday, October 17, 2025 10:09 AM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Cc:** Adam Erenstein <AErenstein@trinityconsultants.com>; Bates, Charles J. <cbates@targaresources.com>
**Subject:** RE: [EXTERNAL] RE: Red Hills Gas Plant

Jaimy
Wednesday or Thursday will be better days for me.

Sufi A. Mustafa, Ph.D.
Manager Air Dispersion Modeling and Emission Inventory Section
New Mexico Environment Department's Air Quality Bureau
Office: (505) 629 6186
sufi.mustafa@state.nm.us
525 Camino de los Marquez
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Santa Fe, New Mexico, 87505
https://www.env.nm.gov/air-quality/



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**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Thursday, October 16, 2025 10:08 AM
**To:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Cc:** Adam Erenstein <AErenstein@trinityconsultants.com>; Bates, Charles J. <cbates@targaresources.com>
**Subject:** [EXTERNAL] RE: Red Hills Gas Plant

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hi Sufi,

Just wanted to follow up on the below. Do you have any availability for a call on Tuesday, October 21st after 2:30 pm MST?

Let me know what would work best for you!

Thank you,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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Oct 22 – Air Quality Permitting in Utah – Salt Lake City, UT
Oct 22 – Air Quality Permitting in Colorado – Denver, CO
Oct 23 – Air Dispersion Modeling for Managers in Colorado – Denver, CO

**From:** Jaimy Karacaoglu
**Sent:** Friday, October 10, 2025 4:11 PM
**To:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Cc:** Adam Erenstein <AErenstein@trinityconsultants.com>; Bates, Charles J. <cbates@targaresources.com>
**Subject:** RE: Red Hills Gas Plant

Hi Sufi,

Thank you again for taking the time to speak with me. As we discussed, it's our understanding that you have not yet received a response from Erik regarding the items outlined below, nor any updates related to the modeling protocol. We appreciate that you've reached out to him to request either a response or an estimated timeline.

As noted, the modeling protocol approval is the final item we're awaiting before we can proceed with submitting the application.

Would you be available for a brief follow-up discussion with Charles and I on either Tuesday or Wednesday of next week? Please let us know what works best for your schedule.

Have a great holiday weekend!

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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---

**From:** Jaimy Karacaoglu
**Sent:** Friday, October 10, 2025 8:27 AM
**To:** 'Mustafa, Sufi A., ENV' <sufi.mustafa@env.nm.gov>
**Cc:** Adam Erenstein <AErenstein@trinityconsultants.com>; 'Bates, Charles J.' <cbates@targaresources.com>
**Subject:** RE: Red Hills Gas Plant

Hi Sufi,

I wanted to follow up regarding the below for the SO2 background and the Red Hills modeling protocol.

If it would be easier to discuss over the phone, please don't hesitate to give me a call at 410-903-0750.

Thank you,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com



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---

**From:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Sent:** Thursday, August 28, 2025 11:20 AM
**To:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Cc:** Adam Erenstein <AErenstein@trinityconsultants.com>; Bates, Charles J. <cbates@targaresources.com>
**Subject:** RE: Red Hills Gas Plant

Hi Sufi,

Thank you so much for taking my call this morning! As discussed, we wanted to see what your thoughts were on possibly using the Albuquerque monitor as the background for SO2. The background data is already complete and developed and we believe that it would be representative of non-oil and gas background sources that may be present in New Mexico. Since we are already modeling out to 20 km for SO2 sources, we believe that adding the background from Albuquerque would be appropriately conservative.

Additionally, as mentioned on the call, I will be out of the office from September 3, 2025 to September 19, 2025. Adam will be the Trinity point of contact during my absence. Should anything come up or should you have any questions regarding anything within the protocol, please reach out to him.

Thank you,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com

*Upcoming Out of Office: September 3, 2025 through September 18, 2025.*



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**From:** Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>
**Sent:** Friday, August 15, 2025 12:45 PM

**To:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Subject:** Red Hills Gas Plant

Jaime
I had another meeting with Erik Snyder and discussed SO2 background monitor. He is Suggesting using Gold Smith monitor data from Texas to be used. You may average up to four years 2021 to 2024 data. Please find in attachment an example Erik has sent me.
I will try to reach you on Monday to discuss.

Sufi A. Mustafa, Ph.D.
Manager Air Dispersion Modeling and Emission Inventory Section
New Mexico Environment Department's Air Quality Bureau
Office: (505) 629 6186
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# APPENDIX B. FLM CONSULTATION

## Jaimy Karacaoglu

**From:** Jaimy Karacaoglu
**Sent:** Thursday, December 18, 2025 4:01 PM
**To:** Shepherd, Don
**Cc:** Hedgepeth, McKenna, ENV; Salazer, Holly; Barna, Michael; Devore, Lisa M; 'Charles Bates'; Rob Liles; Sorkin, Jeff- FS; Mcneel, Pleasant - FS; Adam Erenstein; Mustafa, Sufi A., ENV; Allen, Tim
**Subject:** RE: [EXTERNAL] RE: Targa Red Hills flare emissions

Hi Don,

Thank you for your review of our air quality modeling protocol and for the questions you've provided throughout the process. I'm writing to provide a final status update and close the loop on protocol-related questions ahead of our application submittal.

The modeling protocol is in the closing stage of agency review, and we expect to receive final approval and comments from NMED and EPA within the next few days. After we receive that direction, we will proceed with submitting the permit application. The application will include an updated protocol that incorporates the items we have discussed with you previously as well as NMED and EPA's comments. Additionally, the application will contain the facility-wide emissions spreadsheet, which details all of our calculations for both steady state and SSM emissions and contains the calculations for Q values.

We expect the application package will provide the additional context and clarity needed on the topics raised during the protocol review by consolidating the final protocol, inputs, assumptions, and supporting documentation into a single, complete submittal. We will ensure you are provided with a copy at the time of submittal. Accordingly, we look forward to continuing to work with you once you have had a chance to review the complete application.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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Apr 22 – Air Quality Permitting in Colorado – Denver, CO
Apr 23 - Colorado Title V Permitting and Ozone NAA Workshop – Denver, CO
Apr 29 – Air Quality Permitting in Montana – Helena, MT

**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Tuesday, September 2, 2025 4:02 PM
**To:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Cc:** Hedgepeth, McKenna, ENV <mckenna.hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>; Mcneel, Pleasant - FS <pleasant.mcneel@usda.gov>; Adam Erenstein <AErenstein@trinityconsultants.com>; Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>; Allen, Tim <tim_allen@fws.gov>
**Subject:** Re: [EXTERNAL] RE: Targa Red Hills flare emissions

Hello Jaimy,

I have been unable to duplicate the 454.85 value you provided for Q and would appreciate it if you would send the spreadsheet(s) used to generate that value--thanks,

Don Shepherd
National Park Service
Air Resources Division

---

**From:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Sent:** Friday, August 29, 2025 12:47 PM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>
**Cc:** Hedgepeth, McKenna, ENV <mckenna.hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>; Mcneel, Pleasant - FS <pleasant.mcneel@usda.gov>; Adam Erenstein <AErenstein@trinityconsultants.com>; Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>; Allen, Tim <tim_allen@fws.gov>
**Subject:** RE: [EXTERNAL] RE: Targa Red Hills flare emissions

Hi Don,

Please see responses below in red.

Thanks for the feedback. I would appreciate it if you would show how you determined that "For the facility as a whole, when looking at only steady-state emissions, Q/d would be less than 10 for all Class I areas within 300 km."

The facility-wide steady state "Q" is 454.85; please see the attached example calculation. This calculation removes all instances of SSM, but retains steady state emissions that are present on a continuous basis. The Q/D results for each Class I area are reported below:

| Class I Area | D (km) | Q/D (max 24 hour) |
|---|---|---|
| Carlsbad | 79.80 | 5.70 |
| Guadalupe | 116.00 | 3.92 |
| Salt Creek | 170.60 | 2.67 |
| White Mountain | 242.57 | 1.88 |
| Big Bend | 279.75 | 1.63 |

I am trying to understand the Alternate Operating Scenarios (AOS) referenced in section 4.3 of the Application and Supplement:

For units with alternative operating scenarios occurring at the same emission point, such as the flares at the facility, the scenario with the maximum modeled impact will be used for the modeling demonstration. The alternative operating scenarios, which have lesser impact, will be detailed Section 15 of the PSD permit application package submittal.

For example, in Scenario 1, the Flare RH2-FL5100 has NOx emission rates of:
SSM 562.98 lb/hr
AOS SSM 3.64 lb/hr
Dehy AOS SSM 0.45 lb/hr

The Note for this item states:
It was conservatively assumed that AOS SSM and Dehy AOS SSM events would last 24 hours. SSM, AOS SSM, and Dehy AOS SSM are not flared simultaneously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used.
Can any two of these three activities occur simultaneously?

Flare units RH1-FL-29-1003, RH2-FL-5100, RH3- FL-5100, RH4-FL-45100, and RH5-FL-55100 are designed to combust startup, shutdown, and maintenance (SSM) emissions from various process equipment at the facility. These flares may also handle flash gas emissions from amine units RH1-AMINE, RH2-AMINE, RH4-AMINE, and RH5-AMINE during cold weather events. Additionally, these flares may also handle regenerator overheads from glycol dehydrator units RH2-DEHY, RH3-DEHY, RH4-DEHY, RH5-DEHY, and RH6-DEHY during thermal oxidizer downtime. **It is important to note that facility SSM emissions and amine flash gas emissions will not be combusted simultaneously.** All other nominal events can still occur within any given hour.

**SSM** – This emission rate includes pilot, purge, and SSM emissions from various process equipment at the facility. [SSM activities will not be initiated intentionally when AOS SSM or Dehy AOS SSM activities are in progress.]

**AOS SSM** – This emission rate includes the AOS emissions resulting from amine flash gas being routed to the flares during cold weather events. [SSM activities will not be initiated intentionally when AOS SSM or Dehy AOS SSM activities are in progress.]

**Dehy AOS SSM** – This emission rate includes the AOS emissions resulting from the dehydrator regenerator overheads during thermal oxidizer downtime. [SSM activities will not be initiated intentionally when AOS SSM or Dehy AOS SSM activities are in progress.]

| Unit ID | Nominal Processes | AOS Processes |
|---|---|---|
| **RH1-FL-29-1003** | Pilot<br>Purge<br>RH1-TEG (dehy) Still Vent<br>SSM Emissions | Pilot<br>Purge<br>RH1-TEG (dehy) Still Vent<br>RH1-AMINE (amine) Flash Gas |
| **RH2-FL-5100** | Pilot<br>Purge<br>SSM Emissions | Pilot<br>Purge<br>RH2-AMINE (amine) Flash Gas<br>RH2-DEHY (dehydrator) Regenerator Overheads |
| **RH3-FL-5100** | Pilot<br>Purge<br>SSM Emissions | Pilot<br>Purge<br>RH3-DEHY (dehydrator) Regenerator Overheads |
| **RH4-FL-45100** | Pilot<br>Purge<br>SSM<br>Pigging Emissions | Pilot<br>Purge<br>RH4-AMINE (amine) Flash Gas<br>RH5-AMINE (amine) Flash Gas<br>RH4-DEHY (dehydrator) Regenerator Overheads<br>Pigging Emissions |

| | | |
|---|---|---|
| **RH5-FL-55100** | Pilot<br>Purge<br>SSM Emissions | Pilot<br>Purge<br>RH5-DEHY (dehydrator) Regenerator Overheads<br>RH6-DEHY (dehydrator) Regenerator Overheads |

Regards,

**Jaimy Karacaoglu**
Senior Consultant

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1999 Broadway, Suite 820 | Denver, Colorado 80202
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**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Wednesday, July 16, 2025 8:15 AM
**To:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Cc:** Hedgepeth, McKenna, ENV <mckenna.hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>; Mcneel, Pleasant - FS <pleasant.mcneel@usda.gov>
**Subject:** Re: [EXTERNAL] RE: Targa Red Hills flare emissions

Hi Jaimy,

Thanks for the feedback. I would appreciate it if you would show how you determined that "For the facility as a whole, when looking at only steady-state emissions, Q/d would be less than 10 for all Class I areas within 300 km."

I am trying to understand the Alternate Operating Scenarios (AOS) referenced in section 4.3 of the Application and Supplement:

> For units with alternative operating scenarios occurring at the same emission point, such as the flares at the facility, the scenario with the maximum modeled impact will be used for the modeling demonstration. The alternative operating scenarios, which have lesser impact, will be detailed Section 15 of the PSD permit application package submittal.

For example, in Scenario 1, the Flare RH2-FL5100 has NOx emission rates of:

| | |
|---|---|
| SSM | 562.98 lb/hr |
| AOS SSM | 3.64 lb/hr |
| Dehy AOS SSM | 0.45 lb/hr |

The Note for this item states:

> It was conservatively assumed that AOS SSM and Dehy AOS SSM events would last 24 hours. SSM, AOS SSM, and Dehy AOS SSM are not flared simultaneously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used.

Can any two of these three activities occur simultaneously?

thanks,

---

**From:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Sent:** Tuesday, July 15, 2025 9:06 AM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>
**Cc:** Hedgepeth, McKenna, ENV <mckenna.hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>; Mcneel, Pleasant - FS <pleasant.mcneel@usda.gov>
**Subject:** RE: [EXTERNAL] RE: Targa Red Hills flare emissions

Hi Don,

No, we do not intend to model steady-state conditions for the acid gas flares. The steady-state conditions include only pilot and purge gas, the emissions from which are orders of magnitude lower than our three flaring scenarios. Only the three worst-cases are modeled.

For the facility as a whole, when looking at only steady-state emissions, the Q/d would be less than 10 for all Class I areas within 300 km.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Wednesday, July 2, 2025 8:02 AM
**To:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Cc:** Hedgepeth, McKenna, ENV <mckenna.hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>; Mcneel, Pleasant - FS <pleasant.mcneel@usda.gov>
**Subject:** Re: [EXTERNAL] RE: Targa Red Hills flare emissions

Thanks, Jaimy,

Do you intend to also model the "steady state" condition?

---

**From:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Sent:** Monday, June 30, 2025 1:38 PM

**To:** Shepherd, Don <Don_Shepherd@nps.gov>
**Cc:** Hedgepeth, McKenna, ENV <mckenna.hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>; Mcneel, Pleasant - FS <pleasant.mcneel@usda.gov>
**Subject:** RE: [EXTERNAL] RE: Targa Red Hills flare emissions

Hi Don,

Please see below for response to your questions in red.

Has Section 15 of the PSD permit application, which describes Alternate Operating Scenarios, been submitted yet?
This has not been submitted yet. We will make sure you receive a full copy of the application when it is submitted.

Section 4.3, Alternate Operating Scenarios, in the May 2025 Supplement Revision, includes this:
The most significant alternative operating scenario revolves around the flares that operate on the acid gas trains. Three scenarios exist: RHA-FL-5100 operating independently (Scenario #1), RA2-FL-25100 operating independently (Scenario #2), and RHA-FL-5100 and RA2-FL-25100 operating simultaneously (Scenario #3). Details regarding the limitation of these scenarios and their associated emission rates will be provided in detail in the application and modeling report submitted to the NMED. Preliminary emissions associated with the scenarios are presented in Section 3.2. and Appendix A.

Am i correct in thinking that the only differences among the three alternate operating scenarios are operation of the two acid gas flares? Would there ever be a scenario when the two acid gas flares are in a low-emissions "idle" mode?
The difference you have identified is correct; emissions only differ for those two acid gas flares. The scenarios provided are those that could produce “the worst-case” emissions from the combination of the two units. There are times when the two acid gas flares are in “idle-mode” with only the pilots combusting. This should truly be the steady-state operation of the unit, with the “three scenarios” being infrequent.

Let me know if you have any additional questions.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Monday, June 30, 2025 10:06 AM
**To:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Cc:** Hedgepeth, McKenna, ENV <mckenna.hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>; Mcneel, Pleasant - FS <pleasant.mcneel@usda.gov>
**Subject:** Re: [EXTERNAL] RE: Targa Red Hills flare emissions

Hello Jaimy,

I am hoping that you can help me understand the plant's operating scenarios.

Has Section 15 of the PSD permit application, which describes Alternate Operating Scenarios, been submitted yet?

Section 4.3, Alternate Operating Scenarios, in the May 2025 Supplement Revision, includes this:

> The most significant alternative operating scenario revolves around the flares that operate on the acid gas trains. Three scenarios exist: RHA-FL-5100 operating independently (Scenario #1), RA2-FL-25100 operating independently (Scenario #2), and RHA-FL-5100 and RA2-FL-25100 operating simultaneously (Scenario #3). Details regarding the limitation of these scenarios and their associated emission rates will be provided in detail in the application and modeling report submitted to the NMED. Preliminary emissions associated with the scenarios are presented in Section 3.2. and Appendix A.

Am i correct in thinking that the only differences among the three alternate operating scenarios are operation of the two acid gas flares? Would there ever be a scenario when the two acid gas flares are in a low-emissions "idle" mode?

thanks,

---

**From:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Sent:** Wednesday, June 25, 2025 1:01 PM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>
**Cc:** Hedgepeth, McKenna, ENV <mckenna.hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>
**Subject:** [EXTERNAL] RE: Targa Red Hills flare emissions

**This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.**

Hi Don,

Please see responses to both of your emails below in red.

Thanks for the info you sent Friday June 20. I am working my way through the flare emission scenarios and estimates and i agree with the daily sweet gas flare emission rates shown in Table 3-1 of your May 2025 Supplement. However, i would appreciate an explanation as to how the daily emission rates in Table 3-4 were calculated for the acid gas flares—it looks like the hourly emission rates were multiplied by a factor of 16. Is this correct, and, if so, why? The daily emission rate (lb/day) was back-calculated based on maximum daily predicted impacts used for modeling. When operating at the maximum hourly rate, the proposed daily limit would be exhausted in 16 hours, hence the use of the scalar value of 16. This is what is presented and is the value planned to be used for modeling and permitting. We verified against the facility's prior events to ensure that it was sufficient to capture any potential future SSM events.

Jaimy, it just occurred to me that "residue gas" (discussed in your email last week) is not described or specifically discussed in the modeling protocol. I would appreciate it if you would explain "residue gas." Residue gas is gas that has been treated by the facility to pipeline quality. It may be flared due to loss of takeaway, not being at the required specification, or other miscellaneous reasons.

Please let me know if you have any additional questions.

Thank you,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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---

**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Monday, June 23, 2025 4:16 PM
**To:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Cc:** Hedgepeth, McKenna, ENV <mckenna.hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <rliles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>
**Subject:** Re: Targa Red Hills flare emissions

Jaimy, it just occurred to me that "residue gas" (discussed in your email last week) is not described or specifically discussed in the modeling protocol. I would appreciate it if you would explain "residue gas."

thanks,

---

**From:** Shepherd, Don
**Sent:** Monday, June 23, 2025 12:03 PM
**To:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Cc:** Hedgepeth, McKenna, ENV <mckenna.hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <rliles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>
**Subject:** Targa Red Hills flare emissions

Hi Jaimy,

Thanks for the info you sent Friday June 20. I am working my way through the flare emission scenarios and estimates and i agree with the daily sweet gas flare emission rates shown in Table 3-1 of your May 2025 Supplement. However, i would appreciate an explanation as to how the daily emission rates in Table 3-4 were calculated for the acid gas flares—it looks like the hourly emission rates were multiplied by a factor of 16. Is this correct, and, if so, why?

thanks,

## Jaimy Karacaoglu

**From:** Jaimy Karacaoglu
**Sent:** Friday, August 29, 2025 12:49 PM
**To:** Allen, Tim
**Cc:** Rob Liles; Adam Erenstein; Bates, Charles J.
**Subject:** RE: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hi Tim,

Thank you for your review. We had been working with Targa on a response and it was just sent to Don.

We will ensure you receive a copy of all relevant CALPUFF files upon submittal of the application.

Please don't hesitate to reach out if you have any questions.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com

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---

**From:** Allen, Tim <tim_allen@fws.gov>
**Sent:** Thursday, August 28, 2025 10:35 AM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hey Jaimy,

I don't have specific comments on the Class I AQRV protocol documents. I still not seeing correspondence on this project for quite some time. Can you fill me in on where you are at?

I do have a request... Once produced, I'd like a copy of an actual Calpuf.inp, Postutil.inp, and Calpost.inp file and their corresponding .lst files produced for analysis. The table of emissions is quite long and the discussion over the flares has me curious on seeing a complete set of files.

Thank you,
Tim

**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Tuesday, August 12, 2025 8:35 AM
**To:** Allen, Tim <tim_allen@fws.gov>
**Subject:** RE: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hi Tim,

Absolutely! The original modeling protocol can be downloaded here:
https://files.trinityconsultants.com/link/AmJZpXK0bHsRr1ZMBAZANQ

Any comments would be greatly appreciated.

Thank you,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com

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---

**From:** Allen, Tim <tim_allen@fws.gov>
**Sent:** Tuesday, August 12, 2025 8:30 AM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Jaimy, I seem to have the Addendum dated May 2025. Can you please resend me the original. The AQRV section (sec. 7.3) is not included with the Addendum. I'd like to be ready when this starts moving. Perhaps I can give some comments on your process as well. I know that your conversation with Don is mostly focused on emissions.

Thank you,
Tim

---

**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Monday, August 11, 2025 4:28 PM
**To:** Allen, Tim <tim_allen@fws.gov>
**Subject:** RE: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hi Tim,

We are currently working on addressing comments from both Don along with comments and questions from EPA Region 6/NMED on our protocol.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com

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---

**From:** Allen, Tim <tim_allen@fws.gov>
**Sent:** Monday, August 11, 2025 11:45 AM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hi Jaimy,

Haven't heard from since June 20th. Just checking in to see how things are going with the Red Hills permit application.

Tim Allen
USFWS

---

**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Friday, June 20, 2025 1:24 PM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>
**Subject:** RE: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hi Don,

For residue gas flaring, there are no durations or number of events permitted; however, the flares are metered. All permitted emissions are represented as occurring in a single day to be conservative.

We attempted to be conservative in our approach; the current representation of residue gas flaring in the maximum daily emission rate contains all of the possible emissions that could occur due to residue gas flaring over the course of the entire year. Due to the somewhat unpredictable nature of SSM, we attempted to quantify what the worst-case could possibly look like during the course of the day. Essentially, the flares that combust residue gas have a proposed ton per year limit associated with this flaring event type. We are conservatively representing this proposed annual limit in a single day.

In regards to RHA-FL-5100, there are SSM emissions associated with the unit; however, SSM activities are not conducted at the same time as acid gas flaring. The maximum of each stream on a pollutant-by-pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day. Therefore, the maximum contributor was used. The units have a proposed lb/day limit, which will become a permit condition, based on the maximum contribution that could occur. With an actual limit being requested on a daily basis, the flare could not exceed this lb/day limitation (i.e. it could not have a full 18 hours of acid gas flaring and a full 4 hours of SSM flaring and still stay under the proposed lb/day limit).

If it would be helpful, I'd be glad to schedule a call to walk through the details and answer any questions you may have.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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---

**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Friday, June 13, 2025 8:13 AM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello Jaimy,

I have some initial comments/questions related to the maximum daily emissions information you just sent. FLM FLAG 2010 guidance advises us to consider the magnitude, frequency, duration, timing, and geographic extent of the estimated new source impacts. It looks like flare emissions during startup/shutdown/maintenance (SSM) events are significant contributors to facility emissions of NOx and SO2. I have attached a spreadsheet that contains flare excerpts from your maximum daily emissions document. While the magnitude of the event emissions is shown, i would appreciate further explanation of the duration and frequency of the SSM events, especially with respect to this Note:

> Residue Gas Flaring emissions were most significant and the event duration of 1 hour was conservatively assumed. There are 12 events permitted and it was assumed all events happen in a single day.

Am i correct in understanding that there would be no more than 12 SSM events (per year?) with none exceeding 1-hour duration?

Also, would there be any SSM emissions associated with RHA-FL-51001?

thanks,

---

**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Wednesday, June 11, 2025 11:32 AM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>
**Subject:** RE: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hi Don,

Please see responses to your questions below in **red**. Please let us know if you have any additional questions.

3.2.2 **Acid Gas Flares (Supplement)**

**Table 3-2. Acid Gas Flare Scenarios**

| Unit ID | AOS 1 Processes | AOS 2 Processes | AOS 3 Processes |
|---|---|---|---|
| **2.5-EP-5** | Pilot Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot Purge |
| **5.5-EP-1b** | Pilot Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot Purge | Pilot Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions |

In Alternate Operating Scenario (AOS) #1, both 2.5-EP-5 (RHA-FL-5100) and 5.5-EP-1b (RA2-FL-25100) are operating simultaneously. In AOS #2, 2.5-EP-5 (RHA-FL-5100) is operating independently and 5.5-EP-1b (RA2-FL-25100) emissions are minimal. In AOS #3, 5.5-EP-1b (RA2-FL-25100) is operating independently and 2.5-EP-5 (RHA-FL emissions are minimal-5100). Is this correct? **This is correct.**

Under 4.3 **Alternate Operating Scenarios (Supplement)**, it is stated that:
Three scenarios exist: RHA-FL-5100 operating independently (Scenario #1), RA2-FL-25100 operating independently (Scenario #2), and RHA-FL-5100 and RA2-FL-25100 operating simultaneously (Scenario #3).
This appears inconsistent with the scenarios described in Table 3-2—please explain. **These scenarios were incorrectly described. Three scenarios exist: RHA-FL-5100 and RA2-FL-25100 operating simultaneously (Scenario #1), RHA-FL-5100 operating independently (Scenario #2), and RA2-FL-25100 operating independently (Scenario #3), as described in the table above.**

Under 7.2 **Q/D Analysis (Supplement)**, Tables 7-1 thru 7-3 provide **Annualized Maximum Daily Emission Rate (tpy).** It is stated that “For the FLAG 2010 approach, "Q” is calculated as the sum of the worst-case 24-hour emissions due to the “project”, converted to an annual basis." Do "project" emissions include all emissions associated with the facility, or just the new emissions? Where can the

"Maximum Daily Emission Rates be found? **Project emissions include all emissions for the facility. I have attached our current maximum daily emission rate calculations for each of the three scenarios.**

I would appreciate it if we were copied when the application is submitted. **We will make sure that you receive a copy of the application upon submittal.**

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Tuesday, May 27, 2025 9:45 AM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello Jaimy,

Thank you for sending the additional information on May 22. I would appreciate it if you would help me understand some issues i try to describe below.

3.2.2 **Acid Gas Flares (Supplement)**

**Table 3-2. Acid Gas Flare Scenarios**

| Unit ID | AOS 1 Processes | AOS 2 Processes | AOS 3 Processes |
|---|---|---|---|
| **2.5-EP-5** | Pilot<br>Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge |
| **5.5-EP-1b** | Pilot<br>Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge | Pilot<br>Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions |

In Alternate Operating Scenario (AOS) #1, both 2.5-EP-5 (RHA-FL-5100) and 5.5-EP-1b (RA2-FL-25100) are operating simultaneously. In AOS #2, 2.5-EP-5 (RHA-FL-5100) is operating independently and 5.5-EP-1b (RA2-FL-25100) emissions are minimal. In AOS #3, 5.5-EP-1b (RA2-FL-25100) is operating independently and 2.5-EP-5 (RHA-FL emissions are minimal-5100). Is this correct?

Under 4.3 **Alternate Operating Scenarios (Supplement)**, it is stated that:

> Three scenarios exist: RHA-FL-5100 operating independently (Scenario #1), RA2-FL-25100 operating independently (Scenario #2), and RHA-FL-5100 and RA2-FL-25100 operating simultaneously (Scenario #3).

This appears inconsistent with the scenarios described in Table 3-2—please explain.

Under 7.2 **Q/D Analysis (Supplement)**, Tables 7-1 thru 7-3 provide **Annualized Maximum Daily Emission Rate (tpy).** It is stated that "For the FLAG 2010 approach, "Q" is calculated as the sum of the worst-case 24-hour emissions due to the "project", converted to an annual basis." Do "project" emissions include all emissions associated with the facility, or just the new emissions? Where can the "Maximum Daily Emission Rates be found?

I would appreciate it if we were copied when the application is submitted.

thanks,

---

**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Thursday, May 22, 2025 4:21 PM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>
**Subject:** RE: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello,

Apologies for the delay in response. Please find attached an addendum to the previously submitted modeling protocol. This addendum is intended to provide additional clarity regarding the modeling scenarios for the acid gas flares and also provides an updated Q/D analysis.

Let me know if you have any questions or wish to discuss anything in more detail.

Thank you,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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---

**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Tuesday, April 29, 2025 11:24 AM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello again, Jaimy,

I am trying to relate the information in the tables associated with Scenarios 1, 2 & 3 on modeling protocol pages 51 - 59 to the information you sent 4/25.

I have attached a spreadsheet that tries to match the ten flares listed in the AERMOD Input Summary tables to the two flares you described in your 4/25 email. Please let me know if this is correct.

It looks like none of the flares have 24-hour emissions associated with them—is that correct?

thanks,

---

**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Friday, April 25, 2025 3:51 PM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Jaimy—thanks for your response—i look forward to our future work on this--have a great weekend!

---

**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Friday, April 25, 2025 2:53 PM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>
**Subject:** RE: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hi Don,

Thank you for reaching out. We have not submitted an application to NMED yet. Tim Allen had called me a few days ago regarding our Q/d, and we are refining our "Q." I can provide an update next week.

For your prior question:

Please see below for a description of the operating scenarios and tables that detail this concept.

Flare units 2.5-EP-5 and 5.5-EP-1b are designed to combust startup, shutdown, and maintenance (SSM) and gas emissions from various process equipment at the facility. These flares also handle acid gas emissions from RHA-AMINE and RA2-AMINE when AGI-1 and AGI-2 are offline. There are three (3) operating scenarios for these flares summarized in Table 15-1 below. Each flare unit will have hourly emission limits (represented by the three operating scenarios) based on whether the flares are operating simultaneously or exclusively.

**Table 15-1 AGI Flaring Scenarios**

| Unit ID | Nominal Streams | Scenario 1 | Scenario 2 | Scenario 3 |
|---|---|---|---|---|
| **2.5-EP-5** | Assist Gas<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Assist Gas<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Assist Gas<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Not Operating |
| **5.5-EP-1b** | Assist Gas<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Assist Gas<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Not Operating | Assist Gas<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions |

Hopefully this helps explain the operating conditions that we are attempting to both permit and demonstrate via modeling. Please feel free to give me a call at the number in my signature below if you would like to discuss in more detail.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Friday, April 25, 2025 1:59 PM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna,

Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello again, Jaimy,

Has a permit application been submitted to NMED on their standard forms yet? (These are the best permit application forms i have seen anywhere.) They would be very helpful in answering my following questions:

How were the emission rates for the Q/d calculations developed? I am especially interested in the nature of the emission units, the amounts of their SO2, H2SO4, PM10, and NOx emissions (lb/hr, lb/day, tons/yr), and the frequency and duration of those emissions.

thanks,

---

**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Wednesday, April 23, 2025 4:20 PM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello Jaimy,

I would appreciate it if you would help me understand what is meant by the three operating "Scenarios" in the modeling protocol pages 51-59. (I shall probably request the data in Excel format in those "Scenario" tables if it looks like they would be useful to us.)

thanks,

---

**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Wednesday, April 23, 2025 11:32 AM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>
**Subject:** [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

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Hello,

I hope this message finds you well. I'm reaching out to follow up on the Red Hills modeling protocol. I wanted to check if you've had an opportunity to review the document.

If so, I'd like to begin coordinating a meeting to discuss any feedback and next steps. Please let me know your availability or if there are any questions in the meantime.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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---

**From:** Jaimy Karacaoglu
**Sent:** Thursday, April 10, 2025 2:58 PM
**To:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Kuhn, Julia, ENV <julia.kuhn@env.nm.gov>; Owens, Melinda, ENV <melinda.owens@env.nm.gov>; Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>; Kassanjee, Sahil, ENV <sahil.kassanjee@env.nm.gov>; bryant.fong@env.nm.gov; tim_allen@fws.gov; Don_Shepherd@nps.gov; Bates, Charles J. <cbates@targaresources.com>
**Cc:** Rob Liles <RLiles@trinityconsultants.com>; Adam Erenstein <AErenstein@trinityconsultants.com>
**Subject:** 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello Everyone,

Thank you again for taking the time to meet with us today. Please see below for identified Action Items and a summary of what was discussed.

**Actions Items**

1. **Application Timing**
    a. I don't think we fully hammered out what the timeframe for application review was. Can NMED provide an estimated issuance timeframe, barring any significant hurdles?
    b. NMED indicated that they would follow up with Targa / Trinity on the fugitive component emission cap proposal. Let us know if additional discussion on this item is needed.
    c. NMED indicated that they would follow up with Targa / Trinity on future projects being able to be submitted separately during the PSD application review.
    d. McKenna will facilitate scheduling an FLM meeting after they have had a chance to review the modeling protocol.
2. **ECD Replacement Technical Revision**
    a. NMED indicated that a decision would be made tomorrow, 4/11, and they would reach out to Targa.

**Meeting Summary**

1. Red Hills Gas Processing Plant is a 6-train gas treatment facility that also has two front-end treaters.

2. The facility was first constructed in late 2010 and has expanded into the facility it is today over the past 15 years.
3. **Application Highlights –** The following are items that are planned to be included in the PSD application:
    a. Full, comprehensive re-permitting of the site
    b. Sitewide throughput increase
    c. Heater size increase across the entire facility by about 30%
    d. Fugitive emission refinement and update
    e. Startup, shutdown, and maintenance emission additions
    f. Increase H2S concentration increase
    g. Adding assist gas to the acid gas flares
    h. Other minor changes at other facility equipment
4. We discussed the possibility of a fugitive emission cap. Can the facility implement a fugitive emission cap that would allow for the interchange or addition of fugitive components without triggering a technical or significant revision? The facility would be subject to an allowable emission limit and would still submit an application if other changes occur.
5. **BACT –** All units have gone through the BACT review process as if they had not yet been constructed.
6. **Class II Modeling –** The modeling protocol was submitted today and can be accessed at the following link: https://files.trinityconsultants.com/link/zJ8PZpx8nsEvfULavK07tt
    a. Preliminary modeling indicates that Red Hills does not cause or contribute to an exceedance of the NAAQS, NMAAQS, or PSD Class I and II increments
    b. The property boundary will be updated along with equipment locations
    c. It was discussed that Sufi and EPA Region 6 would need to review the modeling protocol and it was estimated that this process would take 2 to 3 weeks, but is subject to be longer depending on EPA availability.
7. **Class I Modeling -** Preliminary results show passing results for Visibility, Deposition, and Class I SILs.
    a. Class 1 Areas Evaluated
        i. Carlsbad Caverns
        ii. Salt Creek Wilderness
        iii. Guadalupe Mountain National Park
        iv. Big Bend National Park
    b. Q/D was discussed; the facility is over 10 for all listed Class I Areas. This is detailed in the modeling protocol.
    c. The FLMs indicated that they would like to review the protocol (linked above). After their review, we can schedule a pre-application meeting with them.
8. **Pre-Construction Monitoring –** The waiver was submitted today and details the identified monitors to be used for Class II modeling.

If I missed anything in the above list, please feel free to respond with any additions. Do not hesitate to reach out should you have any questions.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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## Jaimy Karacaoglu

**From:** Jaimy Karacaoglu
**Sent:** Tuesday, August 5, 2025 8:54 AM
**To:** sufi.mustafa@env.nm.gov
**Cc:** cbates@targaresources.com
**Subject:** FW: [EXTERNAL] RE: Targa Red Hills flare emissions

Hi Sufi,

See below. I believe this is the last of the email chains. We will ensure you are CC'ed on future emails with the FLMs.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com

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**From:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Sent:** Monday, June 30, 2025 1:38 PM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>
**Cc:** Hedgepeth, McKenna, ENV <mckenna.hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>; Mcneel, Pleasant - FS <pleasant.mcneel@usda.gov>
**Subject:** RE: [EXTERNAL] RE: Targa Red Hills flare emissions

Hi Don,

Please see below for response to your questions in red.

Has Section 15 of the PSD permit application, which describes Alternate Operating Scenarios, been submitted yet?
This has not been submitted yet. We will make sure you receive a full copy of the application when it is submitted.

Section 4.3, Alternate Operating Scenarios, in the May 2025 Supplement Revision, includes this:
The most significant alternative operating scenario revolves around the flares that operate on the acid gas trains. Three scenarios exist: RHA-FL-5100 operating independently (Scenario #1), RA2-FL-25100

operating independently (Scenario #2), and RHA-FL-5100 and RA2-FL-25100 operating simultaneously (Scenario #3). Details regarding the limitation of these scenarios and their associated emission rates will be provided in detail in the application and modeling report submitted to the NMED. Preliminary emissions associated with the scenarios are presented in Section 3.2. and Appendix A.

Am i correct in thinking that the only differences among the three alternate operating scenarios are operation of the two acid gas flares? Would there ever be a scenario when the two acid gas flares are in a low-emissions "idle" mode?
The difference you have identified is correct; emissions only differ for those two acid gas flares. The scenarios provided are those that could produce “the worst-case” emissions from the combination of the two units. There are times when the two acid gas flares are in “idle-mode” with only the pilots combusting. This should truly be the steady-state operation of the unit, with the “three scenarios” being infrequent.

Let me know if you have any additional questions.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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---

**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Monday, June 30, 2025 10:06 AM
**To:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Cc:** Hedgepeth, McKenna, ENV <mckenna.hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>; Mcneel, Pleasant - FS <pleasant.mcneel@usda.gov>
**Subject:** Re: [EXTERNAL] RE: Targa Red Hills flare emissions

Hello Jaimy,

I am hoping that you can help me understand the plant's operating scenarios.

Has Section 15 of the PSD permit application, which describes Alternate Operating Scenarios, been submitted yet?

Section 4.3, Alternate Operating Scenarios, in the May 2025 Supplement Revision, includes this:

> The most significant alternative operating scenario revolves around the flares that operate on the acid gas trains. Three scenarios exist: RHA-FL-5100 operating independently (Scenario #1), RA2-

FL-25100 operating independently (Scenario #2), and RHA-FL-5100 and RA2-FL-25100 operating simultaneously (Scenario #3). Details regarding the limitation of these scenarios and their associated emission rates will be provided in detail in the application and modeling report submitted to the NMED. Preliminary emissions associated with the scenarios are presented in Section 3.2. and Appendix A.

Am i correct in thinking that the only differences among the three alternate operating scenarios are operation of the two acid gas flares? Would there ever be a scenario when the two acid gas flares are in a low-emissions "idle" mode?

thanks,

---

**From:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Sent:** Wednesday, June 25, 2025 1:01 PM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>
**Cc:** Hedgepeth, McKenna, ENV <mckenna.hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>
**Subject:** [EXTERNAL] RE: Targa Red Hills flare emissions

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Hi Don,

Please see responses to both of your emails below in red.

Thanks for the info you sent Friday June 20. I am working my way through the flare emission scenarios and estimates and i agree with the daily sweet gas flare emission rates shown in Table 3-1 of your May 2025 Supplement. However, i would appreciate an explanation as to how the daily emission rates in Table 3-4 were calculated for the acid gas flares—it looks like the hourly emission rates were multiplied by a factor of 16. Is this correct, and, if so, why? The daily emission rate (lb/day) was back-calculated based on maximum daily predicted impacts used for modeling. When operating at the maximum hourly rate, the proposed daily limit would be exhausted in 16 hours, hence the use of the scalar value of 16. This is what is presented and is the value planned to be used for modeling and permitting. We verified against the facility's prior events to ensure that it was sufficient to capture any potential future SSM events.

Jaimy, it just occurred to me that "residue gas" (discussed in your email last week) is not described or specifically discussed in the modeling protocol. I would appreciate it if you would explain "residue gas." Residue gas is gas that has been treated by the facility to pipeline quality. It may be flared due to loss of takeaway, not being at the required specification, or other miscellaneous reasons.

Please let me know if you have any additional questions.

Thank you,

**Jaimy Karacaoglu**
Senior Consultant

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**Sent:** Monday, June 23, 2025 4:16 PM
**To:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Cc:** Hedgepeth, McKenna, ENV <mckenna.hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <rliles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>
**Subject:** Re: Targa Red Hills flare emissions

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**From:** Shepherd, Don
**Sent:** Monday, June 23, 2025 12:03 PM
**To:** Jaimy Karacaoglu <jaimy.karacaoglu@trinityconsultants.com>
**Cc:** Hedgepeth, McKenna, ENV <mckenna.hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <rliles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>
**Subject:** Targa Red Hills flare emissions

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**To:** sufi.mustafa@env.nm.gov
**Cc:** cbates@targaresources.com
**Subject:** FW: Targa Red Hills flare emissions

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Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com

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Please let me know if you have any additional questions.

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**Subject:** Targa Red Hills flare emissions

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thanks,

## Jaimy Karacaoglu

**From:** Jaimy Karacaoglu
**Sent:** Tuesday, August 5, 2025 8:53 AM
**To:** Mustafa, Sufi A., ENV
**Cc:** cbates@targaresources.com
**Subject:** FW: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hi Sufi,

See below.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com

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**Sent:** Friday, June 20, 2025 1:25 PM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>
**Subject:** RE: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hi Don,

For residue gas flaring, there are no durations or number of events permitted; however, the flares are metered. All permitted emissions are represented as occurring in a single day to be conservative.

We attempted to be conservative in our approach; the current representation of residue gas flaring in the maximum daily emission rate contains all of the possible emissions that could occur due to residue gas flaring over the course of the entire year. Due to the somewhat unpredictable nature of SSM, we attempted to quantify what the worst-case could possibly look like during the course of the day. Essentially, the flares that combust residue gas have a proposed ton per year limit associated with this flaring event type. We are conservatively representing this proposed annual limit in a single day.

In regards to RHA-FL-5100, there are SSM emissions associated with the unit; however, SSM activities are not conducted at the same time as acid gas flaring. The maximum of each stream on a pollutant-by-pollutant basis was taken to derive

the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day. Therefore, the maximum contributor was used. The units have a proposed lb/day limit, which will become a permit condition, based on the maximum contribution that could occur. With an actual limit being requested on a daily basis, the flare could not exceed this lb/day limitation (i.e. it could not have a full 18 hours of acid gas flaring and a full 4 hours of SSM flaring and still stay under the proposed lb/day limit).

If it would be helpful, I'd be glad to schedule a call to walk through the details and answer any questions you may have.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Friday, June 13, 2025 8:13 AM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>; Sorkin, Jeff- FS <Jeffrey.Sorkin@usda.gov>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello Jaimy,

I have some initial comments/questions related to the maximum daily emissions information you just sent. FLM FLAG 2010 guidance advises us to consider the magnitude, frequency, duration, timing, and geographic extent of the estimated new source impacts. It looks like flare emissions during startup/shutdown/maintenance (SSM) events are significant contributors to facility emissions of NOx and SO2. I have attached a spreadsheet that contains flare excerpts from your maximum daily emissions document. While the magnitude of the event emissions is shown, i would appreciate further explanation of the duration and frequency of the SSM events, especially with respect to this Note:

> Residue Gas Flaring emissions were most significant and the event duration of 1 hour was conservatively assumed. There are 12 events permitted and it was assumed all events happen in a single day.

Am i correct in understanding that there would be no more than 12 SSM events (per year?) with none exceeding 1-hour duration?

Also, would there be any SSM emissions associated with RHA-FL-51001?

thanks,

**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Wednesday, June 11, 2025 11:32 AM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>
**Subject:** RE: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hi Don,

Please see responses to your questions below in **red**. Please let us know if you have any additional questions.

3.2.2 **Acid Gas Flares (Supplement)**

**Table 3-2. Acid Gas Flare Scenarios**

| Unit ID | AOS 1 Processes | AOS 2 Processes | AOS 3 Processes |
|---|---|---|---|
| **2.5-EP-5** | Pilot Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot Purge |
| **5.5-EP-1b** | Pilot Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot Purge | Pilot Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions |

In Alternate Operating Scenario (AOS) #1, both 2.5-EP-5 (RHA-FL-5100) and 5.5-EP-1b (RA2-FL-25100) are operating simultaneously. In AOS #2, 2.5-EP-5 (RHA-FL-5100) is operating independently and 5.5-EP-1b (RA2-FL-25100) emissions are minimal. In AOS #3, 5.5-EP-1b (RA2-FL-25100) is operating independently and 2.5-EP-5 (RHA-FL emissions are minimal-5100). Is this correct? **This is correct.**

Under 4.3 **Alternate Operating Scenarios (Supplement)**, it is stated that:
Three scenarios exist: RHA-FL-5100 operating independently (Scenario #1), RA2-FL-25100 operating independently (Scenario #2), and RHA-FL-5100 and RA2-FL-25100 operating simultaneously (Scenario #3).
This appears inconsistent with the scenarios described in Table 3-2—please explain. **These scenarios were incorrectly described. Three scenarios exist: RHA-FL-5100 and RA2-FL-25100 operating simultaneously (Scenario #1), RHA-FL-5100 operating independently (Scenario #2), and RA2-FL-25100 operating independently (Scenario #3), as described in the table above.**

Under 7.2 **Q/D Analysis (Supplement)**, Tables 7-1 thru 7-3 provide **Annualized Maximum Daily Emission Rate (tpy).** It is stated that “For the FLAG 2010 approach, "Q” is calculated as the sum of the worst-case 24-hour emissions due to the “project”, converted to an annual basis." Do "project" emissions include all emissions associated with the facility, or just the new emissions? Where can the "Maximum Daily Emission Rates be found? **Project emissions include all emissions for the facility. I**

**have attached our current maximum daily emission rate calculations for each of the three scenarios.**

I would appreciate it if we were copied when the application is submitted. **We will make sure that you receive a copy of the application upon submittal.**

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Tuesday, May 27, 2025 9:45 AM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello Jaimy,

Thank you for sending the additional information on May 22. I would appreciate it if you would help me understand some issues i try to describe below.

3.2.2 **Acid Gas Flares (Supplement)**

**Table 3-2. Acid Gas Flare Scenarios**

| Unit ID | AOS 1 Processes | AOS 2 Processes | AOS 3 Processes |
|---|---|---|---|
| **2.5-EP-5** | Pilot<br>Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge |
| **5.5-EP-1b** | Pilot<br>Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge | Pilot<br>Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions |

In Alternate Operating Scenario (AOS) #1, both 2.5-EP-5 (RHA-FL-5100) and 5.5-EP-1b (RA2-FL-25100) are operating simultaneously. In AOS #2, 2.5-EP-5 (RHA-FL-5100) is operating independently and 5.5-EP-1b (RA2-FL-25100) emissions are minimal. In AOS #3, 5.5-EP-1b (RA2-FL-25100) is operating independently and 2.5-EP-5 (RHA-FL emissions are minimal-5100). Is this correct?

Under 4.3 **Alternate Operating Scenarios (Supplement)**, it is stated that:

> Three scenarios exist: RHA-FL-5100 operating independently (Scenario #1), RA2-FL-25100 operating independently (Scenario #2), and RHA-FL-5100 and RA2-FL-25100 operating simultaneously (Scenario #3).

This appears inconsistent with the scenarios described in Table 3-2—please explain.

Under 7.2 **Q/D Analysis (Supplement)**, Tables 7-1 thru 7-3 provide **Annualized Maximum Daily Emission Rate (tpy).** It is stated that "For the FLAG 2010 approach, "Q" is calculated as the sum of the worst-case 24-hour emissions due to the "project", converted to an annual basis." Do "project" emissions include all emissions associated with the facility, or just the new emissions? Where can the "Maximum Daily Emission Rates be found?

I would appreciate it if we were copied when the application is submitted.

thanks,

---

**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Thursday, May 22, 2025 4:21 PM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>
**Subject:** RE: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello,

Apologies for the delay in response. Please find attached an addendum to the previously submitted modeling protocol. This addendum is intended to provide additional clarity regarding the modeling scenarios for the acid gas flares and also provides an updated Q/D analysis.

Let me know if you have any questions or wish to discuss anything in more detail.

Thank you,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Tuesday, April 29, 2025 11:24 AM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello again, Jaimy,

I am trying to relate the information in the tables associated with Scenarios 1, 2 & 3 on modeling protocol pages 51 - 59 to the information you sent 4/25.

I have attached a spreadsheet that tries to match the ten flares listed in the AERMOD Input Summary tables to the two flares you described in your 4/25 email. Please let me know if this is correct.

It looks like none of the flares have 24-hour emissions associated with them—is that correct?

thanks,

---

**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Friday, April 25, 2025 3:51 PM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Jaimy—thanks for your response—i look forward to our future work on this--have a great weekend!

---

**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Friday, April 25, 2025 2:53 PM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>
**Subject:** RE: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hi Don,

Thank you for reaching out. We have not submitted an application to NMED yet. Tim Allen had called me a few days ago regarding our Q/d, and we are refining our "Q." I can provide an update next week.

For your prior question:

Please see below for a description of the operating scenarios and tables that detail this concept.

Flare units 2.5-EP-5 and 5.5-EP-1b are designed to combust startup, shutdown, and maintenance (SSM) and gas emissions from various process equipment at the facility. These flares also handle acid gas emissions from RHA-AMINE and RA2-AMINE when AGI-1 and AGI-2 are offline. There are three (3) operating scenarios for these flares summarized in Table 15-1 below. Each flare unit will have hourly emission limits (represented by the three operating scenarios) based on whether the flares are operating simultaneously or exclusively.

**Table 15-1 AGI Flaring Scenarios**

| Unit ID | Nominal Streams | Scenario 1 | Scenario 2 | Scenario 3 |
|---|---|---|---|---|
| **2.5-EP-5** | Assist Gas<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Assist Gas<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Assist Gas<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Not Operating |
| **5.5-EP-1b** | Assist Gas<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Assist Gas<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Not Operating | Assist Gas<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions |

Hopefully this helps explain the operating conditions that we are attempting to both permit and demonstrate via modeling. Please feel free to give me a call at the number in my signature below if you would like to discuss in more detail.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Friday, April 25, 2025 1:59 PM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna,

Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello again, Jaimy,

Has a permit application been submitted to NMED on their standard forms yet? (These are the best permit application forms i have seen anywhere.) They would be very helpful in answering my following questions:

How were the emission rates for the Q/d calculations developed? I am especially interested in the nature of the emission units, the amounts of their SO2, H2SO4, PM10, and NOx emissions (lb/hr, lb/day, tons/yr), and the frequency and duration of those emissions.

thanks,

---

**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Wednesday, April 23, 2025 4:20 PM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello Jaimy,

I would appreciate it if you would help me understand what is meant by the three operating "Scenarios" in the modeling protocol pages 51-59. (I shall probably request the data in Excel format in those "Scenario" tables if it looks like they would be useful to us.)

thanks,

---

**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Wednesday, April 23, 2025 11:32 AM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>
**Subject:** [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

**This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.**

Hello,

I hope this message finds you well. I'm reaching out to follow up on the Red Hills modeling protocol. I wanted to check if you've had an opportunity to review the document.

If so, I'd like to begin coordinating a meeting to discuss any feedback and next steps. Please let me know your availability or if there are any questions in the meantime.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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**From:** Jaimy Karacaoglu
**Sent:** Thursday, April 10, 2025 2:58 PM
**To:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Kuhn, Julia, ENV <julia.kuhn@env.nm.gov>; Owens, Melinda, ENV <melinda.owens@env.nm.gov>; Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>; Kassanjee, Sahil, ENV <sahil.kassanjee@env.nm.gov>; bryant.fong@env.nm.gov; tim_allen@fws.gov; Don_Shepherd@nps.gov; Bates, Charles J. <cbates@targaresources.com>
**Cc:** Rob Liles <RLiles@trinityconsultants.com>; Adam Erenstein <AErenstein@trinityconsultants.com>
**Subject:** 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello Everyone,

Thank you again for taking the time to meet with us today. Please see below for identified Action Items and a summary of what was discussed.

**Actions Items**

1. **Application Timing**
    a. I don't think we fully hammered out what the timeframe for application review was. Can NMED provide an estimated issuance timeframe, barring any significant hurdles?
    b. NMED indicated that they would follow up with Targa / Trinity on the fugitive component emission cap proposal. Let us know if additional discussion on this item is needed.
    c. NMED indicated that they would follow up with Targa / Trinity on future projects being able to be submitted separately during the PSD application review.
    d. McKenna will facilitate scheduling an FLM meeting after they have had a chance to review the modeling protocol.
2. **ECD Replacement Technical Revision**
    a. NMED indicated that a decision would be made tomorrow, 4/11, and they would reach out to Targa.

**Meeting Summary**

1. Red Hills Gas Processing Plant is a 6-train gas treatment facility that also has two front-end treaters.

2. The facility was first constructed in late 2010 and has expanded into the facility it is today over the past 15 years.
3. **Application Highlights –** The following are items that are planned to be included in the PSD application:
    a. Full, comprehensive re-permitting of the site
    b. Sitewide throughput increase
    c. Heater size increase across the entire facility by about 30%
    d. Fugitive emission refinement and update
    e. Startup, shutdown, and maintenance emission additions
    f. Increase H2S concentration increase
    g. Adding assist gas to the acid gas flares
    h. Other minor changes at other facility equipment
4. We discussed the possibility of a fugitive emission cap. Can the facility implement a fugitive emission cap that would allow for the interchange or addition of fugitive components without triggering a technical or significant revision? The facility would be subject to an allowable emission limit and would still submit an application if other changes occur.
5. **BACT –** All units have gone through the BACT review process as if they had not yet been constructed.
6. **Class II Modeling –** The modeling protocol was submitted today and can be accessed at the following link: https://files.trinityconsultants.com/link/zJ8PZpx8nsEvfULavK07tt
    a. Preliminary modeling indicates that Red Hills does not cause or contribute to an exceedance of the NAAQS, NMAAQS, or PSD Class I and II increments
    b. The property boundary will be updated along with equipment locations
    c. It was discussed that Sufi and EPA Region 6 would need to review the modeling protocol and it was estimated that this process would take 2 to 3 weeks, but is subject to be longer depending on EPA availability.
7. **Class I Modeling -** Preliminary results show passing results for Visibility, Deposition, and Class I SILs.
    a. Class 1 Areas Evaluated
        i. Carlsbad Caverns
        ii. Salt Creek Wilderness
        iii. Guadalupe Mountain National Park
        iv. Big Bend National Park
    b. Q/D was discussed; the facility is over 10 for all listed Class I Areas. This is detailed in the modeling protocol.
    c. The FLMs indicated that they would like to review the protocol (linked above). After their review, we can schedule a pre-application meeting with them.
8. **Pre-Construction Monitoring –** The waiver was submitted today and details the identified monitors to be used for Class II modeling.

If I missed anything in the above list, please feel free to respond with any additions. Do not hesitate to reach out should you have any questions.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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## Jaimy Karacaoglu

**From:** Jaimy Karacaoglu
**Sent:** Tuesday, August 5, 2025 8:52 AM
**To:** Mustafa, Sufi A., ENV
**Cc:** Bates, Charles J.
**Subject:** FW: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary
**Attachments:** Maximum Daily Emission Rates_v1.0_2025 0609.pdf

Hi Sufi,

See below and attached for documentation that has been provided to the FLMs. I will be forwarding a few additional email chains shortly.

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com

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**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Wednesday, June 11, 2025 11:33 AM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>
**Subject:** RE: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hi Don,

Please see responses to your questions below in **red**. Please let us know if you have any additional questions.

3.2.2 **Acid Gas Flares (Supplement)**

**Table 3-2. Acid Gas Flare Scenarios**

| Unit ID | AOS 1 Processes | AOS 2 Processes | AOS 3 Processes |
|---|---|---|---|

| | | | |
|---|---|---|---|
| **2.5-EP-5** | Pilot Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot Purge |
| **5.5-EP-1b** | Pilot Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot Purge | Pilot Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions |

In Alternate Operating Scenario (AOS) #1, both 2.5-EP-5 (RHA-FL-5100) and 5.5-EP-1b (RA2-FL-25100) are operating simultaneously. In AOS #2, 2.5-EP-5 (RHA-FL-5100) is operating independently and 5.5-EP-1b (RA2-FL-25100) emissions are minimal. In AOS #3, 5.5-EP-1b (RA2-FL-25100) is operating independently and 2.5-EP-5 (RHA-FL emissions are minimal-5100). Is this correct? **This is correct.**

Under 4.3 **Alternate Operating Scenarios (Supplement)**, it is stated that:
Three scenarios exist: RHA-FL-5100 operating independently (Scenario #1), RA2-FL-25100 operating independently (Scenario #2), and RHA-FL-5100 and RA2-FL-25100 operating simultaneously (Scenario #3).
This appears inconsistent with the scenarios described in Table 3-2—please explain. **These scenarios were incorrectly described. Three scenarios exist: RHA-FL-5100 and RA2-FL-25100 operating simultaneously (Scenario #1), RHA-FL-5100 operating independently (Scenario #2), and RA2-FL-25100 operating independently (Scenario #3), as described in the table above.**

Under 7.2 **Q/D Analysis (Supplement)**, Tables 7-1 thru 7-3 provide **Annualized Maximum Daily Emission Rate (tpy).** It is stated that “For the FLAG 2010 approach, "Q” is calculated as the sum of the worst-case 24-hour emissions due to the “project”, converted to an annual basis." Do "project" emissions include all emissions associated with the facility, or just the new emissions? Where can the "Maximum Daily Emission Rates be found? **Project emissions include all emissions for the facility. I have attached our current maximum daily emission rate calculations for each of the three scenarios.**

I would appreciate it if we were copied when the application is submitted. **We will make sure that you receive a copy of the application upon submittal.**

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com



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**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Tuesday, May 27, 2025 9:45 AM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello Jaimy,

Thank you for sending the additional information on May 22. I would appreciate it if you would help me understand some issues i try to describe below.

3.2.2 **Acid Gas Flares (Supplement)**

**Table 3-2. Acid Gas Flare Scenarios**

| Unit ID | AOS 1 Processes | AOS 2 Processes | AOS 3 Processes |
|---|---|---|---|
| **2.5-EP-5** | Pilot<br>Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge |
| **5.5-EP-1b** | Pilot<br>Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge | Pilot<br>Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions |

In Alternate Operating Scenario (AOS) #1, both 2.5-EP-5 (RHA-FL-5100) and 5.5-EP-1b (RA2-FL-25100) are operating simultaneously. In AOS #2, 2.5-EP-5 (RHA-FL-5100) is operating independently and 5.5-EP-1b (RA2-FL-25100) emissions are minimal. In AOS #3, 5.5-EP-1b (RA2-FL-25100) is operating independently and 2.5-EP-5 (RHA-FL emissions are minimal-5100). Is this correct?

Under 4.3 **Alternate Operating Scenarios (Supplement)**, it is stated that:

> Three scenarios exist: RHA-FL-5100 operating independently (Scenario #1), RA2-FL-25100 operating independently (Scenario #2), and RHA-FL-5100 and RA2-FL-25100 operating simultaneously (Scenario #3).

This appears inconsistent with the scenarios described in Table 3-2—please explain.

Under 7.2 **Q/D Analysis (Supplement)**, Tables 7-1 thru 7-3 provide **Annualized Maximum Daily Emission Rate (tpy).** It is stated that “For the FLAG 2010 approach, "Q” is calculated as the sum of the worst-case 24-hour emissions due to the “project”, converted to an annual basis." Do "project" emissions include all emissions associated with the facility, or just the new emissions? Where can the "Maximum Daily Emission Rates be found?

I would appreciate it if we were copied when the application is submitted.

thanks,

---

**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Thursday, May 22, 2025 4:21 PM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>
**Subject:** RE: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello,

Apologies for the delay in response. Please find attached an addendum to the previously submitted modeling protocol. This addendum is intended to provide additional clarity regarding the modeling scenarios for the acid gas flares and also provides an updated Q/D analysis.

Let me know if you have any questions or wish to discuss anything in more detail.

Thank you,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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---

**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Tuesday, April 29, 2025 11:24 AM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello again, Jaimy,

I am trying to relate the information in the tables associated with Scenarios 1, 2 & 3 on modeling protocol pages 51 - 59 to the information you sent 4/25.

I have attached a spreadsheet that tries to match the ten flares listed in the AERMOD Input Summary tables to the two flares you described in your 4/25 email. Please let me know if this is correct.

It looks like none of the flares have 24-hour emissions associated with them—is that correct?

thanks,

---

**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Friday, April 25, 2025 3:51 PM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>; Rose, Anita - FS, NM <anita.rose@usda.gov>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Jaimy—thanks for your response—i look forward to our future work on this--have a great weekend!

---

**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Friday, April 25, 2025 2:53 PM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>
**Subject:** RE: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hi Don,

Thank you for reaching out. We have not submitted an application to NMED yet. Tim Allen had called me a few days ago regarding our Q/d, and we are refining our "Q." I can provide an update next week.

For your prior question:

Please see below for a description of the operating scenarios and tables that detail this concept.

Flare units 2.5-EP-5 and 5.5-EP-1b are designed to combust startup, shutdown, and maintenance (SSM) and gas emissions from various process equipment at the facility. These flares also handle acid gas emissions from RHA-AMINE and RA2-AMINE when AGI-1 and AGI-2 are offline. There are three (3) operating scenarios for these flares summarized in Table 15-1 below. Each flare unit will have hourly emission limits (represented by the three operating scenarios) based on whether the flares are operating simultaneously or exclusively.

**Table 15-1 AGI Flaring Scenarios**

| Unit ID | Nominal Streams | Scenario 1 | Scenario 2 | Scenario 3 |
|---|---|---|---|---|
| **2.5-EP-5** | Assist Gas<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Assist Gas<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Assist Gas<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Not Operating |

| | | | | |
|---|---|---|---|---|
| **5.5-EP-1b** | Assist Gas<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Assist Gas<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Not Operating | Assist Gas<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions |

Hopefully this helps explain the operating conditions that we are attempting to both permit and demonstrate via modeling. Please feel free to give me a call at the number in my signature below if you would like to discuss in more detail.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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---

**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Friday, April 25, 2025 1:59 PM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello again, Jaimy,

Has a permit application been submitted to NMED on their standard forms yet? (These are the best permit application forms i have seen anywhere.) They would be very helpful in answering my following questions:

How were the emission rates for the Q/d calculations developed? I am especially interested in the nature of the emission units, the amounts of their SO2, H2SO4, PM10, and NOx emissions (lb/hr, lb/day, tons/yr), and the frequency and duration of those emissions.

thanks,

**From:** Shepherd, Don <Don_Shepherd@nps.gov>
**Sent:** Wednesday, April 23, 2025 4:20 PM
**To:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Barna, Michael <Mike_Barna@nps.gov>; Devore, Lisa M <lisa_devore@nps.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>
**Subject:** Re: [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello Jaimy,

I would appreciate it if you would help me understand what is meant by the three operating "Scenarios" in the modeling protocol pages 51-59. (I shall probably request the data in Excel format in those "Scenario" tables if it looks like they would be useful to us.)

thanks,

---

**From:** Jaimy Karacaoglu <Jaimy.Karacaoglu@trinityconsultants.com>
**Sent:** Wednesday, April 23, 2025 11:32 AM
**To:** Shepherd, Don <Don_Shepherd@nps.gov>; Allen, Tim <tim_allen@fws.gov>
**Cc:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; 'Charles Bates' <cbates@targaresources.com>; Rob Liles <RLiles@trinityconsultants.com>
**Subject:** [EXTERNAL] FW: 04/10/2025 - Red Hills Pre-Application Meeting Summary

**This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.**

Hello,

I hope this message finds you well. I'm reaching out to follow up on the Red Hills modeling protocol. I wanted to check if you've had an opportunity to review the document.

If so, I'd like to begin coordinating a meeting to discuss any feedback and next steps. Please let me know your availability or if there are any questions in the meantime.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com



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**From:** Jaimy Karacaoglu
**Sent:** Thursday, April 10, 2025 2:58 PM
**To:** Hedgepeth, McKenna, ENV <McKenna.Hedgepeth@env.nm.gov>; Kuhn, Julia, ENV <julia.kuhn@env.nm.gov>; Owens, Melinda, ENV <melinda.owens@env.nm.gov>; Mustafa, Sufi A., ENV <sufi.mustafa@env.nm.gov>; Kassanjee, Sahil, ENV <sahil.kassanjee@env.nm.gov>; bryant.fong@env.nm.gov; tim_allen@fws.gov; Don_Shepherd@nps.gov; Bates, Charles J. <cbates@targaresources.com>
**Cc:** Rob Liles <RLiles@trinityconsultants.com>; Adam Erenstein <AErenstein@trinityconsultants.com>
**Subject:** 04/10/2025 - Red Hills Pre-Application Meeting Summary

Hello Everyone,

Thank you again for taking the time to meet with us today. Please see below for identified Action Items and a summary of what was discussed.

**Actions Items**

1. **Application Timing**
    a. I don't think we fully hammered out what the timeframe for application review was. Can NMED provide an estimated issuance timeframe, barring any significant hurdles?
    b. NMED indicated that they would follow up with Targa / Trinity on the fugitive component emission cap proposal. Let us know if additional discussion on this item is needed.
    c. NMED indicated that they would follow up with Targa / Trinity on future projects being able to be submitted separately during the PSD application review.
    d. McKenna will facilitate scheduling an FLM meeting after they have had a chance to review the modeling protocol.
2. **ECD Replacement Technical Revision**
    a. NMED indicated that a decision would be made tomorrow, 4/11, and they would reach out to Targa.

**Meeting Summary**

1. Red Hills Gas Processing Plant is a 6-train gas treatment facility that also has two front-end treaters.
2. The facility was first constructed in late 2010 and has expanded into the facility it is today over the past 15 years.
3. **Application Highlights –** The following are items that are planned to be included in the PSD application:
    a. Full, comprehensive re-permitting of the site
    b. Sitewide throughput increase
    c. Heater size increase across the entire facility by about 30%
    d. Fugitive emission refinement and update
    e. Startup, shutdown, and maintenance emission additions
    f. Increase H2S concentration increase
    g. Adding assist gas to the acid gas flares
    h. Other minor changes at other facility equipment
4. We discussed the possibility of a fugitive emission cap. Can the facility implement a fugitive emission cap that would allow for the interchange or addition of fugitive components without triggering a technical or significant revision? The facility would be subject to an allowable emission limit and would still submit an application if other changes occur.
5. **BACT –** All units have gone through the BACT review process as if they had not yet been constructed.
6. **Class II Modeling –** The modeling protocol was submitted today and can be accessed at the following link: https://files.trinityconsultants.com/link/zJ8PZpx8nsEvfULavK07tt
    a. Preliminary modeling indicates that Red Hills does not cause or contribute to an exceedance of the NAAQS, NMAAQS, or PSD Class I and II increments
    b. The property boundary will be updated along with equipment locations

c. It was discussed that Sufi and EPA Region 6 would need to review the modeling protocol and it was estimated that this process would take 2 to 3 weeks, but is subject to be longer depending on EPA availability.

7. **Class I Modeling -** Preliminary results show passing results for Visibility, Deposition, and Class I SILs.
   a. Class 1 Areas Evaluated
      i. Carlsbad Caverns
      ii. Salt Creek Wilderness
      iii. Guadalupe Mountain National Park
      iv. Big Bend National Park
   b. Q/D was discussed; the facility is over 10 for all listed Class I Areas. This is detailed in the modeling protocol.
   c. The FLMs indicated that they would like to review the protocol (linked above). After their review, we can schedule a pre-application meeting with them.
8. **Pre-Construction Monitoring –** The waiver was submitted today and details the identified monitors to be used for Class II modeling.

If I missed anything in the above list, please feel free to respond with any additions. Do not hesitate to reach out should you have any questions.

Regards,

**Jaimy Karacaoglu**
Senior Consultant

M 410.903.0750
1999 Broadway, Suite 820 | Denver, Colorado 80202
Email: jaimy.karacaoglu@trinityconsultants.com




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# APPENDIX C. MODELED EMISSION RATES AND SOURCE PARAMETERS

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## AERMOD Inputs Summary- Scenario 1 - Updated 5/21/2025

| | Point Sources | | Stack Locations | | | Stack Parameters | | | | Short-Term Emissions (lb/hr) | | | | | | Long-Term Emissions (lb/hr) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Stack Height (m) | Stack Temperature (K) | Stack Velocity (m/s) | Stack Diameter (m) | 1-hr $NO_x$ | CO | 1-hr $SO_2$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $NO_x$ | Annual $SO_2$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 639,181.00 | 3,565,054.00 | 1,092.76 | 15.24 | 602.04 | 6.97 | 1.27 | 0.754 | 1.573 | 0.029 | 0.187 | 0.187 | 5.818E-04 | 0.754 | 0.029 | 0.187 | 0.187 |
| | 1.5EP1G | 10k Stabilizer Heater | 639,160.00 | 3,565,063.00 | 1,092.94 | 5.19 | 602.04 | 7.07 | 0.91 | 0.396 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 0.396 | 0.015 | 0.098 | 0.098 |
| | 4EP1G | 10 k Stabilizer Heater | 638,738.00 | 3,565,708.00 | 1,093.81 | 5.64 | 652.59 | 10.17 | 0.61 | 0.882 | 0.487 | 0.0090 | 0.058 | 0.058 | 1.802E-04 | 0.882 | 9.008E-03 | 0.058 | 0.058 |
| | 2EP1A | Mol Sieve Heater | 639,109.00 | 3,565,471.00 | 1,093.58 | 5.03 | 560.93 | 7.59 | 0.56 | 0.941 | 0.355 | 6.571E-03 | 0.067 | 0.067 | 1.314E-04 | 0.941 | 6.571E-03 | 0.067 | 0.067 |
| | 2EP1B | Cryo HMO Heater | 639,108.00 | 3,565,468.00 | 1,093.59 | 7.01 | 422.04 | 1.80 | 1.17 | 0.234 | 0.488 | 9.036E-03 | 0.092 | 0.092 | 1.807E-04 | 0.234 | 9.036E-03 | 0.092 | 0.092 |
| | 2EP1E | Glycol Reboiler | 638,985.00 | 3,565,317.00 | 1,093.32 | 8.10 | 602.04 | 2.85 | 0.61 | 0.392 | 0.148 | 2.738E-03 | 0.018 | 0.018 | 5.476E-05 | 0.392 | 2.738E-03 | 0.018 | 0.018 |
| | 2EP1H | Amine Reboiler | 639,024.00 | 3,565,335.00 | 1,093.36 | 8.38 | 477.59 | 13.85 | 1.07 | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2AEP1D | Amine Reboiler | 639,025.00 | 3,565,316.00 | 1,093.29 | 8.38 | 477.59 | 13.85 | 1.07 | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2.5EP1D | Amine Reboiler | 639,537.00 | 3,565,192.00 | 1,090.66 | 7.19 | 568.15 | 12.83 | 0.81 | 0.637 | 1.254 | 0.023 | 0.149 | 0.149 | 4.641E-04 | 0.637 | 0.023 | 0.149 | 0.149 |
| | 3EP1A | Mol Sieve Heater | 638,877.00 | 3,565,321.00 | 1,093.23 | 6.86 | 523.71 | 12.90 | 0.41 | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 3EP1B | Cryo HMO Heater | 638,886.00 | 3,565,318.00 | 1,093.25 | 8.08 | 523.71 | 9.05 | 0.71 | 0.404 | 0.733 | 0.014 | 0.087 | 0.087 | 2.711E-04 | 0.404 | 0.014 | 0.087 | 0.087 |
| | 3EP1E | Glycol Reboiler | 638,983.00 | 3,565,333.00 | 1,093.31 | 9.91 | 602.04 | 23.28 | 0.21 | 0.392 | 0.148 | 2.738E-03 | 0.018 | 0.018 | 5.476E-05 | 0.392 | 2.738E-03 | 0.018 | 0.018 |
| | 4EP1A | Mol Sieve Heater | 638,797.00 | 3,565,896.00 | 1,092.53 | 7.01 | 523.71 | 12.90 | 0.41 | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 4EP1B | Cryo HMO Heater | 638,789.00 | 3,565,898.00 | 1,092.61 | 8.23 | 523.71 | 10.19 | 0.71 | 0.455 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 0.455 | 0.015 | 0.098 | 0.098 |
| | 4EP1D | Amine Reboiler | 638,693.00 | 3,565,901.00 | 1,093.68 | 13.18 | 533.15 | 35.70 | 0.71 | 1.537 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 1.537 | 0.053 | 0.338 | 0.338 |
| | 4EP1E | Glycol Reboiler | 638,738.00 | 3,565,903.00 | 1,093.00 | 8.15 | 533.15 | 1.86 | 0.71 | 0.392 | 0.148 | 2.738E-03 | 0.018 | 0.018 | 5.476E-05 | 0.392 | 2.738E-03 | 0.018 | 0.018 |
| | 4EP1H | Amine Reboiler | 638,694.00 | 3,565,881.00 | 1,093.67 | 13.18 | 533.15 | 35.70 | 0.71 | 1.537 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 1.537 | 0.053 | 0.338 | 0.338 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 638,586.00 | 3,565,901.00 | 1,094.68 | 13.79 | 533.71 | 14.21 | 1.22 | 1.800 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.800 | 0.062 | 0.396 | 0.396 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 638,587.00 | 3,565,881.00 | 1,094.74 | 13.79 | 533.71 | 14.21 | 1.22 | 1.800 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.800 | 0.062 | 0.396 | 0.396 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 638,925.00 | 3,565,919.00 | 1,091.89 | 6.93 | 523.71 | 4.15 | 0.71 | 0.481 | 0.336 | 6.215E-03 | 0.040 | 0.040 | 1.243E-04 | 0.481 | 6.215E-03 | 0.040 | 0.040 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 638,915.00 | 3,565,920.00 | 1,092.07 | 9.14 | 523.71 | 5.27 | 1.22 | 0.693 | 1.258 | 0.023 | 0.150 | 0.150 | 4.653E-04 | 0.693 | 0.023 | 0.150 | 0.150 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 638,907.00 | 3,565,921.00 | 1,092.15 | 8.59 | 560.93 | 13.60 | 0.41 | 0.482 | 0.337 | 6.229E-03 | 0.040 | 0.040 | 1.246E-04 | 0.482 | 6.229E-03 | 0.040 | 0.040 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 638,895.00 | 3,565,918.00 | 1,092.20 | 11.20 | 523.71 | 11.81 | 0.81 | 0.690 | 1.252 | 0.023 | 0.149 | 0.149 | 4.634E-04 | 0.690 | 0.023 | 0.149 | 0.149 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 638,584.00 | 3,565,932.00 | 1,094.69 | 13.93 | 510.93 | 13.61 | 1.22 | 1.880 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.880 | 0.062 | 0.396 | 0.396 |
| | 5.5EP1A | AGI 2 HMO Heater | 639,562.00 | 3,565,404.00 | 1,089.73 | 13.72 | 510.93 | 40.10 | 0.71 | 1.880 | 3.302 | 0.061 | 0.393 | 0.393 | 1.222E-03 | 1.880 | 0.061 | 0.393 | 0.393 |
| Flares | 1EP2 | Flare (SSM) | 639,217.00 | 3,565,202.00 | 1,093.05 | 51.27 | 1273.00 | 20.00 | 9.14 | 211.681 | 1811.272 | 2.024 | - | - | 0.024 | 5.63E-01 | 1.49E-01 | - | - |
| | 2EP2A | Emergency Flare A (Inlet) | 639,187.00 | 3,565,436.00 | 1,093.60 | 80.71 | 1273.00 | 20.00 | 14.92 | 563.351 | 4827.796 | 5.002 | - | - | 0.060 | 3.69E-01 | 1.69E-03 | - | - |
| | 2.5EP5 | Emergency AGI Flare | 639,512.00 | 3,565,274.00 | 1,090.62 | 62.06 | 1273.00 | 20.00 | 4.70 | 16.832 | 144.316 | 128.289 | - | - | 1.391 | 7.12E-02 | 1.02E-03 | - | - |
| | 3EP2A | Flare (SSM) | 638,844.00 | 3,565,244.00 | 1,093.95 | 80.71 | 1273.00 | 20.00 | 14.92 | 563.351 | 4827.796 | 5.002 | - | - | 0.060 | 3.69E-01 | 1.69E-03 | - | - |
| | 4EP2A | Flare (SSM) | 638,832.00 | 3,565,976.00 | 1,092.68 | 84.19 | 1273.00 | 20.00 | 16.00 | 648.307 | 5552.871 | 5.754 | - | - | 0.069 | 3.69E-01 | 1.69E-03 | - | - |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 638,958.00 | 3,565,980.00 | 1,092.68 | 114.36 | 1273.00 | 20.00 | 16.00 | 648.184 | 5552.625 | 5.753 | - | - | 0.069 | 7.55E-01 | 3.45E-03 | - | - |
| | 5.5EP1B | AGI 2 Flare SSM | 639,542.00 | 3,565,339.00 | 1,090.58 | 61.32 | 1273.00 | 20.00 | 4.84 | 16.920 | 145.075 | 127.130 | - | - | 1.378 | 1.72E-01 | 1.83E-03 | - | - |
| | EP9 | Sour Slop Tank Control Flare | 639,595.00 | 3,565,278.00 | 1,090.20 | 6.73 | 1273.00 | 20.00 | 0.08 | 0.048 | 0.222 | 1.595 | - | - | 0.020 | 7.07E-03 | 1.60E+00 | - | - |
| | EP13 | Sour Water Tanks Flare | 639,628.00 | 3,565,443.00 | 1,088.96 | 7.95 | 1273.00 | 20.00 | 0.08 | 0.238 | 0.978 | 1.813 | - | - | 0.024 | 7.08E-03 | 1.81E+00 | - | - |
| | EP79 | Condensate Tank Flare | 639,513.00 | 3,564,914.00 | 1,090.35 | 9.67 | 1273.00 | 20.00 | 0.13 | 7.730 | 30.759 | 6.588E-05 | - | - | 7.143E-07 | 6.84E-02 | 6.59E-05 | - | - |
| | RH4FLTK | Slop Water Storage Tanks Flare | 638,538.90 | 3,565,835.00 | 1,095.05 | 9.67 | 1273.00 | 20.00 | 0.13 | 0.991 | 1.978 | 6.588E-05 | - | - | 7.143E-07 | 9.91E-01 | 6.59E-05 | - | - |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 639,010.00 | 3,565,298.00 | 1,093.20 | 18.82 | 1088.71 | 1.38 | 3.05 | 1.706 | 6.272 | 19.361 | 0.671 | 0.671 | 9.754 | 1.521 | 19.361 | 0.671 | 0.671 |
| | EP8 | Thermal Oxidizer | 638,713.00 | 3,565,923.00 | 1,093.43 | 20.73 | 1088.71 | 1.65 | 3.05 | 1.250 | 0.761 | 14.074 | 0.596 | 0.596 | 6.441 | 1.353 | 14.075 | 0.596 | 0.596 |
| | EP10 | Thermal Oxidizer | 638,602.00 | 3,565,931.00 | 1,094.55 | 23.16 | 1255.37 | 117.56 | 3.05 | 1.240 | 0.755 | 14.149 | 0.559 | 0.559 | 6.471 | 1.345 | 14.150 | 0.559 | 0.559 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | 638,497.00 | 3,565,657.00 | 1,095.25 | 1.83 | 0.00 | 0.30 | 0.33 | - | - | - | - | - | 1.480E-04 | - | - | - | - |
| Generators | GEN1 | Diesel Fired Generator | 638,698.70 | 3,565,483.20 | 1,095.40 | 4.51 | 689.82 | 22.01 | 0.21 | 0.0188 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN2 | Diesel Fired Generator | 638,692.10 | 3,565,483.20 | 1,095.46 | 4.51 | 689.82 | 22.01 | 0.21 | 0.0188 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN3 | Diesel Fired Generator | 638,682.10 | 3,565,483.20 | 1,095.50 | 4.51 | 689.82 | 22.01 | 0.21 | 0.0188 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN4 | Diesel Fired Generator | 638,672.10 | 3,565,483.20 | 1,095.57 | 4.51 | 689.82 | 22.01 | 0.21 | 0.0188 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN5 | Diesel Fired Generator | 638,662.10 | 3,565,483.10 | 1,095.65 | 4.51 | 689.82 | 22.01 | 0.21 | 0.0188 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN6 | Diesel Fired Generator | 638,652.10 | 3,565,483.10 | 1,095.74 | 4.51 | 689.82 | 22.01 | 0.21 | 0.0188 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN7 | Diesel Fired Generator | 638,642.10 | 3,565,483.10 | 1,095.79 | 4.51 | 689.82 | 22.01 | 0.21 | 0.0188 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN8 | Diesel Fired Generator | 638,637.00 | 3,565,488.10 | 1,095.79 | 4.51 | 689.82 | 22.01 | 0.21 | 0.0188 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN9 | Diesel Fired Generator | 638,636.90 | 3,565,498.10 | 1,095.75 | 4.51 | 689.82 | 22.01 | 0.21 | 0.0188 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN10 | Diesel Fired Generator | 638,636.50 | 3,565,538.10 | 1,095.50 | 4.51 | 689.82 | 22.01 | 0.21 | 0.0188 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 638,692.10 | 3,565,483.20 | 1,095.46 | 4.51 | 689.82 | 93.21 | 0.21 | 0.305 | 0.185 | 0.594 | 0.023 | 0.023 | - | 0.0014 | 0.0027 | 0.0001 | 0.0001 |
| | GEN_WW | Well Water Generator | 638,377.00 | 3,565,219.00 | 1,093.36 | 4.57 | 500.00 | 5.00 | 0.08 | 0.009 | 0.081 | 0.001 | 0.087 | 0.087 | - | 0.0086 | 0.0011 | 0.0012 | 0.0012 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## AERMOD Inputs Summary- Scenario 1 - Updatd 5/21/2025

| | Point Sources | | Short-Term Emissions (g/s) | | | | | | Long-Term Emissions (g/s) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Emission Units** | **Description** | **1-hr $NO_x$** | **CO** | **1-hr $SO_2$** | **24-hr $PM_{10}$** | **24-hr $PM_{2.5}$** | **$H_2S$** | **Annual $NO_x$** | **Annual $SO_2$** | **Annual $PM_{10}$** | **Annual $PM_{2.5}$** |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 0.095 | 0.198 | 3.665E-03 | 0.024 | 0.024 | 7.331E-05 | 0.095 | 3.665E-03 | 0.024 | 0.024 |
| | 1.5EP1G | 10k Stabilizer Heater | 0.050 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.050 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1G | 10 k Stabilizer Heater | 0.111 | 0.061 | 1.135E-03 | 7.296E-03 | 7.296E-03 | 2.270E-05 | 0.111 | 1.135E-03 | 7.296E-03 | 7.296E-03 |
| | 2EP1A | Mol Sieve Heater | 0.119 | 0.045 | 8.280E-04 | 8.467E-03 | 8.467E-03 | 1.656E-05 | 0.119 | 8.280E-04 | 8.467E-03 | 8.467E-03 |
| | 2EP1B | Cryo HMO Heater | 0.030 | 0.062 | 1.138E-03 | 0.012 | 0.012 | 2.277E-05 | 0.030 | 1.138E-03 | 0.012 | 0.012 |
| | 2EP1E | Gylcol Reboiler | 0.049 | 0.019 | 3.450E-04 | 2.218E-03 | 2.218E-03 | 6.900E-06 | 0.049 | 3.450E-04 | 2.218E-03 | 2.218E-03 |
| | 2EP1H | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2AEP1D | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2.5EP1D | Amine Reboiler | 0.080 | 0.158 | 2.924E-03 | 0.019 | 0.019 | 5.848E-05 | 0.080 | 2.924E-03 | 0.019 | 0.019 |
| | 3EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 3EP1B | Cryo HMO Heater | 0.051 | 0.092 | 1.708E-03 | 0.011 | 0.011 | 3.415E-05 | 0.051 | 1.708E-03 | 0.011 | 0.011 |
| | 3EP1E | Glycol Reboiler | 0.049 | 0.019 | 3.450E-04 | 2.218E-03 | 2.218E-03 | 6.900E-06 | 0.049 | 3.450E-04 | 2.218E-03 | 2.218E-03 |
| | 4EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 4EP1B | Cryo HMO Heater | 0.057 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.057 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1D | Amine Reboiler | 0.194 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.194 | 6.618E-03 | 0.043 | 0.043 |
| | 4EP1E | Glycol Reboiler | 0.049 | 0.019 | 3.450E-04 | 2.218E-03 | 2.218E-03 | 6.900E-06 | 0.049 | 3.450E-04 | 2.218E-03 | 2.218E-03 |
| | 4EP1H | Amine Reboiler | 0.194 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.194 | 6.618E-03 | 0.043 | 0.043 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 0.227 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.227 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 0.227 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.227 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 0.061 | 0.042 | 7.831E-04 | 5.034E-03 | 5.034E-03 | 1.566E-05 | 0.061 | 7.831E-04 | 5.034E-03 | 5.034E-03 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 0.087 | 0.158 | 2.932E-03 | 0.019 | 0.019 | 5.863E-05 | 0.087 | 2.932E-03 | 0.019 | 0.019 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 0.061 | 0.042 | 7.848E-04 | 5.045E-03 | 5.045E-03 | 1.570E-05 | 0.061 | 7.848E-04 | 5.045E-03 | 5.045E-03 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 0.087 | 0.158 | 2.919E-03 | 0.019 | 0.019 | 5.839E-05 | 0.087 | 2.919E-03 | 0.019 | 0.019 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 0.237 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.237 | 7.757E-03 | 0.050 | 0.050 |
| | 5.5EP1A | AGI 2 HMO Heater | 0.237 | 0.416 | 7.697E-03 | 0.049 | 0.049 | 1.539E-04 | 0.237 | 7.697E-03 | 0.049 | 0.049 |
| Flares | 1EP2 | Flare (SSM) | 26.671 | 228.216 | 0.255 | 0 | 0 | 3.042E-03 | 0.071 | 0.019 | 0 | 0 |
| | 2EP2A | Emergency Flare A (Inlet) | 70.981 | 608.292 | 0.630 | 0 | 0 | 7.586E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 2.5EP5 | Emergency AGI Flare | 2.121 | 18.184 | 16.164 | 0 | 0 | 0.175 | 8.976E-03 | 1.291E-04 | 0 | 0 |
| | 3EP2A | Flare (SSM) | 70.981 | 608.292 | 0.630 | 0 | 0 | 7.546E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 4EP2A | Flare (SSM) | 81.685 | 699.650 | 0.725 | 0 | 0 | 8.722E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 81.670 | 699.619 | 0.725 | 0 | 0 | 8.679E-03 | 0.095 | 4.353E-04 | 0 | 0 |
| | 5.5EP1B | AGI 2 Flare SSM | 2.132 | 18.279 | 16.018 | 0 | 0 | 0.174 | 0.022 | 2.308E-04 | 0 | 0 |
| | EP9 | Sour Slop Tank Control Flare | 6.066E-03 | 0.028 | 0.201 | 0 | 0 | 2.535E-03 | 8.908E-04 | 0.201 | 0 | 0 |
| | EP13 | Sour Water Tanks Flare | 0.030 | 0.123 | 0.228 | 0 | 0 | 2.965E-03 | 8.921E-04 | 0.228 | 0 | 0 |
| | EP79 | Condensate Tank Flare | 0.974 | 3.876 | 8.301E-06 | 0 | 0 | 9.000E-08 | 8.619E-03 | 8.301E-06 | 0 | 0 |
| | RH4FLTK | Slop Water Storage Tanks Flare | 0.125 | 0.249 | 8.301E-06 | 0 | 0 | 9.000E-08 | 0.125 | 8.301E-06 | 0 | 0 |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 0.215 | 0.790 | 2.439 | 0.084 | 0.084 | 1.229 | 0.192 | 2.439 | 0.084 | 0.084 |
| | EP8 | Thermal Oxidizer | 0.157 | 0.096 | 1.773 | 0.075 | 0.075 | 0.812 | 0.170 | 1.773 | 0.075 | 0.075 |
| | EP10 | Thermal Oxidizer | 0.156 | 0.095 | 1.783 | 0.070 | 0.070 | 0.815 | 0.169 | 1.783 | 0.070 | 0.070 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | - | 0 | 0 | 0 | 0 | 1.865E-05 | 0 | 0 | 0 | 0 |
| Generators | GEN1 | Diesel Fired Generator | 2.373E-03 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN2 | Diesel Fired Generator | 2.373E-03 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN3 | Diesel Fired Generator | 2.373E-03 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN4 | Diesel Fired Generator | 2.373E-03 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN5 | Diesel Fired Generator | 2.373E-03 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN6 | Diesel Fired Generator | 2.373E-03 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN7 | Diesel Fired Generator | 2.373E-03 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN8 | Diesel Fired Generator | 2.373E-03 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN9 | Diesel Fired Generator | 2.373E-03 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN10 | Diesel Fired Generator | 2.373E-03 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 3.839E-02 | 2.328E-02 | 7.488E-02 | 2.950E-03 | 2.950E-03 | 0.000E+00 | 1.753E-04 | 3.419E-04 | 1.347E-05 | 1.347E-05 |
| | GEN_WW | Well Water Generator | 1.089E-03 | 1.017E-02 | 1.402E-04 | 1.094E-02 | 1.094E-02 | 0.000E+00 | 1.089E-03 | 1.402E-04 | 1.498E-04 | 1.498E-04 |

| Volume Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | | | Long-Term Emissions (lb/hr) | | Short-Term Emissions (g/s) | | | Long-Term Emissions (g/s) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Release Height (m) | Initial Lateral Dimension (m) | Initial Vertical Dimension (m) | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| RRGBOO01 | RRGBOO | 638,556.70 | 3,565,558.40 | 1,096.16 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO02 | RRGBOO | 638,573.60 | 3,565,559.30 | 1,096.00 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO03 | RRGBOO | 638,591.60 | 3,565,559.10 | 1,095.88 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO04 | RRGBOO | 638,609.60 | 3,565,558.90 | 1,095.75 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO05 | RRGBOO | 638,627.60 | 3,565,558.70 | 1,095.41 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO06 | RRGBOO | 638,645.60 | 3,565,558.50 | 1,095.32 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO07 | RRGBOO | 638,663.60 | 3,565,558.30 | 1,095.19 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO08 | RRGBOO | 638,681.60 | 3,565,558.10 | 1,094.92 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO09 | RRGBOO | 638,699.60 | 3,565,557.90 | 1,094.78 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO10 | RRGBOO | 638,717.60 | 3,565,557.80 | 1,094.59 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO11 | RRGBOO | 638,735.60 | 3,565,557.60 | 1,094.46 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO12 | RRGBOO | 638,753.60 | 3,565,557.40 | 1,094.34 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO13 | RRGBOO | 638,771.60 | 3,565,557.20 | 1,093.91 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO14 | RRGBOO | 638,789.60 | 3,565,557.00 | 1,093.11 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO15 | RRGBOO | 638,807.60 | 3,565,556.80 | 1,093.08 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO16 | RRGBOO | 638,825.60 | 3,565,556.60 | 1,093.01 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO17 | RRGBOO | 638,843.60 | 3,565,556.40 | 1,092.93 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO18 | RRGBOO | 638,861.60 | 3,565,556.20 | 1,092.85 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO19 | RRGBOO | 638,879.60 | 3,565,556.00 | 1,092.78 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO20 | RRGBOO | 638,897.60 | 3,565,555.80 | 1,092.72 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGOO066 | RRGOO | 638,918.50 | 3,565,555.60 | 1,092.64 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO067 | RRGOO | 638,936.50 | 3,565,555.50 | 1,092.59 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO068 | RRGOO | 638,954.50 | 3,565,555.30 | 1,092.51 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO069 | RRGOO | 638,972.50 | 3,565,555.10 | 1,092.44 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO070 | RRGOO | 638,990.50 | 3,565,555.00 | 1,092.35 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO071 | RRGOO | 639,008.50 | 3,565,554.80 | 1,092.33 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO072 | RRGOO | 639,026.50 | 3,565,554.70 | 1,092.03 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO073 | RRGOO | 639,044.50 | 3,565,554.50 | 1,092.26 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO074 | RRGOO | 639,062.50 | 3,565,554.30 | 1,092.24 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO075 | RRGOO | 639,080.50 | 3,565,554.20 | 1,092.27 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO076 | RRGOO | 639,098.50 | 3,565,554.00 | 1,092.43 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO077 | RRGOO | 639,116.50 | 3,565,553.90 | 1,092.27 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| O1O2078 | Orange 1 and 2 | 639,129.30 | 3,565,546.40 | 1,092.95 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2079 | Orange 1 and 2 | 639,139.60 | 3,565,531.70 | 1,093.18 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2080 | Orange 1 and 2 | 639,150.00 | 3,565,517.00 | 1,093.31 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2081 | Orange 1 and 2 | 639,160.30 | 3,565,502.30 | 1,093.40 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2082 | Orange 1 and 2 | 639,170.70 | 3,565,487.50 | 1,093.43 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2083 | Orange 1 and 2 | 639,181.00 | 3,565,472.80 | 1,093.46 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2084 | Orange 1 and 2 | 639,191.40 | 3,565,458.10 | 1,093.49 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2085 | Orange 1 and 2 | 639,201.80 | 3,565,443.40 | 1,093.44 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2086 | Orange 1 and 2 | 639,212.10 | 3,565,428.60 | 1,093.37 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2087 | Orange 1 and 2 | 639,205.80 | 3,565,414.60 | 1,093.42 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2088 | Orange 1 and 2 | 639,194.30 | 3,565,400.80 | 1,093.49 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2089 | Orange 1 and 2 | 639,182.80 | 3,565,387.00 | 1,093.48 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2090 | Orange 1 and 2 | 639,171.30 | 3,565,373.10 | 1,093.45 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2091 | Orange 1 and 2 | 639,159.70 | 3,565,359.30 | 1,093.42 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2092 | Orange 1 and 2 | 639,148.20 | 3,565,345.50 | 1,093.36 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2093 | Orange 1 and 2 | 639,136.70 | 3,565,331.70 | 1,093.29 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2094 | Orange 1 and 2 | 639,125.10 | 3,565,317.80 | 1,093.21 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2095 | Orange 1 and 2 | 639,113.60 | 3,565,304.00 | 1,093.14 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2096 | Orange 1 and 2 | 639,102.10 | 3,565,290.20 | 1,093.07 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2097 | Orange 1 and 2 | 639,090.60 | 3,565,274.90 | 1,092.95 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2098 | Orange 1 and 2 | 639,095.10 | 3,565,257.00 | 1,093.33 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2099 | Orange 1 and 2 | 639,099.40 | 3,565,242.90 | 1,093.32 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2100 | Orange 1 and 2 | 639,117.40 | 3,565,242.70 | 1,093.31 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2101 | Orange 1 and 2 | 639,135.40 | 3,565,242.40 | 1,093.40 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2102 | Orange 1 and 2 | 639,153.40 | 3,565,242.10 | 1,093.47 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2103 | Orange 1 and 2 | 639,171.40 | 3,565,241.90 | 1,093.48 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2104 | Orange 1 and 2 | 639,189.40 | 3,565,241.60 | 1,093.35 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2105 | Orange 1 and 2 | 639,207.40 | 3,565,241.40 | 1,093.27 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2106 | Orange 1 and 2 | 639,225.40 | 3,565,241.10 | 1,093.16 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2107 | Orange 1 and 2 | 639,243.40 | 3,565,240.80 | 1,093.05 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2108 | Orange 1 and 2 | 639,261.40 | 3,565,240.60 | 1,093.00 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2109 | Orange 1 and 2 | 639,279.40 | 3,565,240.30 | 1,092.98 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2110 | Orange 1 and 2 | 639,297.40 | 3,565,240.00 | 1,092.96 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2111 | Orange 1 and 2 | 639,315.40 | 3,565,239.80 | 1,092.88 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2112 | Orange 1 and 2 | 639,333.40 | 3,565,239.50 | 1,092.63 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2113 | Orange 1 and 2 | 639,351.40 | 3,565,239.20 | 1,092.34 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2114 | Orange 1 and 2 | 639,369.40 | 3,565,239.00 | 1,092.26 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2115 | Orange 1 and 2 | 639,387.40 | 3,565,238.70 | 1,092.23 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2116 | Orange 1 and 2 | 639,405.40 | 3,565,238.40 | 1,091.12 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2117 | Orange 1 and 2 | 639,423.30 | 3,565,238.90 | 1,090.19 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2118 | Orange 1 and 2 | 639,439.80 | 3,565,246.00 | 1,090.23 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2119 | Orange 1 and 2 | 639,456.40 | 3,565,253.10 | 1,090.33 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2120 | Orange 1 and 2 | 639,472.90 | 3,565,260.20 | 1,090.41 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2121 | Orange 1 and 2 | 639,489.40 | 3,565,267.30 | 1,090.49 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2122 | Orange 1 and 2 | 639,506.00 | 3,565,274.30 | 1,090.58 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1123 | Orange 1 | 639,523.20 | 3,565,278.50 | 1,090.65 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1124 | Orange 1 | 639,541.20 | 3,565,279.30 | 1,090.60 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1125 | Orange 1 | 639,559.20 | 3,565,280.10 | 1,090.46 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1126 | Orange 1 | 639,561.70 | 3,565,262.80 | 1,090.46 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1127 | Orange 1 | 639,564.90 | 3,565,245.20 | 1,090.42 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1128 | Orange 1 | 639,569.30 | 3,565,227.70 | 1,090.40 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1129 | Orange 1 | 639,572.60 | 3,565,210.00 | 1,090.38 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O2130 | Orange 2 | 639,539.50 | 3,565,286.70 | 1,090.61 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2131 | Orange 2 | 639,556.60 | 3,565,292.50 | 1,090.48 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2132 | Orange 2 | 639,573.60 | 3,565,298.30 | 1,090.36 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2133 | Orange 2 | 639,588.20 | 3,565,308.70 | 1,090.26 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2134 | Orange 2 | 639,602.60 | 3,565,319.60 | 1,089.83 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2135 | Orange 2 | 639,614.20 | 3,565,333.00 | 1,089.20 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2136 | Orange 2 | 639,624.50 | 3,565,347.80 | 1,089.43 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2137 | Orange 2 | 639,634.80 | 3,565,362.50 | 1,089.43 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2138 | Orange 2 | 639,635.70 | 3,565,380.40 | 1,089.02 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2139 | Orange 2 | 639,636.10 | 3,565,398.40 | 1,088.86 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2140 | Orange 2 | 639,636.40 | 3,565,416.40 | 1,088.80 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| R1R2141 | Red 1 and 2 | 639,120.60 | 3,565,537.90 | 1,093.12 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2142 | Red 1 and 2 | 639,117.20 | 3,565,524.70 | 1,093.24 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2143 | Red 1 and 2 | 639,099.20 | 3,565,525.40 | 1,093.24 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2144 | Red 1 and 2 | 639,081.20 | 3,565,526.20 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2145 | Red 1 and 2 | 639,063.20 | 3,565,526.90 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2146 | Red 1 and 2 | 639,045.20 | 3,565,527.70 | 1,093.23 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2147 | Red 1 and 2 | 639,027.30 | 3,565,528.40 | 1,093.16 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2148 | Red 1 and 2 | 639,009.30 | 3,565,529.20 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 

| Volume Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | | | Long-Term Emissions (lb/hr) | | Short-Term Emissions (g/s) | | | Long-Term Emissions (g/s) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Release Height (m) | Initial Lateral Dimension (m) | Initial Vertical Dimension (m) | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| R1R2155 | Red 1 and 2 | 638,888.90 | 3,565,496.40 | 1,093.37 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2156 | Red 1 and 2 | 638,872.10 | 3,565,490.20 | 1,093.37 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2157 | Red 1 and 2 | 638,855.20 | 3,565,483.90 | 1,093.39 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2158 | Red 1 and 2 | 638,838.30 | 3,565,477.70 | 1,093.42 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2159 | Red 1 and 2 | 638,822.20 | 3,565,469.80 | 1,093.38 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2160 | Red 1 and 2 | 638,806.50 | 3,565,460.90 | 1,093.26 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2161 | Red 1 and 2 | 638,793.70 | 3,565,448.70 | 1,093.11 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2162 | Red 1 and 2 | 638,782.40 | 3,565,434.70 | 1,093.04 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2163 | Red 1 and 2 | 638,778.30 | 3,565,418.00 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2164 | Red 1 and 2 | 638,777.80 | 3,565,400.00 | 1,093.30 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2165 | Red 1 and 2 | 638,777.30 | 3,565,382.00 | 1,093.37 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2166 | Red 1 and 2 | 638,776.70 | 3,565,364.00 | 1,093.52 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2167 | Red 1 and 2 | 638,776.20 | 3,565,346.00 | 1,093.62 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2168 | Red 1 and 2 | 638,775.70 | 3,565,328.10 | 1,093.75 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2169 | Red 1 and 2 | 638,775.20 | 3,565,310.10 | 1,093.83 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2170 | Red 1 and 2 | 638,774.70 | 3,565,292.10 | 1,093.86 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2171 | Red 1 and 2 | 638,774.20 | 3,565,274.10 | 1,093.98 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2172 | Red 1 and 2 | 638,773.70 | 3,565,256.10 | 1,094.61 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2173 | Red 1 and 2 | 638,773.20 | 3,565,238.10 | 1,094.73 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2174 | Red 1 and 2 | 638,772.70 | 3,565,220.10 | 1,094.86 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2175 | Red 1 and 2 | 638,772.20 | 3,565,202.10 | 1,094.92 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2176 | Red 1 and 2 | 638,779.40 | 3,565,191.40 | 1,095.01 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2177 | Red 1 and 2 | 638,797.40 | 3,565,190.90 | 1,094.99 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2178 | Red 1 and 2 | 638,815.40 | 3,565,190.40 | 1,095.06 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2179 | Red 1 and 2 | 638,833.40 | 3,565,190.00 | 1,095.08 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2180 | Red 1 and 2 | 638,851.40 | 3,565,189.50 | 1,094.99 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2181 | Red 1 and 2 | 638,869.40 | 3,565,189.00 | 1,094.60 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2182 | Red 1 and 2 | 638,887.40 | 3,565,188.50 | 1,094.07 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2183 | Red 1 and 2 | 638,905.30 | 3,565,188.00 | 1,093.80 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2184 | Red 1 and 2 | 638,923.30 | 3,565,187.60 | 1,093.50 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2185 | Red 1 and 2 | 638,941.30 | 3,565,187.10 | 1,093.34 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2186 | Red 1 and 2 | 638,952.00 | 3,565,179.50 | 1,093.50 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2187 | Red 1 and 2 | 638,952.10 | 3,565,161.50 | 1,093.81 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2188 | Red 1 and 2 | 638,952.10 | 3,565,143.50 | 1,094.15 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2189 | Red 1 and 2 | 638,952.20 | 3,565,125.50 | 1,094.37 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2190 | Red 1 and 2 | 638,952.20 | 3,565,107.50 | 1,094.48 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2191 | Red 1 and 2 | 638,952.30 | 3,565,089.50 | 1,094.52 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2192 | Red 1 and 2 | 638,952.30 | 3,565,071.50 | 1,094.46 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2193 | Red 1 and 2 | 638,952.40 | 3,565,053.50 | 1,094.51 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2194 | Red 1 and 2 | 638,952.40 | 3,565,035.50 | 1,094.49 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2195 | Red 1 and 2 | 638,952.50 | 3,565,017.50 | 1,094.33 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2196 | Red 1 and 2 | 638,952.50 | 3,564,999.50 | 1,093.96 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2197 | Red 1 and 2 | 638,952.60 | 3,564,981.50 | 1,093.60 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2198 | Red 1 and 2 | 638,962.00 | 3,564,967.30 | 1,093.38 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2199 | Red 1 and 2 | 638,976.40 | 3,564,957.00 | 1,093.49 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2200 | Red 1 and 2 | 638,992.80 | 3,564,949.70 | 1,093.39 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2201 | Red 1 and 2 | 639,009.30 | 3,564,942.40 | 1,093.05 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2202 | Red 1 and 2 | 639,025.70 | 3,564,935.10 | 1,092.79 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2203 | Red 1 and 2 | 639,042.20 | 3,564,927.80 | 1,092.70 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2204 | Red 1 and 2 | 639,058.60 | 3,564,920.50 | 1,092.67 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2205 | Red 1 and 2 | 639,075.10 | 3,564,913.20 | 1,092.73 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2206 | Red 1 and 2 | 639,091.50 | 3,564,905.80 | 1,092.71 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2207 | Red 1 and 2 | 639,108.00 | 3,564,898.50 | 1,092.82 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2208 | Red 1 and 2 | 639,125.60 | 3,564,896.70 | 1,093.00 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2209 | Red 1 and 2 | 639,143.60 | 3,564,896.40 | 1,093.04 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2210 | Red 1 and 2 | 639,161.60 | 3,564,896.10 | 1,092.88 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2211 | Red 1 and 2 | 639,179.60 | 3,564,895.80 | 1,092.66 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2212 | Red 1 and 2 | 639,197.60 | 3,564,895.50 | 1,092.57 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2213 | Red 1 and 2 | 639,215.60 | 3,564,895.10 | 1,092.39 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2214 | Red 1 and 2 | 639,233.60 | 3,564,893.80 | 1,092.34 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2215 | Red 1 and 2 | 639,251.50 | 3,564,892.30 | 1,092.39 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2216 | Red 1 and 2 | 639,269.50 | 3,564,890.80 | 1,092.27 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2217 | Red 1 and 2 | 639,287.40 | 3,564,889.30 | 1,091.85 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2218 | Red 1 and 2 | 639,305.30 | 3,564,887.80 | 1,091.71 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2219 | Red 1 and 2 | 639,323.30 | 3,564,886.30 | 1,091.63 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2220 | Red 1 and 2 | 639,341.20 | 3,564,884.80 | 1,091.47 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2221 | Red 1 and 2 | 639,349.40 | 3,564,869.10 | 1,091.35 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2222 | Red 1 and 2 | 639,365.90 | 3,564,862.40 | 1,091.32 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |

| Volume Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | | | Long-Term Emissions (lb/hr) | | Short-Term Emissions (g/s) | | | Long-Term Emissions (g/s) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Release Height (m) | Initial Lateral Dimension (m) | Initial Vertical Dimension (m) | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| R1R2223 | Red 1 and 2 | 639,382.70 | 3,564,860.50 | 1,091.15 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1224 | Red 1 | 639,399.30 | 3,564,867.30 | 1,091.06 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| R1225 | Red 1 | 639,414.10 | 3,564,877.10 | 1,091.00 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| R1226 | Red 1 | 639,429.10 | 3,564,884.60 | 1,090.96 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| R1227 | Red 1 | 639,447.10 | 3,564,883.90 | 1,090.80 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| GRN228 | Green | 639,126.60 | 3,565,539.30 | 1,093.08 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN229 | Green | 639,133.90 | 3,565,522.80 | 1,093.27 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN230 | Green | 639,141.10 | 3,565,506.30 | 1,093.39 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN231 | Green | 639,148.30 | 3,565,489.80 | 1,093.43 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN232 | Green | 639,160.70 | 3,565,477.40 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN233 | Green | 639,174.90 | 3,565,466.30 | 1,093.49 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN234 | Green | 639,186.30 | 3,565,452.50 | 1,093.52 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN235 | Green | 639,189.90 | 3,565,435.10 | 1,093.58 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN236 | Green | 639,191.20 | 3,565,417.50 | 1,093.51 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN237 | Green | 639,182.20 | 3,565,401.90 | 1,093.51 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN238 | Green | 639,171.20 | 3,565,388.10 | 1,093.48 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN239 | Green | 639,154.80 | 3,565,383.20 | 1,093.48 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN240 | Green | 639,138.30 | 3,565,376.80 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN241 | Green | 639,121.30 | 3,565,375.80 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN242 | Green | 639,105.30 | 3,565,379.50 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| BLUE243 | Blue | 638,906.60 | 3,565,565.60 | 1,093.07 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE244 | Blue | 638,906.70 | 3,565,583.60 | 1,093.17 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE245 | Blue | 638,906.80 | 3,565,601.60 | 1,092.98 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE246 | Blue | 638,906.90 | 3,565,619.60 | 1,092.90 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE247 | Blue | 638,907.10 | 3,565,637.60 | 1,092.79 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE248 | Blue | 638,893.00 | 3,565,641.40 | 1,092.86 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE249 | Blue | 638,875.00 | 3,565,641.30 | 1,093.05 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE250 | Blue | 638,857.00 | 3,565,641.20 | 1,093.07 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE251 | Blue | 638,839.00 | 3,565,641.10 | 1,093.29 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE252 | Blue | 638,821.00 | 3,565,641.00 | 1,093.44 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE253 | Blue | 638,803.00 | 3,565,640.90 | 1,093.62 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE254 | Blue | 638,785.00 | 3,565,640.80 | 1,093.93 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE255 | Blue | 638,767.00 | 3,565,640.70 | 1,094.26 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE256 | Blue | 638,749.00 | 3,565,640.70 | 1,094.39 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE257 | Blue | 638,731.00 | 3,565,640.60 | 1,094.52 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE258 | Blue | 638,713.00 | 3,565,640.50 | 1,094.72 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE259 | Blue | 638,695.00 | 3,565,640.40 | 1,094.77 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE260 | Blue | 638,677.00 | 3,565,640.30 | 1,095.18 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE261 | Blue | 638,659.00 | 3,565,640.20 | 1,095.07 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE262 | Blue | 638,641.00 | 3,565,640.10 | 1,095.14 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE263 | Blue | 638,623.00 | 3,565,640.00 | 1,095.13 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE264 | Blue | 638,605.00 | 3,565,639.90 | 1,095.20 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE265 | Blue | 638,587.00 | 3,565,639.80 | 1,095.23 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE266 | Blue | 638,569.00 | 3,565,639.70 | 1,095.35 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE267 | Blue | 638,553.70 | 3,565,642.30 | 1,095.29 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE268 | Blue | 638,553.90 | 3,565,660.30 | 1,095.10 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE269 | Blue | 638,554.10 | 3,565,678.30 | 1,094.96 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE270 | Blue | 638,554.30 | 3,565,696.30 | 1,094.87 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE271 | Blue | 638,554.50 | 3,565,714.30 | 1,094.77 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE272 | Blue | 638,554.60 | 3,565,732.30 | 1,094.62 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE273 | Blue | 638,554.80 | 3,565,750.30 | 1,094.59 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| REC1 | Pig Receiver | 639,444.48 | 3,565,129.27 | 1,090.29 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 6.807E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 8.576E-06 | 0.000E+00 | 0.000E+00 |
| REC2 | Pig Receiver | 639,307.68 | 3,565,616.31 | 1,090.50 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 3.274E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 4.125E-06 | 0.000E+00 | 0.000E+00 |
| REC3 | Pig Receiver | 639,289.00 | 3,564,912.00 | 1,091.98 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 1.594E-04 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.009E-05 | 0.000E+00 | 0.000E+00 |
| REC4 | Pig Receiver | 639,286.00 | 3,564,921.00 | 1,092.09 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 3.551E-04 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 4.474E-05 | 0.000E+00 | 0.000E+00 |
| REC5 | Pig Receiver | 638,891.26 | 3,565,000.22 | 1,093.81 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 4.137E-04 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 5.212E-05 | 0.000E+00 | 0.000E+00 |
| REC8 | Pig Receiver | 639,430.70 | 3,565,122.22 | 1,090.20 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 2.348E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.959E-06 | 0.000E+00 | 0.000E+00 |
| REC9 | Pig Receiver | 639,429.84 | 3,565,538.30 | 1,090.24 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 6.136E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 7.732E-06 | 0.000E+00 | 0.000E+00 |
| LAU1 | Pig Launcher | 639,302.32 | 3,565,634.42 | 1,090.69 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 2.348E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.959E-06 | 0.000E+00 | 0.000E+00 |
| LAU2 | Pig Launcher | 639,652.45 | 3,564,850.18 | 1,089.03 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| LAU3 | Pig Launcher | 639,263.00 | 3,564,922.00 | 1,092.16 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| LAU4 | Pig Launcher | 639,303.12 | 3,565,242.78 | 1,093.00 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| LAU5 | Pig Launcher | 639,362.08 | 3,565,239.57 | 1,092.24 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| LAU6 | Pig Launcher | 639,221.30 | 3,565,513.72 | 1,093.24 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| 2LOAD | Sour Water Loading - AGI1 | 639,585.16 | 3,565,230.21 | 1,090.32 | 3.962 | 0.698 | 0.921 | 0.000E+00 | 0.000E+00 | 7.722E-02 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 9.729E-03 | 0.000E+00 | 0.000E+00 |
| 4LOAD | Sour Water Loading - AGI2 | 639,611.04 | 3,565,413.64 | 1,089.08 | 3.962 | 0.698 | 0.921 | 0.000E+00 | 0.000E+00 | 9.344E-02 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.177E-02 | 0.000E+00 | 0.000E+00 |
| COMB123 | Trains 1-3, 2.5, 5.5, FUG, FUG-AGI | 639,217.00 | 3,565,202.00 | 1,093.05 | 7.620 | 163.000 | 7.088 | 6.786E+00 | 6.770E-01 | 5.674E+00 | 2.316E-02 | 2.312E-03 | 8.551E-01 | 8.530E-02 | 0.71490 | 2.918E-03 | 2.914E-04 |
| COMB456 | Trains 4-6, FUG1 | 638,783.00 | 3,565,787.30 | 1,091.86 | 7.620 | 100.000 | 7.088 | 0.000E+00 | 0.000E+00 | 9.084E-02 | 1.390E-02 | 1.387E-03 | 0.000E+00 | 0.000E+00 | 0.011 | 1.751E-03 | 1.748E-04 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

**AERMOD Inputs Summary- Scenario 2 - Updated 5/21/2025**

| | Point Sources | | Stack Locations | | | Stack Parameters | | | | Short-Term Emissions (lb/hr) | | | | | | Long-Term Emissions (lb/hr) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Stack Height (m) | Stack Temperature (K) | Stack Velocity (m/s) | Stack Diameter (m) | 1-hr $NO_x$ | CO | 1-hr $SO_2$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $NO_x$ | Annual $SO_2$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 639,181.00 | 3,565,054.00 | 1,092.76 | 15.24 | 602.04 | 6.97 | 1.27 | 0.754 | 1.573 | 0.029 | 0.187 | 0.187 | 5.818E-04 | 0.754 | 0.029 | 0.187 | 0.187 |
| | 1.5EP1G | 10k Stabilizer Heater | 639,160.00 | 3,565,063.00 | 1,092.94 | 5.19 | 602.04 | 7.07 | 0.91 | 0.396 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 0.396 | 0.015 | 0.098 | 0.098 |
| | 4EP1G | 10 k Stabilizer Heater | 638,738.00 | 3,565,708.00 | 1,093.81 | 5.64 | 652.59 | 10.17 | 0.61 | 0.882 | 0.487 | 0.0090 | 0.058 | 0.058 | 1.802E-04 | 0.882 | 9.008E-03 | 0.058 | 0.058 |
| | 2EP1A | Mol Sieve Heater | 639,109.00 | 3,565,471.00 | 1,093.58 | 5.03 | 560.93 | 7.59 | 0.56 | 0.941 | 0.355 | 6.571E-03 | 0.067 | 0.067 | 1.314E-04 | 0.941 | 6.571E-03 | 0.067 | 0.067 |
| | 2EP1B | Cryo HMO Heater | 639,108.00 | 3,565,468.00 | 1,093.59 | 7.01 | 422.04 | 1.80 | 1.17 | 0.234 | 0.488 | 9.036E-03 | 0.092 | 0.092 | 1.807E-04 | 0.234 | 9.036E-03 | 0.092 | 0.092 |
| | 2EP1E | Glycol Reboiler | 638,985.00 | 3,565,317.00 | 1,093.32 | 8.10 | 602.04 | 2.85 | 0.61 | 0.392 | 0.148 | 2.738E-03 | 0.018 | 0.018 | 5.476E-05 | 0.392 | 2.738E-03 | 0.018 | 0.018 |
| | 2EP1H | Amine Reboiler | 639,024.00 | 3,565,335.00 | 1,093.36 | 8.38 | 477.59 | 13.85 | 1.07 | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2AEP1D | Amine Reboiler | 639,025.00 | 3,565,316.00 | 1,093.29 | 8.38 | 477.59 | 13.85 | 1.07 | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2.5EP1D | Amine Reboiler | 639,537.00 | 3,565,192.00 | 1,090.66 | 7.19 | 568.15 | 12.83 | 0.81 | 0.637 | 1.254 | 0.023 | 0.149 | 0.149 | 4.641E-04 | 0.637 | 0.023 | 0.149 | 0.149 |
| | 3EP1A | Mol Sieve Heater | 638,877.00 | 3,565,321.00 | 1,093.23 | 6.86 | 523.71 | 12.90 | 0.41 | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 3EP1B | Cryo HMO Heater | 638,886.00 | 3,565,318.00 | 1,093.25 | 8.08 | 523.71 | 9.05 | 0.71 | 0.404 | 0.733 | 0.014 | 0.087 | 0.087 | 2.711E-04 | 0.404 | 0.014 | 0.087 | 0.087 |
| | 3EP1E | Glycol Reboiler | 638,983.00 | 3,565,333.00 | 1,093.31 | 9.91 | 602.04 | 23.28 | 0.21 | 0.392 | 0.148 | 2.738E-03 | 0.018 | 0.018 | 5.476E-05 | 0.392 | 2.738E-03 | 0.018 | 0.018 |
| | 4EP1A | Mol Sieve Heater | 638,797.00 | 3,565,896.00 | 1,092.53 | 7.01 | 523.71 | 12.90 | 0.41 | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 4EP1B | Cryo HMO Heater | 638,789.00 | 3,565,898.00 | 1,092.61 | 8.23 | 523.71 | 10.19 | 0.71 | 0.455 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 0.455 | 0.015 | 0.098 | 0.098 |
| | 4EP1D | Amine Reboiler | 638,693.00 | 3,565,901.00 | 1,093.68 | 13.18 | 533.15 | 35.70 | 0.71 | 1.537 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 1.537 | 0.053 | 0.338 | 0.338 |
| | 4EP1E | Glycol Reboiler | 638,738.00 | 3,565,903.00 | 1,093.00 | 8.15 | 533.15 | 1.86 | 0.71 | 0.392 | 0.148 | 2.738E-03 | 0.018 | 0.018 | 5.476E-05 | 0.392 | 2.738E-03 | 0.018 | 0.018 |
| | 4EP1H | Amine Reboiler | 638,694.00 | 3,565,881.00 | 1,093.67 | 13.18 | 533.15 | 35.70 | 0.71 | 1.537 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 1.537 | 0.053 | 0.338 | 0.338 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 638,586.00 | 3,565,901.00 | 1,094.68 | 13.79 | 533.71 | 14.21 | 1.22 | 1.800 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.800 | 0.062 | 0.396 | 0.396 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 638,587.00 | 3,565,881.00 | 1,094.74 | 13.79 | 533.71 | 14.21 | 1.22 | 1.800 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.800 | 0.062 | 0.396 | 0.396 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 638,925.00 | 3,565,919.00 | 1,091.89 | 6.93 | 523.71 | 4.15 | 0.71 | 0.481 | 0.336 | 6.215E-03 | 0.040 | 0.040 | 1.243E-04 | 0.481 | 6.215E-03 | 0.040 | 0.040 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 638,915.00 | 3,565,920.00 | 1,092.07 | 9.14 | 523.71 | 5.27 | 1.22 | 0.693 | 1.258 | 0.023 | 0.150 | 0.150 | 4.653E-04 | 0.693 | 0.023 | 0.150 | 0.150 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 638,907.00 | 3,565,921.00 | 1,092.15 | 8.59 | 560.93 | 13.60 | 0.41 | 0.482 | 0.337 | 6.229E-03 | 0.040 | 0.040 | 1.246E-04 | 0.482 | 6.229E-03 | 0.040 | 0.040 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 638,895.00 | 3,565,918.00 | 1,092.20 | 11.20 | 523.71 | 11.81 | 0.81 | 0.690 | 1.252 | 0.023 | 0.149 | 0.149 | 4.634E-04 | 0.690 | 0.023 | 0.149 | 0.149 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 638,584.00 | 3,565,932.00 | 1,094.69 | 13.93 | 510.93 | 13.61 | 1.22 | 1.880 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.880 | 0.062 | 0.396 | 0.396 |
| | 5.5EP1A | AGI 2 HMO Heater | 639,562.00 | 3,565,404.00 | 1,089.73 | 13.72 | 510.93 | 40.10 | 0.71 | 1.880 | 3.302 | 0.061 | 0.393 | 0.393 | 1.222E-03 | 1.880 | 0.061 | 0.393 | 0.393 |
| Flares | 1EP2 | Flare (SSM) | 639,217.00 | 3,565,202.00 | 1,093.05 | 51.27 | 1273.00 | 20.00 | 9.14 | 211.681 | 1811.272 | 2.024 | - | - | 0.024 | 5.63E-01 | 1.49E-01 | - | - |
| | 2EP2A | Emergency Flare A (Inlet) | 639,187.00 | 3,565,436.00 | 1,093.60 | 80.71 | 1273.00 | 20.00 | 14.92 | 563.351 | 4827.796 | 5.002 | - | - | 0.060 | 3.69E-01 | 1.69E-03 | - | - |
| | 2.5EP5 | Emergency AGI Flare | 639,512.00 | 3,565,274.00 | 1,090.62 | 64.71 | 1273.00 | 20.00 | 5.48 | 16.871 | 144.653 | 259.566 | - | - | 2.847 | 7.12E-02 | 1.02E-03 | - | - |
| | 3EP2A | Flare (SSM) | 638,844.00 | 3,565,244.00 | 1,093.95 | 80.71 | 1273.00 | 20.00 | 14.92 | 563.351 | 4827.796 | 5.002 | - | - | 0.060 | 3.69E-01 | 1.69E-03 | - | - |
| | 4EP2A | Flare (SSM) | 638,832.00 | 3,565,976.00 | 1,092.68 | 84.19 | 1273.00 | 20.00 | 16.00 | 648.307 | 5552.871 | 5.754 | - | - | 0.069 | 3.69E-01 | 1.69E-03 | - | - |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 638,958.00 | 3,565,980.00 | 1,092.68 | 114.36 | 1273.00 | 20.00 | 16.00 | 648.184 | 5552.625 | 5.753 | - | - | 0.069 | 7.55E-01 | 3.45E-03 | - | - |
| | 5.5EP1B | AGI 2 Flare SSM | 639,542.00 | 3,565,339.00 | 1,090.58 | 45.71 | 1273.00 | 20.00 | 0.38 | 0.172 | 1.471 | 1.832E-03 | - | - | 6.885E-06 | 1.72E-01 | 1.83E-03 | - | - |
| | EP9 | Sour Slop Tank Control Flare | 639,595.00 | 3,565,278.00 | 1,090.20 | 6.73 | 1273.00 | 20.00 | 0.08 | 0.048 | 0.222 | 1.595 | - | - | 0.020 | 7.07E-03 | 1.60E+00 | - | - |
| | EP13 | Sour Water Tanks Flare | 639,628.00 | 3,565,443.00 | 1,088.96 | 7.95 | 1273.00 | 20.00 | 0.08 | 0.238 | 0.978 | 1.813 | - | - | 0.024 | 7.08E-03 | 1.81E+00 | - | - |
| | EP79 | Condensate Tank Flare | 639,513.00 | 3,564,914.00 | 1,090.35 | 9.67 | 1273.00 | 20.00 | 0.13 | 7.730 | 30.759 | 6.588E-05 | - | - | 7.143E-07 | 6.84E-02 | 6.59E-05 | - | - |
| | RH4FLTK | Slop Water Storage Tanks Flare | 638,538.90 | 3,565,835.00 | 1,095.05 | 9.67 | 1273.00 | 20.00 | 0.13 | 0.991 | 1.978 | 6.588E-05 | - | - | 7.143E-07 | 9.91E-01 | 6.59E-05 | - | - |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 639,010.00 | 3,565,298.00 | 1,093.20 | 18.82 | 1088.71 | 1.38 | 3.05 | 1.706 | 6.272 | 19.361 | 0.671 | 0.671 | 9.754 | 1.521 | 19.361 | 0.671 | 0.671 |
| | EP8 | Thermal Oxidizer | 638,713.00 | 3,565,923.00 | 1,093.43 | 20.73 | 1088.71 | 1.65 | 3.05 | 1.250 | 0.761 | 14.074 | 0.596 | 0.596 | 6.441 | 1.353 | 14.075 | 0.596 | 0.596 |
| | EP10 | Thermal Oxidizer | 638,602.00 | 3,565,931.00 | 1,094.55 | 23.16 | 1255.37 | 117.56 | 3.05 | 1.240 | 0.755 | 14.149 | 0.559 | 0.559 | 6.471 | 1.345 | 14.150 | 0.559 | 0.559 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | 638,497.00 | 3,565,657.00 | 1,095.25 | 1.83 | 0.00 | 0.30 | 0.33 | - | - | - | - | - | 1.480E-04 | - | - | - | - |
| Generators | GEN1 | Diesel Fired Generator | 638,698.70 | 3,565,483.20 | 1,095.40 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN2 | Diesel Fired Generator | 638,692.10 | 3,565,483.20 | 1,095.46 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN3 | Diesel Fired Generator | 638,682.10 | 3,565,483.20 | 1,095.50 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN4 | Diesel Fired Generator | 638,672.10 | 3,565,483.20 | 1,095.57 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN5 | Diesel Fired Generator | 638,662.10 | 3,565,483.10 | 1,095.65 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN6 | Diesel Fired Generator | 638,652.10 | 3,565,483.10 | 1,095.74 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN7 | Diesel Fired Generator | 638,642.10 | 3,565,483.10 | 1,095.79 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN8 | Diesel Fired Generator | 638,637.00 | 3,565,488.10 | 1,095.79 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN9 | Diesel Fired Generator | 638,636.90 | 3,565,498.10 | 1,095.75 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN10 | Diesel Fired Generator | 638,636.50 | 3,565,538.10 | 1,095.50 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 638,692.10 | 3,565,483.20 | 1,095.46 | 4.51 | 689.82 | 93.21 | 0.21 | 0.305 | 0.185 | 0.594 | 0.023 | 0.023 | - | 0.0014 | 0.0027 | 0.0001 | 0.0001 |
| | GEN_WW | Well Water Generator | 638,377.00 | 3,565,219.00 | 1,093.36 | 4.57 | 500.00 | 5.00 | 0.08 | 0.009 | 0.081 | 0.001 | 0.087 | 0.087 | - | 0.0086 | 0.0011 | 0.0012 | 0.0012 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## AERMOD Inputs Summary- Scenario 2 - Updatd 5/21/2025

| | Point Sources | | Short-Term Emissions (g/s) | | | | | | Long-Term Emissions (g/s) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Emission Units** | **Description** | **1-hr $NO_x$** | **CO** | **1-hr $SO_2$** | **24-hr $PM_{10}$** | **24-hr $PM_{2.5}$** | **$H_2S$** | **Annual $NO_x$** | **Annual $SO_2$** | **Annual $PM_{10}$** | **Annual $PM_{2.5}$** |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 0.095 | 0.198 | 3.665E-03 | 0.024 | 0.024 | 7.331E-05 | 0.095 | 3.665E-03 | 0.024 | 0.024 |
| | 1.5EP1G | 10k Stabilizer Heater | 0.050 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.050 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1G | 10 k Stabilizer Heater | 0.111 | 0.061 | 1.135E-03 | 7.296E-03 | 7.296E-03 | 2.270E-05 | 0.111 | 1.135E-03 | 7.296E-03 | 7.296E-03 |
| | 2EP1A | Mol Sieve Heater | 0.119 | 0.045 | 8.280E-04 | 8.467E-03 | 8.467E-03 | 1.656E-05 | 0.119 | 8.280E-04 | 8.467E-03 | 8.467E-03 |
| | 2EP1B | Cryo HMO Heater | 0.030 | 0.062 | 1.138E-03 | 0.012 | 0.012 | 2.277E-05 | 0.030 | 1.138E-03 | 0.012 | 0.012 |
| | 2EP1E | Gylcol Reboiler | 0.049 | 0.019 | 3.450E-04 | 2.218E-03 | 2.218E-03 | 6.900E-06 | 0.049 | 3.450E-04 | 2.218E-03 | 2.218E-03 |
| | 2EP1H | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2AEP1D | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2.5EP1D | Amine Reboiler | 0.080 | 0.158 | 2.924E-03 | 0.019 | 0.019 | 5.848E-05 | 0.080 | 2.924E-03 | 0.019 | 0.019 |
| | 3EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 3EP1B | Cryo HMO Heater | 0.051 | 0.092 | 1.708E-03 | 0.011 | 0.011 | 3.415E-05 | 0.051 | 1.708E-03 | 0.011 | 0.011 |
| | 3EP1E | Glycol Reboiler | 0.049 | 0.019 | 3.450E-04 | 2.218E-03 | 2.218E-03 | 6.900E-06 | 0.049 | 3.450E-04 | 2.218E-03 | 2.218E-03 |
| | 4EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 4EP1B | Cryo HMO Heater | 0.057 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.057 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1D | Amine Reboiler | 0.194 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.194 | 6.618E-03 | 0.043 | 0.043 |
| | 4EP1E | Glycol Reboiler | 0.049 | 0.019 | 3.450E-04 | 2.218E-03 | 2.218E-03 | 6.900E-06 | 0.049 | 3.450E-04 | 2.218E-03 | 2.218E-03 |
| | 4EP1H | Amine Reboiler | 0.194 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.194 | 6.618E-03 | 0.043 | 0.043 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 0.227 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.227 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 0.227 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.227 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 0.061 | 0.042 | 7.831E-04 | 5.034E-03 | 5.034E-03 | 1.566E-05 | 0.061 | 7.831E-04 | 5.034E-03 | 5.034E-03 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 0.087 | 0.158 | 2.932E-03 | 0.019 | 0.019 | 5.863E-05 | 0.087 | 2.932E-03 | 0.019 | 0.019 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 0.061 | 0.042 | 7.848E-04 | 5.045E-03 | 5.045E-03 | 1.570E-05 | 0.061 | 7.848E-04 | 5.045E-03 | 5.045E-03 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 0.087 | 0.158 | 2.919E-03 | 0.019 | 0.019 | 5.839E-05 | 0.087 | 2.919E-03 | 0.019 | 0.019 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 0.237 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.237 | 7.757E-03 | 0.050 | 0.050 |
| | 5.5EP1A | AGI 2 HMO Heater | 0.237 | 0.416 | 7.697E-03 | 0.049 | 0.049 | 1.539E-04 | 0.237 | 7.697E-03 | 0.049 | 0.049 |
| Flares | 1EP2 | Flare (SSM) | 26.671 | 228.216 | 0.255 | 0 | 0 | 3.042E-03 | 0.071 | 0.019 | 0 | 0 |
| | 2EP2A | Emergency Flare A (Inlet) | 70.981 | 608.292 | 0.630 | 0 | 0 | 7.586E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 2.5EP5 | Emergency AGI Flare | 2.126 | 18.226 | 32.705 | 0 | 0 | 0.359 | 8.976E-03 | 1.291E-04 | 0 | 0 |
| | 3EP2A | Flare (SSM) | 70.981 | 608.292 | 0.630 | 0 | 0 | 7.546E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 4EP2A | Flare (SSM) | 81.685 | 699.650 | 0.725 | 0 | 0 | 8.722E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 81.670 | 699.619 | 0.725 | 0 | 0 | 8.679E-03 | 0.095 | 4.353E-04 | 0 | 0 |
| | 5.5EP1B | AGI 2 Flare SSM | 0.022 | 0.185 | 2.308E-04 | 0 | 0 | 8.675E-07 | 0.022 | 2.308E-04 | 0 | 0 |
| | EP9 | Sour Slop Tank Control Flare | 6.066E-03 | 0.028 | 0.201 | 0 | 0 | 2.535E-03 | 8.908E-04 | 0.201 | 0 | 0 |
| | EP13 | Sour Water Tanks Flare | 0.030 | 0.123 | 0.228 | 0 | 0 | 2.965E-03 | 8.921E-04 | 0.228 | 0 | 0 |
| | EP79 | Condensate Tank Flare | 0.974 | 3.876 | 8.301E-06 | 0 | 0 | 9.000E-08 | 8.619E-03 | 8.301E-06 | 0 | 0 |
| | RH4FLTK | Slop Water Storage Tanks Flare | 0.125 | 0.249 | 8.301E-06 | 0 | 0 | 9.000E-08 | 0.125 | 8.301E-06 | 0 | 0 |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 0.215 | 0.790 | 2.439 | 0.084 | 0.084 | 1.229 | 0.192 | 2.439 | 0.084 | 0.084 |
| | EP8 | Thermal Oxidizer | 0.157 | 0.096 | 1.773 | 0.075 | 0.075 | 0.812 | 0.170 | 1.773 | 0.075 | 0.075 |
| | EP10 | Thermal Oxidizer | 0.156 | 0.095 | 1.783 | 0.070 | 0.070 | 0.815 | 0.169 | 1.783 | 0.070 | 0.070 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | - | 0 | 0 | 0 | 0 | 1.865E-05 | 0 | 0 | 0 | 0 |
| Generators | GEN1 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN2 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN3 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN4 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN5 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN6 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN7 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN8 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN9 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN10 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 3.839E-02 | 2.328E-02 | 7.488E-02 | 2.950E-03 | 2.950E-03 | 0.000E+00 | 1.753E-04 | 3.419E-04 | 1.347E-05 | 1.347E-05 |
| | GEN_WW | Well Water Generator | 1.089E-03 | 1.017E-02 | 1.402E-04 | 1.094E-02 | 1.094E-02 | 0.000E+00 | 1.089E-03 | 1.402E-04 | 1.498E-04 | 1.498E-04 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## AERMOD Inputs Summary- Scenario 2 - Updated 5/21/2025

| Volume Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | | | Long-Term Emissions | | Short-Term Emissions (g/s) | | | Long-Term Emissions (g/s) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Release Height (m) | Initial Lateral Dimension (m) | Initial Vertical Dimension (m) | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| RRGBOO01 | RRGBOO | 638,556.70 | 3,565,558.40 | 1,096.16 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO02 | RRGBOO | 638,573.60 | 3,565,559.30 | 1,096.00 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO03 | RRGBOO | 638,591.60 | 3,565,559.10 | 1,095.88 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO04 | RRGBOO | 638,609.60 | 3,565,558.90 | 1,095.75 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO05 | RRGBOO | 638,627.60 | 3,565,558.70 | 1,095.41 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO06 | RRGBOO | 638,645.60 | 3,565,558.50 | 1,095.32 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO07 | RRGBOO | 638,663.60 | 3,565,558.30 | 1,095.19 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO08 | RRGBOO | 638,681.60 | 3,565,558.10 | 1,094.92 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO09 | RRGBOO | 638,699.60 | 3,565,557.90 | 1,094.78 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO10 | RRGBOO | 638,717.60 | 3,565,557.80 | 1,094.59 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO11 | RRGBOO | 638,735.60 | 3,565,557.60 | 1,094.46 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO12 | RRGBOO | 638,753.60 | 3,565,557.40 | 1,094.34 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO13 | RRGBOO | 638,771.60 | 3,565,557.20 | 1,093.91 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO14 | RRGBOO | 638,789.60 | 3,565,557.00 | 1,093.11 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO15 | RRGBOO | 638,807.60 | 3,565,556.80 | 1,093.08 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO16 | RRGBOO | 638,825.60 | 3,565,556.60 | 1,093.01 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO17 | RRGBOO | 638,843.60 | 3,565,556.40 | 1,092.93 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO18 | RRGBOO | 638,861.60 | 3,565,556.20 | 1,092.85 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO19 | RRGBOO | 638,879.60 | 3,565,556.00 | 1,092.78 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO20 | RRGBOO | 638,897.60 | 3,565,555.80 | 1,092.72 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGOO066 | RRGOO | 638,918.50 | 3,565,555.60 | 1,092.64 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO067 | RRGOO | 638,936.50 | 3,565,555.50 | 1,092.59 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO068 | RRGOO | 638,954.50 | 3,565,555.30 | 1,092.51 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO069 | RRGOO | 638,972.50 | 3,565,555.10 | 1,092.44 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO070 | RRGOO | 638,990.50 | 3,565,555.00 | 1,092.35 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO071 | RRGOO | 639,008.50 | 3,565,554.80 | 1,092.33 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO072 | RRGOO | 639,026.50 | 3,565,554.70 | 1,092.03 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO073 | RRGOO | 639,044.50 | 3,565,554.50 | 1,092.26 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO074 | RRGOO | 639,062.50 | 3,565,554.30 | 1,092.24 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO075 | RRGOO | 639,080.50 | 3,565,554.20 | 1,092.27 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO076 | RRGOO | 639,098.50 | 3,565,554.00 | 1,092.43 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO077 | RRGOO | 639,116.50 | 3,565,553.90 | 1,092.27 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| O1O2078 | Orange 1 and 2 | 639,129.30 | 3,565,546.40 | 1,092.95 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2079 | Orange 1 and 2 | 639,139.60 | 3,565,531.70 | 1,093.18 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2080 | Orange 1 and 2 | 639,150.00 | 3,565,517.00 | 1,093.31 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2081 | Orange 1 and 2 | 639,160.30 | 3,565,502.30 | 1,093.40 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2082 | Orange 1 and 2 | 639,170.70 | 3,565,487.50 | 1,093.43 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2083 | Orange 1 and 2 | 639,181.00 | 3,565,472.80 | 1,093.46 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2084 | Orange 1 and 2 | 639,191.40 | 3,565,458.10 | 1,093.49 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2085 | Orange 1 and 2 | 639,201.80 | 3,565,443.40 | 1,093.44 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2086 | Orange 1 and 2 | 639,212.10 | 3,565,428.60 | 1,093.37 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2087 | Orange 1 and 2 | 639,205.80 | 3,565,414.60 | 1,093.42 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2088 | Orange 1 and 2 | 639,194.30 | 3,565,400.80 | 1,093.49 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2089 | Orange 1 and 2 | 639,182.80 | 3,565,387.00 | 1,093.48 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2090 | Orange 1 and 2 | 639,171.30 | 3,565,373.10 | 1,093.45 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2091 | Orange 1 and 2 | 639,159.70 | 3,565,359.30 | 1,093.42 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2092 | Orange 1 and 2 | 639,148.20 | 3,565,345.50 | 1,093.36 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2093 | Orange 1 and 2 | 639,136.70 | 3,565,331.70 | 1,093.29 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2094 | Orange 1 and 2 | 639,125.10 | 3,565,317.80 | 1,093.21 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2095 | Orange 1 and 2 | 639,113.60 | 3,565,304.00 | 1,093.14 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2096 | Orange 1 and 2 | 639,102.10 | 3,565,290.20 | 1,093.07 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2097 | Orange 1 and 2 | 639,094.60 | 3,565,274.90 | 1,092.95 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2098 | Orange 1 and 2 | 639,095.10 | 3,565,257.00 | 1,093.33 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2099 | Orange 1 and 2 | 639,099.40 | 3,565,242.90 | 1,093.32 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2100 | Orange 1 and 2 | 639,117.40 | 3,565,242.70 | 1,093.31 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2101 | Orange 1 and 2 | 639,135.40 | 3,565,242.40 | 1,093.40 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2102 | Orange 1 and 2 | 639,153.40 | 3,565,242.10 | 1,093.47 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2103 | Orange 1 and 2 | 639,171.40 | 3,565,241.90 | 1,093.48 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2104 | Orange 1 and 2 | 639,189.40 | 3,565,241.60 | 1,093.35 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2105 | Orange 1 and 2 | 639,207.40 | 3,565,241.40 | 1,093.27 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2106 | Orange 1 and 2 | 639,225.40 | 3,565,241.10 | 1,093.16 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2107 | Orange 1 and 2 | 639,243.40 | 3,565,240.80 | 1,093.05 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2108 | Orange 1 and 2 | 639,261.40 | 3,565,240.60 | 1,093.00 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2109 | Orange 1 and 2 | 639,279.40 | 3,565,240.30 | 1,092.98 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2110 | Orange 1 and 2 | 639,297.40 | 3,565,240.00 | 1,092.96 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2111 | Orange 1 and 2 | 639,315.40 | 3,565,239.80 | 1,092.88 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2112 | Orange 1 and 2 | 639,333.40 | 3,565,239.50 | 1,092.63 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2113 | Orange 1 and 2 | 639,351.40 | 3,565,239.20 | 1,092.34 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2114 | Orange 1 and 2 | 639,369.40 | 3,565,239.00 | 1,092.26 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2115 | Orange 1 and 2 | 639,387.40 | 3,565,238.70 | 1,092.23 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2116 | Orange 1 and 2 | 639,405.40 | 3,565,238.40 | 1,091.12 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2117 | Orange 1 and 2 | 639,423.30 | 3,565,238.90 | 1,090.19 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2118 | Orange 1 and 2 | 639,439.80 | 3,565,246.00 | 1,090.23 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2119 | Orange 1 and 2 | 639,456.40 | 3,565,253.10 | 1,090.33 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2120 | Orange 1 and 2 | 639,472.90 | 3,565,260.20 | 1,090.41 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2121 | Orange 1 and 2 | 639,489.40 | 3,565,267.30 | 1,090.49 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1O2122 | Orange 1 and 2 | 639,506.00 | 3,565,274.30 | 1,090.58 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1123 | Orange 1 | 639,523.20 | 3,565,278.50 | 1,090.65 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1124 | Orange 1 | 639,541.20 | 3,565,279.30 | 1,090.60 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1125 | Orange 1 | 639,559.20 | 3,565,280.10 | 1,090.46 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1126 | Orange 1 | 639,561.70 | 3,565,262.80 | 1,090.46 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1127 | Orange 1 | 639,564.90 | 3,565,245.20 | 1,090.42 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1128 | Orange 1 | 639,569.30 | 3,565,227.70 | 1,090.40 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1129 | Orange 1 | 639,572.60 | 3,565,210.00 | 1,090.38 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O2130 | Orange 2 | 639,539.50 | 3,565,286.70 | 1,090.61 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2131 | Orange 2 | 639,556.60 | 3,565,292.50 | 1,090.48 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2132 | Orange 2 | 639,573.60 | 3,565,298.30 | 1,090.36 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2133 | Orange 2 | 639,588.20 | 3,565,308.70 | 1,090.26 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2134 | Orange 2 | 639,602.60 | 3,565,319.60 | 1,089.83 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2135 | Orange 2 | 639,614.20 | 3,565,333.00 | 1,089.20 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2136 | Orange 2 | 639,624.50 | 3,565,347.80 | 1,089.43 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2137 | Orange 2 | 639,634.80 | 3,565,362.50 | 1,089.83 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2138 | Orange 2 | 639,635.70 | 3,565,380.40 | 1,089.02 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2139 | Orange 2 | 639,636.10 | 3,565,398.40 | 1,088.86 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2140 | Orange 2 | 639,636.40 | 3,565,416.40 | 1,088.80 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| R1R2141 | Red 1 and 2 | 639,120.60 | 3,565,537.90 | 1,093.12 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2142 | Red 1 and 2 | 639,117.20 | 3,565,524.70 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2143 | Red 1 and 2 | 639,099.20 | 3,565,525.40 | 1,093.24 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2144 | Red 1 and 2 | 639,081.20 | 3,565,526.20 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2145 | Red 1 and 2 | 639,063.20 | 3,565,526.90 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2146 | Red 1 and 2 | 639,045.20 | 3,565,527.70 | 1,093.23 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2147 | Red 1 and 2 | 639,027.30 | 3,565,528.40 | 1,093.16 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2148 | Red 1 and 2 | 639,009.30 | 3,565,529.20 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## AERMOD Inputs Summary- Scenario 2 - Updated 5/21/2025

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R1R2157 | Red 1 and 2 | 638,855.20 | 3,565,483.90 | 1,093.39 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2158 | Red 1 and 2 | 638,838.30 | 3,565,477.70 | 1,093.42 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2159 | Red 1 and 2 | 638,822.20 | 3,565,469.80 | 1,093.38 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2160 | Red 1 and 2 | 638,806.50 | 3,565,460.90 | 1,093.26 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2161 | Red 1 and 2 | 638,793.70 | 3,565,448.70 | 1,093.11 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2162 | Red 1 and 2 | 638,782.40 | 3,565,434.70 | 1,093.04 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2163 | Red 1 and 2 | 638,778.30 | 3,565,418.00 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2164 | Red 1 and 2 | 638,777.80 | 3,565,400.00 | 1,093.30 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2165 | Red 1 and 2 | 638,777.30 | 3,565,382.00 | 1,093.37 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2166 | Red 1 and 2 | 638,776.70 | 3,565,364.00 | 1,093.52 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2167 | Red 1 and 2 | 638,776.20 | 3,565,346.00 | 1,093.62 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2168 | Red 1 and 2 | 638,775.70 | 3,565,328.10 | 1,093.75 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2169 | Red 1 and 2 | 638,775.20 | 3,565,310.10 | 1,093.83 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2170 | Red 1 and 2 | 638,774.70 | 3,565,292.10 | 1,093.86 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2171 | Red 1 and 2 | 638,774.20 | 3,565,274.10 | 1,093.98 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2172 | Red 1 and 2 | 638,773.70 | 3,565,256.10 | 1,094.61 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2173 | Red 1 and 2 | 638,773.20 | 3,565,238.10 | 1,094.73 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2174 | Red 1 and 2 | 638,772.70 | 3,565,220.10 | 1,094.86 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2175 | Red 1 and 2 | 638,772.20 | 3,565,202.10 | 1,094.92 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2176 | Red 1 and 2 | 638,779.40 | 3,565,191.40 | 1,095.01 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2177 | Red 1 and 2 | 638,797.40 | 3,565,190.90 | 1,094.99 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2178 | Red 1 and 2 | 638,815.40 | 3,565,190.40 | 1,095.06 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2179 | Red 1 and 2 | 638,833.40 | 3,565,190.00 | 1,095.08 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2180 | Red 1 and 2 | 638,851.40 | 3,565,189.50 | 1,094.99 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2181 | Red 1 and 2 | 638,869.40 | 3,565,189.00 | 1,094.60 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2182 | Red 1 and 2 | 638,887.40 | 3,565,188.50 | 1,094.07 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2183 | Red 1 and 2 | 638,905.30 | 3,565,188.00 | 1,093.80 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2184 | Red 1 and 2 | 638,923.30 | 3,565,187.60 | 1,093.50 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2185 | Red 1 and 2 | 638,941.30 | 3,565,187.10 | 1,093.34 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2186 | Red 1 and 2 | 638,952.00 | 3,565,179.50 | 1,093.50 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2187 | Red 1 and 2 | 638,952.10 | 3,565,161.50 | 1,093.81 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2188 | Red 1 and 2 | 638,952.10 | 3,565,143.50 | 1,094.15 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2189 | Red 1 and 2 | 638,952.20 | 3,565,125.50 | 1,094.37 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2190 | Red 1 and 2 | 638,952.20 | 3,565,107.50 | 1,094.48 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2191 | Red 1 and 2 | 638,952.30 | 3,565,089.50 | 1,094.52 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2192 | Red 1 and 2 | 638,952.30 | 3,565,071.50 | 1,094.46 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2193 | Red 1 and 2 | 638,952.40 | 3,565,053.50 | 1,094.51 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2194 | Red 1 and 2 | 638,952.40 | 3,565,035.50 | 1,094.49 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2195 | Red 1 and 2 | 638,952.50 | 3,565,017.50 | 1,094.33 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2196 | Red 1 and 2 | 638,952.50 | 3,564,999.50 | 1,093.96 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2197 | Red 1 and 2 | 638,952.60 | 3,564,981.50 | 1,093.60 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2198 | Red 1 and 2 | 638,962.00 | 3,564,967.30 | 1,093.38 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2199 | Red 1 and 2 | 638,976.40 | 3,564,957.00 | 1,093.49 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2200 | Red 1 and 2 | 638,992.80 | 3,564,949.70 | 1,093.39 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2201 | Red 1 and 2 | 639,009.30 | 3,564,942.40 | 1,093.05 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2202 | Red 1 and 2 | 639,025.70 | 3,564,935.10 | 1,092.79 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2203 | Red 1 and 2 | 639,042.20 | 3,564,927.80 | 1,092.70 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2204 | Red 1 and 2 | 639,058.60 | 3,564,920.50 | 1,092.67 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2205 | Red 1 and 2 | 639,075.10 | 3,564,913.20 | 1,092.73 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2206 | Red 1 and 2 | 639,091.50 | 3,564,905.80 | 1,092.71 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2207 | Red 1 and 2 | 639,108.00 | 3,564,898.50 | 1,092.82 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2208 | Red 1 and 2 | 639,125.60 | 3,564,896.70 | 1,093.00 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2209 | Red 1 and 2 | 639,143.60 | 3,564,896.40 | 1,093.04 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2210 | Red 1 and 2 | 639,161.60 | 3,564,896.10 | 1,092.88 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2211 | Red 1 and 2 | 639,179.60 | 3,564,895.80 | 1,092.58 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2212 | Red 1 and 2 | 639,197.60 | 3,564,895.50 | 1,092.57 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2213 | Red 1 and 2 | 639,215.60 | 3,564,895.10 | 1,092.39 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2214 | Red 1 and 2 | 639,233.60 | 3,564,893.80 | 1,092.34 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2215 | Red 1 and 2 | 639,251.50 | 3,564,892.30 | 1,092.29 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2216 | Red 1 and 2 | 639,269.50 | 3,564,890.80 | 1,092.27 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2217 | Red 1 and 2 | 639,287.40 | 3,564,889.30 | 1,091.85 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2218 | Red 1 and 2 | 639,305.30 | 3,564,887.80 | 1,091.71 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2219 | Red 1 and 2 | 639,223.80 | 3,564,886.30 | 1,091.63 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2220 | Red 1 and 2 | 639,341.20 | 3,564,884.80 | 1,091.47 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2221 | Red 1 and 2 | 639,349.40 | 3,564,869.10 | 1,091.35 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2222 | Red 1 and 2 | 639,365.90 | 3,564,862.40 | 1,091.32 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2223 | Red 1 and 2 | 639,382.70 | 3,564,860.50 | 1,091.15 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1224 | Red 1 | 639,399.30 | 3,564,867.30 | 1,091.06 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| R1225 | Red 1 | 639,414.10 | 3,564,877.10 | 1,091.00 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| R1226 | Red 1 | 639,429.10 | 3,564,884.60 | 1,090.96 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| R1227 | Red 1 | 639,447.10 | 3,564,883.90 | 1,090.80 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| GRN228 | Green | 639,126.60 | 3,565,309.30 | 1,093.08 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN229 | Green | 639,133.90 | 3,565,522.80 | 1,093.27 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN230 | Green | 639,141.10 | 3,565,506.30 | 1,093.39 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN231 | Green | 639,148.30 | 3,565,489.80 | 1,093.43 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN232 | Green | 639,160.70 | 3,565,477.40 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN233 | Green | 639,174.90 | 3,565,466.30 | 1,093.49 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN234 | Green | 639,186.30 | 3,565,452.50 | 1,093.52 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN235 | Green | 639,189.90 | 3,565,435.10 | 1,093.58 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN236 | Green | 639,191.20 | 3,565,417.50 | 1,093.51 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN237 | Green | 639,182.20 | 3,565,401.90 | 1,093.51 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN238 | Green | 639,171.20 | 3,565,388.10 | 1,093.48 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN239 | Green | 639,154.80 | 3,565,383.20 | 1,093.48 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN240 | Green | 639,138.30 | 3,565,376.80 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN241 | Green | 639,121.30 | 3,565,375.80 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN242 | Green | 639,105.30 | 3,565,379.50 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| BLUE243 | Blue | 638,906.60 | 3,565,565.60 | 1,093.07 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE244 | Blue | 638,906.70 | 3,565,583.60 | 1,093.17 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE245 | Blue | 638,906.80 | 3,565,601.60 | 1,092.98 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE246 | Blue | 638,906.90 | 3,565,619.60 | 1,092.90 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE247 | Blue | 638,907.10 | 3,565,637.60 | 1,092.79 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE248 | Blue | 638,893.00 | 3,565,641.40 | 1,092.86 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE249 | Blue | 638,875.00 | 3,565,641.30 | 1,093.05 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE250 | Blue | 638,857.00 | 3,565,641.20 | 1,093.07 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE251 | Blue | 638,839.00 | 3,565,641.10 | 1,093.29 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE252 | Blue | 638,821.00 | 3,565,641.00 | 1,093.44 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE253 | Blue | 638,803.00 | 3,565,640.90 | 1,093.62 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE254 | Blue | 638,785.00 | 3,565,640.80 | 1,093.93 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE255 | Blue | 638,767.00 | 3,565,640.70 | 1,094.26 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE256 | Blue | 638,749.00 | 3,565,640.70 | 1,094.39 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE257 | Blue | 638,731.00 | 3,565,640.60 | 1,094.52 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE258 | Blue | 638,713.00 | 3,565,640.50 | 1,094.72 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE259 | Blue | 638,695.00 | 3,565,640.40 | 1,094.77 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE260 | Blue | 638,677.00 | 3,565,640.30 | 1,095.18 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE261 | Blue | 638,659.00 | 3,565,640.20 | 1,095.07 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE262 | Blue | 638,641.00 | 3,565,640.10 | 1,095.14 | 3.400 | 8.372 | 3.163

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## AERMOD Inputs Summary- Scenario 2 - Updated 5/21/2025

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BLUE273 | Blue | 638,554.80 | 3,565,750.30 | 1,094.59 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| REC1 | Pig Receiver | 639,444.48 | 3,565,129.27 | 1,090.29 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 6.807E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 8.576E-06 | 0.000E+00 | 0.000E+00 |
| REC2 | Pig Receiver | 639,307.68 | 3,565,616.31 | 1,090.50 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 3.274E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 4.125E-06 | 0.000E+00 | 0.000E+00 |
| REC3 | Pig Receiver | 639,289.00 | 3,564,912.00 | 1,091.98 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 1.594E-04 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.009E-05 | 0.000E+00 | 0.000E+00 |
| REC4 | Pig Receiver | 639,286.00 | 3,564,921.00 | 1,092.09 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 3.551E-04 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 4.474E-05 | 0.000E+00 | 0.000E+00 |
| REC5 | Pig Receiver | 638,891.26 | 3,565,000.22 | 1,093.81 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 4.137E-04 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 5.212E-05 | 0.000E+00 | 0.000E+00 |
| REC8 | Pig Receiver | 639,430.70 | 3,565,122.22 | 1,090.20 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 2.348E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.959E-06 | 0.000E+00 | 0.000E+00 |
| REC9 | Pig Receiver | 639,429.84 | 3,565,538.30 | 1,090.24 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 6.136E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 7.732E-06 | 0.000E+00 | 0.000E+00 |
| LAU1 | Pig Launcher | 639,302.32 | 3,565,634.42 | 1,090.69 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 2.348E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.959E-06 | 0.000E+00 | 0.000E+00 |
| LAU2 | Pig Launcher | 639,652.45 | 3,564,850.18 | 1,089.03 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| LAU3 | Pig Launcher | 639,263.00 | 3,564,922.00 | 1,092.16 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| LAU4 | Pig Launcher | 639,303.12 | 3,565,242.78 | 1,093.00 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| LAU5 | Pig Launcher | 639,362.08 | 3,565,239.57 | 1,092.24 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| LAU6 | Pig Launcher | 639,221.30 | 3,565,513.72 | 1,093.24 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| 2LOAD | Sour Water Loading - AGI1 | 639,585.16 | 3,565,230.21 | 1,090.32 | 3.962 | 0.698 | 0.921 | 0.000E+00 | 0.000E+00 | 7.722E-02 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 9.729E-03 | 0.000E+00 | 0.000E+00 |
| 4LOAD | Sour Water Loading - AGI2 | 639,611.04 | 3,565,413.64 | 1,089.08 | 3.962 | 0.698 | 0.921 | 0.000E+00 | 0.000E+00 | 9.344E-02 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.177E-02 | 0.000E+00 | 0.000E+00 |
| COMB123 | Trains 1-3, 2.5, 5.5, FUG, FUG-AGI | 639,217.00 | 3,565,202.00 | 1,093.05 | 7.620 | 163.000 | 7.088 | 6.786E+00 | 6.770E-01 | 6.832E+00 | 2.316E-02 | 2.312E-03 | 8.551E-01 | 8.530E-02 | 0.86080 | 2.918E-03 | 2.914E-04 |
| COMB456 | Trains 4-6, FUG1 | 638,783.00 | 3,565,787.30 | 1,091.86 | 7.620 | 100.000 | 7.088 | 0.000E+00 | 0.000E+00 | 9.084E-02 | 1.390E-02 | 1.387E-03 | 0.000E+00 | 0.000E+00 | 0.011 | 1.751E-03 | 1.748E-04 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

**AERMOD Inputs Summary- Scenario 3 - Updated 5/21/2025**

| | Point Sources | | Stack Locations | | | Stack Parameters | | | | Short-Term Emissions (lb/hr) | | | | | | Long-Term Emissions (lb/hr) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Stack Height (m) | Stack Temperature (K) | Stack Velocity (m/s) | Stack Diameter (m) | 1-hr $NO_x$ | CO | 1-hr $SO_2$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $NO_x$ | Annual $SO_2$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 639,181.00 | 3,565,054.00 | 1,092.76 | 15.24 | 602.04 | 6.97 | 1.27 | 0.754 | 1.573 | 0.029 | 0.187 | 0.187 | 5.818E-04 | 0.754 | 0.029 | 0.187 | 0.187 |
| | 1.5EP1G | 10k Stabilizer Heater | 639,160.00 | 3,565,063.00 | 1,092.94 | 5.19 | 602.04 | 7.07 | 0.91 | 0.396 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 0.396 | 0.015 | 0.098 | 0.098 |
| | 4EP1G | 10 k Stabilizer Heater | 638,738.00 | 3,565,708.00 | 1,093.81 | 5.64 | 652.59 | 10.17 | 0.61 | 0.882 | 0.487 | 0.0090 | 0.058 | 0.058 | 1.802E-04 | 0.882 | 9.008E-03 | 0.058 | 0.058 |
| | 2EP1A | Mol Sieve Heater | 639,109.00 | 3,565,471.00 | 1,093.58 | 5.03 | 560.93 | 7.59 | 0.56 | 0.941 | 0.355 | 6.571E-03 | 0.067 | 0.067 | 1.314E-04 | 0.941 | 6.571E-03 | 0.067 | 0.067 |
| | 2EP1B | Cryo HMO Heater | 639,108.00 | 3,565,468.00 | 1,093.59 | 7.01 | 422.04 | 1.80 | 1.17 | 0.234 | 0.488 | 9.036E-03 | 0.092 | 0.092 | 1.807E-04 | 0.234 | 9.036E-03 | 0.092 | 0.092 |
| | 2EP1E | Glycol Reboiler | 638,985.00 | 3,565,317.00 | 1,093.32 | 8.10 | 602.04 | 2.85 | 0.61 | 0.392 | 0.148 | 2.738E-03 | 0.018 | 0.018 | 5.476E-05 | 0.392 | 2.738E-03 | 0.018 | 0.018 |
| | 2EP1H | Amine Reboiler | 639,024.00 | 3,565,335.00 | 1,093.36 | 8.38 | 477.59 | 13.85 | 1.07 | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2AEP1D | Amine Reboiler | 639,025.00 | 3,565,316.00 | 1,093.29 | 8.38 | 477.59 | 13.85 | 1.07 | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2.5EP1D | Amine Reboiler | 639,537.00 | 3,565,192.00 | 1,090.66 | 7.19 | 568.15 | 12.83 | 0.81 | 0.637 | 1.254 | 0.023 | 0.149 | 0.149 | 4.641E-04 | 0.637 | 0.023 | 0.149 | 0.149 |
| | 3EP1A | Mol Sieve Heater | 638,877.00 | 3,565,321.00 | 1,093.23 | 6.86 | 523.71 | 12.90 | 0.41 | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 3EP1B | Cryo HMO Heater | 638,886.00 | 3,565,318.00 | 1,093.25 | 8.08 | 523.71 | 9.05 | 0.71 | 0.404 | 0.733 | 0.014 | 0.087 | 0.087 | 2.711E-04 | 0.404 | 0.014 | 0.087 | 0.087 |
| | 3EP1E | Glycol Reboiler | 638,983.00 | 3,565,333.00 | 1,093.31 | 9.91 | 602.04 | 23.28 | 0.21 | 0.392 | 0.148 | 2.738E-03 | 0.018 | 0.018 | 5.476E-05 | 0.392 | 2.738E-03 | 0.018 | 0.018 |
| | 4EP1A | Mol Sieve Heater | 638,797.00 | 3,565,896.00 | 1,092.53 | 7.01 | 523.71 | 12.90 | 0.41 | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 4EP1B | Cryo HMO Heater | 638,789.00 | 3,565,898.00 | 1,092.61 | 8.23 | 523.71 | 10.19 | 0.71 | 0.455 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 0.455 | 0.015 | 0.098 | 0.098 |
| | 4EP1D | Amine Reboiler | 638,693.00 | 3,565,901.00 | 1,093.68 | 13.18 | 533.15 | 35.70 | 0.71 | 1.537 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 1.537 | 0.053 | 0.338 | 0.338 |
| | 4EP1E | Glycol Reboiler | 638,738.00 | 3,565,903.00 | 1,093.00 | 8.15 | 533.15 | 1.86 | 0.71 | 0.392 | 0.148 | 2.738E-03 | 0.018 | 0.018 | 5.476E-05 | 0.392 | 2.738E-03 | 0.018 | 0.018 |
| | 4EP1H | Amine Reboiler | 638,694.00 | 3,565,881.00 | 1,093.67 | 13.18 | 533.15 | 35.70 | 0.71 | 1.537 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 1.537 | 0.053 | 0.338 | 0.338 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 638,586.00 | 3,565,901.00 | 1,094.68 | 13.79 | 533.71 | 14.21 | 1.22 | 1.800 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.800 | 0.062 | 0.396 | 0.396 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 638,587.00 | 3,565,881.00 | 1,094.74 | 13.79 | 533.71 | 14.21 | 1.22 | 1.800 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.800 | 0.062 | 0.396 | 0.396 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 638,925.00 | 3,565,919.00 | 1,091.89 | 6.93 | 523.71 | 4.15 | 0.71 | 0.481 | 0.336 | 6.215E-03 | 0.040 | 0.040 | 1.243E-04 | 0.481 | 6.215E-03 | 0.040 | 0.040 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 638,915.00 | 3,565,920.00 | 1,092.07 | 9.14 | 523.71 | 5.27 | 1.22 | 0.693 | 1.258 | 0.023 | 0.150 | 0.150 | 4.653E-04 | 0.693 | 0.023 | 0.150 | 0.150 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 638,907.00 | 3,565,921.00 | 1,092.15 | 8.59 | 560.93 | 13.60 | 0.41 | 0.482 | 0.337 | 6.229E-03 | 0.040 | 0.040 | 1.246E-04 | 0.482 | 6.229E-03 | 0.040 | 0.040 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 638,895.00 | 3,565,918.00 | 1,092.20 | 11.20 | 523.71 | 11.81 | 0.81 | 0.690 | 1.252 | 0.023 | 0.149 | 0.149 | 4.634E-04 | 0.690 | 0.023 | 0.149 | 0.149 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 638,584.00 | 3,565,932.00 | 1,094.69 | 13.93 | 510.93 | 13.61 | 1.22 | 1.880 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.880 | 0.062 | 0.396 | 0.396 |
| | 5.5EP1A | AGI 2 HMO Heater | 639,562.00 | 3,565,404.00 | 1,089.73 | 13.72 | 510.93 | 40.10 | 0.71 | 1.880 | 3.302 | 0.061 | 0.393 | 0.393 | 1.222E-03 | 1.880 | 0.061 | 0.393 | 0.393 |
| Flares | 1EP2 | Flare (SSM) | 639,217.00 | 3,565,202.00 | 1,093.05 | 51.27 | 1273.00 | 20.00 | 9.14 | 211.681 | 1811.272 | 2.024 | - | - | 0.024 | 5.63E-01 | 1.49E-01 | - | - |
| | 2EP2A | Emergency Flare A (Inlet) | 639,187.00 | 3,565,436.00 | 1,093.60 | 80.71 | 1273.00 | 20.00 | 14.92 | 563.351 | 4827.796 | 5.002 | - | - | 0.060 | 3.69E-01 | 1.69E-03 | - | - |
| | 2.5EP5 | Emergency AGI Flare | 639,512.00 | 3,565,274.00 | 1,090.62 | 46.41 | 1273.00 | 20.00 | 0.25 | 0.071 | 0.611 | 1.024E-03 | - | - | 2.859E-06 | 7.12E-02 | 1.02E-03 | - | - |
| | 3EP2A | Flare (SSM) | 638,844.00 | 3,565,244.00 | 1,093.95 | 80.71 | 1273.00 | 20.00 | 14.92 | 563.351 | 4827.796 | 5.002 | - | - | 0.060 | 3.69E-01 | 1.69E-03 | - | - |
| | 4EP2A | Flare (SSM) | 638,832.00 | 3,565,976.00 | 1,092.68 | 84.19 | 1273.00 | 20.00 | 16.00 | 648.307 | 5552.871 | 5.754 | - | - | 0.069 | 3.69E-01 | 1.69E-03 | - | - |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 638,958.00 | 3,565,980.00 | 1,092.68 | 114.36 | 1273.00 | 20.00 | 16.00 | 648.184 | 5552.625 | 5.753 | - | - | 0.069 | 7.55E-01 | 3.45E-03 | - | - |
| | 5.5EP1B | AGI 2 Flare SSM | 639,542.00 | 3,565,339.00 | 1,090.58 | 64.15 | 1273.00 | 20.00 | 5.68 | 21.145 | 181.301 | 258.166 | - | - | 2.799 | 1.72E-01 | 1.83E-03 | - | - |
| | EP9 | Sour Slop Tank Control Flare | 639,595.00 | 3,565,278.00 | 1,090.20 | 6.73 | 1273.00 | 20.00 | 0.08 | 0.048 | 0.222 | 1.595 | - | - | 0.020 | 7.07E-03 | 1.60E+00 | - | - |
| | EP13 | Sour Water Tanks Flare | 639,628.00 | 3,565,443.00 | 1,088.96 | 7.95 | 1273.00 | 20.00 | 0.08 | 0.238 | 0.978 | 1.813 | - | - | 0.024 | 7.08E-03 | 1.81E+00 | - | - |
| | EP79 | Condensate Tank Flare | 639,513.00 | 3,564,914.00 | 1,090.35 | 9.67 | 1273.00 | 20.00 | 0.13 | 7.730 | 30.759 | 6.588E-05 | - | - | 7.143E-07 | 6.84E-02 | 6.59E-05 | - | - |
| | RH4FLTK | Slop Water Storage Tanks Flare | 638,538.90 | 3,565,835.00 | 1,095.05 | 9.67 | 1273.00 | 20.00 | 0.13 | 0.991 | 1.978 | 6.588E-05 | - | - | 7.143E-07 | 9.91E-01 | 6.59E-05 | - | - |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 639,010.00 | 3,565,298.00 | 1,093.20 | 18.82 | 1088.71 | 1.38 | 3.05 | 1.706 | 6.272 | 19.361 | 0.671 | 0.671 | 9.754 | 1.521 | 19.361 | 0.671 | 0.671 |
| | EP8 | Thermal Oxidizer | 638,713.00 | 3,565,923.00 | 1,093.43 | 20.73 | 1088.71 | 1.65 | 3.05 | 1.250 | 0.761 | 14.074 | 0.596 | 0.596 | 6.441 | 1.353 | 14.075 | 0.596 | 0.596 |
| | EP10 | Thermal Oxidizer | 638,602.00 | 3,565,931.00 | 1,094.55 | 23.16 | 1255.37 | 117.56 | 3.05 | 1.240 | 0.755 | 14.149 | 0.559 | 0.559 | 6.471 | 1.345 | 14.150 | 0.559 | 0.559 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | 638,497.00 | 3,565,657.00 | 1,095.25 | 1.83 | 0.00 | 0.30 | 0.33 | - | - | - | - | - | 1.480E-04 | - | - | - | - |
| Generators | GEN1 | Diesel Fired Generator | 638,698.70 | 3,565,483.20 | 1,095.40 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN2 | Diesel Fired Generator | 638,692.10 | 3,565,483.20 | 1,095.46 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN3 | Diesel Fired Generator | 638,682.10 | 3,565,483.20 | 1,095.50 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN4 | Diesel Fired Generator | 638,672.10 | 3,565,483.20 | 1,095.57 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN5 | Diesel Fired Generator | 638,662.10 | 3,565,483.10 | 1,095.65 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN6 | Diesel Fired Generator | 638,652.10 | 3,565,483.10 | 1,095.74 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN7 | Diesel Fired Generator | 638,642.10 | 3,565,483.10 | 1,095.79 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN8 | Diesel Fired Generator | 638,637.00 | 3,565,488.10 | 1,095.79 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN9 | Diesel Fired Generator | 638,636.90 | 3,565,498.10 | 1,095.75 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN10 | Diesel Fired Generator | 638,636.50 | 3,565,538.10 | 1,095.50 | 4.51 | 689.82 | 22.01 | 0.21 | 0.3300 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 638,692.10 | 3,565,483.20 | 1,095.46 | 4.51 | 689.82 | 93.21 | 0.21 | 0.305 | 0.185 | 0.594 | 0.023 | 0.023 | - | 0.0014 | 0.0027 | 0.0001 | 0.0001 |
| | GEN_WW | Well Water Generator | 638,377.00 | 3,565,219.00 | 1,093.36 | 4.57 | 500.00 | 5.00 | 0.08 | 0.009 | 0.081 | 0.001 | 0.087 | 0.087 | - | 0.0086 | 0.0011 | 0.0012 | 0.0012 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## AERMOD Inputs Summary- Scenario 3 - Updat

| | Point Sources | | Short-Term Emissions (g/s) | | | | | | Long-Term Emissions (g/s) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Emission Units** | **Description** | **1-hr $NO_x$** | **CO** | **1-hr $SO_2$** | **24-hr $PM_{10}$** | **24-hr $PM_{2.5}$** | **$H_2S$** | **Annual $NO_x$** | **Annual $SO_2$** | **Annual $PM_{10}$** | **Annual $PM_{2.5}$** |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 0.095 | 0.198 | 3.665E-03 | 0.024 | 0.024 | 7.331E-05 | 0.095 | 3.665E-03 | 0.024 | 0.024 |
| | 1.5EP1G | 10k Stabilizer Heater | 0.050 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.050 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1G | 10 k Stabilizer Heater | 0.111 | 0.061 | 1.135E-03 | 7.296E-03 | 7.296E-03 | 2.270E-05 | 0.111 | 1.135E-03 | 7.296E-03 | 7.296E-03 |
| | 2EP1A | Mol Sieve Heater | 0.119 | 0.045 | 8.280E-04 | 8.467E-03 | 8.467E-03 | 1.656E-05 | 0.119 | 8.280E-04 | 8.467E-03 | 8.467E-03 |
| | 2EP1B | Cryo HMO Heater | 0.030 | 0.062 | 1.138E-03 | 0.012 | 0.012 | 2.277E-05 | 0.030 | 1.138E-03 | 0.012 | 0.012 |
| | 2EP1E | Gylcol Reboiler | 0.049 | 0.019 | 3.450E-04 | 2.218E-03 | 2.218E-03 | 6.900E-06 | 0.049 | 3.450E-04 | 2.218E-03 | 2.218E-03 |
| | 2EP1H | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2AEP1D | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2.5EP1D | Amine Reboiler | 0.080 | 0.158 | 2.924E-03 | 0.019 | 0.019 | 5.848E-05 | 0.080 | 2.924E-03 | 0.019 | 0.019 |
| | 3EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 3EP1B | Cryo HMO Heater | 0.051 | 0.092 | 1.708E-03 | 0.011 | 0.011 | 3.415E-05 | 0.051 | 1.708E-03 | 0.011 | 0.011 |
| | 3EP1E | Glycol Reboiler | 0.049 | 0.019 | 3.450E-04 | 2.218E-03 | 2.218E-03 | 6.900E-06 | 0.049 | 3.450E-04 | 2.218E-03 | 2.218E-03 |
| | 4EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 4EP1B | Cryo HMO Heater | 0.057 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.057 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1D | Amine Reboiler | 0.194 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.194 | 6.618E-03 | 0.043 | 0.043 |
| | 4EP1E | Glycol Reboiler | 0.049 | 0.019 | 3.450E-04 | 2.218E-03 | 2.218E-03 | 6.900E-06 | 0.049 | 3.450E-04 | 2.218E-03 | 2.218E-03 |
| | 4EP1H | Amine Reboiler | 0.194 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.194 | 6.618E-03 | 0.043 | 0.043 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 0.227 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.227 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 0.227 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.227 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 0.061 | 0.042 | 7.831E-04 | 5.034E-03 | 5.034E-03 | 1.566E-05 | 0.061 | 7.831E-04 | 5.034E-03 | 5.034E-03 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 0.087 | 0.158 | 2.932E-03 | 0.019 | 0.019 | 5.863E-05 | 0.087 | 2.932E-03 | 0.019 | 0.019 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 0.061 | 0.042 | 7.848E-04 | 5.045E-03 | 5.045E-03 | 1.570E-05 | 0.061 | 7.848E-04 | 5.045E-03 | 5.045E-03 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 0.087 | 0.158 | 2.919E-03 | 0.019 | 0.019 | 5.839E-05 | 0.087 | 2.919E-03 | 0.019 | 0.019 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 0.237 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.237 | 7.757E-03 | 0.050 | 0.050 |
| | 5.5EP1A | AGI 2 HMO Heater | 0.237 | 0.416 | 7.697E-03 | 0.049 | 0.049 | 1.539E-04 | 0.237 | 7.697E-03 | 0.049 | 0.049 |
| Flares | 1EP2 | Flare (SSM) | 26.671 | 228.216 | 0.255 | 0 | 0 | 3.042E-03 | 0.071 | 0.019 | 0 | 0 |
| | 2EP2A | Emergency Flare A (Inlet) | 70.981 | 608.292 | 0.630 | 0 | 0 | 7.586E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 2.5EP5 | Emergency AGI Flare | 8.976E-03 | 0.077 | 1.291E-04 | 0 | 0 | 3.602E-07 | 8.976E-03 | 1.291E-04 | 0 | 0 |
| | 3EP2A | Flare (SSM) | 70.981 | 608.292 | 0.630 | 0 | 0 | 7.546E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 4EP2A | Flare (SSM) | 81.685 | 699.650 | 0.725 | 0 | 0 | 8.722E-03 | 0.047 | 2.129E-04 | 0 | 0 |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 81.670 | 699.619 | 0.725 | 0 | 0 | 8.679E-03 | 0.095 | 4.353E-04 | 0 | 0 |
| | 5.5EP1B | AGI 2 Flare SSM | 2.664 | 22.843 | 32.528 | 0 | 0 | 0.353 | 0.022 | 2.308E-04 | 0 | 0 |
| | EP9 | Sour Slop Tank Control Flare | 6.066E-03 | 0.028 | 0.201 | 0 | 0 | 2.535E-03 | 8.908E-04 | 0.201 | 0 | 0 |
| | EP13 | Sour Water Tanks Flare | 0.030 | 0.123 | 0.228 | 0 | 0 | 2.965E-03 | 8.921E-04 | 0.228 | 0 | 0 |
| | EP79 | Condensate Tank Flare | 0.974 | 3.876 | 8.301E-06 | 0 | 0 | 9.000E-08 | 8.619E-03 | 8.301E-06 | 0 | 0 |
| | RH4FLTK | Slop Water Storage Tanks Flare | 0.125 | 0.249 | 8.301E-06 | 0 | 0 | 9.000E-08 | 0.125 | 8.301E-06 | 0 | 0 |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 0.215 | 0.790 | 2.439 | 0.084 | 0.084 | 1.229 | 0.192 | 2.439 | 0.084 | 0.084 |
| | EP8 | Thermal Oxidizer | 0.157 | 0.096 | 1.773 | 0.075 | 0.075 | 0.812 | 0.170 | 1.773 | 0.075 | 0.075 |
| | EP10 | Thermal Oxidizer | 0.156 | 0.095 | 1.783 | 0.070 | 0.070 | 0.815 | 0.169 | 1.783 | 0.070 | 0.070 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | - | 0 | 0 | 0 | 0 | 1.865E-05 | 0 | 0 | 0 | 0 |
| Generators | GEN1 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN2 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN3 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN4 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN5 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN6 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN7 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN8 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN9 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN10 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 3.839E-02 | 2.328E-02 | 7.488E-02 | 2.950E-03 | 2.950E-03 | 0.000E+00 | 1.753E-04 | 3.419E-04 | 1.347E-05 | 1.347E-05 |
| | GEN_WW | Well Water Generator | 1.089E-03 | 1.017E-02 | 1.402E-04 | 1.094E-02 | 1.094E-02 | 0.000E+00 | 1.089E-03 | 1.402E-04 | 1.498E-04 | 1.498E-04 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## AERMOD Inputs Summary- Scenario 3 - Updated 5/21/2025

| Volume Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | | | Long-Term Emissions (lb/hr) | | | Short-Term Emissions (g/s) | | | Long-Term Emissions (g/s) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Emission Units | Description | Coordinate(m) | Coordinate(m) | Elevation(m) | ase Height(m | eteral Dimens | ertical Dimens | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ | $H_2S$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| RRGBOO01 | RRGBOO | 638,556.70 | 3,565,558.40 | 1,096.16 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO02 | RRGBOO | 638,573.60 | 3,565,559.30 | 1,096.00 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO03 | RRGBOO | 638,591.60 | 3,565,559.10 | 1,095.88 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO04 | RRGBOO | 638,609.60 | 3,565,558.90 | 1,095.75 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO05 | RRGBOO | 638,627.60 | 3,565,558.70 | 1,095.41 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO06 | RRGBOO | 638,645.60 | 3,565,558.50 | 1,095.32 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO07 | RRGBOO | 638,663.60 | 3,565,558.30 | 1,095.19 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO08 | RRGBOO | 638,681.60 | 3,565,558.10 | 1,094.92 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO09 | RRGBOO | 638,699.60 | 3,565,557.90 | 1,094.78 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO10 | RRGBOO | 638,717.60 | 3,565,557.80 | 1,094.59 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO11 | RRGBOO | 638,735.60 | 3,565,557.60 | 1,094.46 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO12 | RRGBOO | 638,753.60 | 3,565,557.40 | 1,094.34 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO13 | RRGBOO | 638,771.60 | 3,565,557.20 | 1,093.91 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO14 | RRGBOO | 638,789.60 | 3,565,557.00 | 1,093.11 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO15 | RRGBOO | 638,807.60 | 3,565,556.80 | 1,093.08 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO16 | RRGBOO | 638,825.60 | 3,565,556.60 | 1,093.01 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO17 | RRGBOO | 638,843.60 | 3,565,556.40 | 1,092.93 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO18 | RRGBOO | 638,861.60 | 3,565,556.20 | 1,092.85 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO19 | RRGBOO | 638,879.60 | 3,565,556.00 | 1,092.78 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGBOO20 | RRGBOO | 638,897.60 | 3,565,555.80 | 1,092.72 | 3.400 | 8.372 | 3.163 | 4.143E-03 | 4.143E-04 | 0.000E+00 | 3.349E-03 | 3.349E-04 | 5.221E-04 | 5.221E-05 | 0.000E+00 | 4.219E-04 | 4.219E-05 |
| RRGOO066 | RRGOO | 638,918.50 | 3,565,555.60 | 1,092.64 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO067 | RRGOO | 638,936.50 | 3,565,555.50 | 1,092.59 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO068 | RRGOO | 638,954.50 | 3,565,555.30 | 1,092.51 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO069 | RRGOO | 638,972.50 | 3,565,555.10 | 1,092.44 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO070 | RRGOO | 638,990.50 | 3,565,555.00 | 1,092.35 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO071 | RRGOO | 639,008.50 | 3,565,554.80 | 1,092.33 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO072 | RRGOO | 639,026.50 | 3,565,554.70 | 1,092.03 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO073 | RRGOO | 639,044.50 | 3,565,554.50 | 1,092.20 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO074 | RRGOO | 639,062.50 | 3,565,554.30 | 1,092.24 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO075 | RRGOO | 639,080.50 | 3,565,554.20 | 1,092.27 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO076 | RRGOO | 639,098.50 | 3,565,554.00 | 1,092.43 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| RRGOO077 | RRGOO | 639,116.50 | 3,565,553.90 | 1,092.27 | 3.400 | 8.372 | 3.163 | 3.266E-03 | 3.266E-04 | 0.000E+00 | 2.640E-03 | 2.640E-04 | 4.115E-04 | 4.115E-05 | 0.000E+00 | 3.326E-04 | 3.326E-05 |
| O102078 | Orange 1 and 2 | 639,129.30 | 3,565,496.40 | 1,092.95 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102079 | Orange 1 and 2 | 639,139.60 | 3,565,531.70 | 1,093.18 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102080 | Orange 1 and 2 | 639,150.00 | 3,565,517.00 | 1,093.31 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102081 | Orange 1 and 2 | 639,160.30 | 3,565,502.30 | 1,093.40 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102082 | Orange 1 and 2 | 639,170.70 | 3,565,487.50 | 1,093.43 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102083 | Orange 1 and 2 | 639,181.00 | 3,565,472.80 | 1,093.46 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102084 | Orange 1 and 2 | 639,191.40 | 3,565,458.10 | 1,093.49 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102085 | Orange 1 and 2 | 639,201.80 | 3,565,443.40 | 1,093.44 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102086 | Orange 1 and 2 | 639,212.10 | 3,565,428.60 | 1,093.37 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102087 | Orange 1 and 2 | 639,205.80 | 3,565,414.60 | 1,093.42 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102088 | Orange 1 and 2 | 639,194.30 | 3,565,400.80 | 1,093.49 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102089 | Orange 1 and 2 | 639,182.80 | 3,565,387.00 | 1,093.48 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102090 | Orange 1 and 2 | 639,171.30 | 3,565,373.10 | 1,093.45 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102091 | Orange 1 and 2 | 639,159.70 | 3,565,359.30 | 1,093.42 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102092 | Orange 1 and 2 | 639,148.20 | 3,565,345.50 | 1,093.36 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102093 | Orange 1 and 2 | 639,136.70 | 3,565,331.70 | 1,093.29 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102094 | Orange 1 and 2 | 639,125.10 | 3,565,317.80 | 1,093.21 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102095 | Orange 1 and 2 | 639,113.60 | 3,565,304.00 | 1,093.14 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102096 | Orange 1 and 2 | 639,102.10 | 3,565,290.20 | 1,093.07 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102097 | Orange 1 and 2 | 639,094.60 | 3,565,274.90 | 1,092.95 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102098 | Orange 1 and 2 | 639,095.10 | 3,565,257.00 | 1,093.33 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102099 | Orange 1 and 2 | 639,099.40 | 3,565,242.90 | 1,093.32 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102100 | Orange 1 and 2 | 639,117.40 | 3,565,242.70 | 1,093.31 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102101 | Orange 1 and 2 | 639,135.40 | 3,565,242.40 | 1,093.40 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102102 | Orange 1 and 2 | 639,153.40 | 3,565,242.10 | 1,093.47 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102103 | Orange 1 and 2 | 639,171.40 | 3,565,241.90 | 1,093.48 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102104 | Orange 1 and 2 | 639,189.40 | 3,565,241.60 | 1,093.35 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102105 | Orange 1 and 2 | 639,207.40 | 3,565,241.40 | 1,093.27 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102106 | Orange 1 and 2 | 639,225.40 | 3,565,241.10 | 1,093.16 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102107 | Orange 1 and 2 | 639,243.40 | 3,565,240.80 | 1,093.05 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102108 | Orange 1 and 2 | 639,261.40 | 3,565,240.60 | 1,093.00 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102109 | Orange 1 and 2 | 639,279.40 | 3,565,240.30 | 1,092.98 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102110 | Orange 1 and 2 | 639,297.40 | 3,565,240.00 | 1,092.96 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102111 | Orange 1 and 2 | 639,315.40 | 3,565,239.80 | 1,092.88 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102112 | Orange 1 and 2 | 639,333.40 | 3,565,239.50 | 1,092.63 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102113 | Orange 1 and 2 | 639,351.40 | 3,565,239.20 | 1,092.34 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102114 | Orange 1 and 2 | 639,369.40 | 3,565,239.00 | 1,092.26 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102115 | Orange 1 and 2 | 639,387.40 | 3,565,238.70 | 1,092.23 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102116 | Orange 1 and 2 | 639,405.40 | 3,565,238.40 | 1,091.12 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102117 | Orange 1 and 2 | 639,423.30 | 3,565,238.90 | 1,090.19 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102118 | Orange 1 and 2 | 639,439.80 | 3,565,246.00 | 1,090.23 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102119 | Orange 1 and 2 | 639,456.40 | 3,565,253.10 | 1,090.33 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102120 | Orange 1 and 2 | 639,472.90 | 3,565,260.20 | 1,090.41 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102121 | Orange 1 and 2 | 639,489.40 | 3,565,267.30 | 1,090.49 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O102122 | Orange 1 and 2 | 639,506.00 | 3,565,274.30 | 1,090.58 | 3.400 | 8.372 | 3.163 | 7.939E-04 | 7.939E-05 | 0.000E+00 | 6.416E-04 | 6.416E-05 | 1.000E-04 | 1.000E-05 | 0.000E+00 | 8.084E-05 | 8.084E-06 |
| O1123 | Orange 1 | 639,523.20 | 3,565,278.50 | 1,090.65 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1124 | Orange 1 | 639,541.20 | 3,565,279.30 | 1,090.60 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1125 | Orange 1 | 639,559.20 | 3,565,280.10 | 1,090.46 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1126 | Orange 1 | 639,561.70 | 3,565,262.80 | 1,090.46 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1127 | Orange 1 | 639,564.90 | 3,565,245.20 | 1,090.42 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1128 | Orange 1 | 639,569.30 | 3,565,227.70 | 1,090.40 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O1129 | Orange 1 | 639,572.60 | 3,565,210.00 | 1,090.38 | 3.400 | 8.372 | 3.163 | 2.877E-04 | 2.877E-05 | 0.000E+00 | 2.325E-04 | 2.325E-05 | 3.625E-05 | 3.625E-06 | 0.000E+00 | 2.930E-05 | 2.930E-06 |
| O2130 | Orange 2 | 639,539.50 | 3,565,286.70 | 1,090.61 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2131 | Orange 2 | 639,556.60 | 3,565,292.50 | 1,090.48 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2132 | Orange 2 | 639,573.60 | 3,565,298.30 | 1,090.36 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2133 | Orange 2 | 639,588.20 | 3,565,308.70 | 1,090.26 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2134 | Orange 2 | 639,602.60 | 3,565,319.60 | 1,089.83 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2135 | Orange 2 | 639,614.20 | 3,565,333.00 | 1,089.20 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2136 | Orange 2 | 639,624.50 | 3,565,347.80 | 1,089.45 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2137 | Orange 2 | 639,634.80 | 3,565,362.50 | 1,089.83 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2138 | Orange 2 | 639,635.70 | 3,565,380.40 | 1,089.02 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2139 | Orange 2 | 639,636.10 | 3,565,398.40 | 1,088.86 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| O2140 | Orange 2 | 639,636.40 | 3,565,416.40 | 1,088.80 | 3.400 | 8.372 | 3.163 | 5.061E-04 | 5.061E-05 | 0.000E+00 | 4.091E-04 | 4.091E-05 | 6.377E-05 | 6.377E-06 | 0.000E+00 | 5.154E-05 | 5.154E-06 |
| R1R2141 | Red 1 and 2 | 639,120.60 | 3,565,537.90 | 1,093.12 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2142 | Red 1 and 2 | 639,117.20 | 3,565,524.70 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2143 | Red 1 and 2 | 639,099.20 | 3,565,525.40 | 1,093.24 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2144 | Red 1 and 2 | 639,081.20 | 3,565,526.20 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2145 | Red 1 and 2 | 639,063.20 | 3,565,526.90 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2146 | Red 1 and 2 | 639,045.20 | 3,565,527.70 | 1,093.23 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2147 | Red 1 and 2 | 639,027.30 | 3,565,528.40 | 1,093.16 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2148 | Red 1 and 2 | 639,009.30 | 3,565,529.20 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2149 

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## AERMOD Inputs Summary- Scenario 3 - Updated 5/21/2025

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R1R2157 | Red 1 and 2 | 638,855.20 | 3,565,483.90 | 1,093.39 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2158 | Red 1 and 2 | 638,838.30 | 3,565,477.70 | 1,093.42 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2159 | Red 1 and 2 | 638,822.20 | 3,565,469.80 | 1,093.38 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2160 | Red 1 and 2 | 638,806.50 | 3,565,460.90 | 1,093.26 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2161 | Red 1 and 2 | 638,793.70 | 3,565,448.70 | 1,093.11 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2162 | Red 1 and 2 | 638,782.40 | 3,565,434.70 | 1,093.04 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2163 | Red 1 and 2 | 638,778.30 | 3,565,418.00 | 1,093.25 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2164 | Red 1 and 2 | 638,777.80 | 3,565,400.00 | 1,093.30 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2165 | Red 1 and 2 | 638,777.30 | 3,565,382.00 | 1,093.37 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2166 | Red 1 and 2 | 638,776.70 | 3,565,364.00 | 1,093.52 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2167 | Red 1 and 2 | 638,776.20 | 3,565,346.00 | 1,093.62 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2168 | Red 1 and 2 | 638,775.70 | 3,565,328.10 | 1,093.75 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2169 | Red 1 and 2 | 638,775.20 | 3,565,310.10 | 1,093.83 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2170 | Red 1 and 2 | 638,774.70 | 3,565,292.10 | 1,093.86 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2171 | Red 1 and 2 | 638,774.20 | 3,565,274.10 | 1,093.98 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2172 | Red 1 and 2 | 638,773.70 | 3,565,256.10 | 1,094.61 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2173 | Red 1 and 2 | 638,773.20 | 3,565,238.10 | 1,094.73 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2174 | Red 1 and 2 | 638,772.70 | 3,565,220.10 | 1,094.86 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2175 | Red 1 and 2 | 638,772.20 | 3,565,202.10 | 1,094.92 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2176 | Red 1 and 2 | 638,779.40 | 3,565,191.40 | 1,095.01 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2177 | Red 1 and 2 | 638,797.40 | 3,565,190.90 | 1,094.99 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2178 | Red 1 and 2 | 638,815.40 | 3,565,190.40 | 1,095.06 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2179 | Red 1 and 2 | 638,833.40 | 3,565,190.00 | 1,095.08 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2180 | Red 1 and 2 | 638,851.40 | 3,565,189.50 | 1,094.99 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2181 | Red 1 and 2 | 638,869.40 | 3,565,189.00 | 1,094.60 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2182 | Red 1 and 2 | 638,887.40 | 3,565,188.50 | 1,094.07 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2183 | Red 1 and 2 | 638,905.30 | 3,565,188.00 | 1,093.80 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2184 | Red 1 and 2 | 638,923.30 | 3,565,187.60 | 1,093.50 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2185 | Red 1 and 2 | 638,941.30 | 3,565,187.10 | 1,093.34 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2186 | Red 1 and 2 | 638,952.00 | 3,565,179.50 | 1,093.50 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2187 | Red 1 and 2 | 638,952.10 | 3,565,161.50 | 1,093.81 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2188 | Red 1 and 2 | 638,952.10 | 3,565,143.50 | 1,094.15 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2189 | Red 1 and 2 | 638,952.20 | 3,565,125.50 | 1,094.37 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2190 | Red 1 and 2 | 638,952.20 | 3,565,107.50 | 1,094.48 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2191 | Red 1 and 2 | 638,952.30 | 3,565,089.50 | 1,094.52 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2192 | Red 1 and 2 | 638,952.30 | 3,565,071.50 | 1,094.46 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2193 | Red 1 and 2 | 638,952.40 | 3,565,053.50 | 1,094.51 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2194 | Red 1 and 2 | 638,952.40 | 3,565,035.50 | 1,094.49 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2195 | Red 1 and 2 | 638,952.50 | 3,565,017.50 | 1,094.33 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2196 | Red 1 and 2 | 638,952.50 | 3,564,999.50 | 1,093.96 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2197 | Red 1 and 2 | 638,952.60 | 3,564,981.50 | 1,093.60 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2198 | Red 1 and 2 | 638,962.00 | 3,564,967.30 | 1,093.38 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2199 | Red 1 and 2 | 638,976.40 | 3,564,957.00 | 1,093.49 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2200 | Red 1 and 2 | 638,992.80 | 3,564,949.70 | 1,093.39 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2201 | Red 1 and 2 | 639,009.30 | 3,564,942.40 | 1,093.05 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2202 | Red 1 and 2 | 639,025.70 | 3,564,935.10 | 1,092.79 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2203 | Red 1 and 2 | 639,042.20 | 3,564,927.80 | 1,092.70 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2204 | Red 1 and 2 | 639,058.60 | 3,564,920.50 | 1,092.67 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2205 | Red 1 and 2 | 639,075.10 | 3,564,913.20 | 1,092.73 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2206 | Red 1 and 2 | 639,091.50 | 3,564,905.80 | 1,092.72 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2207 | Red 1 and 2 | 639,108.00 | 3,564,898.50 | 1,092.82 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2208 | Red 1 and 2 | 639,125.60 | 3,564,896.70 | 1,093.00 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2209 | Red 1 and 2 | 639,143.60 | 3,564,896.40 | 1,093.04 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2210 | Red 1 and 2 | 639,161.60 | 3,564,896.10 | 1,092.88 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2211 | Red 1 and 2 | 639,179.60 | 3,564,895.80 | 1,092.58 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2212 | Red 1 and 2 | 639,197.60 | 3,564,895.50 | 1,092.57 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2213 | Red 1 and 2 | 639,215.60 | 3,564,895.10 | 1,092.39 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2214 | Red 1 and 2 | 639,233.60 | 3,564,893.80 | 1,092.34 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2215 | Red 1 and 2 | 639,251.50 | 3,564,892.30 | 1,092.39 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2216 | Red 1 and 2 | 639,269.50 | 3,564,890.80 | 1,092.27 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2217 | Red 1 and 2 | 639,287.40 | 3,564,889.30 | 1,091.85 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2218 | Red 1 and 2 | 639,305.30 | 3,564,887.80 | 1,091.71 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2219 | Red 1 and 2 | 639,323.30 | 3,564,886.30 | 1,091.63 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2220 | Red 1 and 2 | 639,341.20 | 3,564,884.80 | 1,091.47 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2221 | Red 1 and 2 | 639,349.40 | 3,564,869.10 | 1,091.35 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2222 | Red 1 and 2 | 639,365.90 | 3,564,862.40 | 1,091.32 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1R2223 | Red 1 and 2 | 639,382.70 | 3,564,860.50 | 1,091.15 | 3.400 | 8.372 | 3.163 | 1.892E-03 | 1.892E-04 | 0.000E+00 | 1.529E-03 | 1.529E-04 | 2.384E-04 | 2.384E-05 | 0.000E+00 | 1.927E-04 | 1.927E-05 |
| R1224 | Red 1 | 639,399.30 | 3,564,867.30 | 1,091.06 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| R1225 | Red 1 | 639,414.10 | 3,564,877.10 | 1,091.00 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| R1226 | Red 1 | 639,429.10 | 3,564,884.60 | 1,090.96 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| R1227 | Red 1 | 639,447.10 | 3,564,883.90 | 1,090.80 | 3.400 | 8.372 | 3.163 | 1.319E-03 | 1.319E-04 | 0.000E+00 | 1.066E-03 | 1.066E-04 | 1.662E-04 | 1.662E-05 | 0.000E+00 | 1.343E-04 | 1.343E-05 |
| GRN228 | Green | 639,126.60 | 3,565,309.30 | 1,094.08 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN229 | Green | 639,133.90 | 3,565,522.80 | 1,093.27 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN230 | Green | 639,141.10 | 3,565,506.30 | 1,093.39 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN231 | Green | 639,148.30 | 3,565,489.80 | 1,093.43 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN232 | Green | 639,160.70 | 3,565,477.40 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN233 | Green | 639,174.90 | 3,565,466.30 | 1,093.49 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN234 | Green | 639,186.30 | 3,565,452.50 | 1,093.52 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN235 | Green | 639,189.90 | 3,565,435.10 | 1,093.58 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN236 | Green | 639,191.20 | 3,565,417.50 | 1,093.51 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN237 | Green | 639,182.20 | 3,565,401.90 | 1,093.51 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN238 | Green | 639,171.20 | 3,565,388.10 | 1,093.48 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN239 | Green | 639,154.80 | 3,565,383.20 | 1,093.48 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN240 | Green | 639,138.30 | 3,565,376.80 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN241 | Green | 639,121.30 | 3,565,375.80 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| GRN242 | Green | 639,105.30 | 3,565,379.50 | 1,093.47 | 3.400 | 8.372 | 3.163 | 5.805E-04 | 5.805E-05 | 0.000E+00 | 4.692E-04 | 4.692E-05 | 7.315E-05 | 7.315E-06 | 0.000E+00 | 5.912E-05 | 5.912E-06 |
| BLUE243 | Blue | 638,906.60 | 3,565,565.60 | 1,093.07 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE244 | Blue | 638,906.70 | 3,565,583.60 | 1,093.17 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE245 | Blue | 638,906.80 | 3,565,601.60 | 1,092.98 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE246 | Blue | 638,906.90 | 3,565,619.60 | 1,092.90 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE247 | Blue | 638,907.10 | 3,565,637.60 | 1,092.79 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE248 | Blue | 638,893.00 | 3,565,641.40 | 1,092.86 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE249 | Blue | 638,875.00 | 3,565,641.30 | 1,093.05 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE250 | Blue | 638,857.00 | 3,565,641.20 | 1,093.07 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE251 | Blue | 638,839.00 | 3,565,641.10 | 1,093.29 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE252 | Blue | 638,821.00 | 3,565,641.00 | 1,093.44 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE253 | Blue | 638,803.00 | 3,565,640.90 | 1,093.62 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE254 | Blue | 638,785.00 | 3,565,640.80 | 1,093.93 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE255 | Blue | 638,767.00 | 3,565,640.70 | 1,094.26 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE256 | Blue | 638,749.00 | 3,565,640.70 | 1,094.39 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE257 | Blue | 638,731.00 | 3,565,640.60 | 1,094.52 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE258 | Blue | 638,713.00 | 3,565,640.50 | 1,094.72 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE259 | Blue | 638,695.00 | 3,565,640.40 | 1,094.77 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE260 | Blue | 638,677.00 | 3,565,640.30 | 1,095.18 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE261 | Blue | 638,659.00 | 3,565,640.20 | 1,095.07 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| BLUE262 | Blue | 638,641.00 | 3,565,640.10 | 1,095.14 | 3.400 | 8.372 | 3.163

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## AERMOD Inputs Summary- Scenario 3 - Updated 5/21/2025

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BLUE273 | Blue | 638,554.80 | 3,565,750.30 | 1,094.59 | 3.400 | 8.372 | 3.163 | 8.771E-04 | 8.771E-05 | 0.000E+00 | 7.089E-04 | 7.089E-05 | 1.105E-04 | 1.105E-05 | 0.000E+00 | 8.932E-05 | 8.932E-06 |
| REC1 | Pig Receiver | 639,444.48 | 3,565,129.27 | 1,090.29 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 6.807E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 8.576E-06 | 0.000E+00 | 0.000E+00 |
| REC2 | Pig Receiver | 639,307.68 | 3,565,616.31 | 1,090.50 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 3.274E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 4.125E-06 | 0.000E+00 | 0.000E+00 |
| REC3 | Pig Receiver | 639,289.00 | 3,564,912.00 | 1,091.98 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 1.594E-04 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.009E-05 | 0.000E+00 | 0.000E+00 |
| REC4 | Pig Receiver | 639,286.00 | 3,564,921.00 | 1,092.09 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 3.551E-04 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 4.474E-05 | 0.000E+00 | 0.000E+00 |
| REC5 | Pig Receiver | 638,891.26 | 3,565,000.22 | 1,093.81 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 4.137E-04 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 5.212E-05 | 0.000E+00 | 0.000E+00 |
| REC8 | Pig Receiver | 639,430.70 | 3,565,122.22 | 1,090.20 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 2.348E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.959E-06 | 0.000E+00 | 0.000E+00 |
| REC9 | Pig Receiver | 639,429.84 | 3,565,538.30 | 1,090.24 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 6.136E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 7.732E-06 | 0.000E+00 | 0.000E+00 |
| LAU1 | Pig Launcher | 639,302.32 | 3,565,634.42 | 1,090.69 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 2.348E-05 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.959E-06 | 0.000E+00 | 0.000E+00 |
| LAU2 | Pig Launcher | 639,652.45 | 3,564,850.18 | 1,089.03 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| LAU3 | Pig Launcher | 639,263.00 | 3,564,922.00 | 1,092.16 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| LAU4 | Pig Launcher | 639,303.12 | 3,565,242.78 | 1,093.00 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| LAU5 | Pig Launcher | 639,362.08 | 3,565,239.57 | 1,092.24 | 0.762 | 0.354 | 0.710 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| 2LOAD | Sour Water Loading - AGI1 | 639,585.16 | 3,565,230.21 | 1,090.32 | 3.962 | 0.698 | 0.921 | 0.000E+00 | 0.000E+00 | 7.722E-02 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 9.729E-03 | 0.000E+00 | 0.000E+00 |
| 4LOAD | Sour Water Loading - AGI2 | 639,611.04 | 3,565,413.64 | 1,089.08 | 3.962 | 0.698 | 0.921 | 0.000E+00 | 0.000E+00 | 9.344E-02 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.01177 | 0.000E+00 | 0.000E+00 |
| COMB123 | Trains 1-3, 2.5, 5.5, FUG, FUG-AGI | 639,217.00 | 3,565,202.00 | 1,093.05 | 7.620 | 163.000 | 7.088 | 6.786E+00 | 6.770E-01 | 6.832E+00 | 2.316E-02 | 2.312E-03 | 8.551E-01 | 8.530E-02 | 0.861 | 2.918E-03 | 2.914E-04 |
| COMB456 | Trains 4-6, FUG1 | 638783 | 3565787.3 | 1091.86 | 7.62 | 100 | 7.08837209 | 0 | 0 | 9.084E-02 | 0.01389673 | 0.001387473 | 0 | 0 | 1% | 0.001750959 | 0.000174819 |

# APPENDIX D. SURROUNDING SOURCE CALCULATION

Leo Thorsness Facility
ID=38504

| | | | | |
|---|---|---|---|---|
| ID=HR-1 | 38504A1 | 0.0138598 | rate=8760hr/yr, | |
| ID=ENG-5 | 38504E3 | 0.00126 | rate=8760hr/yr, | |
| ID=GEN-1 | 38504E5 | 0.0050399 | rate=1067hr/yr, | 3hr/day |
| ID=HT-1 | 38504E6 | 0.0005796 | rate=8760hr/yr, | |
| ID=HT-2 | 38504E7 | 0.0005796 | rate=6192hr/yr, | 17hr/day |
| ID=ENG-2 | 38504E26 | 0.00252 | rate=0hr/yr, | |
| ID=ENG-6 | 38504E27 | 0.00252 | rate=3888hr/yr, | 11hr/day |

Broadside 12 Facility 2
ID=40140
NOI Permit=9357

| | | | |
|---|---|---|---|
| ID=ROAD-1 | 40140A1 | 0.0277196 | rate=8760hr/yr, |

Broadside Wellpad 2
ID=40312
NOI Permit=9510

| | | | |
|---|---|---|---|
| ID=ENG-1 | 40312E1 | 0.0088199 | rate=0hr/yr, |

Broadside 12 Facility 1
ID=39913
NOI Permit=9134

| | | | |
|---|---|---|---|
| ID=ROAD-1 | 39913A1 | 0.0277196 | rate=8064hr/yr, |
| ID=ENG | 39913E2 | 0.0037799 | rate=8064hr/yr, |
| ID=HT-1 | 39913E4 | 0.0005796 | rate=8064hr/yr, |

Roswell Ready Mix Concrete Batch Plant
ID=40063

| | | | |
|---|---|---|---|
| ID=40063ACT | 40063@1 | 2.7328336 | g/s |
| | | 0.19572997 | g/s |
| | | 1.55343862 | |

| Facility Name | AQB Source ID | $PM_{10}$ (lb/hr) | $PM_{2.5}$ (lb/hr) | $PM_{30}$:$PM_{10}$ Ratio[1,2] | $PM_{30}$:$PM_{2.5}$ Ratio[1,2] | $PM_{10}$ (lb/hr)[3] | $PM_{2.5}$ (lb/hr)[3] |
|---|---|---|---|---|---|---|---|
| Roswell Ready Mix Concrete Batch Plant | 40063@1 | 21.69 | 21.69 | 2.11 | 13.96 | 10.28 | 1.55 |

[1] Assumes TSP = $PM_{30}$

[2] Ratio based on particle size multipler from AP-42 Chapter 13.2.4.

[3] Modified Emission Rates (lb/hr) = Original Emission Rates (lb/hr) / Ratio ($PM_{30}$:$PM_{10}$ / $PM_{30}$:$PM_{2.5}$)

| Facility Name | Unit ID | Model ID | SS File Emission Rate | Annual Emission Rate from Permit / Application | Hours Per Day | Hours Per Year | Short Term Emission Rate | Long Term Emission Rate |
|---|---|---|---|---|---|---|---|---|
| | | | g/s | tpy | hrs | hrs | g/s | g/s |
| Leo Thorsness Facility | ID=HR-1 | 38504A1 | 0.0138598 | *0.08* | 24 | 8760 | 0.0138598 | 0.002301331 |
| Leo Thorsness Facility | ID=ENG-5 | 38504E3 | 0.00126 | - | 24 | 8760 | 0.00126 | 0.00126 |
| Leo Thorsness Facility | ID=GEN-1 | 38504E5 | 0.0050399 | - | 3 | 1067 | 0.000629988 | 0.000613878 |
| Leo Thorsness Facility | ID=HT-1 | 38504E6 | 0.0005796 | - | 24 | 8760 | 0.0005796 | 0.0005796 |
| Leo Thorsness Facility | ID=HT-2 | 38504E7 | 0.0005796 | - | 17 | 6192 | 0.00041055 | 0.00040969 |
| Leo Thorsness Facility | ID=ENG-2 | 38504E26 | 0.00252 | - | 24 | 8760 | 0.00252 | 0.00252 |
| Leo Thorsness Facility | ID=ENG-6 | 38504E27 | 0.00252 | - | 11 | 3888 | 0.001155 | 0.001118466 |
| Broadside 12 Facility 2 | ID=ROAD-1 | 40140A1 | 0.0277196 | *0.038* | 24 | 8760 | 0.0277196 | 0.001093132 |
| Broadside 12 Facility 1 | ID=ROAD-1 | 39913A1 | 0.0277196 | *0.038* | 24 | 8760 | 0.0277196 | 0.001093132 |
| Broadside 12 Facility 1 | ID=ENG | 39913E2 | 0.0037799 | - | - | - | 0.0037799 | 0.0037799 |
| Broadside 12 Facility 1 | ID=HT-1 | 39913E4 | 0.0005796 | - | - | - | 0.0005796 | 0.0005796 |

# APPENDIX E. GCP-5 PERMIT

**CONSTRUCTION PERMIT NO: GCP-5**

| *Registration No.*<br>*(For NMED use only* |
|---|

**GENERAL PERMIT CATEGORY: Concrete Batch Plants**

**ISSUED BY: New Mexico Environment Department**

Date of Issuance 9/12/06

JIM NORTON, Director
Environmental Protection Division

Air Quality Permit No. GCP-5 for Concrete Batch Plants (Permit) is issued by the Air Quality Bureau (AQB) of the New Mexico Environment Department (Department) under Title 20 Chapter 2 Part 72 of the New Mexico Administrative Code. [20.2.72 NMAC – *Construction Permits*, Section 220 – *General Permits*] The Department issues general permits in order to register groups of sources that have similar operations, processes, and emissions and that are subject to the same or substantially similar requirements. [20.2.72.220.A(1) NMAC] General permits provide an additional permitting option for specific types of sources that can meet the predetermined permit requirements. [20.2.72.220.C(1) NMAC]

This Permit authorizes the owner or operator to construct, modify, and operate a Concrete Batch plant (Facility) in New Mexico (excluding Bernalillo County and Tribal lands) under the conditions set forth herein as long as all conditions of this Permit are continually met.

An owner or operator who registers for and receives approval to construct under this Permit, will have satisfied the State of New Mexico's requirement for obtaining an air quality permit prior to constructing, modifying, or operating a source of air pollutants. However, other federal, state, or local agencies may have additional requirements such as zoning restrictions.

All terms written with initial capital letters are defined in Section VII – *Acronyms and Definitions*, of this Permit. Regulatory authority, if applicable, is cited in brackets. Please refer to the guidance document for this Permit for details, descriptions, and registration instructions. Questions regarding eligibility for this Permit can be directed to the Air Quality Bureau of the Environment Department at (505) 827-1494, or visit the New Mexico Environment Department's Web Site at http://www.nmenv.state.nm.us/AQB.

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## SECTION I. APPLICABILITY

### I.A. FACILITIES ALLOWED TO REGISTER UNDER THIS GENERAL CONSTRUCTION PERMIT.

The owner or operator may apply for registration of a Concrete Batch plant under this Permit if:

1. The Facility's purpose is to produce Concrete or Concrete products [SIC 3271, 3272 (with Department approval), or 3273];
2. The Facility can comply with all of the requirements of this Permit;
3. The Facility includes any combination of the following Emissions Units used in the production of concrete (and no others) within the Property Boundary:
   a. Permanent or temporary Facility that will have an actual production rate less than or equal to 2400 yards per day (YPD),
   b. Any combination of stockpiles or haul roads,
   c. Conveyers (belt, pneumatic, screw, etc.),
   d. Silos, bins, and hoppers,
   e. Mixers,
   f. Truck loading stations,
   g. Associated emission control systems (air pollution control devices),
   h. Natural gas, diesel, or propane fired heaters with a heat input rate of less than 25 MMBtu per hour that are used to heat water for the concrete mix,
   i. Internal combustion engines, including generators when grid power is not available,
   j. Systems for screening, handling, storing, and weighing aggregate,
   k. Systems for loading, transferring, and storing mineral filler,
   l. Sources exempt under 20.2.72.202 NMAC,
   m. Equipment for storing, measuring and dispensing cement dye, retardants, accelerants or other chemical admixtures,
   n. Truck washing stations,
   o. Wheel washing stations, or
   p. Other equipment typically found at concrete batch plants.

### I.B. EXCLUDED SOURCES

The following facilities cannot register for this Permit:

1. A Facility that does not meet the requirements in Subsection III.C - *Siting Restrictions*;
2. A facility subject to any federal New Source Performance Standard (NSPS) other than 40 CFR § 60 Subparts A and Kb;
3. A facility subject to a National Emissions Standard for Hazardous Air Pollutants (NESHAP) or Maximum Achievable Control Technology (MACT);
4. A Facility that operates in conjunction with another facility on the same property, except as allowed in Subsection III.E – *Co-Locations*;

5. A Facility subject to 20.2.72 NMAC, Sections 400 through 499 – *Permitting for Toxic Air Pollutants;*
6. A facility that processes slag, asbestos tailings or asbestos-containing waste materials; or
7. A facility that encapsulates and/or disposes of radionuclides or hazardous solid waste.

### I.C. PERMITTING ALTERNATIVES

1. The owner or operator of a Facility subject to 20.2.72 NMAC who does not choose to register or whose Facility fails to qualify for this Permit shall apply for a Construction Permit pursuant to 20.2.72 NMAC – *Construction Permits* and must receive such permit prior to construction.

### I.D. FACILITIES WITH BOTH A CONSTRUCTION PERMIT (PART 72) AND A GENERAL CONSTRUCTION PERMIT

1. A Facility that has a Construction Permit under 20.2.72 NMAC may also register for a GCP-5. Subparagraphs II.C.2.b and IV.C.1.i of this Permit contain specific requirements for Facilities that have both a GCP-5 and a Construction Permit.

### I.E. LARGE AND SMALL FACILITIES

1. Table I.E.1 shall govern the applicability of requirements in this GCP to Permitted Facilities based on daily production, which correlates directly with potential emissions. The permittee shall operate the Facility in accordance with one of the operating scenarios in the table. The Facility's initial operating size, when the GCP is granted by the Department, shall be based on information provided by the applicant on the registration form. [see II.C.5.a]

**TABLE I.E.1 REQUIREMENT APPLICABILITY**

| * Facility Size (YPD) | Requirements |
|---|---|
| Greater than 360 yards of concrete per calendar day. | Plants in this category are subject to all requirements in this GCP. |
| Less than or equal to 360 yards of concrete per calendar day. | Plants in this category are subject to all requirements in this GCP except: III.F.2.e, III.F.10.b, IV.A.1.b, IV.A.2, and IV.B.3.j |

* Some extremely small Facilities may emit less than 10 pounds per hour and less than 25 TPY of any single pollutant, and can therefore operate under a NOI instead of a GCP. Any Facility capable of loading more than13.9 TPH of cement or more than 2.9 TPH of fly-ash will exceed the 10 pound per hour limit. An applicant who thinks that his Facility may qualify for a NOI shall submit an NOI application to the Department.

## SECTION II. REGISTRATION PROCESS

### II.A. GENERAL

1. The applicant shall complete the current GCP-5 registration form provided by the Department, submit it to the Department, and provide a copy to the nearest Department Field

Office. [20.2.72.220.A(2)(b) NMAC] Field office locations are found on the Department's Website at http://www.nmenv.state.nm.us/NMED/field_op.html. Within thirty (30) days of receiving an application to register under this Permit, the Department shall review the application and shall grant or deny the registration. The owner or operator of a Facility approved for registration will receive a package containing a copy of the registration form, a copy of this GCP, and the approval letter.

2. Construction, operation or relocation of a Facility shall not begin until the owner or operator has received written authorization from the Department. The Department shall notify the owner or operator of approval or denial by certified mail. [20.2.72.200.E NMAC and 20.2.72.220.C(6)(a) NMAC]

### II.B. PUBLIC NOTIFICATION

1. The applicant shall provide public notice, including newspaper advertisement and posting at the Facility site, 15 days prior to submitting the registration form to the Department, in accordance with 20.2.72.220.C(2) NMAC. (See *GCP-5 Instructions and Guidance* for a public notice template.)

### II.C. REGISTRATION FORM

GCP-5 permit application forms, available from District offices and the Department's website, (http://www.nmenv.state.nm.us/aqb/index.html) shall be completed with the following information and attachments, and submitted to the address on the registration form.

1. General Information
   a. The Facility's site name and the contact person's name, address, phone number, e-mail address and fax number;
   b. The name of the company and the person(s) that own(s) and operate(s) the Facility;
   c. The date the application was notarized; and
   d. The primary four (4) digit Standard Industrial Classification (SIC) code. For concrete Facilities the SIC code will be one of the following:

      3271 Concrete Block and Brick,

      3272 Concrete Products, Except Block and Brick,

      3273 Ready-Mixed Concrete.

2. Initial Facility Status
   a. Whether the Facility is currently constructed and is operating in New Mexico;
   b. Whether the Facility currently has a Construction Permit(s), if so, the current permit number(s), and whether the existing permit(s) will remain active or not;
   c. Whether the application was submitted in response to a Notice of Violation; if so the NOV file number;
   d. Whether the Facility is an excluded source as described in Subsection I.B. – *Excluded Sources* of this Permit; and
   e. The type of material processed by the Facility.
3. Initial Facility Location
   a. The Section, Range, Township, county, and elevation;

b. The Universal Transverse Mercator (UTM) Easting and Northing coordinates (specify NAD-27 or NAD-83), zone, and latitude and longitude coordinates at the center of the Facility's Area of Operations;

c. The name and zip code of the nearest New Mexico town or tribal community;

d. The direction and distance from the Facility to the nearest town or tribal community;

e. The direction and distance from the perimeter of the Area of Operations to the nearest occupied structure;

f. Detailed written driving instructions to the Facility from the nearest town or tribal community;

g. The status of the land (e.g., Private, State, Federal, Tribal); and

h. The name, location, distance and direction from the Facility to any Class I Areas within three (3) miles of the perimeter of the Area of Operations.

4. Initial Operating Schedule

   a. The anticipated month and year that construction will start at this site; and

   b. The anticipated month and year that operation will start at this site.

5. Initial Facility Information

   a. The Facility's maximum proposed production rate, YPD and YPY;

   b. The area (in acres) to which public access is restricted;

   c. The area (in acres) of disturbed earth;

   d. The area (in acres) covered by storage piles and operations;

   e. The haul road length(s) and dust control measures;

   f. The equipment list, excluding engine driven vehicles, with the manufacturer and model number, (if the manufacturer and model number is not available - please indicate), equipment size or capacity, and the function or purpose of each piece of equipment;

   g. The manufacturer's maximum design capacity for each piece of equipment; and

   h. The manufacturer's recommended pressure drop across the Filter(s). If the manufacturer's recommendations are unavailable or are no longer relevant, include a statement that the Facility will use the results of a successful compliance test to establish normal operating range for the Filter(s).

6. Other Required Information and Attachments

   a. A process flow sheet and/or block diagram indicating individual equipment, emission points, unit numbers, and types of controls applied to those points;

   b. A plot plan drawn to scale, showing emission points denoted by unit number, Area of Operations, structures, tanks, fences, Restricted Area, and the Property Boundary of the property owned, leased or under direct control of the owner or operator;

   c. An appropriate legible map, such as a 7.5 minute United States Geological Survey (USGS) Topographic Quadrangle map, that shows the proposed location of the Facility;

   d. Documentation showing that the applicant has given the public notice described in Subsection II.B – *Public Notification*;

   e. A description of the methods by which public access to the Restricted Area is limited;

f. A preliminary operational plan defining the measures to be taken to mitigate source emissions during:

(1) Facility malfunctions, startup, shutdown, or scheduled maintenance as defined in 20.2.7 NMAC, and

(2) Weather conditions that would cause exceedence of the visible emission requirement in paragraph III.A.6. Reasonable measures to be employed include, but are not limited to, application of additional water to storage piles and haul roads.

g. The contact name, address, and date that a copy of the application was sent or delivered to a field office;

h. Certification by the Facility's owner, operator, or authorized representative before a notary public that all of the information included in the registration form is true and complete to the best of the signing individual's knowledge [20.2.72.203 A(12) NMAC]; and

i. A check or money order for the fees required by 20.2.75 NMAC. [payable to: NM Environment Department, AQB.]

## II.D. FEES

1. Permit and annual fees shall be determined pursuant to 20.2.75 NMAC – *Construction Permit Fees.*

2. A Facility that meets the definition of a Small Business [20.2.75.7.F NMAC] shall pay discounted fees [20.2.75.11.C NMAC]. A Facility that has total onsite engine capacity less than or equal to 180 hp (excluding mobile sources) and produces less than or equal to 130,000 YPY shall be considered to emit less than 50 TPY of any regulated air contaminant, and 75 TPY of all regulated air contaminants.

3. In the first year after the Department approves registration under this permit, the Facility's emissions shall be based on the proposed maximum production rate on the registration (subparagraph II.C.5.a). Each year thereafter, the Facility's emissions shall be determined by the annual production during the previous year. If the Facility's Small Business status changes, the next annual fee will change to reflect the new status. Regardless of Small Business status, the Facility may continue to operate under this GCP permit.

## II.E. MODELING

1. The Department has completed general air dispersion modeling for affected Facilities and has used the results to develop the requirements in this Permit. Therefore, air dispersion modeling is not required from the Applicant.

## II.F. REASONS THE DEPARTMENT MAY DENY A REGISTRATION

The Department may deny registration under this Permit if:

1. The registration form is not complete;

2. The Facility is not a source qualified to register for this General Permit;

3. The facility cannot continuously meet the terms and conditions of the Permit [20.2.72.220.C(3) NMAC]; or

4. Any criteria listed in 20.2.72.208 NMAC are applicable.

## SECTION III. FACILITY OPERATING REQUIREMENTS

### III.A. GENERAL TERMS AND CONDITIONS

1. The owner or operator shall operate the Facility using only the equipment described in the registration form or other equipment that has been reported to the department in accordance with Subsection IV.C – *Department Notification*, paragraphs 1.d and 1.e.
2. The owner or operator shall install, operate, and maintain the equipment in accordance with manufacturer's specifications and recommendations unless otherwise specified by a condition of this GCP.
3. The Facility shall use only gasoline, pipeline quality natural gas, liquefied petroleum gas (LPG)/propane, and/or #2 diesel fuel with a sulfur content equal to or less than 0.05 % by weight to fuel engines and heaters.
4. Facility production shall not exceed 2400 cubic yards of concrete per day.
5. A copy of the registration forms, this GCP, and the Department's approval letter, shall be maintained onsite and shall be made available to any representative of the Department upon request.
6. No visible emissions from the permitted Facility shall be observed crossing the perimeter of the Restricted Area for more than a total of five (5) minutes in any two (2) consecutive hours during Facility operation. Compliance with this condition shall be determined by fugitive emission test(s) conducted in accordance with 40 CFR § 60.11 and Reference Method 22 in 40 CFR § 60, Appendix A. During atmospheric conditions under which emissions cannot be controlled to meet the "no visible emission" requirement, the Facility shall either:
   a. cease operations, or
   b. execute the applicable measures set out in Subsection II.C. – *Registration Form*, paragraph 6.f, and perform the notification required in Subsection IV.C – *Department Notification*, paragraph 2.

### III.B. APPLICABLE REGULATIONS

1. The owner or operator registered under this Permit shall comply with any applicable portion of Title 20 of the New Mexico Administrative Code, Chapter 2, Air Quality. [20.2 NMAC]
2. The Department considers a Facility registered and operating under this Permit to be in compliance with the following state regulations as those regulations existed on the date of issuance of this Permit:
   a) 20.2.3 NMAC – *Ambient Air Quality Standards*
   b) 20.2.7 NMAC – *Excess Emissions During Malfunctions, Startup, Shutdown, or Scheduled Maintenance*
   c) 20.2.61 NMAC – *Smoke and Visible Air Emissions*
   d) 20.2.72 NMAC – *Construction Permits*
   e) 20.2.73 NMAC – *Notice of Intent and Emission Inventory Requirements*

f) 20.2.75 NMAC – *Construction Permit Fees*

3. The Department considers a Facility registered under and operating in compliance under this Permit to be in compliance with the federal Clean Air Act (CAA). [42 U.S.C. s/s 7401 et seq. (1970)]
4. The owner or operator shall be responsible for compliance with the current versions of any applicable state and federal regulations.

## III.C. Siting Restrictions

1. The Facility shall meet the following siting restrictions:

**Table III.C.1 Siting Restrictions**

| | Distance 'a' in this table shall be verified when the permitted Facility commences operation. Distance 'b' is continuously applicable during the permit period. | **Distance** |
|---|---|---|
| a. | Minimum distance from the perimeter of the Area of Operations to any Class I Area perimeter. | 4.82 km (3 miles) |
| b. | Minimum distance between any emission source of the permitted Facility and the perimeter of the Restricted Area, except where the haul road crosses the Restricted Area perimeter. | 13 meters (14 yards) |

## III.D. Relocation

1. The owner or operator shall notify the Department of any relocations in accordance with requirements in Subsection IV.C – *Department Notification*, subparagraphs 1.h and 1.i.
2. When operations cease at the site of a permitted Facility, prior to leaving the site, owners or operators should employ reasonable measures to reduce or avoid wind-blown particulate matter.

## III.E. Co-locations

1. A Facility registered under this permit may co-locate with a Hot Mix Asphalt and/or an Aggregate Processing Facility within the Property Boundary if:
   a. Such other source is permitted under 20.2.72 NMAC – *Construction Permits* or under a GCP;
   b. Each facility meets all requirements of its own permit; and
   c. No visible emissions from any co-located facility shall cross the perimeter of the Restricted Area per the requirement in paragraph III.A.6.
2. The daily production for co-located facilities shall not exceed the limits prescribed in Table III.E.1.

**Table III.E.1 Production Limitations**

| Facility/Source Type | Production |
|---|---|
| Aggregate Processing Facility | 7800 TPD |
| Hot Mix Asphalt Plant | 7800 TPD |
| Concrete Batch Plant | 2400 YPD |

3. For any co-located facilities, the minimum distance at the time of co-location from the perimeter of the Area of Operations to any existing state park, recreation area, schoolyard, private residence, office building, or other occupied structure shall be greater than ¼ mile.

## III.F. Emissions Restrictions and Conditions

1. Haul Roads and aggregate stockpiles shall be considered emission sources. Each stockpile shall be contained within a three walled bunker.
2. The Facility's truck-loading point shall control PM emissions by implementing the following controls and operational procedures to comply with paragraph III.A.6. All such control devices shall be maintained in working order. The Facility shall:
   a. Use only washed sand;
   b. Keep sand and aggregate piles controlled during hours of operation;
   c. Put at least 15% of the mix water into the trucks before adding dry batch ingredients;
   d. For truck mix Facilities, inject cementaceous materials through the central portion of a concentric boot surrounded by an aggregate curtain; and
   e. For truck mix Facilities, install and operate a commercially designed and manufactured negative-pressure canopy over the truck loading point. The canopy shall be designed-for and sized-to the permitted Facility and shall be operated such that it effectively controls truck-loading emissions during normal operations.
3. All displaced air from silos shall pass through a Filter before being vented to the atmosphere.
4. The design efficiency of Filters shall be no less than:

**Table III.F.1 Minimum Filter Efficiency**

| Filter Type | Filter Efficiency |
|---|---|
| Sock (allowed on silo(s) only) | 95.0% |
| Cartridge | 99.9% |
| Bag House/Fabric | 99.9% |

5. Filter fines shall be recycled via a closed loop system into a controlled silo.
6. The Facility's silo(s) and Filter(s) shall not exhibit visible emissions for more than a total of five (5) minutes in any consecutive two (2) hour period. [40 CFR § 60.92] Compliance with this condition shall be determined in accordance with procedures in Reference Method 22 in 40 CFR § 60, Appendix A.
7. No visible emissions from the Facility shall cross the perimeter of the Restricted Area per paragraph III.A.6.
8. Silos shall be equipped with audible and visual alarms, which activate prior to the silo being 95 percent full.

9. Haul roads shall, at a minimum, use basecourse and watering to control fugitive emissions.
10. If, at any time, the minimum distance from the perimeter of the Area of Operations to any state park, recreation area, schoolyard, private residence, office building, or other occupied structure is or becomes less than ¼ mile, haul road fugitive emissions shall be controlled by:
    a. surfactant, or by paving and sweeping traffic areas (within 25 meters of the area of operations perimeter), and
    b. use of wheel washing equipment at truck exit(s).
11. Haul roads greater than one (1) mile in length are not allowed by this GCP.
12. Central Mix Facilities shall install, operate and maintain the mixer and associated control equipment as per the manufacturer's specifications.
13. Prior to producing 1920 cubic YPD of concrete, the permittee shall install and maintain a cartridge filter or a baghouse on all silos.

### III.G. Other Emissions Limitations

1. The annual emissions from the permitted Facility, including fugitive sources of emissions, shall not exceed the emissions limitations in Table III.G.1 – *Total Annual Emission Limitations.* [20.2.70 NMAC]

**Table III.G.1 Total Annual Emission Limitations**

| Pollutant | Emissions Limitation |
|---|---|
| Nitrogen Oxides ($NO_x$) | 95 tons per year |
| Carbon Monoxide (CO) | 95 tons per year |
| Volatile Organic Compounds (VOCs) | 95 tons per year |
| Total Suspended Particulate (TSP) | 95 tons per year |
| Sulfur Dioxide ($SO_2$) | 50 tons per year |
| Any one (1) Hazardous Air Pollutant (HAP) | 8 tons per year |
| Sum of all Hazardous Air Pollutants (HAPs) | 23 tons per year |

For co-located plants, if the plant and the co-located source 1) belong to the same "major group" (i.e., which have the same first two digit code) as described in the Standard Industrial Classification Manual, 1972, as amended by the 1977 Supplement; 2) are under the control of the same person (or persons under common control); and 3) are located on one or more contiguous or adjacent properties, then the total emissions from the co-located plant and source shall not exceed the emissions limitations in this table. [40 CFR 52.21(b)(6)] These limits ensure that the plant will not be a major source under 20.2.70 NMAC.

### III.H. Requirements for Stationary Combustion Equipment

1. This subsection does not apply to tailpipe emissions from engines used to propel vehicles on the property.
2. All combustion source emissions shall be vented vertically.
3. Emissions from stationary internal combustion engines and heaters shall not exhibit greater than 20% opacity. Compliance with this requirement shall be determined by opacity test

observations conducted in accordance with 20.2.61 NMAC and Reference Method 9 in 40 CFR § 60 Appendix A.

## SECTION IV. MONITORING, RECORDKEEPING AND NOTIFICATION REQUIREMENTS

### IV.A. MONITORING

1. The registered Facility shall monitor and record the loading activity status of silos and trucks and the pressure (inches of water) across the Filter(s) using a differential pressure gauge:
   a. Each time a silo is being filled;
   b. Each time a concrete truck is being filled;
2. The pressure and loading activity status shall be recorded by a CEMS or data-logger.
3. The records shall confirm that the Filter(s) are being employed per subparagraph III.F.2.e and paragraph III.F.3. The pressure data shall confirm whether the Filter(s) are operating within manufacturer's specifications, or, if manufacturers specifications are not available, within the operating parameters established by Method 22 during initial compliance tests. [Subsection IV.D – *Compliance Testing*, paragraph 9]

### IV.B. RECORDKEEPING

1. Compliance with recordkeeping requirements for this Permit shall be based on Department inspections of records and logs.
2. The owner or operator shall retain records for at least two (2) years after collection either on-site or at a local business office. [20.2.72.220.A(2) NMAC] The owner or operator shall make all records required by this permit available to Department personnel upon request.
3. The owner or operator shall collect and retain the following records:
   a. Actual hours of operation (e.g., beginning and end of operation) for each day of the operation;
   b. Monitoring required under Subsection IV.A- *Monitoring*;
   c. Weekly total production and the monthly rolling 12 month total production;
   d. Number of haul truck trips per day including materials delivery and product;
   e. Fuel delivery manifest that includes the, type of fuel, and number of gallons purchased;
   f. The quantity and frequency of water or surfactant application to haul roads;
   g. The frequency of haul road sweeping (if paved);
   h. Other haul road control measures (if used);
   i. Copies of the manufacturer's (or applicant's proposed) maintenance and operating requirements and records demonstrating conformance with said requirements; and
   j. Copies of documentation that substantiates compliance with the requirement in subparagraph III.F.2.e.

### IV.C. DEPARTMENT NOTIFICATION

1. The owner or operator shall notify the Air Quality Bureau in writing:

a. Within thirty (30) days after the actual date that operations ceased;

b. Within fifteen (15) days if the Facility is permitted as a small business and it no longer qualifies as such, either because its rolling 12 month total production exceeds the quantity in paragraph II.D.2, or because it fails to meet any other criteria defined in 20.2.75.7.F NMAC. This notification shall contain the permit number and "Change of Small Business Status" in the subject line.

c. Prior to making changes to the Facility that affect any information on the registration form [20.2.72.220.D NMAC] except as noted in subparagraphs e through i of this paragraph;

d. Prior to but no earlier than fifteen (15) days before any changes in equipment, using the GCP-5 *Substitution and Equipment Exchange* form or the *Reporting Additional Equipment* form. (Forms are available from the Department's Web Site);

e. Within fifteen (15) days after a change of the Facility ownership;

f. Within fifteen (15) days after a change of the contact person's name, address, phone number, e-mail address and/or fax number;

g. Within fifteen (15) days after the actual date of initial startup of the Facility;

h. Within fifteen (15) days prior to any relocation of the Facility in accordance with the Department's *Relocation Application* form. Relocated Facilities shall continue to meet all requirements of this Permit. Relocation shall not occur until the owner or operator has received written authorization from the Department [20.2.72.220.C.6(a) NMAC].

i. On the *Relocation Application* whether the Facility will continue to operate under GCP-5 or under a regular Construction Permit, and specify the applicable permit or registration number.

2. The owner or operator of a Facility that:

   a. produces excess emissions due to air pollution control equipment malfunctions (e.g. damaged/torn bags), or

   b. violates the visible emission requirement in paragraph III.A.6

   shall notify the Department within twenty-four (24) hours by telephone or fax. The owner or operator shall submit written notification to the Department within ten (10) days after the start of the next business day. All such notifications and actions shall be in accordance with the procedures in 20.2.7 NMAC – *Excess Emissions During Malfunction, Startup, Shutdown, or Scheduled Maintenance*. If the visible emission requirement in paragraph III.A.6 was exceeded due to weather conditions, the owner/operator shall document the weather parameters at the time and the measures taken to reduce or mitigate the emissions.

## IV.D. COMPLIANCE TESTING

1. The owner or operator shall perform initial compliance tests on each heater greater than 5 MMBtu and each combustion engine that has a site rating equal to or greater than 180 hp. The tests shall be conducted in accordance with EPA Reference Methods 1 through 4, Method 7E for NOx, Method 9 for opacity, and Method 10 for CO, contained in 40 CFR § 60, Appendix A; and with the requirements of Subpart A, *General Provisions*, 40CFR § 60.8(f). For NOx and CO, portable analyzer tests will be considered equivalent if Department guidelines (available from the Compliance section of AQB's website) are

followed; however, the Department reserves the right to request Method testing in specific cases. Alternative test methods may be used if approved by the Department. The results of the NOx tests shall be expressed as nitrogen dioxide ($NO_2$) using a molecular weight of 46 lb/lb mole in all calculations (each ppm of $NO/NO_2$ is equivalent to $1.194 \times 10^{-7}$ lb/SCF).

2. Additional compliance tests shall be conducted if it is deemed necessary by the Department to demonstrate that the Facility is in compliance with all the applicable regulations or permit conditions. Compliance test requirements from previous permits (if any) are still in effect, unless the tests have been satisfactorily completed.
3. If any equipment, required by this subsection to undergo initial compliance test(s), is added, changed out, or replaced at the permitted Facility, the owner or operator shall perform a compliance test on the new unit within 60 days of notification (IV.C.1.d), consistent with the requirements of this subsection, unless waived by the Department in writing.
4. The owner or operator shall conduct these tests within sixty (60) days of initial startup of the Facility.
5. The owner or operator shall allow a representative of the Department to be present at the test.
6. The owner or operator shall observe the following pre-testing and testing procedures:
   a. The owner or operator of the Facility shall provide, for the Department Enforcement Program Manager's approval, a written test protocol at least thirty (30) days prior to the anticipated pre-test meeting date.
      (1) The protocol shall describe the test methods or standard operating procedures to be used (including sampling locations), and shall describe data reduction procedures.
      (2) The owner or operator shall identify in the protocol any proposed variation from the established sampling and analytical procedures or from the conditions in this permit.
   b. The test protocol and compliance test report shall conform to the standard format specified by the Department. The current version of the format may be obtained from the Department's Web Site or from the Compliance section of AQB's website.
   c. The owner or operator shall provide the following performance test facilities for the Department:
      (1) Sampling ports necessary for any test methods specified by this Permit,
      (2) Safe sampling platforms,
      (3) Safe access to sampling platforms, and
      (4) Utilities for sampling and test equipment.
   d. Where necessary to prevent cyclonic flow in the stack, the owner or operator shall install flow straighteners in accordance with EPA Reference Method 1 in 40 CFR § 60, Appendix A.
7. During engine and heater compliance tests [Subsection IV.D, paragraph 1], the owner or operator shall monitor and record the Facility's hourly production rate. This information shall be included with the test report that is required to be furnished to the Department and shall be listed in tabular form or as part of the summary page of the test report.
8. Engine compliance tests [Subsection IV.D, paragraph 1] shall be conducted at 90 percent or greater of the engine's site rated capacity, as stated in the registration form of this Permit, and

at additional loads when requested by the Department. The load and the parameters used to calculate it shall be recorded to document operating conditions and shall be included with the test report to the Department.

9. Initial compliance tests on Filters shall demonstrate compliance with paragraph III.F.6, or shall establish an operating range in which there are no visible emissions per paragraph III.F.6. Results shall be furnished to the Department for use as a baseline data set during future compliance inspections as a comparison of Facility performance versus opacity.
10. The owner or operator shall submit one copy of the test protocol and compliance test results to the Enforcement Program Manager of the Department no later than forty five (45) days after the completion of the testing.

## SECTION V. CHANGES THAT PREVENT MEETING THE GENERAL PERMIT REQUIREMENTS

1. The owner or operator shall not change or add equipment that prevents the Facility from complying with the conditions of this permit.
2. Prior to making any modification that would result in the Facility not being able to meet the conditions of this permit; the owner or operator shall obtain a Regular Construction Permit under 20.2.72 NMAC from the Department. [ 20.2.72.220.D(2) NMAC]

## SECTION VI. RIGHTS OF THE ENVIRONMENT DEPARTMENT AND THE REGISTERED FACILITY

### VI.A. PROPERTY ACCESS AND RECORD REVIEW

1. The Department may access the Facility and the nearest operations office of the Facility during operational hours to inspect the equipment at the Facility and any records to ensure that the Facility has operated and continues to operate in compliance with the conditions of this permit. Operational hours shall include all times when employees are present and emissions may be occurring. [Air Quality Control Act, NMSA 1978. Section 74-2-5.1A]

### VI.B. CANCELLATION OF REGISTRATION

1. The Department may cancel registration under this Permit if the owner or operator of the Facility has not notified the Department within two (2) years of approved registration that the construction or modification has begun. The Department may also cancel the registration if construction work is suspended for one (1) year.
2. The Department shall cancel the registration if the owner or operator of the Facility ceases operation for five (5) years or more. [20.2.72.211.A NMAC]

### VI.C. REVOCATION OF REGISTRATION

1. The Department may revoke a registration under this Permit in writing:
   a. If the owner or operator of the Facility has knowingly and willfully misrepresented a fact on the registration form; or
   b. Pursuant to an Administrative Compliance Order or Court Order.

## VI.D. Appeals of Department Permitting Actions

1. Any party affected by the Department's approval, denial or revocation of a registration under this Permit may appeal to the Environmental Improvement Board (EIB) within thirty (30) days of the Department's decision pursuant to Subsections F through H of 20.2.72.207 NMAC and 20.2.72.220.C(5) NMAC.

## VI.E. Revision of the General Construction Permit

1. The Department may revise this Permit pursuant to 20.2.72.220.B NMAC. New Facilities are required to comply with the new GCP-5 transition schedule within the time frame stated in the new version.

## SECTION VII. ACRONYMS AND DEFINITIONS

### VII.A. ACRONYMS

| | |
|---|---|
| AC | Asphalt Concrete |
| APF | Aggregate Processing Facility |
| (AQB) | Air Quality Bureau |
| AQCR | Air Quality Control Regions |
| CO | Carbon monoxide |
| CBP | Concrete Batch Plant |
| CEMS | Continuous Emissions Monitoring System |
| CFR | Code of Federal Regulations |
| EIB | Environmental Improvement Board |
| GCP | General Construction Permit |
| HAP | Hazardous Air Pollutant |
| HMA | Hot Mix Asphalt |
| NAAQS | National Ambient Air Quality Standards [40 CFR Part 50] |
| NAIC | North American Industrial Classification |
| NESHAP | National Emission Standards for Hazardous Air Pollutants [40 CFR Part 61 and 63] |
| NMAAQS | New Mexico Ambient Air Quality Standards [20.2.3 NMAC] |
| NMAC | New Mexico Administrative Code |
| NMED | New Mexico Environment Department |
| NOI | Notice Of Intent |
| NOV | Notice Of Violation |
| $NO_x$ | Oxides of nitrogen |
| NSPS | New Source Performance Standards [40 CFR Part 60] |
| MACT | Maximum Achievable Control Technology |
| PM | Particulate Matter |
| $PM_{10}$ | Particulate Matter with an aerodynamic diameter of 10 microns or less |
| ppm | Parts Per Million |
| PSD | Prevention of Significant Deterioration [20.2.74 NMAC] |
| SCF | Standard Cubic Foot |
| SIC | Standard Industrial Classification |
| $SO_2$ | Sulfur Dioxide |
| TPH | Tons Per Hour |
| U.S. EPA | United States Environmental Protection Agency |
| VOC | Volatile organic compound |
| YPD | (cubic) Yards Per Day |
| YPH | (cubic) Yards Per Hour |
| YPY | (cubic) Yards Per Year |

## VII.B. DEFINITIONS

**"Area of Operations"** means the area within the Restricted Area which contains all Emissions Units and activities which may produce air contaminants, including Emissions Units and activities listed in Subsection I.A. – *Facilities Allowed to Register*, paragraph 3, all disturbed lands and all haul roads except the haul road between the Restricted Area and the Property Boundary. Disturbed lands include all active mining areas, stockpiles, and overburden removal areas used for operation of the Facility.

**"Aggregate Processing Facility "** means any facility or plant that utilizes any combination of equipment or machinery that is used to quarry, separate, screen, combine, or crush, any nonmetallic mineral.

**"Air Quality Control Region" (AQCR)** means an interstate or intrastate area designated by the U.S. Environmental Protection Agency (EPA) for the attainment and maintenance of National Ambient Air Quality Standards (NAAQS).

**"Asphalt"** means the bituminous substance used to bind aggregate together to make asphalt concrete (AC).

**"Concrete"** means a conglomerate of gravel, pebbles, sand, broken stone, blast-furnace slag or cinders, or fly-ash (termed the aggregate) embedded in a matrix of either mortar or cement mixed with water.

**"Concrete Batch Plant"** means any facility or plant used to manufacture concrete by mixing water, aggregate, and cement.

**"Department"** is the State of New Mexico Environment Department, Air Quality Bureau.

**"Emissions Units"** means any building, structure, equipment, facility, installation (including temporary installations), operation or stationary source, which emits or has the potential to emit any air pollutant subject to regulation under the Act.

**"Filter"** means the equipment used by the Facility to capture dust and particulate matter. As used in this GCP, the term Filter includes baghouses, fabric filters, sock filters, and cartridge filters.

**"Fugitive Emissions"** means those emissions, which could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.

**"Haul Road"** means any on-site road that is not accessible to the general public and is connected to the facility or the nearest public road.

**"Hazardous Air Pollutants"** are air pollutants that are designated as hazardous by the U.S. EPA in the Clean Air Act and listed in 40 CFR Part 61 Section 112b.

**"Hot Mix Asphalt Plant"** means any facility or plant that utilizes any combination of equipment or machinery to store, deliver, or manufacture Asphalt Concrete by mixing Asphalt and heated aggregate.

**"National Ambient Air Quality Standards"** means the primary (health based) and secondary (welfare-based) federal ambient air quality standards promulgated by the U.S. EPA pursuant to Section 112 of the federal Clean Air Act.

**"NSPS" (New Source Performance Standards)** means the regulatory requirements, guidelines and emission limitations promulgated by the U.S. EPA pursuant to Section 111 of the Federal Clean Air Act and 40 CFR Part 60.

**"Opacity"** means the degree to which emissions reduce the transmission of light and obscure the view of an object in the background.

**"Owner or Operator"** is any person who owns or operates a process or process equipment at the source for which coverage under the Permit has been granted.

**"Property Boundary"** means the outside edge of the property, which includes all the equipment, registered under this Permit. The property may consist of one or more continuous and adjacent properties if they are owned, leased, or under direct control of the owner or operator.

**"Ready Mix Plant** or "Redi Mix" or "central mix" means a plant that combines and mixes **Concrete** ingredients with water in a drum at the Facility, before loading the mix into a truck for transport to the point of use.

**"Restricted Area"** means the area to which public access is restricted.

**"Stack Emissions"** means emissions that are released to the atmosphere from a capture system through a stack or other point source discharge on the Facility.

**"Transit Mix Plant"** means a plant where Concrete ingredients are put into trucks and mixed by rotation of the drum on the way to the job-site.

# APPENDIX F. GCP-5 PERMIT # 9285

| Mail Application To: | | For Department use only: |
|---|---|---|
| New Mexico Environment Department<br>Air Quality Bureau<br>Technical Services Unit<br>525 Camino de los Marquez, Suite 1<br>Santa Fe, New Mexico, 87505<br><br>Phone (505) 476-4300<br>Fax (505) 476-4375<br>https://www.env.nm.gov/air-quality/ | | RECEIVED<br>JUN 17 2021<br>Air Quality Bureau<br>AIRS #: AI #: |

# General Construction Permit GCP-5

## Multi-Form for Concrete Batch Plants

(Locating outside of Bernalillo County and Tribal Communities)

Use this form for any combination of the following permitting activities: **Initial registration** of a facility for a GCP-5 permit, GCP-5 facility **relocations**, GCP-5 **substitution of equipment** notification, and reporting of **additional equipment** for GCP-5 facilities.

### Acknowledgements (Mark all that apply):

☒ **I am submitting this form for an initial GCP-5 registration.**

☐ **I am submitting this form for relocation.** A complete form is required for all relocations including the Equipment List.

☐ **I am submitting this form for equipment substitutions, removals, or additions.** Sections I, VII, VIII and IX.1 are required in addition to the certification form on page 10. Applicable provisions of the GCP-5 may require compliance tests for equipment installed following this notification. Include other sections if information is changing that should be reported in those sections.

☐ **I acknowledge that a pre-application meeting is available to me upon request.**

☐ **I have sent a copy of this application to the nearest Department Field Office (required for initial registrations only).**

☐ **Public notice was posted prior to submitting this form to NMED.**

☐ **I have published the public notice required by Condition II.B.1 of GCP-5 (required for initial registrations only).**

☐ **This facility qualifies to receive assistance from the Small Business Environmental Assistance program (SBEAP) and qualifies for 50% of the current application and permit fees.** To see if you qualify for SBEAP assistance and a fee reduction go to https://www.env.nm.gov/air-quality/small-biz-criteria/

☐ **This facility qualifies to receive assistance from the Small Business Environmental Assistance Program (SBEAP) but does not qualify for 50% of the current application and permit fees.** To see if you qualify for SBEAP assistance go to https://www.env.nm.gov/air-quality/small-biz-criteria/

☒ **I have enclosed a check for the required fee: ☒ initial registration fee: $4,260 prior to 1/1/2021 or $4,320 beginning 1/1/2021; OR ☐ relocation fee $426 prior to 1/1/2021 or $432 beginning 1/1/2021.** There is an annual fee in addition to the registration fee: www.env.nm.gov/air-quality/permit-fees-2/

For facilities qualifying as a "small business" under 20.2.75.7.F NMAC, these fees are or $2,130 and $213 respectively prior to 1/1/2021 or $2,160 and $216 respectively beginning 1/1/2021, provided that NMED has a Small Business Certification Form from your company on file. This form can be found at: https://www.env.nm.gov/air-quality/frequently-requested-forms/
**Provide your Check Number:** _____ **and Amount:** _____.

**This facility is a ☒ Truck Mix ☐ Central Mix ☐ Other (specify):**

| I | Company Information | | |
|---|---|---|---|
| 1 | a) Company name: Roswell Ready Mix | | b) Date application notarized: 6/16 /2021 |
| 2 | a) Facility name: Delaware Basin Concrete Plant | b) 4-digit SIC code: 3273 | c) 6-digit NAICS code: **327320** |
| 3 | Company mailing address: 4100 S. Lea St. Roswell, NM 88203 | | This facility is: ☐ Stationary ☒ Portable |

| | | | |
|---|---|---|---|
| 4 | Permit # (unless this is a new facility): | | AI # (unless this is a new facility): |
| 5 | a) Contact person: Danny Carr | | b) Title: General Manager |
| 6 | a) Phone No: 575-408-0715 | b) Fax No: | c) e-mail: dcarr@nmreadymix.com |
| 7 | Will this facility operate in conjunction with other air regulated parties on the same property? ☒ No ☐ Yes<br>If yes, what is the name and permit number (if known) of the other facility? | | |
| 8 | a) If you have hired a consultant, provide name and contact info: | | |
| 9 | a) Phone No: | b) Fax No: | c) e-mail: |

## II Applicability

| | | |
|---|---|---|
| 1 | Is your facility listed under a NESHAP or MACT? | ☒No ☐Yes |
| 2 | Will your facility process radioactive materials? | ☒No ☐Yes |
| 3 | Will your facility process materials that include any listed Hazardous Air Pollutants (HAPs)? | ☒No ☐Yes |
| 4 | Will your facility process asbestos tailings, or asbestos containing waste materials? | ☒No ☐Yes |
| 5 | Is your facility subject to 20.2.72 NMAC, Subpart IV, *Permitting for Toxic Air Pollutants?* | ☒No ☐Yes |
| 6 | Will this facility be located less than three (3) miles from a Class I (Wilderness) area? See AQB Modeling website for a map of Class I areas at: http://www.env.nm.gov/aqb/modeling/class1areas.html | ☒No ☐Yes |
| 7 | Will this facility use any fuels other than natural gas, liquefied petroleum gas (LPG)/propane, gasoline, and # 2 diesel fuel with a sulfur content greater than 0.05% by weight? | ☒No ☐Yes |
| If you answered ***Yes*** to any of questions 1-7, your facility **does not** qualify for this general construction permit. You need to submit an application for a regular permit under 20 NMAC 2.72 *Construction Permits*. | | |
| 8 | Will your facility meet the location requirements as described in Sections III.C. and III.E. of this general construction permit? | ☐No ☒Yes |
| 9 | Is your facility's primary purpose to produce concrete and concrete products per Condition I.A.1 of this general construction permit? | ☐No ☒Yes |
| 10 | Is your facility's production rate less than or equal to 2400 yards of concrete per day (YPD) as required by Condition III.A.4. of this General Construction Permit? | ☐No ☒Yes |
| 11 | Does your facility include any combination of the Emissions Units listed in Section I.A.3. of the general construction permit, and no others? | ☐No ☒Yes |
| 12 | Can your facility comply with all of the applicable state and federal regulations listed in Section III.B. of the general construction permit? | ☐No ☒Yes |
| 13 | Will the perimeter of the Area of Operations of your facility be located more than one-quarter mile (1/4) from an existing recreation area, private residence, office building, school, or other occupied structure? OR, if your facility does not meet this setback, will the haul road fugitive emissions meet the control requirements as described in Condition III.F.10? | ☐No ☒Yes |
| 14 | If you plan to co-locate this facility with an asphalt facility or a crushing facility, will your facility comply with the location requirements as described in Section III.E – *Co-Locations* of this general construction permit? If this facility is not co-located, check "Yes". | ☐No ☒Yes |
| 15 | Will the minimum distance between any emission source of the permitted Facility and the perimeter of the Restricted Area (except where the haul road crosses the Restricted Area perimeter) be at least 13 meters (14 yards)? | ☐No ☒Yes |
| 16 | Will the haul road control measures meet or exceed the requirements as described in Section III.F of this general construction permit? | ☐No ☒Yes |
| If you answered ***NO*** to any of questions 8-18, your facility **does not** qualify for the general construction permit. You need to submit an application for an individual permit under 20. 2.72 NMAC *Construction Permits*. | | |

## III Current Facility Status

| | | | |
|---|---|---|---|
| 1 | Has this facility previously been issued a general construction permit? ☒Yes ☐No | If yes, the registration No. is:GCP5-1514 | |
| 2 | Has this facility already been constructed? XYes No | If yes, is it currently operating in New Mexico? ☐Yes ☒No | |
| 3 | Does this facility have a 20.2.72.200.A (or B) NMAC construction permit or a 20.2.73 NMAC Notice of Intent (NOI)? ☐Yes ☒No | | If yes, the permit (or NOI) #, and whether the permit will remain active or not: |
| 4 | Is this application in response to a Notice of Violation (NOV)? ☐Yes ☒No If so, provide current permit #: | If yes, NOV date: | NOV Tracking No. |
| 5 | This Facility is submitting this application as a Small Business and will operate under the small business product limitation in the GCP, Section II.D.2 – *Fees*. ☐Yes ☒No | | |

| | |
|---|---|
| 6 | This Facility will operate as a Small Business under Condition II.D. I understand additional reporting requirements are necessary prior to operating over the HP and TPY limits set in condition II.D.2, and as required in Condition IV.C.1.b. ☐Yes ☒No |

## IV Facility Location Information

Please use Montana's Graphical Locater to convert Lat/Long to UTM systems, found at: http://rcn.montana.edu/resources/converter.aspx

| | | | | | |
|---|---|---|---|---|---|
| 1 | a) Section: 7 | b) Range: 34E | c) Township: 24S | d) County: Lea | e) Elevation (ft): 3599 |
| 2 | a) UTM Zone: ☐12 or ☒13 | b) UTME (to nearest 0.01 km): 640185 | | c) UTMN (to nearest 0.01 km): 3566686 | |
| | d) Specify which datum is used: | ☐ NAD 27 | ☒ NAD 83 | ☐ WGS 83 | |
| AND | a) Latitude (decimal degrees): 32.22806 | b) Longitude (decimal degrees): -103.51224 | | | |
| 3 | Name and zip code of nearest New Mexico town and/or tribal community: Jal NM, 88252 | | | | |
| 4 | Detailed Driving Instructions including direction and distance from nearest NM town and/or tribal community (attach a road map if necessary). If there is no street address, provide public road mileage marker: From 3rd St and NM 128, Drive 20.4 miles W on NM 128 to Delaware Basin Rd. Turn N and drive 1.25 miles to haul road on W to the area of operations. | | | | |
| 5 | The facility is 20.5 (distance) miles West (direction) of Jal, NM (nearest town). | | | | |
| 6 | Direction and distance to the nearest occupied structure from the perimeter of the Area of Operations: More than 3.5 miles<br><br>On Attachment C (page 6) required map, indicate (circle) all residences within ¼ mile of area of operations. | | | | |
| 7 | Land Status of Facility (check one): ☒ Private ☐ Indian/Pueblo ☐ Government ☐ BLM ☐ Forest Service ☐ Military | | | | |
| 8 | Name and county of the nearest Class I Area and its direction from the facility: Carlsbad Caverns 267° | | | | |
| 9 | Shortest distance from the facility to the boundary of the nearest Class I Area (to the nearest 1 km): 89 km | | | | |

## V Initial Operating Schedule

| | |
|---|---|
| 1 | Month and year of anticipated construction of the new or modified facility: June 2021 |
| 2 | Month and year of anticipated completion date at this proposed site: June 2022 |

## VI Other Facility Information

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | Maximum proposed production | 350 | yards/day | 2 | Total miles of haul road (one way) | .25 | miles |
| 3 | Maximum proposed production | 30000 | yards/year | 4 | Estimated Number of Haul truck trips/day (round trip) | 6 | trips/day |
| 5 | Area of disturbed earth | 5 | acres | 6 | Area of storage pile & operations | 5 | acres |

7 a) **Restricted Area**: Provide a written description of the method(s) to be used to restrict public access to the restricted area. Method(s) used to delineate the Restricted Area: The location is fenced on the South along NM 128 and on the East along Delaware Basin Rd. "NO TRESPASSING" signs are posted near the haul road entrance on the east side of the facility. The operation is very remote to the general public.

"**Restricted Area**" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area.

| | |
|---|---|
| 8 | Describe the control measures that will be used on haul roads to meet the fugitive emission requirements described in Section III.F. of this General Construction Permit:<br>Water |
| 9 | Provide the manufacturer's recommended pressure drop across the filter(s), as required by Condition II.C.5.h:<br>12-20 psi |
| 10 | Provide a preliminary operational plan(s) defining the measures to mitigate source emissions during:<br>1) Facility malfunctions, start up, shutdown, scheduled maintenance as defined in 20.2.7 NMAC, and<br>2) weather conditions that would cause an exceedance of the visible emission requirement in Section III.A.6. of the permit.<br><br>During malfunctions, start up, shutdown, scheduled maintenances, and weather exceedances the plant will shut down until it can operate without exceedances. |

## VII Process Equipment Information, including silos (use additional sheets if necessary)

| Unit Number (match attachments) | Component Description (or unit's function). Also enter all silos and control devices. | Manufacturer | Manufacture Date | Model Number | Equipment Size, Capacity or Maximum Process Rate | Manufacturers Emission Factors for Regulated Air Pollutants (for engines or generators). For control devices, enter efficiency. | Date of most recent Compliance Test in New Mexico (or "None") |
|---|---|---|---|---|---|---|---|
| | **Concrete Plant** | | | | | | |
| 01 | FEED BIN | **CEMCO** | 1994 | 150 | 150 YPH | | |
| 02 | CONVEYOR BELT | **CEMCO** | 1994 | 150 | 150 YPH | | |
| 03 | AGGREGATE BIN | **CEMCO** | 1994 | 150 | 15 CY | | |
| 04 | SAND BIN | **CEMCO** | 1994 | 150 | 10 CY | | |
| 05 | CONVEYOR BELT | **CEMCO** | 1994 | 150 | 150 YPH | | |
| 06 | CBP | **CUMMINS** | 1994 | | 150 YPH | | |
| 07 | DIESEL GENERATOR FOR HYDRAULIC PUMP | **CUMMINS** | 1994 | JDXL | 37-75 kW/100HP MAX | N/A < 185 HP | |
| S1 | FLY ASH | **CEMCO** | 1994 | 150 | 150 YPH | | |
| S2 | CEMENT | **CEMCO** | 1994 | 150 | 150 YPH | | |
| S2a | BAGHOUSE | **CEMCO** | 1994 | 150 | 150 YPH | | |
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[1] To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

## VIII Storage Tank Information (Note: this data will be used to determine 40 CFR 60 Subpart Kb applicability) (Use additional sheets if necessary)

| Tank No. | Materials Stored | Date Installed (MM/DD/YY) | Capacity (bbl) | Capacity ($M^3$) | Diameter (M) | Height (M) | True Vapor Pressure (kPa) | Annual Through-puts (gal) | Annual Turnovers |
|---|---|---|---|---|---|---|---|---|---|
| S1 | FLY ASH | JUNE 2021 | 50 TONS | | 4 | 14 | | | |
| S2 | CEMENT | JUNE 2021 | 75 TONS | | | | | | |
| T1 | PROPANE | JUNE 2021 | 250 GAL | | 4' | 4' | 9.2psig @ 60°F | 600 | 2.4 |
| T2 | DIESEL | JUNE 2021 | 150 GAL | | 4' | 4' | 0.009psig @ 70°F | 2000 | 13.3 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |

## IX Required Attachments

**The following Attachments are required. Please label each document and verify you have provided the requested information by checking the checkboxes below. A complete application shall include:**

**Attachment # 1 Process Flow Sheet:** For **initial** registration applications and for all **substitutions**, removals, and **additions** of equipment applications; include a process flow sheet and/or block diagram indicating:

- ☒ All regulated equipment (Numbering or naming system should cross reference with Attachment #2)
- ☒ All emission points
- ☒ Types of control (if any) applied to those points.

**Attachment # 2 Facility Layout Map:** Provide a satellite photo or commercial scale map) showing the proposed **layout** of the Facility and the surrounding area including at least 0.25-mile (but not greater than 0.5 mile) distance from the Restricted Area **in all directions**. The map shall also include (show) the following:

- ☒ Include the label "Facility Layout Map" and the name of the facility
- ☒ A graphical scale
- ☒ An indicator showing which direction is north
- ☒ The UTM coordinates (or Longitudinal coordinate system on both axis)
- ☒ All emissions units, structures, tanks
- ☒ The access haul roads from the Area of Operations to the perimeter of the Property Boundary. Label the length.
- ☒ Any relevant topographic features of the area
- ☒ Any co-located particulate sources
- ☒ Facility Property Boundary
- ☒ The perimeter of the Restricted Area (fence line). For the complete definition, refer to the 'Definitions' at the end of the GCP permit). If more than one type of barrier is used, identify the types and locations of each barrier that will be used to restrict access from the public.
- ☒ The perimeter of the Area of Operations (see 'Definitions' at the end of the GCP permit).
- ☒ If it will fit on this map, identify the Property Boundary owned, leased, or under direct control of the applicant and/or owner or operator (refer to the Definitions at the end of the GCP permit). If it will not fit on this map, show Property Boundary on the Facility Location Map.

**Attachment # 3 Facility Location Map:** Provide a satellite photo at least 7 miles on each side or commercial scale map such as a 7.5-minute United States Geological Survey (USGS) topographic quadrangle, with the facility shown at or near the center showing the proposed **location** of the Facility. The map shall also include the following:

- ☒ Include the label "Facility Location Map" and the name of the facility.
- ☒ A minimum radius around the plant of 5 km (3.1 miles), showing any Class I area(s)
- ☒ A graphical scale
- ☒ An indicator showing which direction is north
- ☒ The UTM coordinates (or Longitudinal coordinate system on both axis)
- ☒ Any relevant topographic features of the area

**Attachment # 4 Public Notice:** Documentation that **public notice** has been initiated

1) ☒ Include the General Posting of Notice-Certification (find the Posting Certification in Part X of this registration form), including location of posted notice, along with the posted sample; date of posting, and name of person posting the notice. **This posting is required for both initial applications and relocation applications.** Additionally, provide a verbal description the posting location. The posting at the facility **must be readable by the public from the nearest public road without trespassing on private property**. Do not post it behind a locked gate or on the haul road inside private property.

**A newspaper ad is not required for relocation applications**

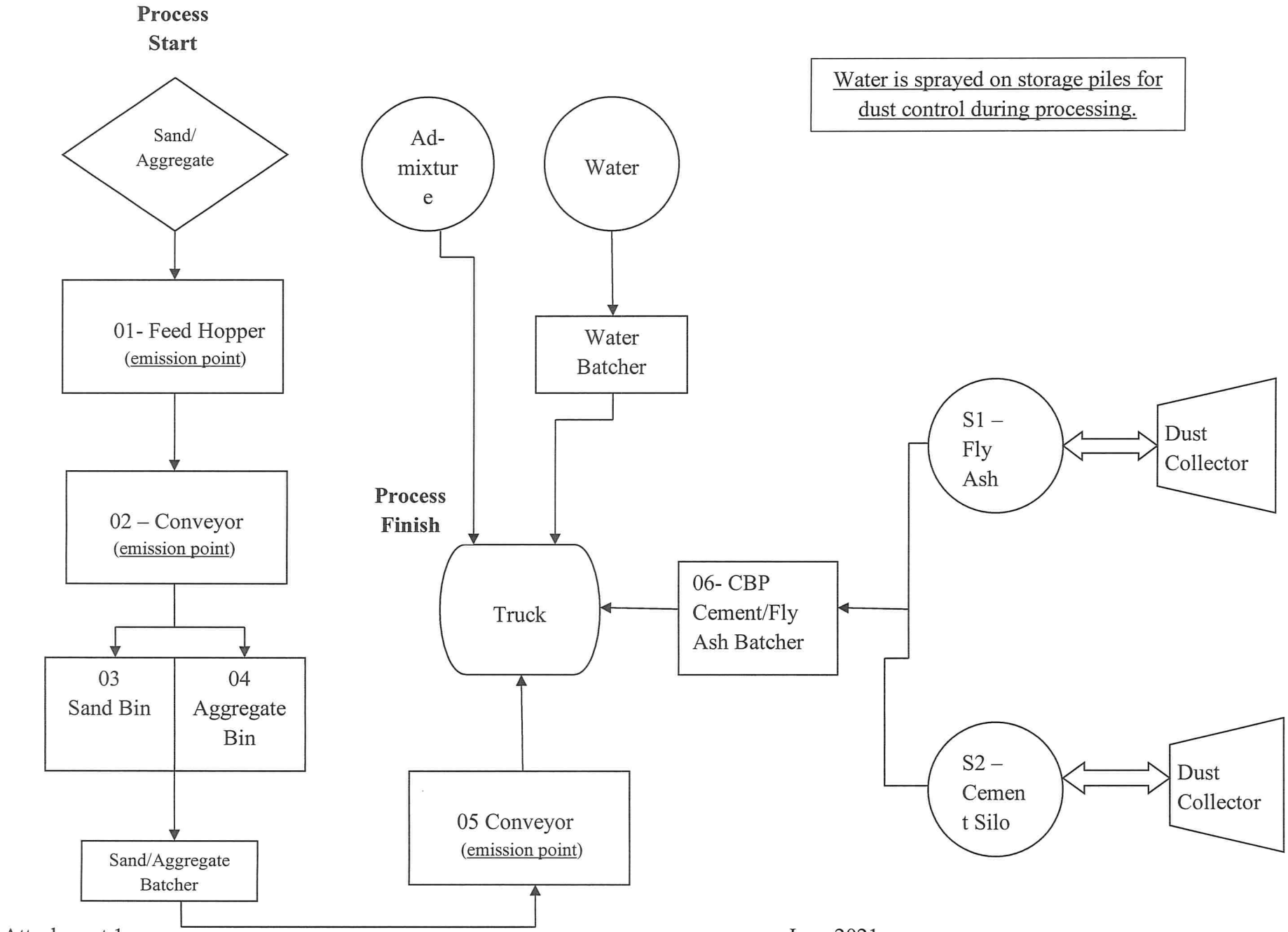
**2a)** ☐ For initial GCP applications, include an original or copy of the actual newspaper advertisement. The original or copy of the advertisement must include the header showing the date and newspaper or publication title.

**OR**

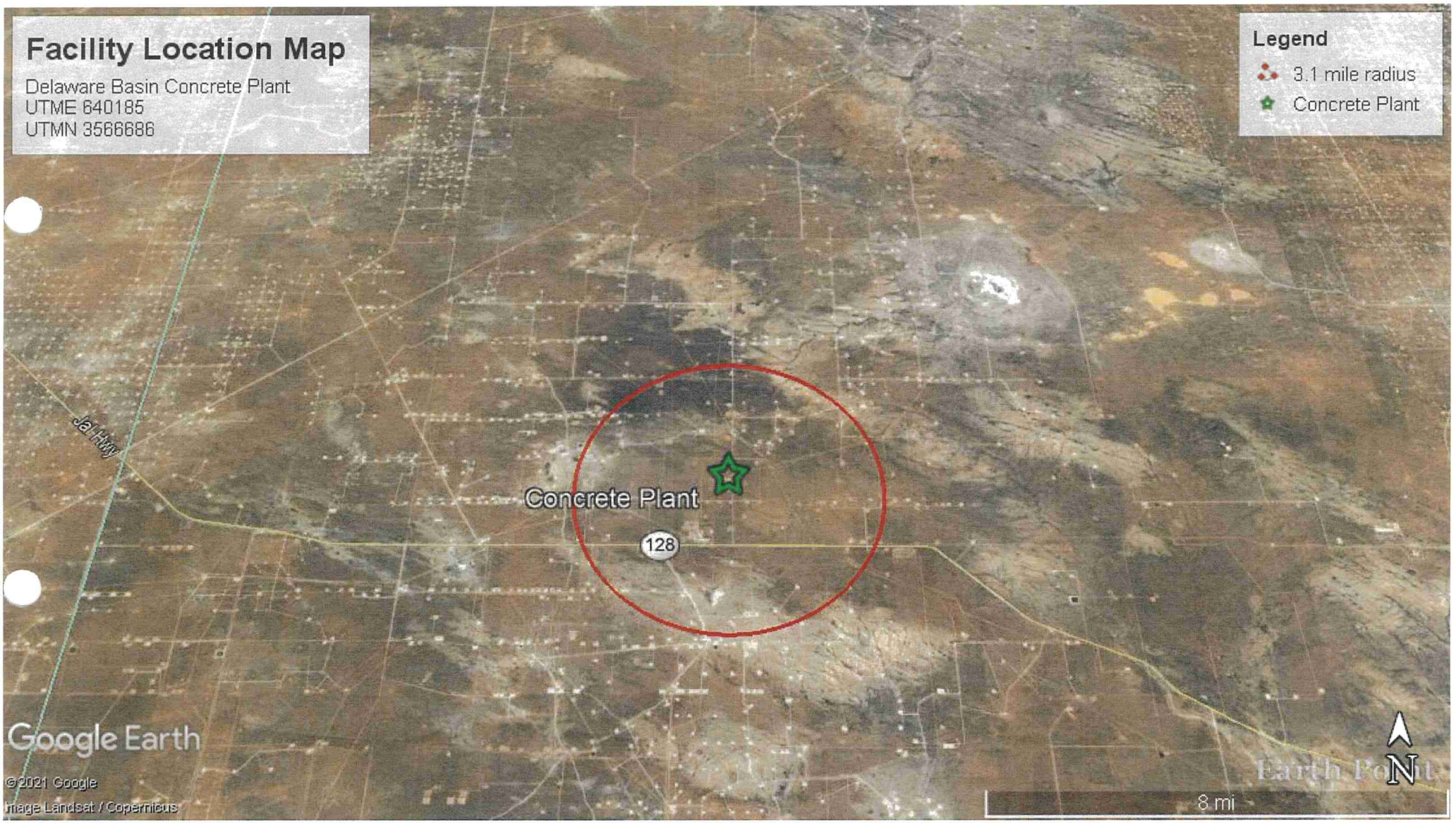
**2b)** ☒ For initial GCP applications, include an affidavit from the newspaper or publication stating that the advertisements were published. The affidavit must include the date of the advertisements' publication, and a legible photocopy of the entire ad.

**Attachment #5 Certification:**

☒ Certification by the Facility's owner or operator, or authorized representative before a notary public that all of the information included in the registration form is true and complete to the best of his or her knowledge (find the Certification in Part XI of this registration form).


Process Start
Sand/ Aggregate
Ad-mixture
Water
Water is sprayed on storage piles for dust control during processing.
01- Feed Hopper (emission point)
Water Batcher
S1 – Fly Ash
Dust Collector
02 – Conveyor (emission point)
Process Finish
Truck
06- CBP Cement/Fly Ash Batcher
03 Sand Bin
04 Aggregate Bin
S2 – Cement Silo
Dust Collector
05 Conveyor (emission point)
Sand/Aggregate Batcher


Facility Layout Map
Delaware Basin Concrete Plant
UTME 640185
UTMN 3566686
Legend
Concrete Plant
Delaware Basin Rd
Public Road
Haul road inside
Area of Operations
0.30 miles
Batch Plant
Loaction see
Attatchment #1
Restricted Area &
Property Lease Boundary
21
Required Setback
Concrete Plant
Area of Operations
Google Earth
© 2021 Google
Earth Point
N
600 ft


Facility Location Map
Delaware Basin Concrete Plant
UTME 640185
UTMN 3566686
Legend
3.1 mile radius
Concrete Plant
Concrete Plant
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Google Earth
© 2021 Google
Image Landsat / Copernicus
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# NOTICE

**Roswell Ready Mix** announces its intent to apply to the New Mexico Environment Department for an air quality permit to construct a General Construction Permit, **GCP-5_XXXX (Concrete Batch Plant)**. The name of this facility is **Delaware Basin Concrete Plant**. The expected date of the submittal of our application for an air quality permit to the Air Quality Bureau is **6/18/2021.** This notice is a requirement according to New Mexico air quality regulations.

The exact location of the facility is **UTM Zone 13, UTM Easting 640185, UTM Northing 3566686**. The approximate location of this site is **20.5** miles **West** of **Jal, New Mexico**, in **Lea** county.
Air emissions of any regulated air contaminant will be less than or equal to **[do not change TPY provided]**:

| | Tons per year (TPY) |
|---|---|
| 1. Total Suspended Particulates | 95 |
| 2. Nitrogen Oxides ($NO_x$) | 95 |
| 3. Carbon Monoxide (CO) | 95 |
| 4. Volatile Organic Compounds (VOC) | 95 |
| 5. Sulfur Dioxide ($SO_2$) | 50 |
| 6. Any one (1) Hazardous Air Pollutant (HAP) | 8 |
| 7. Sum of all Hazardous Air Pollutants (HAPs) | 23 |

The standard operating schedule of this facility will be **during daylight hours only.**
The owner and/or operator of the Plant is:
**Roswell Ready Mix**
**4100 S. Lea**
**Roswell, NM 88203**
If you have any questions or comments about construction or operation of above facility, and want your comments to be made as a part of the permit review process, you must submit your comments in writing to the address below:

Permits Programs Manager
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico, 87505
(505) 476-4300

Other comments and questions may be submitted verbally.
Please refer to the company name and site name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice.
Este es un aviso de la Agencia de Calidad de Aire del Departamento de Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor de comunicarse con la oficina de Calidad de Aire al teléfono 505-476-5557.

**Notice of Non-Discrimination**

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non- discrimination programs, policies or procedures, you may contact: Kristine Pintado, Non-Discrimination Coordinator, New Mexico Environment Department, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. If you believe that you have been discriminated against with respect to a NMED program or activity, you may contact the Non-Discrimination Coordinator identified above or visit our website at https://www.env.nm.gov/NMED/EJ/index.html to learn how and where to file a complaint of discrimination.

*NOTICE IS POSTED ON A READY MIX SIGN RIGHT NEXT TO THE ENTRANCE OF PROPERTY*



# NOTICE

**Roswell Ready Mix** announces its intent to apply to the New Mexico Environment Department for an air quality permit to construct a General Construction Permit, **GCP-5_XXXX (Concrete Batch Plant)**. The name of this facility is **Delaware Basin Concrete Plant**. The expected date of the submittal of our application for an air quality permit to the Air Quality Bureau is **6/18/2021.** This notice is a requirement according to New Mexico air quality regulations.

The exact location of the facility is **UTM Zone 13, UTM Easting 640185, UTM Northing 3566686**. The approximate location of this site is **20.5** miles **West** of **Jal, New Mexico**, in **Lea** county.
Air emissions of any regulated air contaminant will be less than or equal to **[do not change TPY provided]**:

| | Tons per year (TPY) |
|---|---|
| 1. Total Suspended Particulates | 95 |
| 2. Nitrogen Oxides ($NO_x$) | 95 |
| 3. Carbon Monoxide (CO) | 95 |
| 4. Volatile Orgamc Compounds (VOC) | 95 |
| 5. Sulfur Dioxide ($SO_2$) | 50 |
| 6. Any one (1) Hazardous Air Pollutant (HAP) | 8 |
| 7. Sum of all Hazardous Air Pollutants (HAPs) | 23 |

The standard operating schedule of this facility will be **during daylight hours only.**
The owner and/or operator of the Plant is:
**Roswell Ready Mix**
**4100 S. Lea**
**Roswell, NM 88203**
If you have any questions or comments about construction or operation of above facility, and want your comments to be made as a part of the permit review process, you must submit your comments in writing to the address below:

Permits Programs Manager
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico, 87505
(505) 476-4300

Other comments and questions may be submitted verbally.
Please refer to the company name and site name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice.
Este es un aviso de la Agencia de Calidad de Aire del Departamento de Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor de comunicarse con la oficina de Calidad de Aire al teléfono 505-476-5557.

**Notice of Non-Discrimination**

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non- discrimination programs, policies or procedures, you may contact: Kristine Pintado, Non-Discrimination Coordinator, New Mexico Environment Department, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. If you believe that you have been discriminated against with respect to a NMED program or activity, you may contact the Non-Discrimination Coordinator identified above or visit our website at https://www.env.nm.gov/NMED/EJ/index.html to learn how and where to file a complaint of discrimination.

# Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
June 15, 2021
and ending with the issue dated
June 15, 2021.

Publisher

Sworn and subscribed to before me this 15th day of June 2021.

Business Manager

My commission expires
January 29, 2023
(Seal)

OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico
My Commission Expires 1-29-23

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL LEGAL LEGAL

**LEGAL NOTICE**
**June 15, 2021**

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**#36564**

67114953 00255254

ROSWELL READY MIX
5505 DUNHAM
HOBBS, NM 88240

MAILED
6/16/21

**X Posting Certification**

# Posting Certification

## General Posting of Notices

### General Construction Permits (GCPs)

I, William Siegel, the undersigned, certify that on 06/03/2021, I posted a true and correct copy of the attached Public Notice in a publicly accessible and conspicuous place at the facility entrance of the property on which the facility is, or is proposed to be, located.

Signed this 16th day of JUNE, 2021

Signature

06-16-2021
Date

William Siegel — Printed Name

Compliance Tech — Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

## XI Certification

**Company Name:** Roswell Ready Mix

I, William Siegel, hereby certify that the information and data submitted in this application are true and as accurate as possible, to the best of my knowledge and professional expertise and experience.

Signed this 16th day of JUNE 2021, upon my oath or affirmation, before a notary of the State of New Mexico.

WK Siegel
**Signature**

6-16-2021
**Date**

William Siegel
**Printed Name**

Compliance Tech
**Title**

Scribed and sworn before me on this 16th day of JUNE, 2021

My authorization as a notary of the State of NEW MEXICO expires on the 4th day of MARCH, 2025.

Shawn T. Martin
**Notary's Signature**

06-16-2021
**Date**

SHAWN T. MARTIN
**Notary's Printed Name**

OFFICIAL SEAL
SHAWN T. MARTIN
NOTARY PUBLIC - STATE OF NEW MEXICO
My Commission Expires 03-04-2025

# APPENDIX G. AP-42 CHAPTER 13.2.4

## 13.2.4 Aggregate Handling And Storage Piles

### 13.2.4.1 General

Inherent in operations that use minerals in aggregate form is the maintenance of outdoor storage piles. Storage piles are usually left uncovered, partially because of the need for frequent material transfer into or out of storage.

Dust emissions occur at several points in the storage cycle, such as material loading onto the pile, disturbances by strong wind currents, and loadout from the pile. The movement of trucks and loading equipment in the storage pile area is also a substantial source of dust.

### 13.2.4.2 Emissions And Correction Parameters

The quantity of dust emissions from aggregate storage operations varies with the volume of aggregate passing through the storage cycle. Emissions also depend on 3 parameters of the condition of a particular storage pile: age of the pile, moisture content, and proportion of aggregate fines.

When freshly processed aggregate is loaded onto a storage pile, the potential for dust emissions is at a maximum. Fines are easily disaggregated and released to the atmosphere upon exposure to air currents, either from aggregate transfer itself or from high winds. As the aggregate pile weathers, however, potential for dust emissions is greatly reduced. Moisture causes aggregation and cementation of fines to the surfaces of larger particles. Any significant rainfall soaks the interior of the pile, and then the drying process is very slow.

Silt (particles equal to or less than 75 micrometers [μm] in diameter) content is determined by measuring the portion of dry aggregate material that passes through a 200-mesh screen, using ASTM-C-136 method.[1] Table 13.2.4-1 summarizes measured silt and moisture values for industrial aggregate materials.

Table 13.2.4-1. TYPICAL SILT AND MOISTURE CONTENTS OF MATERIALS AT VARIOUS INDUSTRIES[a]

| Industry | No. Of Facilities | Material | Silt Content (%) | | | Moisture Content (%) | | |
|---|---|---|---|---|---|---|---|---|
| | | | No. Of Samples | Range | Mean | No. Of Samples | Range | Mean |
| Iron and steel production | 9 | Pellet ore | 13 | 1.3 - 13 | 4.3 | 11 | 0.64 - 4.0 | 2.2 |
| | | Lump ore | 9 | 2.8 - 19 | 9.5 | 6 | 1.6 - 8.0 | 5.4 |
| | | Coal | 12 | 2.0 - 7.7 | 4.6 | 11 | 2.8 - 11 | 4.8 |
| | | Slag | 3 | 3.0 - 7.3 | 5.3 | 3 | 0.25 - 2.0 | 0.92 |
| | | Flue dust | 3 | 2.7 - 23 | 13 | 1 | — | 7 |
| | | Coke breeze | 2 | 4.4 - 5.4 | 4.9 | 2 | 6.4 - 9.2 | 7.8 |
| | | Blended ore | 1 | — | 15 | 1 | — | 6.6 |
| | | Sinter | 1 | — | 0.7 | 0 | — | — |
| | | Limestone | 3 | 0.4 - 2.3 | 1.0 | 2 | ND | 0.2 |
| Stone quarrying and processing | 2 | Crushed limestone | 2 | 1.3 - 1.9 | 1.6 | 2 | 0.3 - 1.1 | 0.7 |
| | | Various limestone products | 8 | 0.8 - 14 | 3.9 | 8 | 0.46 - 5.0 | 2.1 |
| Taconite mining and processing | 1 | Pellets | 9 | 2.2 - 5.4 | 3.4 | 7 | 0.05 - 2.0 | 0.9 |
| | | Tailings | 2 | ND | 11 | 1 | — | 0.4 |
| Western surface coal mining | 4 | Coal | 15 | 3.4 - 16 | 6.2 | 7 | 2.8 - 20 | 6.9 |
| | | Overburden | 15 | 3.8 - 15 | 7.5 | 0 | — | — |
| | | Exposed ground | 3 | 5.1 - 21 | 15 | 3 | 0.8 - 6.4 | 3.4 |
| Coal-fired power plant | 1 | Coal (as received) | 60 | 0.6 - 4.8 | 2.2 | 59 | 2.7 - 7.4 | 4.5 |
| Municipal solid waste landfills | 4 | Sand | 1 | — | 2.6 | 1 | — | 7.4 |
| | | Slag | 2 | 3.0 - 4.7 | 3.8 | 2 | 2.3 - 4.9 | 3.6 |
| | | Cover | 5 | 5.0 - 16 | 9.0 | 5 | 8.9 - 16 | 12 |
| | | Clay/dirt mix | 1 | — | 9.2 | 1 | — | 14 |
| | | Clay | 2 | 4.5 - 7.4 | 6.0 | 2 | 8.9 - 11 | 10 |
| | | Fly ash | 4 | 78 - 81 | 80 | 4 | 26 - 29 | 27 |
| | | Misc. fill materials | 1 | — | 12 | 1 | — | 11 |

[a] References 1-10. ND = no data.

13.2.4.3 Predictive Emission Factor Equations

Total dust emissions from aggregate storage piles result from several distinct source activities within the storage cycle:

1. Loading of aggregate onto storage piles (batch or continuous drop operations).
2. Equipment traffic in storage area.
3. Wind erosion of pile surfaces and ground areas around piles.
4. Loadout of aggregate for shipment or for return to the process stream (batch or continuous drop operations).

Either adding aggregate material to a storage pile or removing it usually involves dropping the material onto a receiving surface. Truck dumping on the pile or loading out from the pile to a truck with a front-end loader are examples of batch drop operations. Adding material to the pile by a conveyor stacker is an example of a continuous drop operation.

The quantity of particulate emissions generated by either type of drop operation, per kilogram (kg) (ton) of material transferred, may be estimated, with a rating of A, using the following empirical expression:[11]

$$E = k(0.0016) \frac{\left(\frac{U}{2.2}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \text{ (kg/megagram [Mg])} \quad (1)$$

$$E = k(0.0032) \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \text{ (pound [lb]/ton)}$$

where:

E = emission factor
k = particle size multiplier (dimensionless)
U = mean wind speed, meters per second (m/s) (miles per hour [mph])
M = material moisture content (%)

The particle size multiplier in the equation, k, varies with aerodynamic particle size range, as follows:

| Aerodynamic Particle Size Multiplier (k) For Equation 1 | | | | |
|---|---|---|---|---|
| < 30 µm | < 15 µm | < 10 µm | < 5 µm | < 2.5 µm |
| 0.74 | 0.48 | 0.35 | 0.20 | 0.053[a] |

[a] Multiplier for < 2.5 µm taken from Reference 14.

The equation retains the assigned quality rating if applied within the ranges of source conditions that were tested in developing the equation, as follows. Note that silt content is included, even though silt content does not appear as a correction parameter in the equation. While it is reasonable to expect that silt content and emission factors are interrelated, no significant correlation between the 2 was found during the derivation of the equation, probably because most tests with high silt contents were conducted under lower winds, and vice versa. It is recommended that estimates from the equation be reduced 1 quality rating level if the silt content used in a particular application falls outside the range given:

| Ranges Of Source Conditions For Equation 1 | | | |
|---|---|---|---|
| Silt Content (%) | Moisture Content (%) | Wind Speed | |
| | | m/s | mph |
| 0.44 - 19 | 0.25 - 4.8 | 0.6 - 6.7 | 1.3 - 15 |

To retain the quality rating of the equation when it is applied to a specific facility, reliable correction parameters must be determined for specific sources of interest. The field and laboratory procedures for aggregate sampling are given in Reference 3. In the event that site-specific values for

correction parameters cannot be obtained, the appropriate mean from Table 13.2.4-1 may be used, but the quality rating of the equation is reduced by 1 letter.

For emissions from equipment traffic (trucks, front-end loaders, dozers, etc.) traveling between or on piles, it is recommended that the equations for vehicle traffic on unpaved surfaces be used (see Section 13.2.2). For vehicle travel between storage piles, the silt value(s) for the areas among the piles (which may differ from the silt values for the stored materials) should be used.

Worst-case emissions from storage pile areas occur under dry, windy conditions. Worst-case emissions from materials-handling operations may be calculated by substituting into the equation appropriate values for aggregate material moisture content and for anticipated wind speeds during the worst case averaging period, usually 24 hours. The treatment of dry conditions for Section 13.2.2, vehicle traffic, "Unpaved Roads", follows the methodology described in that section centering on parameter p. A separate set of nonclimatic correction parameters and source extent values corresponding to higher than normal storage pile activity also may be justified for the worst-case averaging period.

### 13.2.4.4 Controls[12-13]

Watering and the use of chemical wetting agents are the principal means for control of aggregate storage pile emissions. Enclosure or covering of inactive piles to reduce wind erosion can also reduce emissions. Watering is useful mainly to reduce emissions from vehicle traffic in the storage pile area. Watering of the storage piles themselves typically has only a very temporary slight effect on total emissions. A much more effective technique is to apply chemical agents (such as surfactants) that permit more extensive wetting. Continuous chemical treating of material loaded onto piles, coupled with watering or treatment of roadways, can reduce total particulate emissions from aggregate storage operations by up to 90 percent.[12]

### References For Section 13.2.4


1. C. Cowherd, Jr., *et al., Development Of Emission Factors For Fugitive Dust Sources*, EPA-450/3-74-037, U. S. Environmental Protection Agency, Research Triangle Park, NC, June 1974.

2. R. Bohn, *et al., Fugitive Emissions From Integrated Iron And Steel Plants*, EPA-600/2-78-050, U. S. Environmental Protection Agency, Cincinnati, OH, March 1978.

3. C. Cowherd, Jr., *et al., Iron And Steel Plant Open Dust Source Fugitive Emission Evaluation*, EPA-600/2-79-103, U. S. Environmental Protection Agency, Cincinnati, OH, May 1979.

4. *Evaluation Of Open Dust Sources In The Vicinity Of Buffalo, New York*, EPA Contract No. 68-02-2545, Midwest Research Institute, Kansas City, MO, March 1979.

5. C. Cowherd, Jr., and T. Cuscino, Jr., *Fugitive Emissions Evaluation*, MRI-4343-L, Midwest Research Institute, Kansas City, MO, February 1977.

6. T. Cuscino, Jr., *et al., Taconite Mining Fugitive Emissions Study*, Minnesota Pollution Control Agency, Roseville, MN, June 1979.

7. *Improved Emission Factors For Fugitive Dust From Western Surface Coal Mining Sources*, 2 Volumes, EPA Contract No. 68-03-2924, PEDCo Environmental, Kansas City, MO, and Midwest Research Institute, Kansas City, MO, July 1981.

8. *Determination Of Fugitive Coal Dust Emissions From Rotary Railcar Dumping*, TRC, Hartford, CT, May 1984.

9. *PM-10 Emission Inventory Of Landfills In the Lake Calumet Area*, EPA Contract No. 68-02-3891, Midwest Research Institute, Kansas City, MO, September 1987.

10. *Chicago Area Particulate Matter Emission Inventory — Sampling And Analysis*, EPA Contract No. 68-02-4395, Midwest Research Institute, Kansas City, MO, May 1988.

11. *Update Of Fugitive Dust Emission Factors In AP-42 Section 11.2*, EPA Contract No. 68-02-3891, Midwest Research Institute, Kansas City, MO, July 1987.

12. G. A. Jutze, *et al., Investigation Of Fugitive Dust Sources Emissions And Control*, EPA-450/3-74-036a, U. S. Environmental Protection Agency, Research Triangle Park, NC, June 1974.

13. C. Cowherd, Jr., *et al., Control Of Open Fugitive Dust Sources*, EPA-450/3-88-008, U. S. Environmental Protection Agency, Research Triangle Park, NC, September 1988.

14. C. Cowherd, *Background Document for Revisions to Fine Fraction Ratios &sed for AP-42 Fugitive Dust Emission Factors*. Prepared by Midwest Research Institute for Western Governors Association, Western Regional Air Partnership, Denver, CO, February 1, 2006.

# APPENDIX H. PUBLIC NOTICE FOR GCP-5 PERMIT # 9285

# NOTICE

**Roswell Ready Mix** announces its intent to apply to the New Mexico Environment Department for an air quality permit to construct a General Construction Permit, **GCP-5_XXXX (Concrete Batch Plant)**. The name of this facility is **Delaware Basin Concrete Plant**. The expected date of the submittal of our application for an air quality permit to the Air Quality Bureau is **6/18/2021.** This notice is a requirement according to New Mexico air quality regulations.

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# APPENDIX I. GCP-O&G PERMIT # 7899

**Acknowledgements Section - Leo Thorsness Facility**

**Construction Status** Existing Permitted (or NOI) Facility

☑ I acknowledge that a pre-application meeting is available to me upon request.

☑ For new registrations or modifications, a check for the registration fee will be sent to the Department for ten fee points for GCP-O&G or $500 for NOIs. We cannot begin processing your action until the full fee is received by the Department. You will receive an email when your action is assigned for review.

☑ There is an annual fee for GCP-O&G in addition to the registration fee: www.env.nm.gov/air-quality/permit-fees-2/ (No annual fee for NOIs. (Facilities qualifying as a 'small business' under 20.2.75.7.F NMAC qualify for reduced fees, provided that NMED has a Small Business Certification Form from your company on file. This form can be found at: www.env.nm.gov/aqb/sbap/Small_Business_Forms.html)

☑ There are required attachments in addition to inputting data in the program. I will include the required attachments.

**1.** Is the facility located in Bernalillo County, on tribal lands, or in a nonattainment area?
○ Yes ◉ No

**2.** Is the facility's SIC code 1311, 1321, 4619, 4612 or 4922? (Other SIC codes may be approved provided that all the equipment at the facility is allowed in the GCP-Oil & Gas Permit. Non-Oil and Gas NOIs should use the paper Universal Application.
◉ Yes ○ No

**GCP-O&G Acknowledgements and Applicability**

Do not use Portal for administrative changes identified in the GCP O&G Permit Condition C101.A. Please use the Permitting Administrative Multiform to submit these requests to the department by mail. www.env.nm.gov/air-quality/air-quality-permit-applications-forms-and-related-information/

☑ The emissions specified in this Registration Form will establish the emission limits in the GCP-Oil and Gas.

**1.** This is a GCP-Oil and Gas Registration Form for an existing facility currently operating under GCP-1 or GCP-4? (No fee required)
◉ No ○ Yes

**2.** Does the regulated equipment under this GCP-Oil and Gas Registration include any combination of Allowable Equipment listed in Table 104 of the GCP Oil & Gas Permit, and no others?
◉ Yes ○ No

**3.** Will the regulated equipment as specified in this GCP-Oil and Gas Registration emit less than the total emissions in Table 106 of the GCP-Oil and Gas permit?
◉ Yes ○ No

**4.** Does all equipment comply with the stack parameter requirements as established in the GCP-Oil and Gas Permit?
◉ Yes ○ No

**5.** Equipment shall be at least 100 meters (m) from any stack to terrain that is five (5) or more meters above the top of the stack. Will the equipment at the facility meet this terrain requirement?
◉ Yes ○ No

**6.** Is the facility at least 150 m from any source that emits over 25 tons/year of NOx? This is the distance between the two nearest stacks that emit NOx at each of the facilities. Not the facility boundaries or the center to center distances.
◉ Yes ○ No

**7.** Is the facility at least 3 miles from any Class I area? This is the distance from the nearest facility boundary to the nearest boundary of the Class I area.
◉ Yes ○ No

New Mexico Environment Department
Air Quality Bureau
Permitting Section
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505-1816

Phone: (505) 476-4300
Fax: (505) 476-4375
www.env.nm.gov/air-quality/

**For Department use only:**

# Electronic Permitting Application

**Use this application for NOI and GCP-Oil and Gas Permits.**

Use this application for: the initial application, modifications, revisions and when converting from another permit type. Please fill out all sections so that they have check marks and attach all required documents for review. Coordination with AQB is encouraged for first time users. Please use the Request NMED Support button if you would like to set up a walk through.

## Section 1 - Facility Information

### Section 1-A: Company Information - Leo Thorsness Facility

**Last modified by Ikard, Kristin on 10-APR-23.**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | **Facility Name:** Leo Thorsness Facility | | | | AI # (if known): 38504 | Updating permit #: |
| a | SIC Code: 1311 - Crude petroleum and natural gas<br>NAICS Code: 21112 - Crude Petroleum Extraction<br>Facility Type: 146 - Oil & Gas  Secondary Facility Type: 272 - O&G-Production Facility | | | | Reset Selections | |
| 2 | **Company Name (Owns facility):** Matador Production Company | | | | Phone: 971-371-5472 | Fax: |
| a | Mailing Address: One Lincoln Centre | Address 2: 5400 LBJ Free | City: Dallas | State: Texas | ZIP Code: 75240 | |
| 3 | **Billing Party:** Matador Production Company<br>Select an organization | | | | Phone: 971-371-5472 | Fax: |
| a | Mailing Address: One Lincoln Centre | Address 2: 5400 LBJ Free | City: Dallas | State: Texas | ZIP Code: 75240 | |
| 4 | **Consultant Company:** MHT Consulting LLC<br>Select an organization | | | | Phone: 405-206-1455 | Fax: |
| a | Mailing Address: PO Box 351 | Address 2: | City: Piedmont | State: Oklahoma | ZIP Code: 73078 | |
| 5 | **Consultant Contact:**<br>First Name: Kristin  M.I.:  Last Name: Ikard  Title: Consultant | | | | Phone: 405-206-1455<br>Email: kristin@mhtconsulting.us | Fax: |
| a | Mailing Address: PO Box 351 | Address 2: | City: Piedmont | State: Oklahoma | ZIP Code: 73078 | |
| 6 | **Plant Operator Company:** Matador Production Company<br>Select an organization | | | | | |
| a | Plant Operator Company Address: One Lincoln Centre | Address 2: 5400 LBJ Free | City: Dallas | State: Texas | ZIP Code: 75240 | |
| b | **Plant Operator Contact:**<br>First Name: Casey  M.I.:  Last Name: Snow  Title: Operator | | | | Phone: 971-371-5200<br>Email: csnow@matadorresources.com | Fax: |
| c | Mailing Address: One Lincoln Centre | Address 2: 5400 LBJ Free | City: Dallas | State: Texas | ZIP Code: 75240 | |
| 7 | **Air Permit:** Select a person | | | | | |
| a | **Air Permit Contact:**<br>First Name: Kha  M.I.:  Last Name: Mach  Title: Engineer | | | | Phone: 972-371-5472<br>Email: kha.mach@matadorresources.com | Fax: |
| b | Mailing Address: 5400 LBJ Freeway | Address 2: Ste 1500 | City: Dallas | State: Texas | ZIP Code: 75240 | |

**Comments** (2000 character maximum)

**Section 1-C: Facility Input Capacity & Production Rate - Leo Thorsness Facility**
**Last modified by Ikard, Kristin on 10-APR-23.**

Enter the maximum hourly, daily, and annual throughput of oil, gas, natural gas liquids (NGL), and produced water.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **OIL** | | | | | | | |
| a | Current: | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | 23.96 bbl/h | Daily: | 575 bbl/d | Annually: | 209875 | bbl/y |
| 2 | **Natural Gas** | | | | | | | |
| a | Current | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | 75 M SCF/h | Daily: | 1.80 MM SCF/d | Annually: | 657 | MM SCF/y |
| 3 | **Natural Gas Liquids** | | | | | | | |
| a | Current | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | | Daily: | | Annually: | | |
| 4 | **Produced Water** | | | | | | | |
| a | Current | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | 58.33 bbl/h | Daily: | 1400 bbl/d | Annually: | 511000 | bbl/y |

**Comments** (2000 character maximum)

**Section 1-D: Facility Location Information - Leo Thorsness Facility**
**Last modified by Ikard, Kristin on 10-APR-23.**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Section: | Range: | Township: | County: Lea | Elevation (ft): 3608 |
| 2 | UTM Zone: ○ 12 or ◉ 13 | | | Datum: ○ NAD 27 ◉ NAD 83 ○ WGS 84 | |
| a | UTM E (in meters, to nearest 10 meters): 638135 | | | UTM N (in meters, to nearest 10 meters): 3566126 | |
| b | Latitude: 32.223267 dec deg. N | | | Longitude: -103.534069 dec deg. W | |
| 3 | Facility/Plant Address: | City: Jal | State: New Mexico | ZIP Code: 88252 | District: 004 Field Office: Select one |
| | (If no facility street address, leave blank) | | | | |
| 4 | The facility is 21.53 miles NW of Jal (nearest town). | | | | |
| 5 | Detailed Driving Instructions from nearest NM town (attach a road map if necessary): From Jal, NM, proceed northwest on NM-128 (W. Kansas Ave.) to Delaware Basin Rd. (approximately 21 miles). Continue traveling west beyond Delaware Basin Rd. for 1.65 mi to the unnamed road on the right. Turn right and travel 0.91 mi north and the facility is on the right; however, one must travel around the facility directly north to access the facility. | | | | |
| 6 | Status of land at facility: Private | | | | |
| 7 | Select nearest Class I area: Class I - Carlsbad Caverns National Park | | | | |
| 8 | Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 49.1 km | | | | |
| 9 | Is this a portable stationary source as defined in 20.2.72.7.X NMAC? ○ Yes ◉ No | | | | |
| 10 | Will this facility operate in conjunction with other air regulated parties on the same property? ○ Yes ◉ No<br>If yes, what is the name and permit number (if known) of the other facility? | | | | |

**Comments** (2000 character maximum)

## Section 1-E: Proposed Operating Schedule - Leo Thorsness Facility

**Last modified by Ikard, Kristin on 10-APR-23.**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Facility **maximum** operating (hours/day): 24 | days/week: 7 | weeks/year: 52 | hours/year: 8760 | |
| 2 | Facility's maximum daily operating schedule (if less than 24 hours/day)? Start Time: | | End Time: | | |
| 3 | Month and year of anticipated start of construction (mm/yyyy): | | | | |
| 4 | Month and year of anticipated construction completion (mm/yyyy): | | | | |
| 5 | Month and year of anticipated startup of new or modified facility (mm/yyyy): | | | | |
| 6 | Will this facility operate at this site for more than one year? ◉ Yes ○ No | | | | |

The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.

**Comments** (2000 character maximum)

**Last modified by Ikard, Kristin on 10-APR-23.**

| **Section 1-F - Current Facility Status - Leo Thorsness Facility** | | | |
|---|---|---|---|
| 1 | Has this Facility already been constructed?<br>(•) Yes ( ) No | If yes, is it currently operating in New Mexico?<br>(•) Yes ( ) No | |
| 2 | Does this facility currently have a construction permit or Notice of Intent (NOI) (20.2.72 NMAC or 20.2.73 NMAC)?<br>(•) Yes ( ) No | If yes, the permit No or NOI No:<br>7899 | Will it remain active or not:<br>(•) Yes ( ) No |
| 3 | Is this Registration in response to a Notice of Violation (NOV)?<br>( ) Yes (•) No<br>If so, provide current permit #: | If yes,NOV date: | NOV tracking No: |
| 4 | Facility is Synthetic Minor Source | | |

**Comments** (2000 character maximum)

## Table 2-A: Regulated Emission Sources

| Edit | NMED SI ID | Category Type | NMED SI Status | Unit Number[1] | Source Description | Manufacturer | Model # | Serial # | Rated Capacity[3] | Permitted Capacity[3] | Date[2] of Manufacture or Reconstruction / Date[2] of Installation /Construction | Controlled by Unit # Emissions vented to Stack # | Source Classification Code (SCC) | Disposition | Applicable State & Federal Regulation(s) (i.3. 20.x.x, JJJJ, ...) | Complete | Replicate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | EQPT-2 | Equipment Internal combustion engine | Active 08/28/2020 | ENG-2 | Cummins G855, 188 HP | Cummins | G855 | 25404106 | | 1800.00 rpm | 02/01/15 02/01/15 | | 2-02-002-53 | To Be Replaced | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-3 | Equipment Internal combustion engine | Active 08/28/2020 | ENG-5 | Caterpillar G3306, 203 HP | Caterpillar | G3306 | G6X04164 | 203.00 hp | 203.00 hp | 08/01/08 08/01/14 | C-5 | 2-02-002-53 | Existing (unchanged) | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-4 | Equipment Internal combustion engine | Active 08/28/2020 | ENG-6 | Caterpillar G3406NA, 215hp | Caterpillar | G3406NA | 4FD04111 | 215 hp | 215 hp | 10/01/11 10/01/21 | C-6 | 2-02-002-53 | Existing (unchanged) | 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ | ☑ | Replicate |
| Edit | EQPT-24 | Equipment Process Flare | Active 08/28/2020 | FL-1 HP | HP Flare 6 MMscfd | ICT Energy Solutions | 6MM | ICT-1203 | 6.00 MM SCF/d | 6.00 MM SCF/d | 01/01/18 | | 3-10-001-60 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-25 | Equipment Process Flare | Active 08/28/2020 | FL-1 LP | LP Flare 0.2MMscfd | ICT Energy Solutions | FL-LP | ICT-1203 | 0.20 MM SCF/d | 0.20 MM SCF/d | 01/01/18 | | 3-10-001-60 | To Be Revised | NA | ☑ | Replicate |
| Edit | RPNT-1 | Release Point Fugitives | Active 08/28/2020 | FUG-1 | Fugitives | NA | NA | NA | | | | | 3-10-888-11 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-5 | Equipment Internal combustion engine | Active 08/28/2020 | GEN-1 | PSI 390 HP generator | Power Solutions Intl | 14L | EZZOG802061 | 390.00 hp | 390.00 hp | 06/08/18 06/08/18 | C-1 | 2-02-002-53 | Existing (unchanged) | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | AREA-1 | Area Roads | Active 08/28/2020 | HR-1 | haul road | N/A | N/A | N/A | | | | | 3-10-888-11 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-6 | Equipment Heater Treater/Stack Pak | Active 08/28/2020 | HT-1 | Heater Treater, 0.5 MMBtu/hr | Global Vessel | TBD | LV6880 | 0.50 MM BTU/h | 0.50 MM BTU/h | 01/01/17 | | 3-10-004-04 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-7 | Equipment Heater Treater/Stack Pak | Active 08/28/2020 | HT-2 | Heater Treater, 0.5 MMBtu/hr | Ignite | N/A | ICT-1751 | 0.50 MM BTU/h | 0.50 MM BTU/h | 01/01/17 | | 3-10-004-04 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | RPNT-3 | Release Point Fugitives | Active 09/29/2021 | MALF | Malfunctions | N/A | N/A | N/A | | | | | 3-10-888-11 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-14 | Equipment Loading/Unloading Rack | Active 08/28/2020 | OLOAD-1 | Oil Truck Loading-1 | NA | NA | NA | 8814750 gal/y | 8814750 gal/y | | | 4-04-002-50 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-8 | Equipment Tank - Above Ground | Active 08/28/2020 | OT-1 | Oil Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000087 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-9 | Equipment Tank - Above Ground | Active 08/28/2020 | OT-2 | Oil Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000092 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-10 | Equipment Tank - Above Ground | Active 08/28/2020 | OT-3 | Oil Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000086 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-11 | Equipment Tank - Above Ground | Active 08/28/2020 | OT-4 | Oil Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000097 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-12 | Equipment Tank - Above Ground | Active 08/28/2020 | OT-5 | Oil Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000193 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-13 | Equipment Tank - Above Ground | Active 08/28/2020 | OT-6 | Oil Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000333 | 400.00 bbl | 400.00 bbl | 01/01/18 | | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-22 | Equipment Pump | Active 08/28/2020 | PP- 1 | Transfer Pump 1 | N/A | N/A | N/A | | | | | 3-10-888-11 | Existing (unchanged) | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-21 | Equipment Loading/Unloading Rack | Active 08/28/2020 | PWLOAD-1 | Produced Water Truck Loading-1 | NA | NA | NA | 21462000.00 gal/y | 21462000.00 gal/y | | | 4-04-002-50 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-15 | Equipment Tank - Above Ground | Active 08/28/2020 | PWT-1 | Produced Water Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000085 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-16 | Equipment Tank - Above Ground | Active 08/28/2020 | PWT-2 | Produced Water Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000073 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-17 | Equipment Tank - Above Ground | Active 08/28/2020 | PWT-3 | Produced Water Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000064 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-18 | Equipment Tank - Above Ground | Active 08/28/2020 | PWT-4 | Produced Water Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000095 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-19 | Equipment Tank - Above Ground | Active 08/28/2020 | PWT-5 | Produced Water Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000205 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-20 | Equipment Tank - Above Ground | Active 08/28/2020 | PWT-6 | Produced Water Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000328 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | RPNT-2 | Release Point Fugitives | Active 08/28/2020 | SSM-1 | SSM | NA | NA | NA | | | | | 3-10-888-11 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-0 | Equipment Internal combustion engine | New | ENG-2 | Caterpillar G3406NA, 215hp | Caterpillar | G3406NA | TBD | 215.00 hp | 215.00 hp | | C-2 | 2-02-002-53 | Replacement Unit | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |

Add a New Regulated Source

[1] Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.

[2] Specify dates required to determine regulatory applicability. If only year or month is known use 01/01/yyyy or mm/01/yyyy.

[3] To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

## Table 2C - Emissions Reduction Equipment

☐ **This Table was intentionally left blank.**

In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions. **Also include reductions from process equipment in this table. Entering process equipment in this table is for data entry purposes only, the process vs control analysis will be used to determine process or control status for VRUs.** Only list control equipment for TAPs if the TAPs maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B.

| Edit | Reduction Equipment Unit No. | Reduction Equipment Description | Date Installed (mm/dd/yyyy). | Reduced Pollutants | Reducing Emissions for Unit Numbers | Efficiency (% Reduction by Weight) | Method used to estimate reduction | Reduction Type | Complete |
|---|---|---|---|---|---|---|---|---|---|
| Edit | C-5 | NSCR (Non-Selective Catalytic Reduction) | | Carbon Monoxide | ENG-5 | 86 | Design calculation | PRIMARY | ☑ |
| Edit | C-5 | NSCR (Non-Selective Catalytic Reduction) | | Volatile Organic Compounds (VOC) | ENG-5 | 0 | Design calculation | PRIMARY | ☑ |
| Edit | C-5 | NSCR (Non-Selective Catalytic Reduction) | | Nitrogen Dioxide | ENG-5 | 93 | Design calculation | PRIMARY | ☑ |
| Edit | C-6 | NSCR (Non-Selective Catalytic Reduction) | | Nitrogen Dioxide | ENG-6 | 94 | Design calculation | PRIMARY | ☑ |
| Edit | C-6 | NSCR (Non-Selective Catalytic Reduction) | | Carbon Monoxide | ENG-6 | 88 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | FL-1 HP | 98.0 | Design calculation | PRIMARY | |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | FL-1 LP | 98.0 | Design calculation | PRIMARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | OLOAD-1 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | OT-1 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | OT-1 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | OT-2 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | OT-2 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | OT-3 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | OT-3 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | OT-4 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | OT-4 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | OT-5 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | OT-5 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | OT-6 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | OT-6 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | PP- 1 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | PWLOAD-1 | | Design calculation | PRIMARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | PWT-1 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | PWT-1 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | PWT-2 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | PWT-2 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | PWT-3 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | PWT-3 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | PWT-4 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | PWT-4 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | PWT-5 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | PWT-5 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | PWT-6 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | PWT-6 | 98 | Design calculation | SECONDARY | |
| Edit | C-2 | NSCR (Non-Selective Catalytic Reduction) | | Carbon Monoxide | ENG-2 | 88 | Design calculation | PRIMARY | ☑ |
| Edit | C-2 | NSCR (Non-Selective Catalytic Reduction) | | Nitrogen Dioxide | ENG-2 | 94 | Design calculation | PRIMARY | ☑ |

Add Reduction Equipment for Unit [Select one] Add

How to complete the table: In the drop down, select regulated sources from Table 2A where emissions are reduced and click "Add." Then add reduced pollutants and associated reduction devices for each. If a pollutant has emissions reduced by more than one device please add a line for each device and label them as primary, secondary, tertiary. Click "Edit" to update reduced pollutants and devices for each regulated source.

Comments (4000 character maximum)

**List each reduction device and all sources they serve, e.g. FL-1: Oil tanks 1-4, loading, VRU downtime. FL-2: compressor and sales downtime. For NOIs, indicate the enforceability behind each device or clarify if it is voluntary and no credit is being claimed for the reduction, e.g., FL-1: Oil tanks 1-8 (OOOOa). FL-1: Loading (voluntary, no emissions reduction credit claimed.)**

ENG-2, ENG-5, ENG-6: NSCR; NOx, CO, VOC
GEN-1: NSCR; NOx, CO, VOC (EPA-certified so no control % shown)
FL-1 LP: OT-1 ¿ OT-6, PWT-1 ¿ PWT-6, PP-1, OLOAD-1; VOC
FL-1 HP: Stranded Gas; VOC
VRU: there is an electric VRU off the tanks but no control is shown

## *Table 2-D: Maximum Emissions* (under normal operating conditions)

**This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | **EQPT-3** | **Active 08/28/2020** | ENG-5 | 6.52 | 28.56 | 6.52 | 28.56 | 0.37 | 1.61 | 0.0006 | 0.003 | 0.01 | 0.06 | 0.01 | 0.06 | - | - | - | - | ☑ |
| Edit | **EQPT-4** | **Active 08/28/2020** | ENG-6 | 7.62 | 33.36 | 7.62 | 33.36 | 0.47 | 2.04 | 0.0007 | 0.003 | 0.02 | 0.07 | 0.02 | 0.07 | - | - | - | - | ☑ |
| Edit | **EQPT-24** | **Active 08/28/2020** | FL-1 HP | 0.0142 | 0.0623 | 0.0648 | 0.284 | 5070.61 | 887.36 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-25** | **Active 08/28/2020** | FL-1 LP | 0.0142 | 0.0623 | 0.0648 | 0.284 | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **RPNT-1** | **Active 08/28/2020** | FUG-1 | - | - | - | - | 2.47 | 10.84 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-5** | **Active 08/28/2020** | GEN-1 | 0.86 | 3.77 | 1.72 | 7.53 | 0.70 | 3.08 | 0.002 | 0.008 | 0.04 | 0.18 | 0.04 | 0.18 | - | - | - | - | ☑ |
| Edit | **AREA-1** | **Active 08/28/2020** | HR-1 | - | - | - | - | - | - | - | - | 1.05 | 0.74 | 0.11 | 0.08 | - | - | - | - | ☑ |
| Edit | **EQPT-6** | **Active 08/28/2020** | HT-1 | 0.049 | 0.215 | 0.041 | 0.18 | 0.003 | 0.013 | - | - | 0.004 | 0.018 | 0.004 | 0.018 | - | - | - | - | ☑ |
| Edit | **EQPT-7** | **Active 08/28/2020** | HT-2 | 0.049 | 0.215 | 0.041 | 0.18 | 0.003 | 0.013 | - | - | 0.004 | 0.018 | 0.004 | 0.018 | - | - | - | - | ☑ |
| Edit | **RPNT-3** | **Active 09/29/2021** | MALF | - | - | - | - | - | 10 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-14** | **Active 08/28/2020** | OLOAD-1 | - | - | - | - | 83.68 | 34.19 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-8** | **Active 08/28/2020** | OT-1 | - | - | - | - | 17.66 | 77.35 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-9** | **Active 08/28/2020** | OT-2 | - | - | - | - | 17.66 | 77.35 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-10** | **Active 08/28/2020** | OT-3 | - | - | - | - | 17.66 | 77.35 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-11** | **Active 08/28/2020** | OT-4 | - | - | - | - | 17.66 | 77.35 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-12** | **Active 08/28/2020** | OT-5 | - | - | - | - | 17.66 | 77.35 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-13** | **Active 08/28/2020** | OT-6 | - | - | - | - | 17.66 | 77.35 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-22** | **Active 08/28/2020** | PP- 1 | - | - | - | - | 1.95 | 8.53 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-21** | **Active 08/28/2020** | PWLOAD-1 | - | - | - | - | 0.02 | 0.02 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-15** | **Active 08/28/2020** | PWT-1 | - | - | - | - | 0.91 | 3.98 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-16** | **Active 08/28/2020** | PWT-2 | - | - | - | - | 0.91 | 3.98 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-17** | **Active 08/28/2020** | PWT-3 | - | - | - | - | 0.91 | 3.98 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-18** | **Active 08/28/2020** | PWT-4 | - | - | - | - | 0.91 | 3.98 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-19** | **Active 08/28/2020** | PWT-5 | - | - | - | - | 0.91 | 3.98 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-20** | **Active 08/28/2020** | PWT-6 | - | - | - | - | 0.91 | 3.98 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **RPNT-2** | **Active 08/28/2020** | SSM-1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **new** | **New** | ENG-2 | 7.62 | 33.36 | 7.62 | 33.36 | 0.47 | 2.04 | 0.0007 | 0.003 | 0.02 | 0.07 | 0.02 | 0.07 | - | - | - | - | ☑ |
| | | | **Totals** | 22.75 | 99.6 | 23.69 | 103.74 | 5272.17 | 1447.72 | 0.0 | 0.02 | 1.15 | 1.16 | 0.21 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | |

[1] **Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**Comments** (2000 character maximum)

## Table 2-E: Requested Allowable Emissions

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Facility totals are a summation of all the emissions entered for equipment in this table plus total tpy SSM emissions from Table 2F.

**GCP-O&G:** Combustion emissions from malfunction events are not allowed under this permit.

**NOI:** Malfunction emissions are not allowed under a Notice of Intent.

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | EQPT-3 | Active 08/28/2020 | ENG-5 | 0.45 | 1.96 | 0.9 | 3.92 | 0.37 | 1.61 | 0.0006 | 0.003 | 0.01 | 0.06 | 0.01 | 0.06 | - | - | - | - | ☑ |
| Edit | EQPT-4 | Active 08/28/2020 | ENG-6 | 0.47 | 2.08 | 0.95 | 4.15 | 0.47 | 2.04 | 0.0007 | 0.003 | 0.02 | 0.07 | 0.02 | 0.07 | - | - | - | - | ☑ |
| Edit | EQPT-24 | Active 08/28/2020 | FL-1 HP | 21.5192 | 3.888 | 98.1023 | 17.7249 | 101.48 | 18.03 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-25 | Active 08/28/2020 | FL-1 LP | 0.2407 | 1.206 | 1.0973 | 5.4977 | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | RPNT-1 | Active 08/28/2020 | FUG-1 | - | - | - | - | 2.47 | 10.84 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-5 | Active 08/28/2020 | GEN-1 | 0.86 | 3.77 | 1.72 | 7.53 | 0.70 | 3.08 | 0.002 | 0.008 | 0.04 | 0.18 | 0.04 | 0.18 | - | - | - | - | ☑ |
| Edit | AREA-1 | Active 08/28/2020 | HR-1 | - | - | - | - | - | - | - | - | 1.05 | 0.74 | 0.11 | 0.08 | - | - | - | - | ☑ |
| Edit | EQPT-6 | Active 08/28/2020 | HT-1 | 0.049 | 0.215 | 0.041 | 0.18 | 0.003 | 0.013 | - | - | 0.004 | 0.018 | 0.004 | 0.018 | - | - | - | - | ☑ |
| Edit | EQPT-7 | Active 08/28/2020 | HT-2 | 0.049 | 0.215 | 0.041 | 0.18 | 0.003 | 0.013 | - | - | 0.004 | 0.018 | 0.004 | 0.018 | - | - | - | - | ☑ |
| Edit | RPNT-3 | Active 09/29/2021 | MALF | - | - | - | - | - | 10 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-14 | Active 08/28/2020 | OLOAD-1 | - | - | - | - | 3.31 | 1.35 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-8 | Active 08/28/2020 | OT-1 | - | - | - | - | 0.70 | 3.06 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-9 | Active 08/28/2020 | OT-2 | - | - | - | - | 0.70 | 3.06 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-10 | Active 08/28/2020 | OT-3 | - | - | - | - | 0.70 | 3.06 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-11 | Active 08/28/2020 | OT-4 | - | - | - | - | 0.70 | 3.06 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-12 | Active 08/28/2020 | OT-5 | - | - | - | - | 0.70 | 3.06 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-13 | Active 08/28/2020 | OT-6 | - | - | - | - | 0.70 | 3.06 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-22 | Active 08/28/2020 | PP- 1 | - | - | - | - | 0.1 | 0.46 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-21 | Active 08/28/2020 | PWLOAD-1 | - | - | - | - | 0.02 | 0.02 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-15 | Active 08/28/2020 | PWT-1 | - | - | - | - | 0.03 | 0.16 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-16 | Active 08/28/2020 | PWT-2 | - | - | - | - | 0.03 | 0.16 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-17 | Active 08/28/2020 | PWT-3 | - | - | - | - | 0.03 | 0.16 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-18 | Active 08/28/2020 | PWT-4 | - | - | - | - | 0.03 | 0.16 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-19 | Active 08/28/2020 | PWT-5 | - | - | - | - | 0.03 | 0.16 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-20 | Active 08/28/2020 | PWT-6 | - | - | - | - | 0.03 | 0.16 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | RPNT-2 | Active 08/28/2020 | SSM-1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | new | New | ENG-2 | 0.47 | 2.08 | 0.95 | 4.15 | 0.47 | 2.04 | 0.0007 | 0.003 | 0.02 | 0.07 | 0.02 | 0.07 | - | - | - | - | ☑ |
| | | | SSM Totals | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | Totals | 24.11 | 15.41 | 103.8 | 43.33 | 113.78 | 78.82 | 0.0 | 0.02 | 1.15 | 1.16 | 0.21 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | |

[1]**Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**Comments** (2000 character maximum)

## Table 2-F: Startup, Shutdown, and Routine Maintenance (SSM) Emissions

☐ **This table is intentionally left blank as all SSM emissions at this facility do not require an increase in Requested Allowables greater than those listed in Table 2-E.**

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)2, including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). Provide emissions calculations for all SSM emissions reported in this table. Refer to the guidance "Startup, Shutdown, Maintenance Emissions in Permits" (www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | **EQPT-3** | **Active 08/28/2020** | ENG-5 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-4** | **Active 08/28/2020** | ENG-6 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-24** | **Active 08/28/2020** | FL-1 HP | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-25** | **Active 08/28/2020** | FL-1 LP | | | | | | | | | | | | | | | | | ☑ |
| Edit | **RPNT-1** | **Active 08/28/2020** | FUG-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-5** | **Active 08/28/2020** | GEN-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **AREA-1** | **Active 08/28/2020** | HR-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-6** | **Active 08/28/2020** | HT-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-7** | **Active 08/28/2020** | HT-2 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **RPNT-3** | **Active 09/29/2021** | MALF | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-14** | **Active 08/28/2020** | OLOAD-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-8** | **Active 08/28/2020** | OT-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-9** | **Active 08/28/2020** | OT-2 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-10** | **Active 08/28/2020** | OT-3 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-11** | **Active 08/28/2020** | OT-4 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-12** | **Active 08/28/2020** | OT-5 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-13** | **Active 08/28/2020** | OT-6 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-22** | **Active 08/28/2020** | PP- 1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-21** | **Active 08/28/2020** | PWLOAD-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-15** | **Active 08/28/2020** | PWT-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-16** | **Active 08/28/2020** | PWT-2 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-17** | **Active 08/28/2020** | PWT-3 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-18** | **Active 08/28/2020** | PWT-4 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-19** | **Active 08/28/2020** | PWT-5 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-20** | **Active 08/28/2020** | PWT-6 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **RPNT-2** | **Active 08/28/2020** | SSM-1 | - | - | - | - | - | 10 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **new** | **New** | ENG-2 | | | | | | | | | | | | | | | | | ☑ |
| | | | **Totals** | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

**[1]Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**[2]For instance, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in the table below. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.**

**Comments** (2000 character maximum)

## Table 2-H: Stack Exit Conditions

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Please enter the stack information for the original source, not the control or reduction equipment.

For equipment that doesn't have an actual stack or fugitive stack please just list it as having a default fugitive stack with a height of 10 ft. This field is required by our database.

| Edit | Stack Description | Unit number | Orientation (H=Horizontal V=Vertical) | Rain Caps (Yes or No) | Height Above Ground (ft) | Temp. (F) | Flow Rate (acfs) | Flow Rate (dscfs) | Moisture by Volume (%) | Velocity (ft/sec) | Inside Diameter (ft) | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | Caterpillar G3306 203hp | ENG-5 | Vertical | No | 15 | 1126 | 15.78 | | | 184.54 | 0.33 | ☑ |
| Edit | Caterpillar 215 hp | ENG-6 | Vertical | No | 8.2 | 1158 | 17.08 | | | 241.68 | 0.3 | ☑ |
| Edit | Flare-1 high pressure | FL-1 HP | Vertical | No | 45 | 1000 | 19 | | | 353.07 | 0.5 | ☑ |
| Edit | Flare-LP | FL-1 LP | Vertical | No | 46.33 | 1000 | 1 | | | 5.01 | 0.18 | ☑ |
| Edit | FUG | FUG-1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | GEN-1 | GEN-1 | Vertical | No | 10 | 1350 | 31.58 | | | 369.27 | 0.33 | ☑ |
| Edit | haul roads | HR-1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | HT-1 | HT-1 | Vertical | No | 20 | 300 | 15 | | | 6.86 | 0.67 | ☑ |
| Edit | HT-2 | HT-2 | Vertical | No | 20 | 300 | 15 | | | 6.86 | 0.67 | ☑ |
| Edit | Malf | MALF | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | Oil Loading | OLOAD-1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | OT-1 to 6 | OT-1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | OT-1 to 6 | OT-2 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | OT-1 to 6 | OT-3 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | OT-1 to 6 | OT-4 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | OT-1 to 6 | OT-5 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | OT-1 to 6 | OT-6 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | Transfer Pump 1 | PP- 1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | PW Truck Loading | PWLOAD-1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | PWT-1 to 6 | PWT-1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | PWT-1 to 6 | PWT-2 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | PWT-1 to 6 | PWT-3 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | PWT-1 to 6 | PWT-4 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | PWT-1 to 6 | PWT-5 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | PWT-1 to 6 | PWT-6 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | SSM | SSM-1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | ENG-2 | ENG-2 | Vertical | No | 8.2 | 1158 | 17.08 | | | 241.68 | 0.3 | ☑ |

Add Stack Conditions to Select one Add

**Comments** (2000 character maximum)

## Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

☐ **By marking this table as intentionally left blank, you certify that the Total and individual HAPs for this facility are less than 1 ton per year.**

Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.

**GCPs:** Report the potential emission rate for each HAP from each HAP emitting emission unit listed in Table 2A. For each emission unit, HAPs shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Emissions less than 0.0001 lb/hr or 0.0001 tpy and emission units that do not emit HAPs shall be omitted from the table. Each facility-wide Individual HAP total and the facility-wide Total HAPs is the sum of all HAP sources entered in the Table. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAA. Include tank-flashing emission estimates of HAP in this table.

**NOIs:** Report the individual and/or Total HAPs for each piece of equipment in Table 2A, only if the facility total for that pollutant is greater than or equal to 1 tpy.

| Edit | Unit No. | Total HAPs | | Formaldehyde HAP | | Benzene HAP | | Toluene; (Methyl benzene) HAP | | Xylenes (total); (Xylol) HAP | | | | | | | | | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | ENG-5 | 0.07 | 0.29 | 0.05 | 0.22 | | | | | | | | | | | | | | | ☑ |
| Edit | ENG-6 | 0.15 | 0.64 | 0.128 | 0.56 | | | | | | | | | | | | | | | ☑ |
| Edit | FL-1 HP | 6.29 | 1.12 | | | 1.28 | 0.23 | 1.30 | 0.23 | 0.31 | 0.05 | | | | | | | | | ☑ |
| Edit | FL-1 LP | 0.12 | 0.53 | | | | | | | | | | | | | | | | | ☑ |
| Edit | FUG-1 | 0.2 | 0.85 | | | 0.029 | 0.123 | | | | | | | | | | | | | ☑ |
| Edit | GEN-1 | 0.13 | 0.58 | 0.09 | 0.38 | | | | | | | | | | | | | | | ☑ |
| Edit | OT-1 | 0.07 | 0.31 | | | | | | | | | | | | | | | | | ☑ |
| Edit | OT-2 | 0.07 | 0.31 | | | | | | | | | | | | | | | | | ☑ |
| Edit | OT-3 | 0.07 | 0.31 | | | | | | | | | | | | | | | | | ☑ |
| Edit | OT-4 | 0.07 | 0.31 | | | | | | | | | | | | | | | | | ☑ |
| Edit | OT-5 | 0.07 | 0.31 | | | | | | | | | | | | | | | | | ☑ |
| Edit | OT-6 | 0.07 | 0.31 | | | | | | | | | | | | | | | | | ☑ |
| Edit | SSM-1 | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | ENG-2 | 0.15 | 0.64 | 0.128 | 0.56 | | | | | | | | | | | | | | | ☑ |
| | **Totals** | 7.53 | 6.51 | 0.4 | 1.72 | 1.31 | 0.35 | 1.3 | 0.23 | 0.31 | 0.05 | | | | | | | | | |

Add Stack Emissions to Select one Add

**Comments** (2000 character maximum)

## Table 2-J: Fuel Usage

☐ **This Table was intentionally left blank.**

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Specify fuel characteristics and usage. This information should be for fuel used to operate the equipment (e.g. the pilot) not the amount of gas or fuel processed.

| Edit | Unit No. | Fuel Type (No. 2 Diesel, Natural Gas, Coal, ...) | Specify Units | | | | | Complete |
|---|---|---|---|---|---|---|---|---|
| | | | Lower Heating Value | Hourly Usage | Annual Usage (maximum) | % Sulfur | % Ash | |
| Edit | ENG-5 | Natural Gas | 1398 BTU/SCF | | 9.67 MM SCF/y | | | ☑ |
| Edit | ENG-6 | Natural Gas | 1398 BTU/SCF | | 10.75 MM SCF/y | | | ☑ |
| Edit | FL-1 HP | Natural Gas | 1265 BTU/SCF | | 88.95 MM SCF/y | | | ☑ |
| Edit | FL-1 LP | Natural Gas | 1991 BTU/SCF | | 17.201 MM SCF/y | | | ☑ |
| Edit | GEN-1 | Natural Gas | 1389 BTU/SCF | | 27.03 MM SCF/y | | | ☑ |
| Edit | HT-1 | Natural Gas | 1020 BTU/SCF | | 0.71 MM SCF/y | | | ☑ |
| Edit | HT-2 | Natural Gas | 1020 BTU/SCF | | 0.71 MM SCF/y | | | ☑ |
| Edit | ENG-2 | Natural Gas | 1398 BTU/SCF | | 10.75 MM SCF/y | | | ☑ |

**Comments** (2000 character maximum)

## Table 2-L: Tank Data

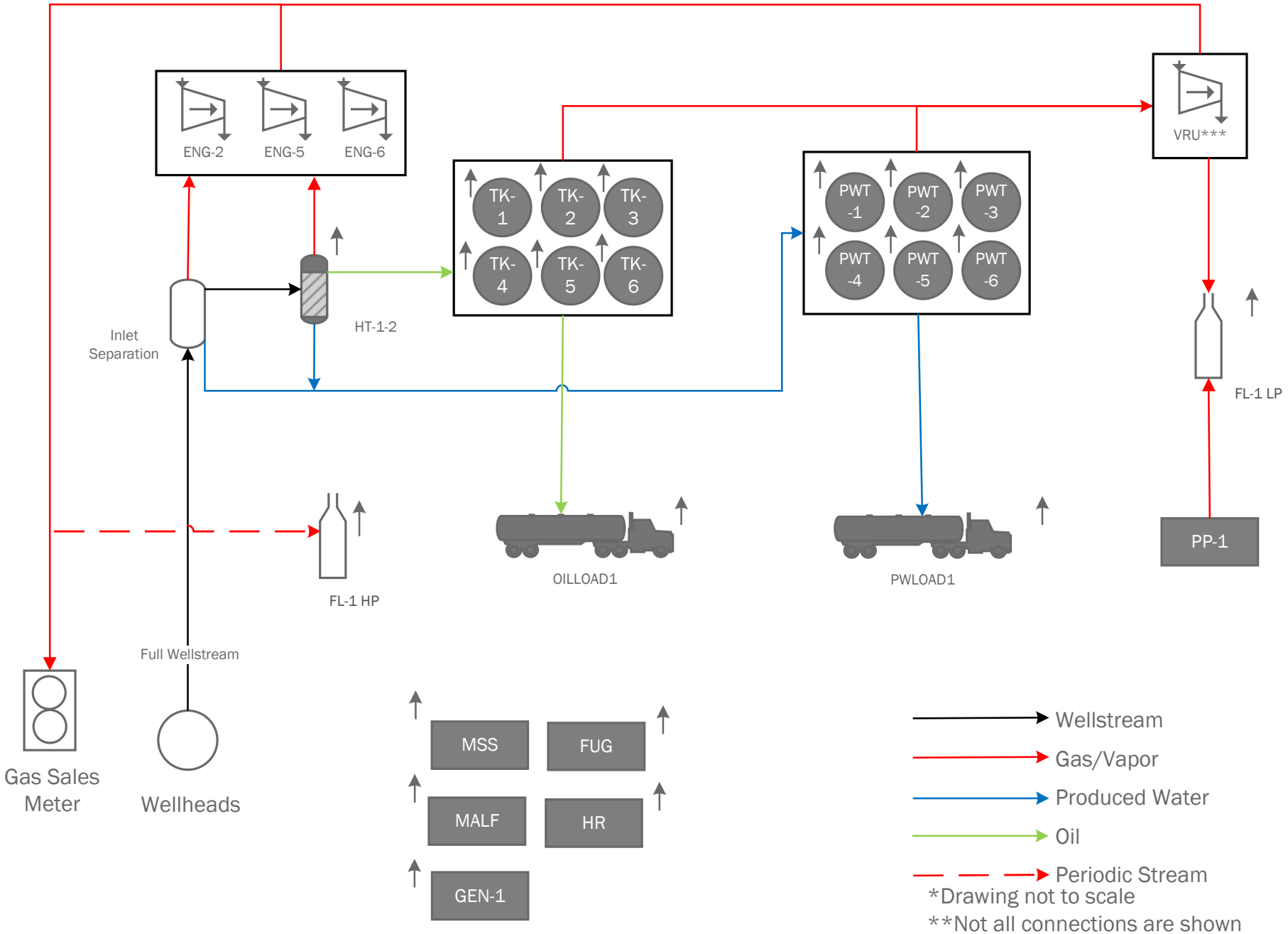
**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Include appropriate tank-flashing modeling input data. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

| Edit | Unit No. | Date Installed | Materials Stored | Seal Type (refer to Table 2-LR) | Roof Type (refer to Table 2-LR) | Capacity | | Diameter (M) | Vapor Space (M) | Color (from Table VI-C) | | Paint Condition (from Table VI-C) | Annual Throughput (gal/yr) | Turn-overs (per year) | Completed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | (bbl) | ($M^3$) | | | Roof | Shell | | | | |
| Edit | OT-1 | 01/01/2018 | Crude Oil | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 1469125 | 96.46 | ☑ |
| Edit | OT-2 | 01/01/2018 | Crude Oil | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 1469125 | 96.46 | ☑ |
| Edit | OT-3 | 01/01/2018 | Crude Oil | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 1469125 | 96.46 | ☑ |
| Edit | OT-4 | 01/01/2018 | Crude Oil | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 1469125 | 96.46 | ☑ |
| Edit | OT-5 | 01/01/2018 | Crude Oil | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 1469125 | 96.46 | ☑ |
| Edit | OT-6 | 01/01/2018 | Crude Oil | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 1469125 | 96.46 | ☑ |
| Edit | PWT-1 | 01/01/2018 | Produced Water | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 3577000 | 234.86 | ☑ |
| Edit | PWT-2 | 01/01/2018 | Produced Water | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 3577000 | 234.86 | ☑ |
| Edit | PWT-3 | 01/01/2018 | Produced Water | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 3577000 | 234.86 | ☑ |
| Edit | PWT-4 | 01/01/2018 | Produced Water | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 3577000 | 234.86 | ☑ |
| Edit | PWT-5 | 01/01/2018 | Produced Water | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 3577000 | 234.86 | ☑ |
| Edit | PWT-6 | 01/01/2018 | Produced Water | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 3577000 | 234.86 | ☑ |

**Comments** (2000 character maximum)

# Leo Thorsness Facility - Process Flow Sheet



# GCP-Oil and Gas AQB ePermitting Portal Registration Form
# Section 1- (ePermitting Portal submittals)

☒ I understand that I must submit the hard copy check with the required Payment Form for all AQB ePermitting Portal submittals. The 30-day review period will not begin until the check is received. (Does not apply if you are converting from a GCP-1 or GCP-4.) Form available: www.env.nm.gov/air-quality/aqb-epermitting-portal/

☒ I will upload this form to submit via the Portal. I understand that certain pages may be deleted by following instructions on this form, to avoid repeating information I entered directly into the Portal or uploaded separately.

☒ Attach only the electronic copy of the permit with the Department response, do not mail a paper copy. (If box is not checked, a paper copy of the permit will be sent with your response letter.)

**Facility Name or Facility Type Change for Modifications**
Fill out this section if requesting a change to the facility name or facility type that appears in the ePermitting Portal. These items cannot be updated through the Portal and will be corrected as part of the review of your permit. Check the appropriate box(es) and provide complete information in the table.

☒ **Not applicable**

☐ 1. Changing facility name. (Punctuation and special characters not allowed. Use “No123” instead of #123)

☐ 2. Changing facility type.

| | | | |
|---|---|---|---|
| **1a** | **Current Facility Name:** | **1b** | **New Facility Name:** |
| **2a** | **Current Facility Type:**<br>☐ Production Site<br>☐ Tank Battery<br>☐ Compressor Station<br>☐ Natural Gas Plant<br>☐ Reinjection facility<br>☐ Well head<br>☐ Misc Oil and Gas<br>☐ Amine Plant<br>☐ Energy Support Facility<br>☐ Other, please specify:_____ | **2b** | **New Facility Type:**<br>☐ Production Site<br>☐ Tank Battery<br>☐ Compressor Station<br>☐ Natural Gas Plant<br>☐ Reinjection facility<br>☐ Well head<br>☐ Misc Oil and Gas<br>☐ Amine Plant<br>☐ Energy Support Facility |

# Section 2- (ePermitting Portal submittals)

**Table 2-B: Exempted Equipment** (20.2.72 NMAC)

All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 202.B.5 "similar functions" units, operations, and activities in Section 5, Calculations. Unit & stack numbering must be consistent throughout the application package.

| Unit Number | Source Description | Manufacturer | Model No / Serial No | Max Capacity / Capacity Units | List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) | Date of Manufacture /Reconstruction1 / Date of Installation /Construction | For Each Piece of Equipment, Check One | |
|---|---|---|---|---|---|---|---|---|
| N/A | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |

# Section 3
## Registration Summary

---

**Registration Summary:** The purpose of this submittal is to replace one engine (C-2) and update with new gas and liquid analyses. The representative sample is from a geographically nearby well from the same producing formation (within 25 miles) and was collected at a higher pressure than this facility's tanks' upstream pressure. This permitted facility produces within +/- 3 degrees of the API gravity at the stock tanks compared to the representative sample.

**Written description of the routine operations of the facility:** The full well stream enters the facility and passes through inlet separation where liquids and gas are separated by mechanical processes. Remaining fluids are piped through additional separation (HT-1, HT-2) where separated oil is directed to storage tanks (OT-1 - OT-6). The natural gas from the separators and heater treaters is sent to a series of compressors (ENG-2, ENG-5, ENG-6) and then to sales via pipeline. Produced water from the heater treaters is directed to onsite storage tanks (PWT-1 - PWT-6) until they can be transported offsite. Oil and produced water are loaded and trucked offsite (OLOAD-1, PWLOAD-1) (HR). Vapors produced in the storage tanks are directed to the low pressure flare (FL-1 LP) for combustion. Stranded gas from the separators and heater treaters is controlled by a high pressure flare (FL-1 HP). One generator provides power to the facility (GEN-1). Pneumatic pumps (PP-1) on site are controlled by a standard flare (FL-1 LP). There are also emissions from fugitives (FUG).

**Routine or predictable emissions during Startup, Shutdown and Maintenance (SSM):** 10 TPY VOC have been included for SSM emissions in this registration.

Overview: The facility has included 10 TPY SSM emissions.

☐ No SSM emissions are expected from routine operations.

☒ Applicant requests up to 10 tpy of VOC SSM emissions.

☒ No other activities (e.g. VRU downtime, stranded gas etc.) are considered SSM activities.

☐ Applicant requests site specific VOC SSM and those emission calculations are included in Section 5 and entered in Table 2F

Provide an overview:

☐ Applicant requests site specific combustion SSM and those emission calculations are included in Section 5 and entered in Table 2F.

Provide an overview:

**Malfunction Emissions (M):** Provide an overview of how malfunction emissions are accounted for in this Registration. The permit does not authorize combustion emissions for malfunctions. The permit does not authorize emissions from SSM and Malfunction to be combined as 10 TPY VOC. However, they may be permitted separately. In the allowable emissions table in Section 2, these two events are separate line items and must be kept separate.

Overview: 10 TPY VOC have been included for malfunction emissions in this registration.

☐ No Malfunction emissions are requested for this permit.

**Allowable Operations:** Check the appropriate box below:

☒ Facility operates continuously (8760 hours per year)

☐ The following regulated equipment will operate less than 8760 hours per year. Add additional rows as necessary. These units are subject to Condition A108.C of the Permit.

**Table A – Equipment Operating Less Than 8760 hours per year**

**☐ Table is blank because I completed this information in the ePermitting Portal for each piece of equipment.**

| Unit # | Requested Annual Operating Hours |
|---|---|
| | |

**Verification of Compliance with Stack Parameter Requirements:**

www.env.nm.gov/air-quality/air-quality-oil-and-gas-gcp-application-forms/

**Portal Submittals:** Applications submitted via the ePermitting Portal are required to use the Oil and Gas Stack Calculator.
**Hardcopy submittals** may voluntarily use the stack calculator.

Click "Print" in the stack calculator and attach the generated PDF results. If the stack calculator was completed and results attached, complete the information in this box and then go to Section 4. You may delete the items below this box until Section 4.

Check the box for each type of equipment at this facility & represented in the attached stack calculator results:
☒ Engine(s)
☐ Turbine(s)
☒ Flares(s)
☐ Enclosed Combustion Device (s)
☒ Heater(s)
☐ Reboiler(s)

☒ I attached the results from the current version of the Oil and Gas Stack Calculator from the AQB web page and the results indicate compliance with the stack parameters for all of my engines, turbines, flares, enclosed combustion devices, heaters or reboilers.

1. Does the flare gas contain 6% $H_2S$ or less by volume (pre-combustion)?

☒ Yes (done with section 3)
☐ No.

2. Explain in detail how assist gas will be added to reduce the gas composition to 6%$H_2S$ or less by volume:

# Section 5

## Emissions Calculation Forms

The Department has developed the Air Emissions Calculation Tool (AECT), which is required to be used in the GCP-Oil and Gas Registration. If the AECT, for a piece of equipment is under development, provide alternate calculations. The AECT must be submitted as a "live" interactive PDF. **Do not include alternative calculations unless there is an issue being resolved with the AECT. This will delay review of the application.** The AECT and this Registration Form may be updated as needed.

**Tank Emissions Calculations**: Provide the method used to estimate tank-flashing emissions, the input and output summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Pro-Max or Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation. **The inputs must match the gas analyses information submitted. Inputs that don't match may be grounds for denial of the application submittal.**

**SSM Calculations**: In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Table 2, and the rational for why the others are reported as zero (or left blank).

**Control Devices:** Report all control devices and list each pollutant controlled by the control device. Indicate in this section if you chose to not take credit for the reduction in emission rates. Only uncontrolled emission rates can be considered to determine applicability unless the state or federal acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

**Calculation Details:** The AECT is required for all emission calculations. If the AECT is not functioning, alternative calculations may be submitted only for the portions of the AECT with issues being resolved. Utilize this section to explain in detail, on an equipment-by-equipment basis, why alternative calculations are necessary.

**Explain here:**

**Equipment Forms Submitted in this Section (add additional rows as necessary):**

| Equipment Type | Quantity | Check Box to Indicate Units that are Controlled | Enter Control Device Type and Pollutant Controlled |
|---|---|---|---|
| **Engine** | **3** | ☒ | **NSCR: NOx, CO and VOC** |
| **Turbine** | | ☐ | |
| **Tanks** | **12** | ☒ | **FL-1 LP: VOC** |
| **Generator** | **1** | ☒ | **NSCR: NOx, CO and VOC (EPA-Certified)** |
| **VRU** | | ☐ | **One VRU off the tanks but not shown as control device** |
| **VRT** | | ☐ | |
| **ULPS** | | ☐ | |
| **Glycol Dehydrator** | | ☐ | |
| **Flare** | **1** | ☐ | **FL-1 LP: OT-1 – OT-6, PWT-1 – PWT-6, PP-1, OLOAD-1; VOC**<br>**FL-1 HP: Stranded Gas; VOC** |
| **Amine Unit** | | ☐ | |
| **Cryogenic Unit** | | ☐ | |
| **Fugitive Emissions** | **1** | ☐ | |

| | | | |
|---|---|---|---|
| **Heater** | **2** | ☐ | |
| **Truck Loading** | **2** | ☐ | **FL-1 LP: OLOAD-1; VOC** |
| **Enclosed Combustion Device (ECD)** | | ☐ | |
| **Thermal Oxidizer (TO)** | | ☐ | |
| **Pneumatic Pumps** | **6** | ☐ | **FL-1 LP: PP-1 VOC** |
| **Other** | | ☐ | |

**For each scenario below, if there are more than one emissions unit, control device, or gas combustion scenario. Please copy and paste each applicable section and label the unit number(s) if the scenarios vary.**

**Vapor Recovery Tower, Ultra Low-Pressure Separator, or Flash Tower Located Upstream of Storage Vessels:** If the facility contains one of the following units located upstream of the storage vessels and is used to flash and capture flashing emissions, check the appropriate box.
Unit number:
☐ Vapor Recovery Tower and VRU Compressor
☐ ULPS and VRU Compressor
☐ Flash Tower and VRU Compressor

**Vapor Recovery Unit (VRU) located upstream of Storage Vessels:** Check the box below if the facility is using a VRU to capture flashing emissions prior to any storage vessels to limit the PTE of the storage vessels to below applicability thresholds of NSPS OOOO or NSPS OOOOa. A process vs control determination should be prepared for this type of VRU application.
Unit number:
☐ VRU capturing emissions prior to any storage vessel and routing directly to the sales pipeline

**Vapor Recovery Unit (VRU) attached to Storage Vessels:** Check the box below if this facility is using a VRU to reduce storage vessel emissions to limit the PTE to below NSPS OOOO or NSPS OOOOa applicability thresholds:
Unit number:
☐ VRU controlling Storage Vessel emissions and the facility is subject to the requirements under NSPS OOOO, 40 CFR 60.5411
☐ VRU controlling Storage Vessel emissions and the facility is subject to the requirements under NSPS OOOOa, 40 CFR 60.5411a

**Gas Combustion Scenarios:** Read through the scenarios below and check the boxes next to any appropriate facility operating scenarios. Flares shall assume a destruction efficiency of 95%, unless the facility is subject to requirements for flares under 40 CFR 60.18, or a higher destruction efficiency (up to 98%) is supported by a manufacturer specification sheet (MSS) for that unit. If so, include the MSS.

A flare, vapor combustion unit (VCU), enclosed combustion device (ECD), thermal oxidizer (TO):
Unit number: FL-1 LP controls tanks and oil loading, FL-1 HP controls stranded gas
☒ Controls storage vessels in accordance with 40 CFR 60, Subpart OOOO or OOOOa. **OT-1 – OT-6**
☒ Provides a federally enforceable control for the storage vessels to limit the PTE to below applicability thresholds of 40 CFR 60, Subpart OOOO or OOOOa. **PWT-1 – PWT-6**
☐ Controls the glycol dehydrator
☐ Controls the amine unit
☒ Controls truck loading
☐ Operates only during maintenance events, such as VRU downtime, check one below:
  ☐ The emissions during VRU downtime are represented as uncontrolled VOC emissions from the compressor
  ☐ The combustion emissions during VRU downtime are represented as controlled emissions from the combustion device

☐ Controls the facility during plant turnaround

**Amine Unit:** Provide the following information for each amine unit.

| | |
|---|---|
| Design Capacity in MMscf/day | |
| Rich Amine Flowrate in gal/min | |
| Lean Amine Flowrate in gal/min | |
| Mole Loading $H_2S$ | |
| Sour Gas Input in MMscf/day | |

**Glycol Dehydration Unit(s):** Provide the following information for each glycol dehydration unit:
Please include an extended gas analysis in Section 6 of this application.

| **Unit #** | **Glycol Pump Circulation Rate** |
|---|---|
| | |

**Voluntary Monitoring in Accordance with §40 CFR 60.5416(a):** Check the box(s) to implement a program that meets the requirements of 40 CFR 60.5416(a). This monitoring program will be conducted in lieu of the monitoring requirements established in the GCP-Oil and Gas for individual equipment. Ceasing to implement this alternative monitoring must be reported in an updated Registration Form to the Department.

☒ Condition A205.B Control Device Options, Requirements, and Inspections for Tanks
☒ Condition A206.B Truck Loading Control Device Inspection
☒ Condition A206.C Vapor Balancing During Truck Loading
☐ Condition A209.A Vapor Recovery Unit or Department-approved Equivalent
☐ Condition A210.B Amine Unit Control Device Inspection

**Fugitive $H_2S$ Screening Threshold and Monitoring in accordance with Condition A212:** Check the box that applies.

☒ Condition A212.A does not apply because the facility is below the fugitive $H_2S$ screening threshold in Condition A212, or

☐ Condition A212.A applies. Because the facility is above the fugitive $H_2S$ screening threshold in Condition A212, or the facility is voluntarily complying with Condition A212.A, and Condition A212.A applies

# Section 6

## Information Used to Determine Emissions

Check the box for each type of information submitted. This documentation is required, if applicable to the facility.

**Failure to include applicable supporting documentation may result in application denial.**

☒ Specifications for control equipment, including control efficiency specifications and sufficient engineering data for verification of control equipment operation, including design drawings, test reports, and design parameters that affect normal operation.

☒ Engine or Generator Manufacturer specifications

☒ Catalyst Manufacturer specifications (If a catalyst is being utilized to reduce emissions, the catalyst manufacturer emission factors must be used in all emission calculations. A 25% safety factor may be applied to each pollutant.

☒ NSPS JJJJ emission factors **may not** be utilized in lieu of catalyst manufacture specifications when a catalyst is installed, and the catalysts manufacturer achieves higher control efficiency.

☒ Flare Manufacturer specifications

☒ Oil/Liquid Analysis: This data is required to match the inputs in all applicable emission calculations. For facilities that have not been constructed and a representative analysis is used it cannot be older than 1 year. For existing facilities, the gas analyses required by Condition A201.A (must be 1 year old or less).

☐ Gas Analysis (must be 1 year old or less) This data is required to match the inputs in all applicable emission calculations.

☒ Extended Gas Analysis (must be 1 year old or less) This data is required to match the inputs in all applicable emission calculations.

☒ If requesting to use a representative gas sample, include a discussion of why the sample is representative for this facility and an explanation of how it is representative (e.g., same reservoir, same similar API gravity, similar composition).

☐ If test data are used, to support emissions calculations or to establish allowable emission limits, include a copy of the complete test report. If the test data are for an emissions unit other than the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly effect emission rates.

☐ Fuel specifications sheet.

☐ If computer models are used to estimate emissions, include an input summary and a detailed report, and a disk containing the input file used to run the model.

☒ For tank-flashing emissions, include a discussion of the method used to estimate tank-flashing emissions, accuracy of the model, the **input and output** summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.

**Representative Gas Analysis Justification:**

Representative sample is from a geographically nearby well, from the same producing formation (within 25 miles) and was collected at a higher pressure than the permitted tanks' upstream pressure. The permitted facility will also produce within +/- 3 degrees of API gravity at the stock tanks compared to the representative sample.

Representative sample analyses are input in the process simulation software, i.e. ProMax, with conservative process flow conditions for flash calculations at the stock tanks. The resulting pounds of VOC per barrel of production at the tanks are used to calculate emission from both oil and water tanks.

# Section 8A

## Applicable State & Federal Regulations

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**Provide a discussion demonstrating compliance with each applicable state & federal regulation**. All input cells should be filled in, even if the response is 'No' or 'N/A'.

In the "Justification" column, identify the criteria that are critical to the applicability determination, numbering each. For each unit listed in the "Applies to Unit No(s)" column, after each listed unit, include the lowest level citation of the applicable regulation. For each unit, list the information necessary to verify the applicability of the regulation, including date of manufacture, date of construction, size (hp), and combustion type. Doing so will provide the applicability criteria for each unit.

---

### Applicable State Regulations:

| State Regulation Citation | Title | Federally Enforceable | Overview of Regulation | Unit(s) or Facility | Applies? (Yes or No) | **Justification:** Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|
| 20.2.1 NMAC | General Provisions | Yes | General Provisions apply to Notice of Intent, Construction, and Title V permit applications. | Facility | Yes | General provisions apply to this facility. |
| 20.2.3 NMAC | Ambient Air Quality Standards NMAAQS | Yes | 20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of Sulfur Compounds, Carbon Monoxide, and Nitrogen Dioxide. | Facility | Yes | 20 NMAC 2.3 specifies maximum allowable concentrations of various regulated air pollutants in the atmosphere. This application includes a demonstration of meeting the NAAQS requirements specified in 20 NMAC 2.3. This facility meets the requirements of this regulation. |
| 20.2.7 NMAC | Excess Emissions | Yes | If your entire facility or individual pieces of equipment are subject to emissions limits in a permit or numerical emissions standards in a federal or state regulation, this applies. | Facility | Yes | Applies to this facility as it operates under this state permit and federal rules. |
| 20.2.38 NMAC | Hydrocarbon Storage Facility | No | Use the regulation link then cut & paste applicable sections.<br>20.2.38 NMAC does **not** establish practically enforceable limits that can be used for PTE or PER calculations. | OT-1-6 | Yes | **20.2.38.109 –** all tank vapors are controlled by a closed vent system and flare.<br>**20.2.38.110 –** tanks are not located within municipality.<br>**20.2.38.111 –** tanks are not located within 5 miles of a municipality with a population greater than 20,000.<br>**20.2.38.112 -** all tank vapors are controlled by a closed vent system and flare.<br>**20.2.38.113 –** tanks are not located within 5 miles of a municipality with a |

| State Regulation Citation | Title | Federally Enforceable | Overview of Regulation | | Unit(s) or Facility | Applies? (Yes or No) | Justification: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|---|
| | | | | | | | population greater than 20,000. |
| 20.2.50 NMAC | Oil and Gas Sector – Ozone Precursor Pollutants | No | This regulation establishes emission standards for volatile organic compounds (VOC) and oxides of nitrogen ($NO_x$) for oil and gas production, processing, compression, and transmission sources. | Check the box for the subparts that are applicable:<br>☐ 113 – Engines and Turbines<br>☒ 114 – Compressor Seals<br>☒ 115 – Control Devices and Closed Vent Systems<br>☒ 116 – Equipment Leaks and Fugitive Emissions<br>☐ 117 – Natural Gas Well Liquid Unloading<br>☐ 118 – Glycol Dehydrators<br>☐ 119 – Heaters<br>☒ 120 – Hydrocarbon Liquid Transfers<br>☐ 121 – Pig Launching and Receiving<br>☒ 122 – Pneumatic Controllers and Pumps<br>☒ 123 – Storage Vessels<br>☒ 124 – Well Workovers<br>☐ 125 – Small Business Facilities<br>☐ 126 – Produced Water Management Unit<br>☐ 127 – Flowback Vessels and Preproduction Operations | | | 113 – The existing engines and generator (ENG-5, ENG-6, GEN-1) are not subject as they are < 1,000-hp. The new engine (ENG-2) is not subject as it is < 500-hp.<br><br>114 - Reciprocating compressors located at tank batteries, gathering and boosting stations, and natural gas processing plants are subject to the requirements of 20.2.50.114 NMAC.<br><br>115 – The flares are subject as control devices.<br><br>116 - Well sites, tank batteries, gathering and boosting stations, natural gas processing plants, transmission compressor stations, and associated piping and components are subject to the requirements of 20.2.50.116 NMAC.<br><br>117 –There are no liquid unloading operations at this facility.<br><br>118 – There are no glycol dehydrators located at this facility.<br><br>119 – The heaters have rated inputs less than 20 mmBtuh and are therefore not subject.<br><br>120 – Hydrocarbon liquid transfers located at existing well sites, standalone tank batteries, gathering and boosting stations with one or more controlled storage vessels, natural gas processing plants, or transmission compressor stations are subject to the requirements of 20.2.50.120 NMAC within two years of the effective date of this Part. OLOAD-1 complies by having emissions vented to a flare at 98% destruction. |

| State Regulation Citation | Title | Federally Enforceable | Overview of Regulation | Unit(s) or Facility | Applies? (Yes or No) | Justification: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|
| | | | | | | 121 – The facility does not have pig launching and receiving operations with PTE > 1 TPY.<br><br>122 - Natural gas-driven pneumatic controllers and pumps located at well sites, tank batteries, gathering and boosting stations, natural gas processing plants, and transmission compressor stations are subject to the requirements of 20.2.50.122 NMAC. PP-1 will meet the deadlines in tables 1 and 2 of Paragraph (3) of Subsection B of 20.2.50.122 NMAC.<br><br>123 – The tanks are subject as existing storage vessels that have PTE great than 3 TPY of VOC and comply by sending vapors to a flare.<br><br>124 – Any workovers planned for this facility will comply.<br><br>125 – This site does not qualify as a small business facility.<br><br>126 - This site does not qualify as a produced water management facility.<br><br>127 – This site has no planned recompletions. |
| 20.2.61.109 NMAC | Smoke & Visible Emissions | No | Engines and heaters are Stationary Combustion Equipment. Specify units subject to this regulation. | ENG-2, ENG-5, ENG-6, GEN-1, HT-1, HT-2, FL-1 LP, FL-1 HP | Yes | The following units are considered engines or stationary combustion equipment and are, therefore, subject to the requirements of 20.2.61.109. |
| 20.2.73 NMAC | NOI & Emissions Inventory Require-ments | Yes | NOI: 20.2.73.200 NMAC applies to all facilities emitting over 10 TPY of any regulated air contaminate. Thus, permitted facilities are also subject to this rule. This GCP-O&G registration also serves the purpose of meeting 20.2.73 NMAC notification requirements.<br><br>Emissions Inventory: 20.2.73.300. NMAC applies to facilities registering under the GCP. | *Facility* | *Yes – applies to all GCP-O&G registrants .* | *Under 20.2.73.300.B(4) NMAC, NMED will periodically request emissions inventory reporting from minor source (expected each third year starting in 2020.)*<br><br>*Under 20.2.73.300.B(1) NMAC, if fugitives result in* |

| State Regulation Citation | Title | Federally Enforceable | Overview of Regulation | Unit(s) or Facility | Applies? (Yes or No) | **Justification:** Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|
| | | | | | | *PTE >100 tpy VOC, annual reporting is required.* |
| 20.2.77 NMAC | New Source Performance | Yes | This is a stationary source which is subject to the requirements of 40 CFR Part 60, as amended on the date of certification. | ENG-2, ENG-5, ENG-6, GEN-1, FUG-1, OT-1-6, PP-1 | Yes | The oil tanks, fugitives and pumps are subject to NSPS OOOOa, and are therefore subject to 20.2.77.9.<br><br>The engines and generator are subject to NSPS JJJJ and is therefore subject to 20.2.77.9. |
| 20.2.78 NMAC | Emission Standards for HAPS | Yes | This facility emits hazardous air pollutants which are subject to the requirements of 40 CFR Part 61, as amended on the date of certification. | N/A | No | N/A |
| 20.2.82 NMAC | MACT Standards for source categories of HAPS | Yes | This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63, as amended on the date of certification. | ENG-2, ENG-5, ENG-6, GEN-1 | Yes | The engines and generator are subject to MACT ZZZZ and is therefore subject to 20.2.82.8. |

## Applicable Federal Regulations (This is not an exhaustive list; add applicable regulations such as NSPS GG and KKKK):

| Federal Regulation Citation | Title | Overview of Regulation | Units(s) or Facility | Applies? (Yes or No) | **Justification:** Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m3, 3. VOL) |
|---|---|---|---|---|---|
| 40 CFR 50 | National Primary and Secondary Ambient Air Quality Standards (NAAQS) | Applicable requirement per GCP-O&G Condition A103. Any national ambient air quality standard. | Facility | Yes | Facility complies with NAAQS standards by operating under a SIP approved state permit. |
| 40 CFR 60, Subpart A | General Provisions | Applies if any other NSPS subpart applies. | ENG-2, ENG-5, ENG-6, GEN-1, FUG-1, OT-1-6, PP-1 | Yes | The units listed are subject to NSPS standards and Subpart A applies. |
| 40 CFR 60, Subpart OOOO | Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015 | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375); centrifugal compressors (60.5380); reciprocating compressors (60.5385): controllers (60.5390); storage vessels (60.5395); equipment leaks (60.5400); sweetening units (60.5405).<br><br>**If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. Centrifugal Compressors 1a-3a are subject to the standards at** | N/A | No | Facility was constructed after September 18, 2015; therefore, this subpart does not apply. |

| Federal Regulation Citation | Title | Overview of Regulation | Units(s) or Facility | Applies? (Yes or No) | **Justification:** Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m3, 3. VOL) |
|---|---|---|---|---|---|
| | | **60.5380(a)(1) and (2) since we use a control device to reduce emissions)** | | | |
| 40 CFR 60, Subpart OOOOa | Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375a); centrifugal compressors (60.5380a); reciprocating compressors (60.5385a): controllers (60.5390a); storage vessels (60.5395a); fugitive emissions at well sites and compressor stations (60.5397a); equipment leaks at gas plants (60.5400a); sweetening units (60.5405a). | FUG-1, OT-1-6, PP-1 | Yes | The rule applies to "affected" facilities that are constructed, modified, or reconstructed after September 18, 2015: storage vessels (60.5395a); fugitive emissions (60.5397a); reciprocating compressors (60.5385a) and pneumatic pumps.<br><br>Matador will comply with the applicable control requirements under 60.5395a(b). Fugitive equipment components are subject to LDAR requirements. Matador will conduct routine fugitive leak monitoring using optical gas imaging (OGI) or EPA Method 21.<br><br>The oil tanks at this well site are subject to §60.5395a based date of construction and VOC emissions during initial production.<br><br>The pneumatic pumps at this well site are subject to §60.5393a. The pumps reduce emissions by sending natural gas to FL-1 LP. |
| 40 CFR 60, Subpart IIII | Standards of performance for Stationary Compression Ignition Internal Combustion Engines | See 40 CFR 60.4200(a) 1 through 4 to determine applicable category and state engine size, fuel type, and date of manufacture. | N/A | No | No compression ignition engines are located on site; therefore, this subpart does not apply. |
| 40 CFR 60, Subpart JJJJ | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines | See 40 CFR 60.4230(a), 1 through 5 to determine applicable category and state engine size, fuel type, and date of manufacture. | ENG-2, ENG-5, ENG-6, GEN-1 | Yes | The engine is subject to JJJJ based on engine size and manufacture date.<br><br>40 CFR 60.4230(a)(4)(iii): ENG-2, ENG-5, ENG-6, and GEN-1 are "new" engines (manufacture date after July 1, 2008) with a horsepower less than 500. |
| 40 CFR 63, Subpart A | General Provisions | Applies if any other subpart applies. | ENG-2, ENG-5, ENG-6, GEN-1 | Yes | The engine is subject to the work practice standards of NESHAP Subpart ZZZZ with no requirements. |

| Federal Regulation Citation | Title | Overview of Regulation | Units(s) or Facility | Applies? (Yes or No) | **Justification:** Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m3, 3. VOL) |
|---|---|---|---|---|---|
| 40 CFR 63, Subpart HH | NESHAP for Glycol Dehydrators | See 40 CFR 63, Subpart HH | N/A | No | No dehydration units are located on site; therefore, this subpart does not apply. |
| 40 CFR 63, Subpart ZZZZ | NESHAP for Stationary Reciprocating Internal Combustion Engines (**RICE MACT**) | Facilities are subject to this subpart if they own or operate a stationary RICE, except if the stationary RICE is being tested at a stationary RICE test cell/stand. | ENG-2, ENG-5, ENG-6, GEN-1 | Yes | 40 CFR 63.6589(c): The engine is subject as an area source of HAP emissions.<br><br>40 CFR 63.6590(c)(1): The engines and generator will comply with ZZZZ by complying with 40 CFR 60 Subpart JJJJ. |

# Section 8B
# Compliance Test History and Disclosure Form

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To evaluate the requirement for compliance tests, you must submit a compliance test history. The table below provides an example.

---

## Compliance Test History Table

| Unit No. | Test Description | Test Date |
|---|---|---|
| N/A | N/A | N/A |
| | | |

# Air Permit Application
# Compliance History Disclosure Form

Pursuant to Subsection 74-2-7(S) of the New Mexico Air Quality Control Act ("AQCA"), NMSA §§ 74-2-1 to -17, the New Mexico Environment Department ("Department") may deny any permit application or revoke any permit issued pursuant to the AQCA if, within ten years immediately preceding the date of submission of the permit application, the applicant met any one of the criteria outlined below. In order for the Department to deem an air permit application administratively complete or issue an air permit for those permits without an administrative completeness determination process, the applicant must complete this Compliance History Disclosure Form as specified in Subsection 74-2-7(P). An existing permit holder (permit issued prior to June 18, 2021) shall provide this Compliance History Disclosure Form to the Department upon request.

| **Permittee/Applicant Company Name** | | **Expected Application Submittal Date** |
|---|---|---|
| Matador Production Company | | April 2023 |
| **Permittee/Company Contact** | **Phone** | **Email** |
| Kha Mach | 972-371-5200 | kha.mach@matadorresources.com |

| | **Within the 10 years preceding the expected date of submittal of the application, has the permittee or applicant:** | |
|---|---|---|
| 1 | Knowingly misrepresented a material fact in an application for a permit? | ☐ Yes ☒ No |
| 2 | Refused to disclose information required by the provisions of the New Mexico Air Quality Control Act? | ☐ Yes ☒ No |
| 3 | Been convicted of a felony related to environmental crime in any court of any state or the United States? | ☐ Yes ☒ No |
| 4 | Been convicted of a crime defined by state or federal statute as involving or being in restraint of trade, price fixing, bribery, or fraud in any court of any state or the United States? | ☐ Yes ☒ No |
| 5a | Constructed or operated any facility for which a permit was sought, including the current facility, without the required air quality permit(s) under 20.2.70 NMAC, 20.2.72 NMAC, 20.2.74 NMAC, 20.2.79 NMAC, or 20.2.84 NMAC? | ☒ Yes ☐ No |
| 5b | If "No" to question 5a, go to question 6.<br>If "Yes" to question 5a, state whether each facility that was constructed or operated without the required air quality permit met at least one of the following exceptions:<br><br>a. The unpermitted facility was discovered after acquisition during a timely environmental audit that was authorized by the Department; or<br><br>b. The operator of the facility estimated that the facility's emissions would not require an air permit, **and** the operator applied for an air permit within 30 calendar days of discovering that an air permit was required for the facility. | ☐ Yes ☒ No |
| 6 | Had any permit revoked or permanently suspended for cause under the environmental laws of any state or the United States? | ☐ Yes ☒ No |
| 7 | For each "yes" answer, please provide an explanation and documentation.<br><br>As NMED is aware, Matador is currently in an enforcement action and settlement negotiation with NMED and U.S. EPA relating to alleged violations of the Clean Air Act and New Mexico Air Quality Control Act, including alleged permit violations. In the course of that action, the company has disclosed information about its historic permitting and operations at New Mexico facilities. | |

| | |
|---|---|
| | Since NMED and U.S. EPA's inspection of the company's facilities in 2019, Matador has invested significant resources to re-evaluate and, as needed, update its air permits. As a result of those efforts, Matador is not aware of current noncompliance with NMED permit regulations. Furthermore, as an additional measure, in the draft consent decree under negotiation with NMED and U.S. EPA, the company would systematically evaluate its permitting of facilities in New Mexico.<br><br>By providing the information requested by this form, Matador does not waive, and expressly reserves, all objections, rights, and defenses. |

# APPENDIX J. NOI # 9357

**Construction Status** Existing Permitted (or NOI) Facility

☑ I acknowledge that a pre-application meeting is available to me upon request.

☑ For new registrations or modifications, a payment for the registration fee will be submitted to the Department for ten fee points for GCP-O&G or $500 for NOIs. We cannot begin processing your action until the full fee is received by the Department in the form of a check or an online ePayment. You will receive an automated email when your action is assigned for review.

☑ There is an annual fee for GCP-O&G in addition to the registration fee: www.env.nm.gov/air-quality/permit-fees-2/ (No annual fee for NOIs. (Facilities qualifying as a 'small business' under 20.2.75.7.F NMAC qualify for reduced fees, provided that NMED has a Small Business Certification Form from your company on file. This form can be found at: www.env.nm.gov/aqb/sbap/Small_Business_Forms.html)

☑ There are required attachments in addition to inputting data in the program. I will include the required attachments.

Is the facility located in Bernalillo County, on tribal lands, or in a nonattainment area?
○ Yes ◉ No

Is the facility's SIC code 1311, 1321, 4619, 4612 or 4922? (Other SIC codes may be approved provided that all the equipment at the facility is allowed in the GCP-Oil & Gas Permit. Non-Oil and Gas NOIs should use the paper Universal Application.
◉ Yes ○ No

New Mexico Environment Department
Air Quality Bureau
Permitting Section
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505-1816

Phone: (505) 476-4300
Fax: (505) 476-4375
www.env.nm.gov/air-quality/

**For Department use only:**

# Electronic Permitting Application

**Use this application for NOI and GCP-Oil and Gas Permits.**

Use this application for: the initial application, modifications, revisions and when converting from another permit type. Please fill out all sections so that they have check marks and attach all required documents for review. Coordination with AQB is encouraged for first time users. Please use the Request NMED Support button if you would like to set up a walk through.

## Section 1 - Facility Information

**Section 1-A: Company Information - Devon - Broadside 12 Facility 2**
**Last modified by Kimbrell, Leslee on 22-OCT-24.**

| | | | | |
|---|---|---|---|---|
| 1 | **Facility Name:** Devon - Broadside 12 Facility 2 | | AI # (if known): 40140 | Updating permit #: 9357 |
| a | SIC Code: 1311 - Crude petroleum and natural gas<br>NAICS Code: 21112 - Crude Petroleum Extraction<br>Facility Type: 146 - Oil & Gas  Secondary Facility Type: 272 - O&G-Production Facility | | | Reset Selections |
| 2 | **Company Name (Owns facility):** Devon Energy Production Company LP | | Phone: 405-235-3611 | Fax: 405-552-4550 |
| a | Mailing Address: 333 West Sheridan Avenue | Address 2: | City: Oklahoma City | State: Oklahoma  ZIP Code: 73102 |
| 3 | **Billing Party:** Devon Energy Production Company LP<br>Select an organization | | Phone: 405-235-3611 | Fax: 405-552-4550 |
| a | Mailing Address: 333 West Sheridan Avenue | Address 2: | City: Oklahoma City | State: Oklahoma  ZIP Code: 73102 |
| 4 | **Consultant Company:** Resolute Compliance LLC<br>Select an organization | | Phone: 817-821-6526 | Fax: |
| a | Mailing Address: PO Box 970 | Address 2: | City: Royse City | State: Texas  ZIP Code: 75189 |
| 5 | **Consultant / Preparer Contact:**<br>First Name: Kayla  M.I.:  Last Name: Curtis  Title: Environmental Manager | | Phone: 817-821-6526<br>Email: kc@resolutecompliance.com | Fax: |
| a | Mailing Address: PO Box 970 | Address 2: | City: Royse City | State: Texas  ZIP Code: 75189 |
| 6 | **Plant Operator Company:** Devon Energy Production Company LP<br>Select an organization | | | |
| a | Plant Operator Company Address: 333 West Sheridan Avenue | Address 2: | City: Oklahoma City | State: Oklahoma  ZIP Code: 73102 |
| b | **Plant Operator Contact:**<br>First Name: Clarence  M.I.:  Last Name: McDonald  Title: Operator | | Phone: 405-552-7977<br>Email: peter.mcdonald@dvn.com | Fax: |
| c | Mailing Address: 333 West Sheridan Avenue | Address 2: | City: Oklahoma City | State: Oklahoma  ZIP Code: 73102 |
| 7 | **Air Permit:** Select a person | | | |
| a | **Air Permit Contact:**<br>First Name: Aaron  M.I.:  Last Name: Yotter  Title: EHS Compliance Specialist | | Phone: 405-228-7270<br>Email: aaron.yotter@dvn.com | Fax: |
| b | Mailing Address: 333 West Sheridan Ave | Address 2: | City: Oklahoma City | State: Oklahoma  ZIP Code: 731025010 |

**Comments** (2000 character maximum)

**Section 1-C: Facility Input Capacity & Production Rate - Devon - Broadside 12 Facility 2**
**Last modified by Kimbrell, Leslee on 22-OCT-24.**

Enter the maximum hourly, daily, and annual throughput of oil, gas, natural gas liquids (NGL), and produced water.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **OIL** | | | | | | | | |
| a | Current: | Hourly: | 625 | bbl/h | Daily: | 15000 | bbl/d | Annually: 2372500 | bbl/y |
| b | Proposed | Hourly: | 104.17 | bbl/h | Daily: | 1200 | bbl/d | Annually: 438000 | bbl/y |
| 2 | **Natural Gas** | | | | | | | | |
| a | Current | Hourly: | 1458.33 | M SCF/h | Daily: | 35 | MM SCF/d | Annually: 6205 | MM SCF/y |
| b | Proposed | Hourly: | 333.33 | M SCF/h | Daily: | 4400 | M SCF/d | Annually: 1606 | MM SCF/y |
| 3 | **Natural Gas Liquids** | | | | | | | | |
| a | Current | Hourly: | | | Daily: | | | Annually: | |
| b | Proposed | Hourly: | | | Daily: | | | Annually: | |
| 4 | **Produced Water** | | | | | | | | |
| a | Current | Hourly: | 1458.33 | bbl/h | Daily: | 35000 | bbl/d | Annually: 6205000 | bbl/y |
| b | Proposed | Hourly: | 187.50 | bbl/h | Daily: | 2400 | bbl/d | Annually: 876000 | bbl/y |

**Comments** (2000 character maximum)

**Section 1-D: Facility Location Information - Devon - Broadside 12 Facility 2**
**Last modified by Kimbrell, Leslee on 22-OCT-24.**

| | | |
|---|---|---|
| 1 | County: Lea | Elevation (ft): 3606 |
| 2 | UTM Zone: ○ 12 or ◉ 13 | Datum: ◉ NAD 83 ○ WGS 84 |
| a | UTM E (in meters, to nearest 10 meters): 639640 | UTM N (in meters, to nearest 10 meters): 3566440 |
| b | Latitude: 32.225931 dec deg. N | Longitude: -103.518415 dec deg. W |
| 3 | Facility/Plant Address: 20.7 mi WNW of Jal<br>(If no facility street address, leave blank) | City: Jal<br>State: New Mexico<br>ZIP Code: 88252<br>District: 004<br>Field Office: Select one |
| 4 | The facility is 20.7 miles NW of Jal (nearest town). | |
| 5 | Detailed Driving Instructions from nearest NM town (attach a road map if necessary): From the intersection of S 3rd St. and NM-128 W, go W on NM-128 W for 20.4 mi. Go north on Delaware Basin Rd for 1.0 mi. Go | |
| 6 | Status of land at facility: Federal - BLM | |
| 7 | Select nearest Class I area: Class I - Carlsbad Caverns National Park | |
| 8 | Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 80.4 km | |
| 9 | Is this a portable stationary source as defined in 20.2.72.7.X NMAC? ○ Yes ◉ No | |
| 10 | Will this facility operate in conjunction with other air regulated parties on the same property? ○ Yes ◉ No<br>If yes, what is the name and permit number (if known) of the other facility? | |

**Comments** (2000 character maximum)

**Section 1-E: Proposed Operating Schedule - Devon - Broadside 12 Facility 2**
**Last modified by Kimbrell, Leslee on 22-OCT-24.**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Facility **maximum** operating (hours/day): 24 | days/week: 7 | weeks/year: 52 | hours/year: 8760 | |
| 2 | Facility's maximum daily operating schedule (if less than 24 hours/day)? Start Time: | | End Time: | | |
| 3 | Month and year of anticipated start of construction (mm/yyyy): | | | | |
| 4 | Month and year of anticipated construction completion (mm/yyyy): | | | | |
| 5 | Month and year of anticipated startup of new or modified facility (mm/yyyy): | | | | |
| 6 | Will this facility operate at this site for more than one year? (•) Yes ( ) No | | | | |

The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.

**Comments** (2000 character maximum)

**Last modified by Kimbrell, Leslee on 22-OCT-24.**

| **Section 1-F - Current Facility Status - Devon - Broadside 12 Facility 2** | | | |
|---|---|---|---|
| 1 | Has this Facility already been constructed?<br>(•) Yes ( ) No | If yes, is it currently operating in New Mexico?<br>(•) Yes ( ) No | |
| 2 | Does this facility currently have a construction permit or Notice of Intent (NOI) (20.2.72 NMAC or 20.2.73 NMAC)?<br>(•) Yes ( ) No | If yes, the permit No or NOI No:<br>9357 | Will it remain active or not:<br>( ) Yes (•) No |
| 3 | Is this Registration in response to a Notice of Violation (NOV)?<br>( ) Yes (•) No<br>If so, provide current permit #: | If yes,NOV date: | NOV tracking No: |
| 4 | Facility is Notice of Intent | | |

**Comments** (2000 character maximum)

## Table 2-A: Regulated Emission Sources

| Edit | NMED SI ID | Category / Type | NMED SI Status | Unit Number[1] | Source Description | Manufacturer | Model # | Serial # | Combustion Type | Rated Capacity[3] | Permitted Capacity[3] | Date[2] of Manufacture or Reconstruction / Date[2] of Installation /Construction | Controlled by Unit # / Emissions vented to Stack # | Source Classification Code (SCC) | Disposition | Applicable State & Federal Regulation(s) (i.3. 20.x.x, JJJJ, ...) | Complete | Replicate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | EQPT-10 | Equipment / Process Flare | Active 09/15/2021 | FL-1 | Process Flare -LP 15.5 MMscfd | Zeeco | | TBD | | 15.50 MM SCF/d | 15.50 MM SCF/d | | | 3-10-001-60 | To Be Removed | NA | ☑ | Replicate |
| Edit | EQPT-11 | Equipment / Process Flare | Active 09/15/2021 | FL-1_0538 | HP-Flare_EQ000870538 | Zeeco | AFDS-4D/24-40-KO | 49713-002 | Flare | 15.50 MM SCF/d | 15.50 MM SCF/d | 01/01/21 / 02/01/22 | NA / FL-1 | 3-10-001-60 | To Be Revised | NA | ☑ | Replicate |
| Edit | RPNT-1 | Release Point / Fugitives | Active 09/15/2021 | FUG-1 | Sitewide Fugitives | NA | NA | NA | | | | | NA / FUG-1 | 3-10-888-11 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-9 | Equipment / Heater Treater/Stack Pak | Active 09/15/2021 | HT-1_6711 | Heater Treater_EQ000696711 | Cimmaron Energy Inc | NA | M-13389 | | 3.00 MM BTU/h | 3.00 MM BTU/h | 12/01/20 / 02/01/22 | NA / HT-1 | 3-10-004-04 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-12 | Equipment / Internal combustion engine | Active 09/15/2021 | LPC-1_4072 | GM 5.7L 92 HP Engine_EQ000184072 | GM | 5.7L | 10CHMM405270003 | | 92.00 hp | 92.00 hp | 05/01/14 / 02/01/22 | NA / LPC-1 | 2-02-002-53 | To Be Revised | 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ | ☑ | Replicate |
| Edit | EQPT-7 | Equipment / Loading/Unloading Rack | Active 09/15/2021 | OILLOAD-1 | Crude Loading | NA | NA | NA | | 18396000 gal/y | 18396000 gal/y | | NA / OILLOAD-1 | 4-06-001-32 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-8 | Equipment / Loading/Unloading Rack | Active 09/15/2021 | PWLOAD-1 | Water Loading | NA | NA | NA | | 36792000.00 gal/y | 36792000.00 gal/y | | NA / PWLOAD-1 | 4-06-001-32 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-4 | Equipment / Tank - Above Ground | Active 09/15/2021 | PWTK-1_0224 | 750 bbl Water Tank_EQ000870224 | Angelina Tank & Mfg | NA | 71155 | | 750.00 bbl | 750.00 bbl | 02/01/21 / 02/01/22 | ECD-1 / PWTK-1/ECD-1 | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-5 | Equipment / Tank - Above Ground | Active 09/15/2021 | PWTK-2_0253 | 750 bbl Water Tank_EQ000870253 | Angelina Tank & Mfg | NA | 71154 | | 750.00 bbl | 750.00 bbl | 02/01/21 / 02/01/22 | ECD-1 / PWTK-2/ECD-1 | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-6 | Equipment / Tank - Above Ground | Active 09/15/2021 | PWTK-3_0137 | 750 bbl Water Tank_EQ000870137 | Angelina Tank & Mfg | NA | 71158 | | 750 bbl | 750 bbl | 02/01/21 / 02/01/22 | ECD-1 / PWTK-3/ECD-1 | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | AREA-1 | Area / Unpaved roads | Active 09/15/2021 | ROAD-1 | Unpaved Haul Roads | NA | NA | NA | | | | | NA / ROAD-1 | 3-10-888-11 | To Be Revised | NA | ☑ | Replicate |
| Edit | RPNT-2 | Release Point / Fugitives | Active 09/15/2021 | SSM | Startup,shutdown, maintenance | NA | NA | NA | | | | | NA / SSM | 3-10-888-11 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-1 | Equipment / Tank - Above Ground | Active 09/15/2021 | TK-1_0127 | 750 bbl Crude Oil Tank_EQ000870127 | Angelina Tank & Mfg | NA | 71086 | | 750.00 bbl | 750.00 bbl | 07/01/20 / 02/01/22 | ECD-1 / TK-1/ECD-1 | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-2 | Equipment / Tank - Above Ground | Active 09/15/2021 | TK-2_0213 | 750 bbl Crude Oil Tank_EQ000870213 | Angelina Tank & Mfg | NA | 71087 | | 750.00 bbl | 750.00 bbl | 07/01/20 / 02/01/22 | ECD-1 / TK-2/ECD-1 | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-3 | Equipment / Tank - Above Ground | Active 09/15/2021 | TK-3_0194 | 750 bbl Crude Oil Tank_EQ000870194 | Angelina Tank & Mfg | NA | 71090 | | 750 bbl | 750 bbl | 07/01/20 / 02/01/22 | ECD-1 / TK-3/ECD-1 | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-0 | Equipment / Enclosed Combustion Device | New | ECD-1_6242 | Combustor_EQ001596242 | Mission | MC-4820 | 23285-E7 | ECD/VCU | 18.50 MM BTU/h | 18.50 MM BTU/h | 01/01/23 / 01/01/24 | NA / FL-1 | 3-10-001-60 | New/Additional | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-0 | Equipment / Compressor | New | LPC-2_0693 | Electric LPC_EQ000870693 | Toshiba | B1504FLF3USH | 130401251 | | | | 04/01/13 / 02/01/22 | | 3-10-002-03 | New/Additional | NA | ☑ | Replicate |
| Edit | EQPT-0 | Equipment / Compressor | New | LPC-3_0680 | Electric LPC_EQ000870680 | Toshiba | B1504FLF3USH | F1502255801 | | | | 11/01/15 / 02/01/22 | | 3-10-002-03 | New/Additional | NA | ☑ | Replicate |
| Edit | EQPT-0 | Equipment / Separator | New | ULPS-1_0640 | Ultra Low Pressure Separator_EQ000870640 | Forum | NA | GP490-01 | | | | 01/01/21 / 02/01/22 | NA / TK-1 - TK-3 | 3-10-001-29 | New/Additional | NA | ☑ | Replicate |

Add a New Regulated Source

[1] Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.

[2] Specify dates required to determine regulatory applicability. If only year or month is known use 01/01/yyyy or mm/01/yyyy.

[3] To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

## Table 2C - Emissions Reduction Equipment

☐ **This Table was intentionally left blank.**

In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions. **Also include reductions from process equipment in this table. Entering process equipment in this table is for data entry purposes only, the process vs control analysis will be used to determine process or control status for VRUs.** Only list control equipment for TAPs if the TAPs maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B.

| Edit | Reduction Equipment Unit No. | Reduction Equipment Description | Date Installed (mm/dd/yyyy). | Reduced Pollutants | Reducing Emissions for Unit Numbers | Efficiency (% Reduction by Weight) | Method used to estimate reduction | Reduction Type | Complete |
|---|---|---|---|---|---|---|---|---|---|
| Edit | CAT-1 | NSCR (Non-Selective Catalytic Reduction) | | Carbon Monoxide | LPC-1_4072 | 81 | Design calculation | PRIMARY | ☑ |
| Edit | CAT-1 | NSCR (Non-Selective Catalytic Reduction) | | Nitrogen Dioxide | LPC-1_4072 | 96 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | PWTK-1_0224 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Total HAP | PWTK-1_0224 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | PWTK-2_0253 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Total HAP | PWTK-2_0253 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Total HAP | PWTK-3_0137 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | PWTK-3_0137 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | TK-1_0127 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Total HAP | TK-1_0127 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Total HAP | TK-2_0213 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | TK-2_0213 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Total HAP | TK-3_0194 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | TK-3_0194 | 98 | Design calculation | PRIMARY | ☑ |

Add Reduction Equipment for Unit [Select one] Add

How to complete the table: In the drop down, select regulated sources from Table 2A where emissions are reduced and click "Add." Then add reduced pollutants and associated reduction devices for each. If a pollutant has emissions reduced by more than one device please add a line for each device and label them as primary, secondary, tertiary. Click "Edit" to update reduced pollutants and devices for each regulated source.

Comments (4000 character maximum)

**List each reduction device and all sources they serve, e.g. FL-1: Oil tanks 1-4, loading, VRU downtime. FL-2: compressor and sales downtime. For NOIs, indicate the enforceability behind each device or clarify if it is voluntary and no credit is being claimed for the reduction, e.g., FL-1: Oil tanks 1-8 (OOOOa). FL-1: Loading (voluntary, no emissions reduction credit claimed.)**

CAT-1: LPC-1 (JJJJ, ZZZZ)
ECD-1: Oil Tanks 1-3 (OOOOa); Produced Water Tanks 1-3 (voluntary, no emission reduction credit claimed)
FL-1: stranded gas during pipeline downtime (voluntary, no emission reduction credit claimed)

## *Table 2-D: Maximum Emissions* (under normal operating conditions)

**This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | **EQPT-11** | **Active 09/15/2021** | FL-1_0538 | 0.020 | 0.088 | 0.045 | 0.20 | 0.035 | 0.15 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **RPNT-1** | **Active 09/15/2021** | FUG-1 | - | - | - | - | 1.34 | 5.85 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-9** | **Active 09/15/2021** | HT-1_6711 | 0.32 | 1.41 | 0.27 | 1.18 | 0.018 | 0.078 | 0.002 | 0.008 | - | - | 0.024 | 0.11 | - | - | - | - | ☑ |
| Edit | **EQPT-12** | **Active 09/15/2021** | LPC-1_4072 | 2.84 | 12.44 | 2.23 | 9.77 | 0.59 | 2.57 | 0.0005 | 0.0021 | 0.015 | 0.066 | 0.015 | 0.066 | - | - | - | - | ☑ |
| Edit | **EQPT-7** | **Active 09/15/2021** | OILLOAD-1 | - | - | - | - | 137.36 | 2.13 | - | - | - | - | - | - | 0.006 | 0.0001 | - | - | ☑ |
| Edit | **EQPT-8** | **Active 09/15/2021** | PWLOAD-1 | - | - | - | - | 1.34 | 0.42 | - | - | - | - | - | - | 0.011 | 0.003 | - | - | ☑ |
| Edit | **EQPT-4** | **Active 09/15/2021** | PWTK-1_0224 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - | ☑ |
| Edit | **EQPT-5** | **Active 09/15/2021** | PWTK-2_0253 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - | ☑ |
| Edit | **EQPT-6** | **Active 09/15/2021** | PWTK-3_0137 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - | ☑ |
| Edit | **AREA-1** | **Active 09/15/2021** | ROAD-1 | - | - | - | - | - | - | - | - | 2.20 | 0.38 | 0.22 | 0.038 | - | - | - | - | ☑ |
| Edit | **RPNT-2** | **Active 09/15/2021** | SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-1** | **Active 09/15/2021** | TK-1_0127 | - | - | - | - | 200.79 | 80.80 | - | - | - | - | - | - | 0.009 | 0.003 | - | - | ☑ |
| Edit | **EQPT-2** | **Active 09/15/2021** | TK-2_0213 | - | - | - | - | 200.79 | 80.80 | - | - | - | - | - | - | 0.009 | 0.003 | - | - | ☑ |
| Edit | **EQPT-3** | **Active 09/15/2021** | TK-3_0194 | - | - | - | - | 200.79 | 80.80 | - | - | - | - | - | - | 0.009 | 0.003 | - | - | ☑ |
| Edit | **new** | **New** | ECD-1_6242 | 0.020 | 0.088 | 0.045 | 0.20 | 0.035 | 0.15 | 0 | 0 | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | **new** | **New** | LPC-2_0693 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **new** | **New** | LPC-3_0680 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **new** | **New** | ULPS-1_0640 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| | | | **Totals** | 3.2 | 14.03 | 2.59 | 11.35 | 746.3 | 260.8 | 0.0 | 0.01 | 2.22 | 0.45 | 0.26 | 0.21 | 0.05 | 0.03 | 0.0 | 0.0 | |

**[1] Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**Comments** (2000 character maximum)

## Table 2-E: Requested Allowable Emissions

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Facility totals are a summation of all the emissions entered for equipment in this table plus total tpy SSM emissions from Table 2F.
**GCP-O&G:** Combustion emissions from malfunction events are not allowed under this permit.

**NOI:** Malfunction emissions are not allowed under a Notice of Intent.

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | EQPT-11 | Active 09/15/2021 | FL-1_0538 | 0.020 | 0.088 | 0.045 | 0.20 | 0.035 | 0.15 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | RPNT-1 | Active 09/15/2021 | FUG-1 | - | - | - | - | 1.34 | 5.85 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-9 | Active 09/15/2021 | HT-1_6711 | 0.32 | 1.41 | 0.27 | 1.18 | 0.018 | 0.078 | 0.002 | 0.008 | - | - | 0.024 | 0.11 | - | - | - | - | ☑ |
| Edit | EQPT-12 | Active 09/15/2021 | LPC-1_4072 | 0.57 | 2.49 | 0.97 | 4.26 | 0.59 | 2.57 | 0.0005 | 0.0021 | 0.015 | 0.066 | 0.015 | 0.066 | - | - | - | - | ☑ |
| Edit | EQPT-7 | Active 09/15/2021 | OILLOAD-1 | - | - | - | - | 137.36 | 2.13 | - | - | - | - | - | - | 0.006 | 0.0001 | - | - | ☑ |
| Edit | EQPT-8 | Active 09/15/2021 | PWLOAD-1 | - | - | - | - | 1.34 | 0.42 | - | - | - | - | - | - | 0.011 | 0.003 | - | - | ☑ |
| Edit | EQPT-4 | Active 09/15/2021 | PWTK-1_0224 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - | ☑ |
| Edit | EQPT-5 | Active 09/15/2021 | PWTK-2_0253 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - | ☑ |
| Edit | EQPT-6 | Active 09/15/2021 | PWTK-3_0137 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - | ☑ |
| Edit | AREA-1 | Active 09/15/2021 | ROAD-1 | - | - | - | - | - | - | - | - | 2.20 | 0.38 | 0.22 | 0.038 | - | - | - | - | ☑ |
| Edit | RPNT-2 | Active 09/15/2021 | SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-1 | Active 09/15/2021 | TK-1_0127 | - | - | - | - | 4.02 | 1.62 | - | - | - | - | - | - | 0.0002 | 0.0001 | - | - | ☑ |
| Edit | EQPT-2 | Active 09/15/2021 | TK-2_0213 | - | - | - | - | 4.02 | 1.62 | - | - | - | - | - | - | 0.0002 | 0.0001 | - | - | ☑ |
| Edit | EQPT-3 | Active 09/15/2021 | TK-3_0194 | - | - | - | - | 4.02 | 1.62 | - | - | - | - | - | - | 0.0002 | 0.0001 | - | - | ☑ |
| Edit | new | New | ECD-1_6242 | 3.35 | 0.95 | 7.52 | 2.14 | 11.84 | 4.91 | 0.022 | 0.045 | - | - | - | - | 0.001 | 0.0002 | - | - | ☑ |
| Edit | new | New | LPC-2_0693 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | new | New | LPC-3_0680 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | new | New | ULPS-1_0640 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| | | | **SSM Totals** | 0.27 | 0.66 | 0.61 | 1.48 | 24.01 | 67.88 | 0.01 | 0.01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | **Totals** | 4.53 | 5.6 | 9.41 | 9.26 | 191.8 | 95.9 | 0.03 | 0.07 | 2.22 | 0.45 | 0.26 | 0.21 | 0.03 | 0.02 | 0.0 | 0.0 | |

**[1]Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**Comments** (2000 character maximum)

## Table 2-F: Startup, Shutdown, and Routine Maintenance (SSM) Emissions

☐ **This table is intentionally left blank as all SSM emissions at this facility do not require an increase in Requested Allowables greater than those listed in Table 2-E.**

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)2, including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). Provide emissions calculations for all SSM emissions reported in this table. Refer to the guidance "Startup, Shutdown, Maintenance Emissions in Permits" (www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | EQPT-11 | Active 09/15/2021 | FL-1_0538 | 0.27 | 0.66 | 0.61 | 1.48 | 24.01 | 57.88 | 0.005 | 0.012 | - | - | - | - | 0.002 | 0.004 | - | - | ☑ |
| Edit | RPNT-1 | Active 09/15/2021 | FUG-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-9 | Active 09/15/2021 | HT-1_6711 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-12 | Active 09/15/2021 | LPC-1_4072 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-7 | Active 09/15/2021 | OILLOAD-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-8 | Active 09/15/2021 | PWLOAD-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-4 | Active 09/15/2021 | PWTK-1_0224 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-5 | Active 09/15/2021 | PWTK-2_0253 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-6 | Active 09/15/2021 | PWTK-3_0137 | | | | | | | | | | | | | | | | | ☑ |
| Edit | AREA-1 | Active 09/15/2021 | ROAD-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | RPNT-2 | Active 09/15/2021 | SSM | - | - | - | - | - | 10.0 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-1 | Active 09/15/2021 | TK-1_0127 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-2 | Active 09/15/2021 | TK-2_0213 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-3 | Active 09/15/2021 | TK-3_0194 | | | | | | | | | | | | | | | | | ☑ |
| Edit | new | New | ECD-1_6242 | | | | | | | | | | | | | | | | | ☑ |
| Edit | new | New | LPC-2_0693 | | | | | | | | | | | | | | | | | ☑ |
| Edit | new | New | LPC-3_0680 | | | | | | | | | | | | | | | | | ☑ |
| Edit | new | New | ULPS-1_0640 | | | | | | | | | | | | | | | | | ☑ |
| | | | **Totals** | 0.27 | 0.66 | 0.61 | 1.48 | 24.01 | 67.88 | 0.005 | 0.012 | 0.0 | 0.0 | 0.0 | 0.0 | 0.002 | 0.004 | 0.0 | 0.0 | |

**[1]Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**[2]For instance, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in the table below. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.**

**Comments** (2000 character maximum)

## Table 2-H: Stack Exit Conditions

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Please enter the stack information for the original source, not the control or reduction equipment.

For equipment that doesn't have an actual stack or fugitive stack please just list it as having a default fugitive stack with a height of 10 ft. This field is required by our database.

| Edit | Stack Description | Unit number | Orientation (H=Horizontal V=Vertical) | Rain Caps (Yes or No) | Height Above Ground (ft) | Temp. (F) | Flow Rate (acfs) | Flow Rate (dscfs) | Moisture by Volume (%) | Velocity (ft/sec) | Inside Diameter (ft) | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | FL-1 HP | FL-1_0538 | Vertical | No | 40 | 2100 | 4.17 | | | 1.33 | 2.0 | ☑ |
| Edit | FUG-1 | FUG-1 | Fugitive | No | 3 | | | | | | | ☑ |
| Edit | HT-1 | HT-1_6711 | Vertical | No | 30 | 1140 | 24.93 | | | 29.77 | 1.03 | ☑ |
| Edit | LPC 1- GM 5.7L 92 HP | LPC-1_4072 | Vertical | No | 8.8 | 1200 | 10.83 | | | 220.69 | 0.25 | ☑ |
| Edit | OILLOAD-1 | OILLOAD-1 | Fugitive | No | 3 | | | | | | | ☑ |
| Edit | PWLOAD-1 | PWLOAD-1 | Fugitive | No | 3 | | | | | | | ☑ |
| Edit | PWTK-1_0224 | PWTK-1_0224 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | PWTK-2_0253 | PWTK-2_0253 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | 750 bbl Water Tank | PWTK-3_0137 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | ROAD-1 | ROAD-1 | Fugitive | No | 3 | | | | | | | ☑ |
| Edit | SSM | SSM | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | 750 bbl Crude Oil Tank | TK-1_0127 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | 750 bbl Crude Oil Tank | TK-2_0213 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | 750 bbl Crude Oil Tank | TK-3_0194 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | ECD-1_6242 | ECD-1_6242 | Vertical | No | 20 | 1400 | 754.2 | | | 60 | 4 | ☑ |
| Edit | LPC-2_0693 | LPC-2_0693 | Fugitive | No | 3 | | | | | | | ☑ |
| Edit | LPC-3_0680 | LPC-3_0680 | Fugitive | No | 3 | | | | | | | ☑ |
| Edit | ULPS-1_0640 | ULPS-1_0640 | Fugitive | No | 30 | | | | | | | ☑ |

Add Stack Conditions to Select one Add

**Comments** (2000 character maximum)

## Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

☐ **By marking this table as intentionally left blank, you certify that the Total and individual HAPs for this facility are less than 1 ton per year.**

Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.

**GCPs:** Report the potential emission rate for each HAP from each HAP emitting emission unit listed in Table 2A. For each emission unit, HAPs shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Emissions less than 0.0001 lb/hr or 0.0001 tpy and emission units that do not emit HAPs shall be omitted from the table. Each facility-wide Individual HAP total and the facility-wide Total HAPs is the sum of all HAP sources entered in the Table. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAA. Include tank-flashing emission estimates of HAP in this table.

**NOIs:** Report the individual and/or Total HAPs for each piece of equipment in Table 2A, only if the facility total for that pollutant is greater than or equal to 1 tpy.

| Edit | Unit No. | Total HAPs | | Benzene HAP | | Hexane HAP | | Toluene; (Methyl benzene) HAP | | | | | | | | | | | | | | | | | | | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | FL-1_0538 | 2.42 | 5.79 | 0.13 | 0.21 | 2.26 | 5.40 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | FUG-1 | 0.13 | 0.58 | 0.004 | 0.020 | 0.11 | 0.49 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | HT-1_6711 | 0.006 | 0.027 | | | 0.006 | 0.025 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | LPC-1_4072 | 0.003 | 0.1 | 0.001 | 0.006 | | | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | OILLOAD-1 | 13.28 | 0.21 | 0.47 | 0.007 | 12.42 | 0.19 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | PWLOAD-1 | 1.05 | 0.24 | 0.57 | 0.13 | 0.002 | 0.001 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | PWTK-1_0224 | 0.30 | 0.46 | 0.15 | 0.22 | 0.019 | 0.044 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | PWTK-2_0253 | 0.30 | 0.46 | 0.15 | 0.22 | 0.019 | 0.044 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | PWTK-3_0137 | 0.30 | 0.46 | 0.15 | 0.22 | 0.019 | 0.044 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | TK-1_0127 | 0.46 | 0.18 | 0.016 | 0.006 | 0.43 | 0.17 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | TK-2_0213 | 0.46 | 0.18 | 0.016 | 0.006 | 0.43 | 0.17 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | TK-3_0194 | 0.46 | 0.18 | 0.016 | 0.006 | 0.43 | 0.17 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | ECD-1_6242 | 1.36 | 0.54 | 0.047 | 0.019 | 1.27 | 0.51 | | | | | | | | | | | | | | | | | | | | | ☑ |
| | **Totals** | 20.53 | 9.41 | 1.72 | 1.07 | 17.41 | 7.26 | 0.0 | 0.0 | | | | | | | | | | | | | | | | | | | |

Add Stack Emissions to Select one Add

**Comments** (2000 character maximum)

## Table 2-J: Fuel Usage

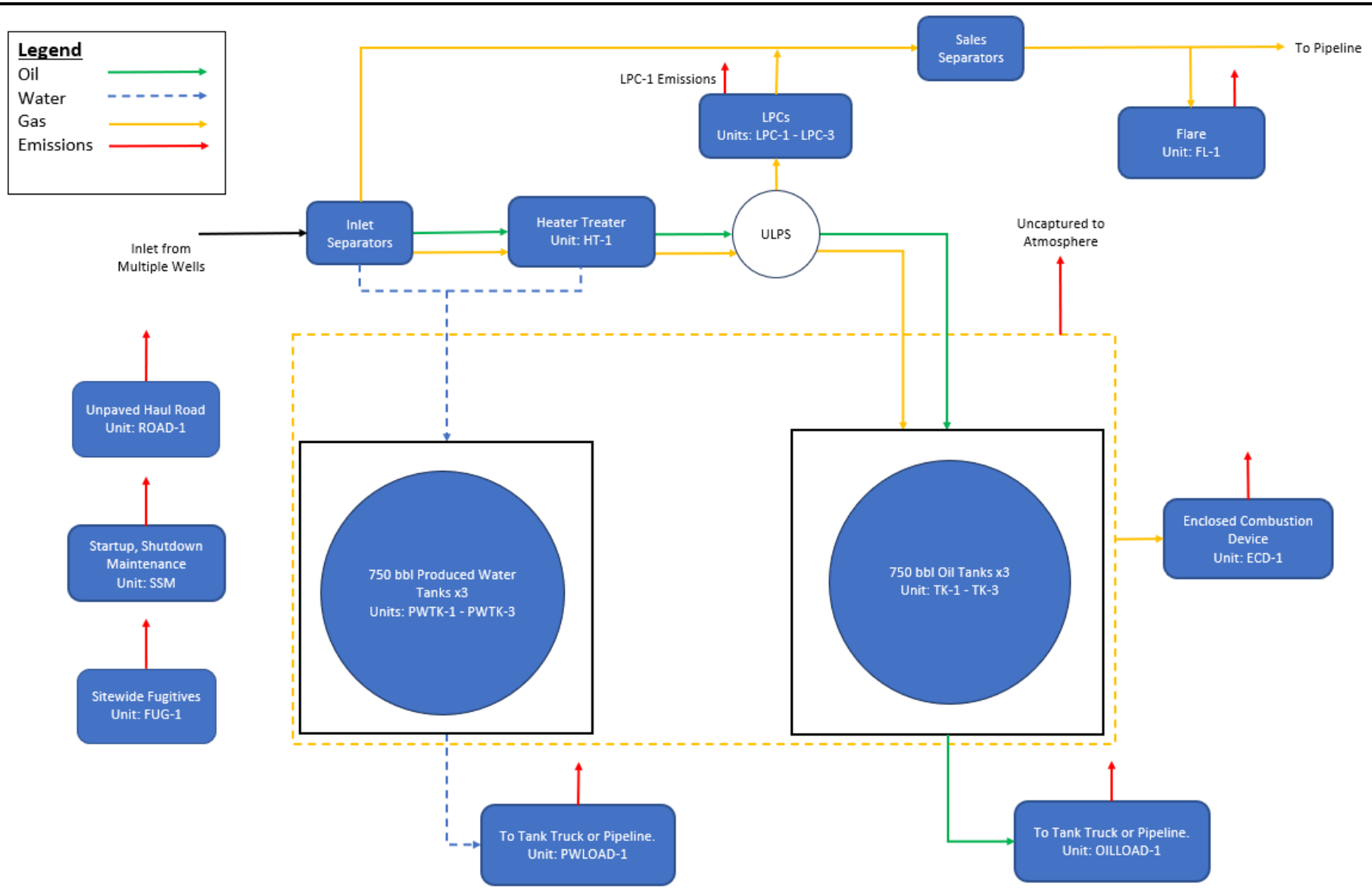
☐ **This Table was intentionally left blank.**

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Specify fuel characteristics and usage. This information should be for fuel used to operate the equipment (e.g. the pilot) not the amount of gas or fuel processed.

| Edit | Unit No. | Fuel Type (No. 2 Diesel, Natural Gas, Coal, ...) | Specify Units | | | | | Complete |
|---|---|---|---|---|---|---|---|---|
| | | | Lower Heating Value | Hourly Usage | Annual Usage (maximum) | % Sulfur | % Ash | |
| Edit | FL-1_0538 | Natural Gas | 1116.49 BTU/SCF | | 1.14 MM SCF/y | | | ☑ |
| Edit | HT-1_6711 | Natural Gas | 1116.49 BTU/SCF | | 23.54 MM SCF/y | | | ☑ |
| Edit | LPC-1_4072 | Natural Gas | 1116.49 BTU/SCF | | 6.32 MM SCF/y | | | ☑ |
| Edit | ECD-1_6242 | Natural Gas | 1116.49 BTU/SCF | | 1.14 MM SCF/y | | | ☑ |

**Comments** (2000 character maximum)




RESOLUTE COMPLIANCE, LLC
Purposeful Solutions. Unwavering Service.

**Devon Energy Production Company, LP**
**Broadside 12 Facility 2**
**Lea County, NM**

## Process Flow Diagram

**Project No. Env-Devon-Broadside 12 Facility 2**
**Report No. NOI-0011**
**Date: October 2024**

**Section 3**

New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico, 87505

Phone (505) 476-4300
Fax (505) 476-4375
www.env.nm.gov/aqb

**AQB ePermitting Portal**

# Abbreviated Application (Notice of Intent)

☒ 1. I understand that I must submit the hard copy check and required Payment Information Form for all AQB ePermitting Portal Submittals before it will be assigned, and the 30-day review period begins.

☒ 2. I understand the AQB ePermitting Portal is a new program and I will use the Request NMED Support function in the Portal to: request help, report issues (bugs), and to provide my constructive feedback for improving the Portal.

# Section 1

## Facility Name or Facility Type Change for Modifications

Fill out this section if requesting a change to the facility name or facility type that appears in the ePermitting Portal. These items cannot be updated through the Portal and will be corrected as part of the review of your permit.

Check the appropriate box(es) and provide complete information in the table.

☒ 1. Changing facility name. (Punctuation and special characters not allowed. Use “No123” instead of #123)
☐ 2. Changing facility type.

| | | | |
|---|---|---|---|
| **1a** | **Current Facility Name:**<br>Devon – Broadside 12 Facility 2 | **1b** | **New Facility Name:**<br>Broadside 12 Facility 2 |
| **2a** | **Current Facility Type:**<br>☐ Production Site<br>☐ Tank Battery<br>☐ Compressor Station<br>☐ Natural Gas Plant<br>☐ Reinjection facility<br>☐ Well head<br>☐ Misc Oil and Gas<br>☐ Amine Plant<br>☐ Energy Support Facility<br>☐ Other, please specify: _____ | **2b** | **New Facility Type:**<br>☐ Production Site<br>☐ Tank Battery<br>☐ Compressor Station<br>☐ Natural Gas Plant<br>☐ Reinjection facility<br>☐ Well head<br>☐ Misc Oil and Gas<br>☐ Amine Plant<br>☐ Energy Support Facility |

New Mexico Environment Department
Air Quality Bureau
Permitting Section
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505-1816

Phone: (505) 476-4300
Fax: (505) 476-4375
www.env.nm.gov/air-quality/

**For Department use only:**

# Electronic Permitting Application

**Use this application for NOI and GCP-Oil and Gas Permits.**

Use this application for: the initial application, modifications, revisions and when converting from another permit type. Please fill out all sections so that they have check marks and attach all required documents for review. Coordination with AQB is encouraged for first time users. Please use the Request NMED Support button if you would like to set up a walk through.

## Section 1 - Facility Information

**Section 1-A: Company Information -**
**Last modified by Kimbrell, Leslee on 10/22/24 at 11:56:41.**

| | | | |
|---|---|---|---|
| 1 | **Facility Name:** Devon - Broadside 12 Facility 2 | AI # (if known): 40140 | Updating permit #: 9357 |
| a | SIC Code: 1311 - Crude petroleum and natural gas<br>NAICS Code: 21112 - Crude Petroleum Extraction<br>Facility Type: 146 - Oil & Gas  Secondary Facility Type: 272 - O&G-Production Facility | Reset Selections | |
| 2 | **Company Name (Owns facility):** Devon Energy Production Company LP  Update **EXISTING** | Phone: 405-235-3611 | Fax: 405-552-4550 |
| a | Mailing Address: 333 West Sheridan Avenue  Address 2:  City: Oklahoma City  State: Oklahoma  ZIP Code: 73102 | | |
| 3 | **Billing Party:** Devon Energy Production Company LP  New Update Remove **EXISTING** | | |
| a | Mailing Address: 333 West Sheridan Avenue  Address 2:  City: Oklahoma City  State: Oklahoma  ZIP Code: 73102  Phone: 405-235-3611  Fax: 405-552-4550 | | |
| 4 | **Consultant Company:** Resolute Compliance LLC  New Update Remove **EXISTING** | | |
| a | Mailing Address: PO Box 970  Address 2:  City: Royse City  State: Texas  ZIP Code: 75189  Phone: 817-821-6526  Fax: | | |
| 5 | **Consultant / Preparer Contact:** Find Existing By Email Address:  Look Up New Update Remove **UPDATED**<br>First Name: Kayla  M.I.:  Last Name: Curtis  Title: Environmental Manager | Phone: 817-821-6526  Fax:<br>Email: kc@resolutecompliance.com | |
| a | Mailing Address: PO Box 970  Address 2:  City: Royse City  State: Texas  ZIP Code: 75189 | | |
| 6 | **Plant Operator Company:** Devon Energy Production Company LP  Update **EXISTING** | | |
| a | Plant Operator Company Address: 333 West Sheridan Avenue  Address 2:  City: Oklahoma City  State: Oklahoma  ZIP Code: 73102  Phone: 405-235-3611  Fax: 405-552-4550 | | |
| b | **Plant Operator Contact:** Find Existing By Email:  Look Up New Update Remove **EXISTING**<br>First Name: Clarence  M.I.:  Last Name: McDonald  Title: Operator | Phone: 405-552-7977  Fax:<br>Email: peter.mcdonald@dvn.com | |
| c | Mailing Address: 333 West Sheridan Avenue  Address 2:  City: Oklahoma City  State: Oklahoma  ZIP Code: 73102 | | |
| 7 | **Air Permit Contact:** Find Existing By Email Address:  Look Up New Update Remove **EXISTING** | | |
| a | First Name: Aaron  M.I.:  Last Name: Yotter  Title: EHS Compliance Specialist | Phone: 405-228-7270  Fax:<br>Email: aaron.yotter@dvn.com | |
| b | Mailing Address: 333 West Sheridan Ave  Address 2:  City: Oklahoma City  State: Oklahoma  ZIP Code: 73102-5010 | | |

## Section 1-C: Facility Input Capacity & Production Rate - Devon - Broadside 12 Facility 2

**Last modified by Kimbrell, Leslee on 10/22/24 at 13:19:41.**

Enter the maximum hourly, daily, and annually throughput of oil, gas, natural gas liquids (NGL), and produced water.

| | | | | |
|---|---|---|---|---|
| 1 | **Oil** | | | |
| a | Current: | Hourly: 625 bbl/h | Daily: 15000 bbl/d | Annually: 2372500 bbl/y |
| b | Proposed | Hourly: 104.17 bbl/h | Daily: 1200 bbl/d | Annually: 438000 bbl/y |
| 2 | **Natural Gas** | | | |
| a | Current | Hourly: 1458.33 M SCF/h | Daily: 35 MM SCF/d | Annually: 6205 MM SCF/y |
| b | Proposed | Hourly: 333.33 M SCF/h | Daily: 4400 M SCF/d | Annually: 1606 MM SCF/y |
| 3 | **Natural Gas Liquids** | | | |
| a | Current | Hourly: | Daily: | Annually: |
| b | Proposed | Hourly: | Daily: | Annually: |
| 4 | **Produced Water** | | | |
| a | Current | Hourly: 1458.33 bbl/h | Daily: 35000 bbl/d | Annually: 6205000 bbl/y |
| b | Proposed | Hourly: 187.50 bbl/h | Daily: 2400 bbl/d | Annually: 876000 bbl/y |

## Section 1-D: Facility Location Information - Devon - Broadside 12 Facility 2

**Last modified by Kimbrell, Leslee on 10/22/24 at 11:43:40.**

| | | |
|---|---|---|
| 1 | County: Lea | Elevation (ft): 3606 |
| 2 | UTM Zone: ○ 12 or ◉ 13 | Datum: ◉ NAD 83 ○ WGS 84 |
| a | UTM E (in meters, to nearest 10 meters): 639,640 | UTM N (in meters, to nearest 10 meters): 3,566,440 |
| b | Latitude: 32.225931 dec deg. N | Longitude: -103.518415 dec deg. W |
| 3 | Facility/Plant Address: 20.7 mi WNW of Jal<br>(If no facility street address, leave blank) | City: Jal<br>State: New Mexico<br>ZIP Code: 88252<br>District: 004 - IV<br>Field Office: Select one |
| 4 | The facility is 20.7 miles NW of Jal (nearest town). | |
| 5 | Detailed Driving Instructions from nearest NM town (attach a road map if necessary):<br>From the intersection of S 3rd St. and NM-128 W, go W on NM-128 W for 20.4 mi. Go north on Delaware Basin Rd for 1.0 mi. Go west on lease road for 0.4 mi to site on north side of road. | |
| 6 | Status of land at facility: Federal - BLM | |
| 7 | Select nearest Class I area: Class I - Carlsbad Caverns National Park | |
| 8 | Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 80.4 km | |
| 9 | Is this a portable stationary source as defined in 20.2.72.7.X NMAC?<br>○ Yes ◉ No | |
| 10 | Will this facility operate in conjunction with other air regulated parties on the same property?<br>○ Yes ◉ No<br>If yes, what is the name and permit number (if known) of the other facility? | |

## Section 1-F - Current Facility Status - Devon - Broadside 12 Facility 2

**Last modified by Kimbrell, Leslee on 22-OCT-24.**

| | | | |
|---|---|---|---|
| 1 | Has this Facility already been constructed?<br>(●) Yes ( ) No | If yes, is it currently operating in New Mexico?<br>(●) Yes ( ) No | |
| 2 | Does this facility currently have a construction permit or Notice of Intent (NOI) (20.2.72 NMAC or 20.2.73 NMAC)?<br>(●) Yes ( ) No | If yes, the permit No or NOI No:<br>9357 | Will it remain active or not:<br>( ) Yes (●) No |
| 3 | Is this Registration in response to a Notice of Violation (NOV)?<br>( ) Yes (●) No<br>If so, provide current permit #: | If yes,NOV date: | NOV tracking No: |
| 4 | Facility is Notice of Intent | | |

**Table 2-A: Regulated Emission Sources**

| Unit Number[1] | Source Description | Manufacturer | Model # | Serial # | Combustion Type | Rated Capacity[3] | Permitted Capacity[3] | Date[2] of Manufacture or Reconstruction<br>Date[2] of Installation /Construction | Controlled by Unit #<br>Emissions vented to Stack # | Source Classification Code (SCC) | Disposition | Applicable State & Federal Regulation(s) (i.3. 20.x.x, JJJJ, ...) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FL-1 | Process Flare -LP 15.5 MMscfd | Zeeco | | TBD | | 15.50 MM SCF/d | 15.50 MM SCF/d | | | 3-10-001-60 | To Be Removed | NA |
| FL-1_0538 | HP-Flare_EQ000870538 | Zeeco | AFDS-4D/24-40-KO | 49713-002 | Flare | 15.50 MM SCF/d | 15.50 MM SCF/d | 01/01/21<br>02/01/22 | NA<br>FL-1 | 3-10-001-60 | To Be Revised | NA |
| FUG-1 | Sitewide Fugitives | NA | NA | NA | | | | | NA<br>FUG-1 | 3-10-888-11 | To Be Revised | 40 CFR 60 Subpart OOOOa |
| HT-1_6711 | Heater Treater_EQ000696711 | Cimmaron Energy Inc | NA | M-13389 | | 3.00 MM BTU/h | 3.00 MM BTU/h | 12/01/20<br>02/01/22 | NA<br>HT-1 | 3-10-004-04 | To Be Revised | NA |
| LPC-1_4072 | GM 5.7L 92 HP Engine_EQ000184072 | GM | 5.7L | 10CHMM405270003 | | 92.00 hp | 92.00 hp | 05/01/14<br>02/01/22 | NA<br>LPC-1 | 2-02-002-53 | To Be Revised | 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ |
| OILLOAD-1 | Crude Loading | NA | NA | NA | | 18396000 gal/y | 18396000 gal/y | | NA<br>OILLOAD-1 | 4-06-001-32 | To Be Revised | NA |
| PWLOAD-1 | Water Loading | NA | NA | NA | | 36792000.00 gal/y | 36792000.00 gal/y | | NA<br>PWLOAD-1 | 4-06-001-32 | To Be Revised | NA |
| PWTK-1_0224 | 750 bbl Water Tank_EQ000870224 | Angelina Tank & Mfg | NA | 71155 | | 750.00 bbl | 750.00 bbl | 02/01/21<br>02/01/22 | ECD-1<br>PWTK-1/ ECD-1 | 4-04-003-15 | To Be Revised | NA |
| PWTK-2_0253 | 750 bbl Water Tank_EQ000870253 | Angelina Tank & Mfg | NA | 71154 | | 750.00 bbl | 750.00 bbl | 02/01/21<br>02/01/22 | ECD-1<br>PWTK-2/ ECD-1 | 4-04-003-15 | To Be Revised | NA |
| PWTK-3_0137 | 750 bbl Water Tank_EQ000870137 | Angelina Tank & Mfg | NA | 71158 | | 750 bbl | 750 bbl | 02/01/21<br>02/01/22 | ECD-1<br>PWTK-3/ ECD-1 | 4-04-003-15 | To Be Revised | NA |
| ROAD-1 | Unpaved Haul Roads | NA | NA | NA | | | | | NA<br>ROAD-1 | 3-10-888-11 | To Be Revised | NA |
| SSM | Startup,shutdown, maintenance | NA | NA | NA | | | | | NA<br>SSM | 3-10-888-11 | Existing (unchanged) | NA |
| TK-1_0127 | 750 bbl Crude Oil Tank_EQ000870127 | Angelina Tank & Mfg | NA | 71086 | | 750.00 bbl | 750.00 bbl | 07/01/20<br>02/01/22 | ECD-1<br>TK-1/ECD-1 | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa |
| TK-2_0213 | 750 bbl Crude Oil Tank_EQ000870213 | Angelina Tank & Mfg | NA | 71087 | | 750.00 bbl | 750.00 bbl | 07/01/20<br>02/01/22 | ECD-1<br>TK-2/ECD-1 | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa |
| TK-3_0194 | 750 bbl Crude Oil Tank_EQ000870194 | Angelina Tank & Mfg | NA | 71090 | | 750 bbl | 750 bbl | 07/01/20<br>02/01/22 | ECD-1<br>TK-3/ECD-1 | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa |
| ECD-1_6242 | Combustor_EQ001596242 | Mission | MC-4820 | 23285-E7 | ECD/VCU | 18.50 MM BTU/h | 18.50 MM BTU/h | 01/01/23<br>01/01/24 | NA<br>FL-1 | 3-10-001-60 | New/ Additional | 40 CFR 60 Subpart OOOOa |
| LPC-2_0693 | Electric LPC_EQ000870693 | Toshiba | B1504FLF3USH | 130401251 | | | | 04/01/13<br>02/01/22 | | 3-10-002-03 | New/ Additional | NA |
| LPC-3_0680 | Electric LPC_EQ000870680 | Toshiba | B1504FLF3USH | F1502255801 | | | | 11/01/15<br>02/01/22 | | 3-10-002-03 | New/ Additional | NA |
| ULPS-1_0640 | Ultra Low Pressure Separator_EQ000870640 | Forum | NA | GP490-01 | | | | 01/01/21<br>02/01/22 | NA<br>TK-1 - TK-3 | 3-10-001-29 | New/ Additional | NA |

[1] Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.

[2] Specify dates required to determine regulatory applicability. If only year or month is known use 01/01/yyyy or mm/01/yyyy.

[3] To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

## Table 2C - Emissions Reduction Equipment

☐ **This Table was intentionally left blank.**

In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions. **Also include reductions from process equipment in this table. Entering process equipment in this table is for data entry purposes only, the process vs control analysis will be used to determine process or control status for VRUs.** Only list control equipment for TAPs if the TAPs maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B.

| Reduction Equipment Unit No. | Reduction Equipment Description | Date Installed (mm/dd/yyyy). | Reduced Pollutants | Reducing Emissions for Unit Numbers | Efficiency (% Reduction by Weight) | Method used to estimate reduction | Reduction Type |
|---|---|---|---|---|---|---|---|
| CAT-1 | NSCR (Non-Selective Catalytic Reduction) | | Carbon Monoxide | LPC-1_4072 | 81 | Design calculation | PRIMARY |
| CAT-1 | NSCR (Non-Selective Catalytic Reduction) | | Nitrogen Dioxide | LPC-1_4072 | 96 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | PWTK-1_0224 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Total HAP | PWTK-1_0224 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | PWTK-2_0253 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Total HAP | PWTK-2_0253 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Total HAP | PWTK-3_0137 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | PWTK-3_0137 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | TK-1_0127 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Total HAP | TK-1_0127 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Total HAP | TK-2_0213 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | TK-2_0213 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Total HAP | TK-3_0194 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | TK-3_0194 | 98 | Design calculation | PRIMARY |

How to complete the table: In the drop down, select regulated sources from Table 2A where emissions are reduced and click "Add." Then add reduced pollutants and associated reduction devices for each. If a pollutant has emissions reduced by more than one device please add a line for each device and label them as primary, secondary, tertiary. Click "Edit" to update reduced pollutants and devices for each regulated source.

Comments (4000 character maximum)

**List each reduction device and all sources they serve, e.g. FL-1: Oil tanks 1-4, loading, VRU downtime. FL-2: compressor and sales downtime. For NOIs, indicate the enforceability behind each device or clarify if it is voluntary and no credit is being claimed for the reduction, e.g., FL-1: Oil tanks 1-8 (OOOOa). FL-1: Loading (voluntary, no emissions reduction credit claimed.)**

CAT-1: LPC-1 (JJJJ, ZZZZ)
ECD-1: Oil Tanks 1-3 (OOOOa); Produced Water Tanks 1-3 (voluntary, no emission reduction credit claimed)
FL-1: stranded gas during pipeline downtime (voluntary, no emission reduction credit claimed)

## Table 2-D: Maximum Emissions (under normal operating conditions)

**This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| FL-1_0538 | 0.020 | 0.088 | 0.045 | 0.20 | 0.035 | 0.15 | - | - | - | - | - | - | - | - | - | - |
| FUG-1 | - | - | - | - | 1.34 | 5.85 | - | - | - | - | - | - | - | - | - | - |
| HT-1_6711 | 0.32 | 1.41 | 0.27 | 1.18 | 0.018 | 0.078 | 0.002 | 0.008 | - | - | 0.024 | 0.11 | - | - | - | - |
| LPC-1_4072 | 2.84 | 12.44 | 2.23 | 9.77 | 0.59 | 2.57 | 0.0005 | 0.0021 | 0.015 | 0.066 | 0.015 | 0.066 | - | - | - | - |
| OILLOAD-1 | - | - | - | - | 137.36 | 2.13 | - | - | - | - | - | - | 0.006 | 0.0001 | - | - |
| PWLOAD-1 | - | - | - | - | 1.34 | 0.42 | - | - | - | - | - | - | 0.011 | 0.003 | - | - |
| PWTK-1_0224 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - |
| PWTK-2_0253 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - |
| PWTK-3_0137 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - |
| ROAD-1 | - | - | - | - | - | - | - | - | 2.20 | 0.38 | 0.22 | 0.038 | - | - | - | - |
| SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-1_0127 | - | - | - | - | 200.79 | 80.80 | - | - | - | - | - | - | 0.009 | 0.003 | - | - |
| TK-2_0213 | - | - | - | - | 200.79 | 80.80 | - | - | - | - | - | - | 0.009 | 0.003 | - | - |
| TK-3_0194 | - | - | - | - | 200.79 | 80.80 | - | - | - | - | - | - | 0.009 | 0.003 | - | - |
| ECD-1_6242 | 0.020 | 0.088 | 0.045 | 0.20 | 0.035 | 0.15 | 0 | 0 | - | - | - | - | 0 | 0 | - | - |
| LPC-2_0693 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LPC-3_0680 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ULPS-1_0640 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Totals** | 3.2 | 14.03 | 2.59 | 11.35 | 746.3 | 260.8 | 0.0 | 0.01 | 2.22 | 0.45 | 0.26 | 0.21 | 0.05 | 0.03 | 0.0 | 0.0 |

**[1]Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

Comments (2000 character maximum)

## Table 2-E: Requested Allowable Emissions

Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Facility totals are a summation of all the emissions entered for equipment in this table plus total tpy SSM emissions from Table 2F.
**GCP-O&G:** Combustion emissions from malfunction events are not allowed under this permit.

**NOI:** Malfunction emissions are not allowed under a Notice of Intent.

| Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| FL-1_0538 | 0.020 | 0.088 | 0.045 | 0.20 | 0.035 | 0.15 | - | - | - | - | - | - | - | - | - | - |
| FUG-1 | - | - | - | - | 1.34 | 5.85 | - | - | - | - | - | - | - | - | - | - |
| HT-1_6711 | 0.32 | 1.41 | 0.27 | 1.18 | 0.018 | 0.078 | 0.002 | 0.008 | - | - | 0.024 | 0.11 | - | - | - | - |
| LPC-1_4072 | 0.57 | 2.49 | 0.97 | 4.26 | 0.59 | 2.57 | 0.0005 | 0.0021 | 0.015 | 0.066 | 0.015 | 0.066 | - | - | - | - |
| OILLOAD-1 | - | - | - | - | 137.36 | 2.13 | - | - | - | - | - | - | 0.006 | 0.0001 | - | - |
| PWLOAD-1 | - | - | - | - | 1.34 | 0.42 | - | - | - | - | - | - | 0.011 | 0.003 | - | - |
| PWTK-1_0224 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - |
| PWTK-2_0253 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - |
| PWTK-3_0137 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - |
| ROAD-1 | - | - | - | - | - | - | - | - | 2.20 | 0.38 | 0.22 | 0.038 | - | - | - | - |
| SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-1_0127 | - | - | - | - | 4.02 | 1.62 | - | - | - | - | - | - | 0.0002 | 0.0001 | - | - |
| TK-2_0213 | - | - | - | - | 4.02 | 1.62 | - | - | - | - | - | - | 0.0002 | 0.0001 | - | - |
| TK-3_0194 | - | - | - | - | 4.02 | 1.62 | - | - | - | - | - | - | 0.0002 | 0.0001 | - | - |
| ECD-1_6242 | 3.35 | 0.95 | 7.52 | 2.14 | 11.84 | 4.91 | 0.022 | 0.045 | - | - | - | - | 0.001 | 0.0002 | - | - |
| LPC-2_0693 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LPC-3_0680 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ULPS-1_0640 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SSM Totals** | 0.27 | 0.66 | 0.61 | 1.48 | 24.01 | 67.88 | 0.01 | 0.01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Totals** | 4.53 | 5.6 | 9.41 | 9.26 | 191.8 | 95.9 | 0.03 | 0.07 | 2.22 | 0.45 | 0.26 | 0.21 | 0.03 | 0.02 | 0.0 | 0.0 |

**[1]Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

Comments (2000 character maximum)

## Table 2-F: Startup, Shutdown, and Routine Maintenance (SSM) Emissions

**This table is intentionally left blank as all SSM emissions at this facility do not require an increase in Requested Allowables greater than those listed in Table 2-E.**

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)[2], including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). Provide emissions calculations for all SSM emissions reported in this table. Refer to the guidance "Startup, Shutdown, Maintenance Emissions in Permits" ( www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| FL-1_0538 | 0.27 | 0.66 | 0.61 | 1.48 | 24.01 | 57.88 | 0.005 | 0.012 | - | - | - | - | 0.002 | 0.004 | - | - |
| FUG-1 | | | | | | | | | | | | | | | | |
| HT-1_6711 | | | | | | | | | | | | | | | | |
| LPC-1_4072 | | | | | | | | | | | | | | | | |
| OILLOAD-1 | | | | | | | | | | | | | | | | |
| PWLOAD-1 | | | | | | | | | | | | | | | | |
| PWTK-1_0224 | | | | | | | | | | | | | | | | |
| PWTK-2_0253 | | | | | | | | | | | | | | | | |
| PWTK-3_0137 | | | | | | | | | | | | | | | | |
| ROAD-1 | | | | | | | | | | | | | | | | |
| SSM | - | - | - | - | - | 10.0 | - | - | - | - | - | - | - | - | - | - |
| TK-1_0127 | | | | | | | | | | | | | | | | |
| TK-2_0213 | | | | | | | | | | | | | | | | |
| TK-3_0194 | | | | | | | | | | | | | | | | |
| ECD-1_6242 | | | | | | | | | | | | | | | | |
| LPC-2_0693 | | | | | | | | | | | | | | | | |
| LPC-3_0680 | | | | | | | | | | | | | | | | |
| ULPS-1_0640 | | | | | | | | | | | | | | | | |
| **Totals** | 0.27 | 0.66 | 0.61 | 1.48 | 24.01 | 67.88 | 0.005 | 0.012 | 0.0 | 0.0 | 0.0 | 0.0 | 0.002 | 0.004 | 0.0 | 0.0 |

**[1] Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**[2]For instance, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in the table below. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.**

Comments (2000 character maximum)

## Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

☐ **By marking this table as intentionally left blank, you certify that the Total and individual HAPs for this facility are less than 1 ton per year.**

Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.

**GCPs:** Report the potential emission rate for each HAP from each HAP emitting emission unit listed in Table 2A. For each emission unit, HAPs shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Emissions less than 0.0001 lb/hr or 0.0001 tpy and emission units that do not emit HAPs shall be omitted from the table. Each facility-wide Individual HAP total and the facility-wide Total HAPs is the sum of all HAP sources entered in the Table. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAA. Include tank-flashing emission estimates of HAP in this table.

**NOIs:** Report the individual and/or Total HAPs for each piece of equipment in Table 2A, only if the facility total for that pollutant is greater than or equal to 1 tpy.

| Unit No. | Total HAPs | | Benzene HAP | | Hexane HAP | | Toluene; (Methyl benzene) HAP | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| FL-1_0538 | 2.42 | 5.79 | 0.13 | 0.21 | 2.26 | 5.40 | | | | | | | | | | | | | | | | | | | | |
| FUG-1 | 0.13 | 0.58 | 0.004 | 0.020 | 0.11 | 0.49 | | | | | | | | | | | | | | | | | | | | |
| HT-1_6711 | 0.006 | 0.027 | | | 0.006 | 0.025 | | | | | | | | | | | | | | | | | | | | |
| LPC-1_4072 | 0.003 | 0.1 | 0.001 | 0.006 | | | | | | | | | | | | | | | | | | | | | | |
| OILLOAD-1 | 13.28 | 0.21 | 0.47 | 0.007 | 12.42 | 0.19 | | | | | | | | | | | | | | | | | | | | |
| PWLOAD-1 | 1.05 | 0.24 | 0.57 | 0.13 | 0.002 | 0.001 | | | | | | | | | | | | | | | | | | | | |
| PWTK-1_0224 | 0.30 | 0.46 | 0.15 | 0.22 | 0.019 | 0.044 | | | | | | | | | | | | | | | | | | | | |
| PWTK-2_0253 | 0.30 | 0.46 | 0.15 | 0.22 | 0.019 | 0.044 | | | | | | | | | | | | | | | | | | | | |
| PWTK-3_0137 | 0.30 | 0.46 | 0.15 | 0.22 | 0.019 | 0.044 | | | | | | | | | | | | | | | | | | | | |
| TK-1_0127 | 0.46 | 0.18 | 0.016 | 0.006 | 0.43 | 0.17 | | | | | | | | | | | | | | | | | | | | |
| TK-2_0213 | 0.46 | 0.18 | 0.016 | 0.006 | 0.43 | 0.17 | | | | | | | | | | | | | | | | | | | | |
| TK-3_0194 | 0.46 | 0.18 | 0.016 | 0.006 | 0.43 | 0.17 | | | | | | | | | | | | | | | | | | | | |
| ECD-1_6242 | 1.36 | 0.54 | 0.047 | 0.019 | 1.27 | 0.51 | | | | | | | | | | | | | | | | | | | | |
| **Totals** | 20.53 | 9.41 | 1.72 | 1.07 | 17.41 | 7.26 | 0.0 | 0.0 | | | | | | | | | | | | | | | | | | |

Comments (2000 character maximum)

## Table 2-J: Fuel Usage

☐ **This Table was intentionally left blank.**

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Specify fuel characteristics and usage. This information should be for fuel used to operate the equipment (e.g. the pilot) not the amount of gas or fuel processed.

| Unit No. | Fuel Type (No. 2 Diesel, Natural Gas, Coal, ...) | Specify Units | | | | |
|---|---|---|---|---|---|---|
| | | Lower Heating Value | Hourly Usage | Annual Usage (maximum) | % Sulfur | % Ash |
| FL-1_0538 | Natural Gas | 1116.49 BTU/SCF | | 1.14 MM SCF/y | | |
| HT-1_6711 | Natural Gas | 1116.49 BTU/SCF | | 23.54 MM SCF/y | | |
| LPC-1_4072 | Natural Gas | 1116.49 BTU/SCF | | 6.32 MM SCF/y | | |
| ECD-1_6242 | Natural Gas | 1116.49 BTU/SCF | | 1.14 MM SCF/y | | |

Comments (2000 character maximum)

## Table 2-L: Tank Data

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Include appropriate tank-flashing modeling input data. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

| Unit No. | Date Installed | Materials Stored | Seal Type (refer to Table 2-LR) | Roof Type (refer to Table 2-LR) | Capacity | | Diameter (M) | Vapor Space (M) | Color (from Table VI-C) | | Paint Condition (from Table VI-C) | Annual Throughput (gal/yr) | Turn-overs (per year) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | (bbl) | ($M^3$) | | | Roof | Shell | | | |
| PWTK-1_0224 | 02/01/2022 | Produced Water | | Vertical - Fixed Roof | 750.00 bbl | | 4.88 | | Medium Gray | Medium Gray | fair | 12264000 | 452.33 |
| PWTK-2_0253 | 02/01/2022 | Produced Water | | Vertical - Fixed Roof | 750.00 bbl | | 4.88 | | Medium Gray | Medium Gray | fair | 12264000 | 452.33 |
| PWTK-3_0137 | 02/01/2022 | Produced Water | | Vertical - Fixed Roof | 750 bbl | | 4.88 | | Medium Gray | Medium Gray | fair | 12264000 | 452.33 |
| TK-1_0127 | 02/01/2022 | Crude Oil | | Vertical - Fixed Roof | 750.00 bbl | | 4.88 | | Medium Gray | Medium Gray | fair | 6132000 | 226.33 |
| TK-2_0213 | 02/01/2022 | Crude Oil | | Vertical - Fixed Roof | 750.00 bbl | | 4.88 | | Medium Gray | Medium Gray | fair | 6132000 | 226.33 |
| TK-3_0194 | 02/01/2022 | Crude Oil | | Vertical - Fixed Roof | 750 bbl | | 4.88 | | Medium Gray | Medium Gray | fair | 6132000 | 226.33 |

Comments (2000 character maximum)

# Section 3
## Application Summary and Routine Operations

---

**NOI Summary:** Devon Energy Production Company, L.P. (Devon) owns and operates Broadside 12 Facility 2 (Facility), which is located 20.7 miles west-northwest of Jal in Lea County, New Mexico, under an Oil and Gas General Construction Permit (GCP-O&G). Three (3) 750 bbl oil tanks, three (3) 750 bbl water tanks, one (1) heater treater, one (1) ultra-low-pressure separator (ULPS), one (1) 92 hp natural gas fired low pressure compressor (LPC), two (2) electric LPCs, one (1) flare, and crude and water loading operations are currently authorized under GCP-O&G No. 9357.

Devon is adding one (1) enclosed combustor (ECD), routing water and oil tank emissions to one header controlled by the ECD, and updating production levels with updated representative analyses and transition from a GCP-O&G to a Notice of Intent (NOI).

To authorize the change in equipment and modifications to production at this Facility, Devon is submitting this initial NOI application, which has been prepared in accordance with the requirements set forth in NMAC 20.2.73.

**Process Summary**: Crude oil, natural gas, and produced water are piped to the Facility from producing wells in the surrounding oil field. Production liquid flows from the wells through inlet separators, then oil is processed in the heater treater (Units HT-1). Gas from the inlet separator is further processed through the sales separators and sent to the pipeline or the emergency flare (Unit No. FL-1) during periods of pipeline unavailability. However, because there are no state or federal requirements to control stranded gas, a VOC reduction credit is not taken in this application.

Water from the inlet separators and heater treaters flows into the water storage tanks (Units PWTK-1 - PWTK-3) and is later transferred offsite via pipeline or loading rack (Unit PWLOAD) if the pipeline is unavailable. The water storage tank vapors are routed to the combustor (Unit ECD-1) through the tank header. However, because there are no state or federal requirements to control the water tanks, a VOC reduction credit is not taken in this application.

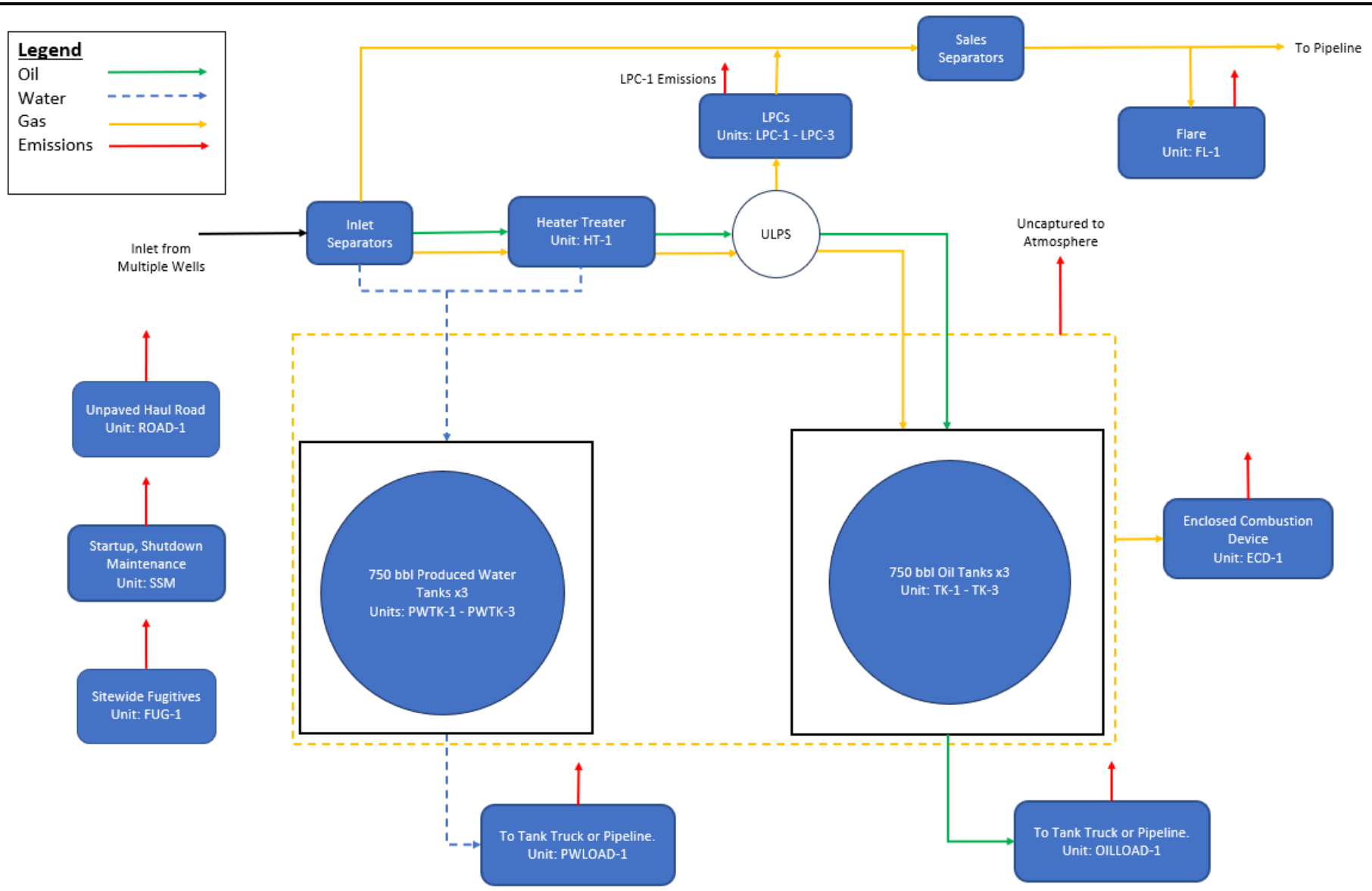
Oil and entrained gas from the heater treaters is processed further through a ULPS (Unit ULPS-1) before flowing to the oil storage tanks (Units TK-1 – TK-3) and is later transferred offsite via pipeline or loading rack (Unit OILLOAD) during periods of pipeline unavailability. The oil storage tank vapors are routed to the combustor through the tank header.

Gas from the ULPS is sent to the marketing sales gas line using the LPCs (Unit LPC-1 – LPC-3). Because the ULPS/LPC is a part of the process and separates gas just like all of the other separation equipment but at near atmospheric pressure, there is less gas entrained in the oil when it flows to the oil tanks. When the LPC is down for maintenance, gas from the ULPS flows to the tanks and is controlled by the ECD with the rest of the oil tank vapors.

The site was constructed after September 18, 2015, and has not been modified by OOOOb definition since December 6, 2022. The potential volatile organic compound (VOC) emission rate for each of the oil storage tanks is greater than 6 tons per year (TPY). Therefore, the oil storage tanks are subject to New Source Performance Standard (NSPS) Subpart OOOOa. Devon complies with the requirement to reduce emissions from each oil storage tank by 95% by operating a combustor. Approximately 98% of the vapors from the oil storage tanks will be captured and sent to the combustor with a minimum 98% destruction efficiency.

**Routine or predictable emissions during Startup, Shutdown, and Maintenance (SSM):** Check the appropriate SSM box below. SSM emissions from production sites could include but are not limited to VOC venting of compressor blowdowns, pigging, maintenance downtime of VRU, or site-specific combustion SSM emissions.

☐ No SSM emissions are expected from routine operations.
☒ Applicant requests up to 10 tpy of VOC SSM emissions.
☒ Applicant requests site specific VOC SSM and those emissions are included in Section 4.
Provide an overview: Uncontrolled VOC from stranded gas sent to the flare when the pipeline is unavailable.
☒ Applicant requests site specific combustion SSM and those emissions are included in Section 4.
Provide an overview: Combustion of stranded gas sent to the flare when the pipeline is unavailable.




RESOLUTE COMPLIANCE, LLC
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**Devon Energy Production Company, LP**
**Broadside 12 Facility 2**
**Lea County, NM**

## Process Flow Diagram

**Project No. Env-Devon-Broadside 12 Facility 2**
**Report No. NOI-0011**
**Date: October 2024**

**Section 3**

# Section 4
## All Calculations and Emissions Summary

---

### *Air Emissions Calculation Tool (AECT)*

The AECT is required to be used with this NOI Quick Form. If the AECT for a piece of equipment is under development, provide calculations. www.env.nm.gov/air-quality/air-emissions-calculation-tool-aect/

### *NOI representations must demonstrate enforceability of any reductions claimed to reduce the Potential Emission Rate (PER) or Potential to Emit (PTE).*

PER definition in NMAC 20.2.73.7 NMAC: "Potential emission rate" means the emission rate of a source at its maximum capacity to emit a regulated air contaminant under its physical and operational design, provided any physical or operational limitation on the capacity of the source to emit a regulated air contaminant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its physical and operational design only if the limitation or the effect it would have on emissions is enforceable by the department pursuant to the Air Quality Control Act or the federal act."

PTE definition in NMAC 20.2.73.7 NMAC: "Potential to emit" means the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design; any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is federally enforceable; the potential to emit for nitrogen dioxide shall be based on total oxides of nitrogen.

### *20.2.50 NMAC (Part 50)*

The Oil and Gas Sector – Ozone Precursor Pollutants regulation 20.2.50 NMAC (Part 50) establishes emission standards for volatile organic compounds (VOC) and oxides of nitrogen (NOx) for oil and gas production, processing, compression, and transmission sources. The reductions required by Part 50 may be included in PER calculations. However, the reductions required by Part 50 **may not** be included in PTE calculations. Part 50 is not federally enforceable, but it does establish limitations that are enforceable pursuant to the New Mexico Air Quality Control Act. The Title V Operating Permit applicability in 20.2.70 NMAC is based on PTE. When determining Title V major source threshold status, calculations at NOI-only facilities cannot claim reductions required by Part 50.

### *Tank Emissions Calculations*

The information provided to the AQB shall include a discussion of the method used to estimate tank-flashing emissions, accuracy of the model, the input and output summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Pro-Max or Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation. For each crude oil storage tank, identify if the tanks are in series or in parallel.

For tank and loading emission calculations, the annual throughput used for calculations is not required to be the daily throughput times 365 days. The annual throughput of the facility used for calculations must be consistent throughout the application, and a brief rationale should be included in the note sections on the appropriate pages of the AECT.

For tanks subject to federal regulations that require controls (i.e., NSPS OOOO or NSPS OOOOa), applicants may represent tank controls as two scenarios to provide flexibility. Some facilities will have a vapor recovery unit (VRU) installed initially but may later replace the VRU with a flare due to changes in production levels. Representing **both** scenarios in the NOI application will allow the company to replace the VRU with a flare without submitting a revision to the NOI to the Department. To be eligible for this flexibility, both the VRU and flare must be compliant with the federal regulations that require the control of the tanks. Represent both scenarios using the AECT and include comments to explain the requested flexibility.

Represent the worst-case scenario when filling out the emission tables in the Portal. Provide a process flow diagram and a written process description for each scenario. Represent both scenarios using the AECT and include comments to explain the requested flexibility.

### *Heater Calculations:*

Heaters, heated separators, and heater treaters may be represented as a combined maximum heat input, provided that each individual unit is rated less than 100 MMBTU/hr each. This will allow applicants flexibility in the number and size of units installed, while still demonstrating that the facility will comply with NOI limits. To utilize this flexibility, represent the requested total heat input for all these units in the AECT.

### *Engines*

Engine options may be represented in an NOI to provide flexibility. No more than 4 options are allowed and not more than 4 engines may be included. The engines may be in any combination that meets all state and federal regulations. When representing engine options, a table is required that specifically lists: the engine(s) in each option, the emissions for each engine, and a worst-case emission row which is the highest PER for each pollutant from all the engines in each option.

The composite row is entered in the Portal Tables. E.g. ENG-1*; use the comments box to explain the scenario represented. During minor source emissions inventory reporting you will be required to add and report on the individual engines that operated during that reporting year through AEIR.

Unless information is the same for all options:

- Enter “see list” for model and serial number, leave the manufacture date blank, add any regulations that apply to any engine in the option (2A).
- Do not enter anything in the reduction devices table (2C) but list federal controls for each engine in the comments box.
- Use the worse-case stack parameters between all the engine options (2H).
- Leave the fuel usage (2J) blank.

Engine specificity represented in the NOI must be sufficient to determine the emissions from the engine. Engines shall not be installed which do not meet the specificity provided in the NOI. Fill out a separate page in the AECT for each type of engine, the facility totals in the AECT will not be representative of what is requested in the PER Table.

Engine representations must include either:

- the enforceability and applicable parameters (e.g., 100 to 500 hp; JJJJ applicable engine manufactured after 1/1/2011);
- the manufacturer specification sheet (including installed catalysts) to support emission calculations;
- use AP-42 emission factors, or
- use uncontrolled emission factors.

### *SSM Calculations:*

The applicant must select one of the boxes in Section 2: SSM Summary. If applicant is submitting site specific calculations, include in this section.

### *Control Devices:*

In accordance with 20.2.73.200.B(7) NMAC, report all control devices and list each pollutant controlled by the control device in the Potential Emission Rate Table.

Voluntary flaring of emissions that are not federally enforceable (such as maintenance or loading emissions) should be represented **both** as flared emissions, and as uncombusted emissions. This is necessary to demonstrate that the products of combustion from flaring the emissions do not exceed the applicability threshold for a permit under 20.2.72.200.A(1) NMAC; and that the VOC emissions (if they are not flared) will not cause the site to be defined as a Title V Major Source under 20.2.70.7.4.R NMAC.

**Table 1: Check the equipment entered from the AECT Form Submitted in this Section:**

| Check box if present at facility | Equipment Type | Quantity |
|---|---|---|
| ☒ | **Engine(s)** | **1** |
| ☒ | **Heater(s)** | **1** |
| ☒ | **Haul Road** | **1** |
| ☒ | **Fugitives** | **1** |
| ☒ | **Tanks** | **6** |
| ☒ | **Flare(s)** | **1** |
| ☒ | **Loading** | **2** |
| ☒ | **ECD** | **1** |
| ☐ | **Thermal Oxidizer** | |
| ☐ | **VRU** | |
| ☒ | **ULPS/LPC** | **3** |

**Information Used to Determine Emissions**

**Check the box for each type of information submitted**:

☒ If manufacturer data are used, include specifications for emissions units and control equipment, including control efficiencies specifications and sufficient engineering data for verification of control equipment operation.

☒ For tank emissions, include a discussion of the method used to estimate tank-flashing emissions, accuracy of the model, the input and output summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.

☒ If requesting to use a representative gas sample, include a discussion of why the sample is representative for this facility and an explanation of how it is representative (e.g., same reservoir, same similar API gravity, similar composition).

**A site-specific sample is not available. The sample was pulled from the same reservoir as the Facility and is considered to be a representative analysis.**

# Section 6

## Applicable State & Federal Regulations

---

**Provide a discussion demonstrating compliance with applicable state & federal regulation**. All input cells should be filled in, even if the response is 'No' or 'N/A'.

In the "Justification" column, identify the criteria that are critical to the applicability determination, numbering each. For each unit subject to a state or federal regulation, after each listed unit, include the lowest level citation of the applicable regulation. For each unit, list the information necessary to verify the applicability of the regulation, including date of manufacture, date of construction, size (hp), and combustion type. Doing so will provide the applicability criteria for each unit.

---

**Example of a Table for Applicable State Regulations:**

| STATE REGU-LATIONS CITATION | Title | Federally Enforce-able | Applicability Information: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) | Applicant's Justification of Applicability | Applicant Identifies if Applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|---|
| 20.2.38 NMAC | Hydrocarbon Storage Facility | No | **Use the regulation link (left) then cut & paste applicable sections.** Note: for 20.2.38.112 NMAC, 65,000 gallons is 1547.62 barrels. | The facility includes a "New Tank Battery" since the tanks were constructed after January 1, 1975. 20.2.38.112, New Tank Battery – More Than 65,000 Gallons Capacity is potentially applicable. Since the total capacity of the crude oil tanks (Unit TK-1 - TK-3) is greater than 65,000 gallons, the Facility is subject to 20.2.38.112. The Facility meets the requirements of 20.2.38.112C by operating a ULPS where gas is sent to sales via electric and natural gas driven LPCs. In addition, the tank emissions are controlled by a combustor (Unit ECD-1). | TK-1 – TK-3 |
| 20.2.50 NMAC | Oil and Gas Sector – Ozone Precursor Pollutants | No | This regulation establishes emission standards for volatile organic compounds (VOC) and oxides of | Include the construction status of applicable units as "New", "Existing", "Relocation of Existing", or | Check the box for the subparts that are applicable: ☐ 113 – Engines and Turbines |

| STATE REGU-LATIONS CITATION | Title | Federally Enforce-able | Applicability Information: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) | Applicant's Justification of Applicability | Applicant Identifies if Applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|---|
| | | | nitrogen ($NO_x$) for oil and gas production, processing, compression, and transmission sources. | "Reconstructed" as defined by this Part in your justification:<br><br>LPC-1: existing < 1,000 hp<br><br>LPC-1 – LPC-3: screw driven compressors<br><br>HT-1: Existing <20MMBtu/hr<br><br>TK-1 – TK-3, PWTK-1 – PWTK-3: Existing <3 TPY<br><br>Oil Loadout: Existing<br><br>FL-1: Existing<br><br>ECD-1: New | ☐ 114 – Compressor Seals<br>☒ 115 – Control Devices and Closed Vent Systems<br>☒ 116 – Equipment Leaks and Fugitive Emissions<br>☐ 117 – Natural Gas Well Liquid Unloading<br>☐ 118 – Glycol Dehydrators<br>☐ 119 – Heaters<br>☒ 120 – Hydrocarbon Liquid Transfers<br>☐ 121 – Pig Launching and Receiving<br>☒ 122 – Pneumatic Controllers and Pumps<br>☐ 123 – Storage Vessels<br>☒ 124 – Well Workovers<br>☐ 125 – Small Business Facilities<br>☐ 126 – Produced Water Management Unit<br>☐ 127 – Flowback Vessels and Preproduction Operations |
| 20.2.61.109 NMAC | Smoke & Visible Emissions | No | Engines and heaters are Stationary Combustion Equipment. Specify units subject to this regulation. | The LPC engine, combustor, flare, and heater treater are Stationary Combustion Equipment. Devon will maintain compliance with the regulation by operating the combustion units according to manufacturer's recommendations to ensure complete combustion. | LPC-1, ECD-1, FL-1, HT-1 |
| 20.2.73 NMAC | NOI & Emissions Inventory Requirements | No | **NOI:** 20.2.73.200 NMAC applies (requiring a NOI application) | *Under 20.2.73.300.B(4) NMAC, NMED will periodically request emissions inventory reporting from minor source (expected each third year starting in 2020.)* | *Facility – applies to all NOI facilities.* |

| STATE REGU-LATIONS CITATION | Title | Federally Enforce-able | Applicability Information: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) | Applicant's Justification of Applicability | Applicant Identifies if Applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|---|
| | | | | *Under 20.2.73.300.B(1) NMAC, if fugitives result in PTE >100 tpy VOC, annual reporting is required.* | |
| 20.2.77 NMAC | New Source Performance | Yes | This is a stationary source which is subject to the requirements of 40 CFR Part 60, as amended through 2017.<br>Applies if any subpart applies. | The oil tanks (Units TK-1 - TK-3), the combustor (Units ECD-1), LPC engine (Init LPC-1) and fugitives (Unit FUG) are subject to NSPS OOOOa and are therefore, subject to 20.2.77.9. | TK-1 – TK-3, LPC-1, ECD-1, FUG |
| 20.2.78 NMAC | Emission Standards for HAPS | Yes | This facility emits hazardous air pollutants which are subject to the requirements of 40 CFR Part 61, as amended through 2017.<br>Applies if any subpart applies. | This Facility does not emit hazardous air pollutants which are subject to the requirements of 40 CFR Part 61, as amended through December 31, 2010. | N/A |
| 20.2.82 NMAC | MACT Standards for source categories of HAPS | Yes | This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63, as amended through 2017.<br>Applies if any subpart applies. | The LPC engine (Unit LPC-1) is subject to MACT ZZZZ and is therefore subject to 20.2.82.8. | LPC-1 |

**Example of a Table for Applicable Federal Regulations (This is not an exhaustive list):**

| FEDERAL REGULATIONS CITATION | Title | JUSTIFICATION: | Applicant's Justification of Applicability | Identify if applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|
| 40 CFR 50 | NAAQS | Defined as applicable at 20.2.70.7.E.11, Any national ambient air quality standard | The emission levels from the Facility are such that no exceedances of the NAAQS are expected. | Facility |
| NSPS 40 CFR 60, Subpart A | General Provisions | Applies if any other NSPS subpart applies. | The oil tanks (Units TK-1-TK-3), combustor (Unit ECD-1), LPC engine (Unit LPC-1), and fugitives (Unit FUG) are subject to NSPS OOOOa. | TK-1 – TK-3, LPC-1, ECD-1, FUG |
| NSPS 40 CFR Part 60 Subpart OOOO | Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375); centrifugal compressors (60.5380); reciprocating compressors (60.5385): controllers (60.5390); storage vessels (60.5395); equipment leaks (60.5400); sweetening units (60.5405).<br><br>**If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. Centrifugal Compressors 1a-3a are subject to the standards at 60.5380(a)(1) and (2) since we use a control device to reduce emissions)** | ☐ **Check this box if VRU is reducing Storage Vessel emissions and the facility is subject to the requirements under 60.5411(b) and (c)**<br><br>The Facility was constructed before but modified after September 18, 2015. | N/A |
| NSPS 40 CFR Part 60 Subpart OOOOa | Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375a); centrifugal compressors (60.5380a); reciprocating compressors (60.5385a): controllers (60.5390a); storage vessels (60.5395a); fugitive emissions at well sites and compressor stations (60.5397a); equipment leaks at gas plants (60.5400a); sweetening units (60.5405a).<br><br>**If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. Centrifugal Compressors 1a-3a are subject to the standards at 60.5380(a)(1) and (2) since we use a control device to reduce emissions)** | ☐ **Check this box if VRU is reducing Storage Vessel emissions and the facility is subject to the requirements under 60.5411a(b) and (c)**<br>The oil storage tanks at this location are subject to NSPS Subpart OOOOa because the tanks are affected facilities with VOC emissions greater than 6 tons per year per tank (60.5365a(e)). Devon will meet the 95% control requirement (60.5395a(a)(2)) by operating a combustor that meets the requirements of | TK-1-TK-3 ECD-1, FUG |

| FEDERAL REGULATIONS CITATION | Title | JUSTIFICATION: | Applicant's Justification of Applicability | Identify if applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|
| | | | 60.5412a(d)(1). Devon will also comply with the applicable control requirements under 60.5395a(b). Fugitive equipment components are subject to LDAR requirements. Devon will conduct routine fugitive leak monitoring using optical gas imaging (OGI) or EPA Method 21. | |
| NSPS 40 CFR Part 60 Subpart IIII | Standards of performance for Stationary Compression Ignition Internal Combustion Engines | See 40 CFR 60.4200(a) 1 through 4 to determine applicable category and state engine size, fuel type, and date of manufacture. | ☐ **Table 1 or Table 2 to Subpart IIII attached with emission standards applicable to each engine highlighted.** There are no sources that are subject to NSPS IIII. | N/A |

| FEDERAL REGULATIONS CITATION | Title | JUSTIFICATION: | Applicant's Justification of Applicability | Identify if applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|
| NSPS<br>40 CFR Part 60 Subpart JJJJ | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines | See 40 CFR 60.4230(a), 1 through 5 to determine applicable category and state engine size, fuel type, and date of manufacture. | ☐ **Table 1 to Subpart JJJJ is attached with emission standards applicable to each engine highlighted.**<br>LPC-1 is a non-emergency spark ignition internal combustion engine with a brake horsepower greater than 25 and less than 100.<br><br>Per § 60.4233(d), owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards for field testing in 40 CFR 1048.101(c) for their non-emergency stationary SI ICE.<br><br>Table 3 of § 1048.101(c) is attached with emission standards/requirements applicable to LPC-1 highlighted. | LPC-1 |
| MACT<br>40 CFR 63, Subpart A | General Provisions | Applies if any other subpart applies. | The LPC engine (Unit LPC-1) is subject to subject to MACT ZZZZ. | LPC-1 |
| MACT<br>40 CFR 63 Subpart ZZZZ | National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (**RICE MACT**) | Facilities are subject to this subpart if they own or operate a stationary RICE, except if the stationary RICE is being tested at a stationary RICE test cell/stand. | ☐ **Table 1, 2, 3, 4, 5, 6, and/or 7 to Subpart ZZZZ is attached with emission standards/requirements applicable to each engine highlighted.**<br>The LPC engine (Unit LPC-1) is subject to MACT ZZZZ and meets the requirements by complying with NSPS JJJJ per 63.6590(c)(1). | LPC-1 |

# APPENDIX K. NOI # 9134

Devon Energy Corporation
333 West Sheridan Ave.
Oklahoma City, OK 73102-5010

405 228 7270 Phone
www.devonenergy.com

February 16, 2021

New Mexico Environment Department
Air Quality Bureau, Permits Section
525 Camino de los Marquez, Ste. 1
Santa Fe, New Mexico 87505
(505) 476-4300

**RE: Notice of Intent to Construct**
**Broadside 1H Battery**
**Devon Energy Production Company, L.P.**

Dear Sir or Madam:

Devon Energy Production Company, L.P. (Devon) plans to construct Broadside 1H Battery (Facility), which will be located approximately 21.2 miles west-northwest of Jal in Lea County, New Mexico. The Facility will consist of four (4) oil tanks, two (2) water tanks, one (1) gunbarrel, one (1) heater treater, one (1) emergency flare, one (1) combustor, one (1) 203 hp combustion engine, and crude and water loading operations. The site will be an oil and gas production facility.

To authorize construction and operation of this Facility, Devon is submitting this Notice of Intent (NOI) to Construct application, which has been prepared in accordance with the requirements set forth in NMAC 20.2.73.

If you have any questions or comments, please feel free to contact me at (405) 228-7270.

Sincerely,

*Aaron Yotter*

Aaron Yotter
EHS Professional

Enc

# NOTICE OF INTENT TO CONSTRUCT
# BROADSIDE 1H BATTERY
# LEA COUNTY, NEW MEXICO

## FEBRUARY 2021

Submitted to:
**New Mexico Environment Department**
Air Quality Bureau, Permits Section
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505

Prepared for:
**Devon Energy Production Company, L.P.**
333 West Sheridan Avenue
Oklahoma City, Oklahoma 73102
405/228-7270

Prepared by:
**Altamira-US, LLC**
2301 E. Lamar Blvd., Suite 200
Arlington, Texas 76006
817/617-2675

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**Section 2: Application Summary and Routine Operations**

**Section 3: Process Flow Sheet**

**Section 4: All Calculations**

**Section 5: Map(s)**

**Section 6: Applicable State and Federal Regulations**

**Section 7: Certification**

| Mail Application To: | | For Department use only: |
|---|---|---|
| New Mexico Environment Department<br>Air Quality Bureau<br>Permits Section<br>525 Camino de los Marquez, Suite 1<br>Santa Fe, New Mexico, 87505<br><br>Phone: (505) 476-4300<br>Fax: (505) 476-4375<br>www.env.nm.gov/air-quality/ |  | |

# NOI Oil and Gas Quick Application

**Use this application only for oil and gas facilities registering under 20.2.73 NMAC**

Submit the entire application on a single CD (no copies of the CD are needed). Hard copies of Page 1 and 2, and Section 7 of this application are required.

**This application is being submitted as** (check all that apply)**:**

☐ **Updating** an existing registered facility. Provide NOI (or NPR/Permit) number:

☐ **Updating** an application currently under NMED review. Include this page and all pages that are being updated (no fee required).

**Construction Status:** ☐ Not Constructed ☐ Existing Permitted (or NOI) Facility ☒ Existing Non-permitted (or NOI) Facility

☒ **Acknowledgement that facilities with the following equipment may not use this application form and should use the Universal Application form:** glycol dehydrators, non-NMED deration method, and applications using emission calculation tools other than the Air Emission Calculation Tool (AECT) for regulated equipment.

☒ **Acknowledgement that this application contains the required AECT, which is required to be used to determine emissions from equipment:** https://www.env.nm.gov/air-quality/air-quality-oil-and-gas-noi-application-form/

**Acknowledgements:** ☐ I acknowledge that a pre-application meeting is available to me upon request

☒ $500 NOI Filing Fee enclosed ☒ Check No.: in the amount of $500

# Section 1 – Facility Information

## Section 1-A: Company Information

| | | | |
|---|---|---|---|
| | | AI No. (if known): | Updating Permit/NOI/NPR No.: |
| 1 | Facility Name:<br><br>Broadside 1H Battery | Plant primary SIC Code (4 digits): 1311<br><br>Plant NAICS code (6 digits): 211120 | |
| a | Facility Street Address (If no facility street address, provide directions from a prominent landmark): From Jal, travel on NM-128 W/W Kansas Ave for 20.4 miles. Turn right onto Delaware Basin Rd for 1 mile. Turn left on lease road for 0.9 miles and Facility will be on the right. | | |
| 2 | Plant Operator Company Name: Devon Energy Production Company, L.P. | Phone/Fax: (405) 228-7270 / NA | |
| a | Plant Operator Address: 333 West Sheridan Avenue, Oklahoma City, Oklahoma 73102 | | |
| b | Plant Operator's New Mexico Corporate ID or Tax ID: 73-1577174 | | |
| 3 | Plant Owner(s) name(s): Devon Energy Production Company, L.P. | Phone/Fax: (405) 228-7270 / NA | |
| a | Plant Owner(s) Mailing Address(s): 333 West Sheridan Avenue, Oklahoma City, Oklahoma 73102 | | |
| b | Plant Owner(s) name(s): Devon Energy Production Company, L.P. | Phone/Fax: (405) 228-7270 / NA | |
| c | Address: 333 West Sheridan Avenue, Oklahoma City, Oklahoma 73102 | E-mail: aaron.yotter@dvn.com | |
| 4 | ☐ Preparer:<br>☒ Consultant: Rita Zebian, Altamira-US, LLC | Phone/Fax: (817) 617-2675 / (817) 617-2683 | |

| | | |
|---|---|---|
| a | Mailing Address: 2301 E Lamar Blvd., Ste. 200, Arlington, TX 76006 | E-mail: rita.zebian@altamira-us.com |
| 5 | NOI Air Contact: Aaron Yotter | Title: EHS Professional |
| a | E-mail: aaron.yotter@dvn.com | Phone/Fax: (405) 228-7270 / NA |
| b | Mailing Address: 333 West Sheridan Avenue, Oklahoma City, Oklahoma 73102 | |

## Section 1-B: Single Source Determination and Source Status

| | |
|---|---|
| 1 | Is this facility a single source as defined in 20.2.73 NMAC? ☑ **Yes** ☐ **No** |
| 2 | Is this facility a Title V or PSD Source? Checking the "NO" box acknowledges and certifies that the Potential To Emit and the Potential Emission Rate of any regulated air contaminant is less than 100 tons per year. ☐ **Yes** ☑ **No** |

## Section 1-C: Facility Location Information

| | | |
|---|---|---|
| 1 | UTM Zone: ☐ 12 or ☒ 13 | County: Lea |
| 2 | Datum: ☐ NAD 27 ☒ NAD 83 ☐ WGS 84 | Elevation (ft): 3603 |
| a | UTM E (in meters, to nearest 10 meters): 638790 | UTM N (in meters, to nearest 10 meters): 3566420 |
| b | Latitude (deg., min., sec.): 32° 13' 32.89" | Longitude (deg., min., sec.): 103° 31' 37.46" |
| 3 | The facility is: 21.2 (distance) miles west-northwest (direction) of Jal (nearest town), zip code of nearest town 88252 | |
| 4 | Status of land (check one): ☒ Private ☐ Indian/Pueblo ☐ Federal BLM ☐ Federal Forest Service ☐ State Land | |
| 5 | Will this facility operate in conjunction with other air regulated parties on the same property? ☐ **Yes** ☑ **No**<br>If yes, what is the name and permit number (if known) of the other facility? | |

## Section 1-D: Other Facility Information

| | | | |
|---|---|---|---|
| 1 | Are there any current Notice of Violations (NOV), compliance orders, or any other compliance or enforcement issues related to this facility? ☐ **Yes** ☑ **No** If yes, specify: | | |
| a | If yes, NOV date or description of issue: | | NOV Tracking No: |
| b | Is this application in response to any issue listed in this section? ☐ **Yes** ☒ **No**<br>If Yes, provide the information below: | | |
| c | Document Title: | Date: | Requirement # (or page # and paragraph #): |

# Section 1-E – Submittal Requirements

Each 20.2.73 NMAC (**NOI**) application package shall consist of the following:

### Hard Copy Submittal Requirements:

1) Hard copies of Pages 1-2, and the signed Certification Page are required.
2) The entire NOI application should be submitted electronically on compact disk (CD).

### Electronic Submittal Requirements [in addition to the required hard copy]:

1) A single Microsoft Office compatible file format (Word) and PDF document of this application.
2) A single version of the Air Emissions Calculation Tool (AECT).
3) The electronic file names shall be a maximum of 25 characters long (including spaces, if any). The format of the electronic Application shall be in the format: "NOI-Facility Name".

# Section 2
## Application Summary and Routine Operations

The **Application Summary** shall include a brief description of the application. In case of a revision or modification to a facility, please describe the proposed changes from the original NOI. If this facility is to be co-located with another facility, provide details of the other facility including permit or NOI number(s).

**Routine or predictable emissions during Startup, Shutdown, and Maintenance (SSM):** Check the appropriate SSM box below. SSM emissions expected from production sites is VOC venting of compressor blowdowns, pigging, or maintenance downtime of VRU, and site-specific combustion SSM emissions.

**Application Summary:**
Devon Energy Production Company, L.P. (Devon) plans to modify and operate Broadside 1H Battery (Facility), which is located approximately 21.2 miles west-northwest of Jal in Lea County, New Mexico. The Facility will consist of four (4) oil tanks, two (2) water tanks, one (1) gunbarrel, one (1) heater treater, one (1) emergency flare, one (1) combustor, one (1) 203 hp natural gas-fired combustion engine, one (1) electric compressor engine, and crude and water loading operations. The combustion engine will have a manufacture date of January 1, 2011 or later; therefore, the engine will be subject to NSPS Subpart JJJJ.

To authorize the modification and operation of this Facility, Devon is submitting this Notice of Intent (NOI) to Construct application, which has been prepared in accordance with the requirements set forth in NMAC 20.2.73.

**Facility Type:**
A narrative is not required if the facility can be described by one of the check boxes below:
☒ The facility is an oil and gas production facility.
☐ The facility is a tank battery.
☐ The facility is a natural gas compressor station.
☐ Other (describe) _____

The operating schedule using this application to qualify under 20.2.73 NMAC is 24 hours per day and 8760 hours per year.

**SSM Summary:**
Check the applicable box below:
☐ No SSM emissions are expected from routine operations.
☐ Applicant requests up to 10 tpy of VOC SSM emissions.
☒ Applicant requests site specific VOC SSM and those emissions are included in Section 4.
☐ Applicant requests site specific combustion SSM and those emissions are included in Section 4.

# Section 3
## Process Flow Sheet

---

A **process flow sheet** including all equipment, emission points, and types of control applied to those points. All units should be labeled and the unit numbering system should be consistent throughout this application. Identify all sources of emissions with a vertical arrow. Label each of the different material streams (crude oil, gas, NGL, and produced water).

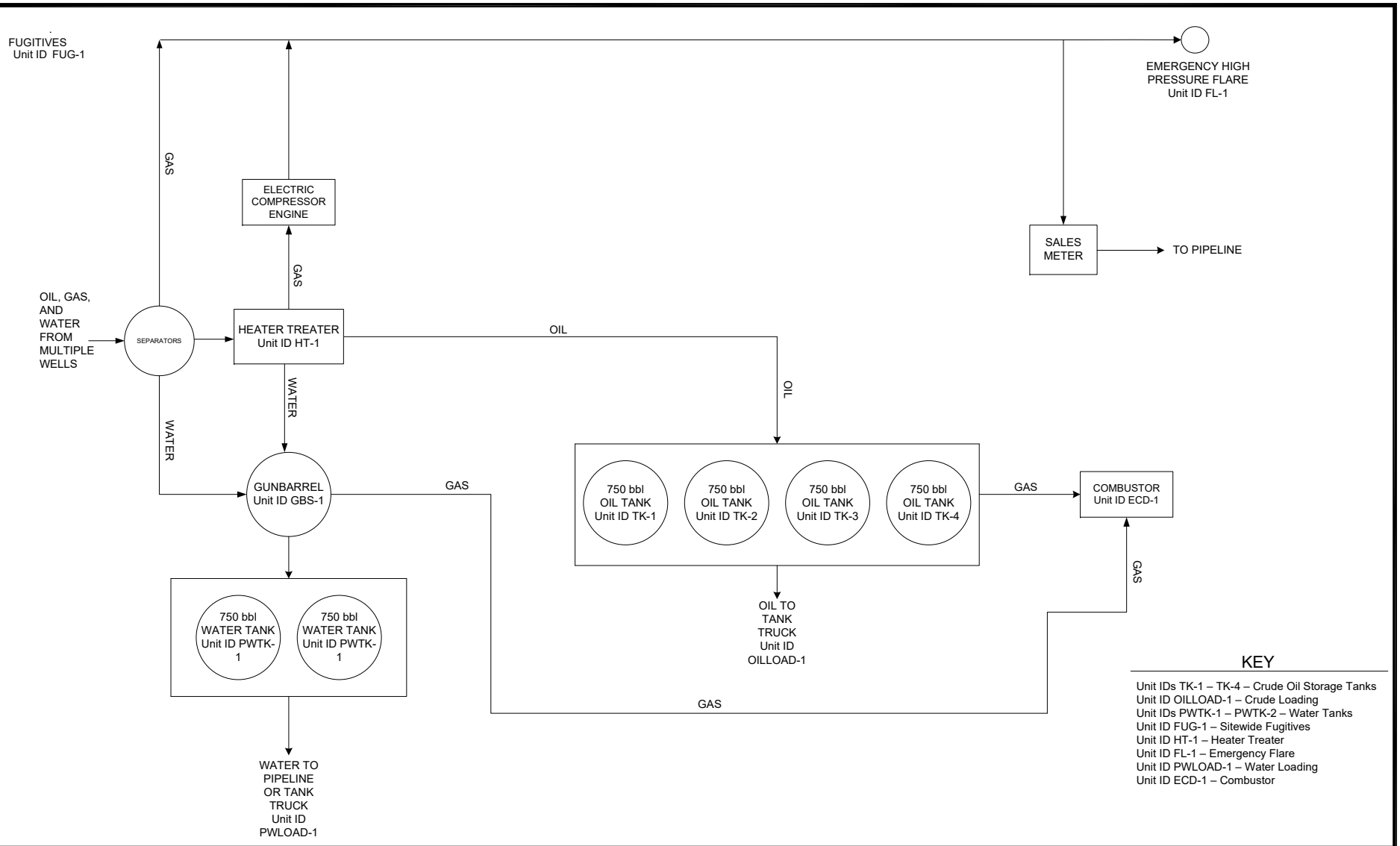
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A Process Flow Sheet is included in this section.

Crude oil, natural gas, and produced water are piped to the Facility from producing wells in the surrounding oil field. Production fluid flows from the wells through separators, then oil is processed in the heater treater (Unit ID HT-1). Oil from the heater treater is sent to the oil storage tanks (Unit IDs TK-1 through TK-4). The oil is later transferred offsite via the loading rack (Unit ID OILLOAD-1). Gas from the separators and heater treater is captured in an electric compressor engine and sent to the sales line. Water from the separators and heater treater flows through the gunbarrel (Unit ID GBS-1), then into the water storage tanks (Unit IDs PWTK-1, PWTK-2) and is later transferred offsite via the loading rack (Unit PWLOAD-1) or pipeline. The water storage tanks vent to atmosphere. The oil tanks are controlled by the combustor (Unit ID ECD-1). The gunbarrel is also controlled by the combustor (Unit ID ECD-1). However, because there are no state or federal requirements to control the gunbarrel, a VOC reduction credit is not taken in this application.

The potential volatile organic compound (VOC) emission rate for each of the oil storage tanks is greater than 6 tons per year. Therefore, the oil storage tanks are subject to New Source Performance Standard (NSPS) Subpart OOOOa. Devon complies with the requirement to reduce emissions from the oil storage tanks by 95% by operating a combustor (Unit ID ECD-1). Approximately 98% of the vapors from the oil storage tanks are captured and sent to the combustor.

One combustion engine (Unit ID ENG 1) could be installed. An emergency flare (Unit ID FL-1) is also located at the Facility.




ALTAMIRA

2301 E. LAMAR BLVD
SUITE 200
ARLINGTON, TX 76006

www.altamira-us.com

FIGURE TITLE
***PROCESS FLOW SHEET***

DOCUMENT TITLE
NOTICE OF INTENT TO CONSTRUCT

CLIENT
DEVON ENERGY PRODUCTION COMPANY, L.P.

LOCATION
BROADSIDE 1H BATTERY
LEA COUNTY, NEW MEXICO
32° 13' 32.89" N
103° 31' 37.46" W

| | |
|---|---|
| DATE | 02/03/2021 |
| SCALE | NOT TO SCALE |
| DESIGNED BY | AB |
| APPROVED BY | RZ |
| DRAWN BY | AB |
| PROJECT NUMBER | |
| DVNANM1901 | |
| FIGURE NUMBER | |
| **SECTION 3** | |

# Section 4
## All Calculations and Emissions Summary

---

**The Department has developed the Air Emission Calculation Tool Form (AECT), which is required to be used in the NOI Oil and Gas Quick Application.** If the AECT for a piece of equipment is under development, provide calculations.

**The AECT can be accessed at the following link:**
https://www.env.nm.gov/air-quality/air-quality-oil-and-gas-noi-application-form/

**Tank Emissions Calculations**: The information provided to the AQB shall include a discussion of the method used to estimate tank-flashing emissions, accuracy of the model, the input and output summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Pro-Max or Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation. For each crude oil storage tank, identify if the tanks are in series or in parallel.

For tank and loading emission calculations, the annual throughput used for calculations is not required to be the daily throughput times 365 days. The annual throughput of the facility used for calculations must be consistent throughout the application, and a brief rationale should be included in the notes sections on the appropriate pages of the AECT.

For tanks subject to federal regulations that require controls (i.e., NSPS OOOO or NSPS OOOOa), applicants may represent tank controls as two scenarios to provide flexibility. Some facilities will have a vapor recovery unit (VRU) installed initially but may later replace the VRU with a flare due to changes in production levels. Representing **both** scenarios in the NOI application will allow the company to replace the VRU with a flare without submitting a revision to the NOI to the Department. To be eligible for this flexibility, both the VRU and flare must be compliant with the federal regulations that require the control of the tanks. Represent both scenarios using the AECT and include comments to explain the requested flexibility.

**Heater Calculations**: Heaters, heated separators, and heater treaters may be represented as a combined maximum heat input, provided that each individual unit is rated less than 100 MMBTU/hr each. This will allow applicants flexibility in the number and size of units installed, while still providing demonstration that the facility will comply with NOI limits. To utilize this flexibility, represent the requested total heat input for all these units in the AECT.

**SSM Calculations**: The applicant must select one of the boxes in Section 2: SSM Summary. If applicant is submitting site specific calculations, include in this section.

**Control Devices:** In accordance with 20.2.73.200.B(7) NMAC, report all control devices and list each pollutant controlled by the control device in the Potential Emission Rate Table.

Voluntary flaring of emissions that are not federally enforceable (such as maintenance or loading emissions) should be represented **both** as flared emissions, and as uncombusted emissions. This is necessary to demonstrate that the products of combustion from flaring the emissions do not exceed the applicability threshold for a permit under 20.2.72.200.A(1) NMAC; and that the VOC emissions (if they are not flared) will not cause the site to be defined as a Title V Major Source under 20.2.70.7.4.R NMAC.

---

**Table 1: Check the equipment entered from the AECT Form Submitted in this Section:**

| Check box if present at facility | Equipment Type | Quantity |
|---|---|---|
| ☒ | **Engine(s)** | **1** |
| ☒ | **Heater(s)** | **1** |
| ☒ | **Haul Road** | **1** |
| ☒ | **Fugitives** | **1** |
| ☒ | **Tanks** | **6** |
| ☒ | **Flare(s)** | **1** |
| ☒ | **Loading** | **2** |

| Check box if present at facility | Equipment Type | Quantity |
|---|---|---|
| ☒ | ECD | 1 |
| ☐ | Thermal Oxidizer | |
| ☐ | VRU | |
| ☒ | Other | Gunbarrel |

**Information Used to Determine Emissions**
**Check the box for each type of information submitted**:

☐ If manufacturer data are used, include specifications for emissions units and control equipment, including control efficiencies specifications and sufficient engineering data for verification of control equipment operation.
☐ For tank emissions, include a discussion of the method used to estimate tank-flashing emissions, accuracy of the model, the input and output summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.
☒ If requesting to use a representative gas sample, include a discussion of why the sample is representative for this facility and an explanation of how it is representative (e.g., same reservoir, same similar API gravity, similar composition).

The samples are from a nearby site that pulls from the same reservoir as the Broadside 1H Battery wells.

## Table 2: Potential Emission Rate

Enter the maximum lb/hr and ton/yr emission rate from each piece of regulated equipment. Only federally enforceable requirements may be used to reduce the PER of a source. For each unit number, include equipment type (e.g. ENG-1 for engine, HTR-1 for heater, and TANK-1, for storage tank). The basis for the federally enforceable reduction must be included in Section 6.

☒ The emissions in this table are identical to the *Total Allowable NOI Emissions From All Facility Equipment* table from the AECT and are not repeated below. (For any equipment using a federally enforceable control device to reduce the PER, list the unit number/description and control device in this table.)

| Unit No./ Description | NOx | | CO | | VOC | | SOx | | TSP | | PM10 | | PM2.5 | | $H_2S$ | | List Federally Enforceable Control Device |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/ hr | ton/ yr | lb/ hr | ton /yr | lb/ hr | ton/ yr | lb/ hr | ton/ yr | lb/ hr | ton/ yr | lb/ hr | ton/ yr | lb/ hr | ton/ yr | lb/ hr | ton/ yr | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| **Total** | | | | | | | | | | | | | | | | | |

## Table 3: Potential Emission Rate of HAPs

For each HAP listed below with facility-wide emissions greater than 1 ton per year, enter the ton/year emission rate from each piece of regulated equipment. Only federally enforceable requirements may be used to reduce the PER of a source.

| Unit No. | Formaldehyde | Acetaldehyde | n-Hexane | Benzene | Toluene | Xylene | Ethyl-benzene | Total HAP | List Federally Enforceability Control Device |
|---|---|---|---|---|---|---|---|---|---|
| ECD-1 | | | 0.5 | | | | | 0.9 | |
| FUG-1 | | | 0.1 | | | | | 0.3 | |
| HT-1 | | | - | | | | | - | |
| ENG 1 | | | - | | | | | 0.2 | |
| GBS-1 | | | - | | | | | 0.9 | |
| ROAD-1 | | | - | | | | | - | |
| SSM | | | 0.2 | | | | | 0.3 | |
| TK-1 | | | 0.1 | | | | | 0.2 | ECD-1 |
| TK-2 | | | 0.1 | | | | | 0.2 | ECD-1 |
| TK-3 | | | 0.1 | | | | | 0.2 | ECD-1 |

| Unit No. | Formaldehyde | Acetaldehyde | n-Hexane | Benzene | Toluene | Xylene | Ethyl-benzene | Total HAP | List Federally Enforceability Control Device |
|---|---|---|---|---|---|---|---|---|---|
| TK-4 | | | 0.1 | | | | | 0.2 | ECD-1 |
| PWTK-1 | | | - | | | | | 0.3 | |
| PWTK-2 | | | - | | | | | 0.3 | |
| OILOAD-1 | | | 0.7 | | | | | 1.3 | |
| PWLOAD-1 | | | - | | | | | 0.1 | |
| **Total** | | | 1.9 | | | | | 5.4 | |

# AIR EMISSIONS CALCULATION TOOL

## Instructions for Completing the Equipment Calculation Forms

1. Click the **Start Button** below to reset the form to begin data entry.

2. The ***Air Emissions Calculation Tool*** initially loads with the **Core Data Information Form.** Once all information is entered on this form, the necessary equipment calculation pages will be created based on the information entered on the Core Data Information Form. The customized ***Air Emissions Calculation Tool*** should now be saved to your computer before entering any other information on the equipment calculation pages. **Warning,** every time you click on the **Start Button b**elow, the ***Air Emissions Calculation Tool*** will reset and all data entered will be lost.

3. Green/Blue colored information boxes require users to enter the required information for the subject facility. Default values may be changed if not appropriate for the facility.

4. Yellow colored boxes represent calculated values based on user information entered and may not be changed.

5. Yellow boxes with green/blue cross-hatching represent calculated values based on user information entered, however users may input data in these boxes, if necessary.

Start

# Core Data Information

**Mandatory** - All appropriate Data Must Be Entered For All Boxes Below. This Data Will Automatically Create All Required Equipment Forms And Populate This Data In All Emissions Calculation Forms.

| | | | | | |
|---|---|---|---|---|---|
| Date Field | Feb 4, 2021 | | | Permit/NOI/NPR Number | |
| Company Name: | Devon Energy Production Company, L.P. | | | Select Application Type | NOI |
| Facility Name: | Broadside 1H Battery | | | AI# if Known | |
| Max. Facility Gas Production | 5,000 | (Mscf/d) | 208.33 | (Mscf/h) | Elevation (ft.) 3,603 |
| Max. Facility Oil Production | 2,000 | (BOPD) | 83.33 | (BOPH) | |
| Max. Facility Produced Water | 5,000 | (BWPD) | 208.33 | (BWPH) | Sour Gas Streams at This Site? NO |

Enter The Quantity Of All Air Emissions Sources Located At The Facility
(Leave Blank For Each Equipment Type That Is Not Present)

| Equipment | Quantity | Equipment | Quantity |
|---|---|---|---|
| Amine Unit(s) | | Compressor Engine (s) | 1 |
| Dehydrator(s) | | Enclosed Combustion Device(s) (ECD) | 1 |
| Equipment Fugitives | ✓ | Flare(s) | 1 |
| Flash Tower/Ultra-Low Pressure Separator(s)^ | | Generator Engine (s) | |
| Gunbarrel Separator(s)/Tank(s) | 1 | Heater(s), Heater Treaters | 1 |
| Number of Paved Haul Roads Segments | | Number of Unpaved Haul Road Segments | 1 |
| Low Pressure Compressor(s)* & Compressor(s)* | | Oil/Condensate Storage Tank(s) | 4 |
| Oil/Condensate Truck Loading | ✓ | Produced Water Storage Tank(s) | 2 |
| Produced Water Truck Loading | ✓ | Pumpjack Engine(s) | |
| Reboilers(s) (Amine Units) | | Placeholder for Future Use | |
| Reboilers(s) (Glycol, others) | | Startup, Shutdown & Maintenance and Malfunction | ✓ |
| Skim Oil or Slop Oil Tank(s) | | Thermal Oxidizer(s) (TO) | |
| Vapor Combustion Device(s) (VCU) | | Vapor Recovery Unit(s) (VRU)^ | |

***Click Here to Generate Required Forms & Save to Your Computer***

Complete all required forms that follow, for the equipment at the subject facility, based on the selections made above. Items with an * indicate an air emissions calculation form currently not required at this time and those with ^ indicate forms under construction at this time.

# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Non-Emergency SI Rich Burn, Lean Burn & Clean Burn Natural Gas Fired Compressor Engines (100% Load) & Stationary & Non-Road Diesel (≤600hp & >600hp) & Gasoline Compressor Engines (≤600hp)

**Enter data in green-shaded areas only! One engine per form unless like-kind engines**

| | |
|---|---|
| Emission Unit ID: | ENG 1 |
| Engine Manufacturer: | Other |
| Engine Model: | TBD |
| Engine Serial #: | TBD |
| Engine Manuf. Date: | Post 1/1/2011 |
| Engine Type: | 4SRB |
| Factory HP Rating | 203 |
| Allowable HP Rating | 203 |
| Engine BSFC (Btu/(Hp*Hr)) | 7,802 |
| Fuel LHV, (BTU/SCF) | 1,177.69 |
| Fuel Sulfur (grains/dscf) | 0.002 |

**Engine Deration**

- (•) No Deration
- ( ) Stationary - Naturally Aspirated
- ( ) Stationary - Turbo Aspirated
- ( ) Portable - Naturally Aspirated
- ( ) Portable - Turbo Aspirated

| | |
|---|---|
| Quantity of Like-kind Engines: | 1 |
| Engine Description | Other |
| Hours/year | 8,760 |
| Fuel Type: | Field Gas |

No Deration.

Notes:

| | |
|---|---|
| Hourly Fuel Flow Rate (MMSCF/hr) | 0.001345 |
| Annual Fuel Flow Rate (MMSCF/yr) | 11.7822 |
| Maximum Engine RPM | 1,800 |
| Exhaust Temperature (°F) | 1,076 |
| Exhaust Velocity (ft/sec) | 64.92 |
| Exhaust Flow (ACFM) | 968 |
| Stack Diameter (ft) | 0.56 |
| Stack Height (ft) | 11.8 |

**Select Source of Emission Factors**

- ( ) AP-42 Emission Factors
- ( ) Manufacturer Specs (Enter Appropriate Emission Factors Below) or Diesel Tier 1, 2, 3 or 4
- ( ) NSPS JJJJ; Engine Manuf. Between July 1, 2007-June 30, 2010 & Engine HP≥500HP
- ( ) NSPS JJJJ; Engine Manuf. On or after July 1, 2010 & Engine HP≥500HP
- ( ) NSPS JJJJ; Engine Manuf. Between July 1, 2008-Dec. 31, 2010 & Engine HP 100≤HP<500
- (•) NSPS JJJJ; Engine Manuf. on or after Jan.1, 2011 & Engine HP 100≤HP<500
- ( ) NSPS JJJJ; Eng. Manuf. Betw. Jan. 1, 2008-June 30, 2010 & LB Engine HP 500≤HP<1350
- ( ) NSPS JJJJ; Engine Manuf. on or after July 1, 2010 & LB Engine HP 500≤HP<1350
- ( ) NSPS JJJJ; Engines < 100HP (Enter Appropriate Emission Factors Below)
- ( ) NSPS IIII; Stationary Diesel Engines

| Emission Factors, Catalyst Control Efficiency & Safety Factor | | | | | | Uncontrolled Emissions | | JJJJ Emissions | | Controlled Emissions (includes SF)[1] | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | Uncontrld. EF g/hp-hr | % Control Efficiency | % Safety Factor | Contrld EF g/(hp-hr) | JJJJ EF g/hp-hr | lb/hr | Tons/yr | lb/hr | Tons/yr | lb/hr | Tons/yr |
| NOx^ | | | 0 | | 1 | 0 | 0 | 0.4475 | 1.9601 | 0.4475 | 1.9601 |
| CO | | | 0 | | 2 | 0 | 0 | 0.8951 | 3.9205 | 0.8951 | 3.9205 |
| VOC* | | | 0 | | 0.7 | 0 | 0 | 0.3133 | 1.3723 | 0.3559 | 1.5588 |
| Formaldehyde | | | 0 | | | 0 | 0 | | | 0.0375 | 0.1643 |
| TSP/PM10/PM2.5 | 0.0687 | 0 | 0 | 0.0687 | | 0.0307 | 0.1345 | | 0 | 0.0307 | 0.1345 |
| [2]$SO_2$ | 0.002 | 0 | 0 | 0.002 | | 0.000769 | 0.003368 | | | 0.000769 | 0.003368 |
| AP-42 HAPs | lb/MMBtu | | | | | | | | | | |
| Formaldehyde | 0.0205 | NA | NA | NA | NA | 0.03749 | 0.16421 | NA | NA | NA | NA |
| Acetaldehyde | 0.00279 | NA | NA | NA | NA | 0.0051 | 0.02234 | NA | NA | NA | NA |
| Acrolein | 0.00263 | NA | NA | NA | NA | 0.00481 | 0.02107 | NA | NA | NA | NA |
| Benzene | 0.00158 | NA | NA | NA | NA | 0.00289 | 0.01266 | NA | NA | NA | NA |
| Ethylbenzene | 0.0000248 | NA | NA | NA | NA | 0.00005 | 0.00022 | NA | NA | NA | NA |
| n-Hexane | | NA | NA | NA | NA | 0 | 0 | NA | NA | NA | NA |
| Toluene | 0.000558 | NA | NA | NA | NA | 0.00102 | 0.00447 | NA | NA | NA | NA |
| Xylene | 0.000195 | NA | NA | NA | NA | 0.00036 | 0.00158 | NA | NA | NA | NA |
| Total HAPs | NA | NA | NA | NA | NA | 0.05172 | 0.22655 | NA | NA | 0.05 | 0.23 |

* Uncontrolled & Controlled VOC emissions include aldehyde emissions. VOC Emissions for JJJJ do not include aldehyde emissions. [1] For NOI's & NPR, controlled emissions cannot be less than JJJJ emissions. [2] SO2 EF (grains/scf or ppm) except for AP-42 EF in g/hp-hr for SO2 & EF Values for NOx, CO, VOC, TSP/PM10/PM2.5 in lb/hp-hr for large gasoline & diesel engines. ^NOx+NMHC Emission Factors for diesel engines assume 75% NOx and 25% VOC

# Calculation Tool for Non-Emergency SI Rich Burn, Lean Burn & Clean Burn Natural Gas Fired Compressor Engines (100% Load) & Large Stationary Diesel (≤600hp & >600hp) & Gasoline Compressor Engines (≤600hp) Emissions

AP-42 Gas-Fired Engine Emission factors based on AP-42, Tables 3.2-1, 3.2-2 & 3.2-3 (July 2000)
https://www3.epa.gov/ttn/chief/ap42/ch03/final/c03s02.pdf
40 CFR Part 60 Subpart JJJJ Emission Factors based on §60.4233 & Table 1
http://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.jjjj
AP-42 Diesel & Gasoline Fired Engine Emission factors based on AP-42, Tables 3.3-1, 3.2-2, 3.4-1, 3.4-2, 3.4-3 & 3.4-4
https://www3.epa.gov/ttn/chief/ap42/ch03/final/c03s03.pdf
40 CFR Part 60 Subpart IIII Emission Factors based on §60.4233 & Table 1
http://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.iiii
EPA Tier 1-4 Nonroad Compression Ignition Emission Standards (EPA-42--B-16-022)
https://nepis.epa.gov/Exe/ZyNET.exe/P100OA05.txt?ZyActionD=ZyDocument&Client=EPA&Index=2011%20Thru%202015&Docs=&Query=&Time=&EndTime=&SearchMethod=1&TocRestrict=n&Toc=&TocEntry=&QField=&QFieldYear=&QFieldMonth=&QFieldDay=&UseQField=&IntQFieldOp=0&ExtQFieldOp=0&XmlQuery=&File=D%3A%5CZYFILES%5CINDEX%20DATA%5C11THRU15%5CTXT%5C00000019%5CP100OA05.txt&User=ANONYMOUS&Password=anonymous&SortMethod=h%7C-&MaximumDocuments=1&FuzzyDegree=0&ImageQuality=r75g8/r75g8/x150y150g16/i425&Display=hpfr&DefSeekPage=x&SearchBack=ZyActionL&Back=ZyActionS&BackDesc=Results%20page&MaximumPages=1&ZyEntry=1

Emission factors for natural gas and field gas internal combustion engines may be based on AP-42, Tables 3.2-1, 3.2-2 or 3.2-3 or NSPS JJJJ emission standards or manufacturer specifications based on engine applicability.

## NOx Sample Calculation Using AP-42 Emission Factors for a 500-HP 4-Stroke Rich Burn Engine

pph = NOx Emission Factor (EF) lb/MMBtu * Heat Value Btu/scf/1020 Btu/scf * Maximum Heat Input (MMBtu/hr) * Allowable HP * 1/1000000 MMBtu/Btu
= 2.21 lb/MMBtu * 1020 Btu/scf/1020Btu/scf * 7500 MMBtu/hr *500 hp * 1/1000000 MMBtu/Btu
=8.29 lb/hr

tpy =NOx Emission Factor (EF) lb/MMBtu * Heat Value Btu/scf/1020 Btu/scf * Maximum Heat Input (MMBtu/hr) * Allowable HP * 1/1000000 MMBtu/Btu * 8760 hrs/yr * 1/2000 tons/lbs
= 2.21 lb/MMBtu * 1020 Btu/scf/1020 Btu/scf * 0.5 MMBtu/hr * 1/1020 Btu/scf * 1000000/1 Btu/MMBtu * 8760 hrs/yr * 1ton/2000lbs
= 36.31 tpy

AP-42 $SO_2$ emissions based on 100% conversion of fuel sulfur to $SO_2$ and assumes sulfur content in natural gas of 2,000 grains/$10^6$ scf. The SO2 emission factor is converted to other natural gas sulfur contents by multiplying the $SO_2$ emission factor by the ratio of the site-specific sulfur content (grains/$10^6$ scf) to 2,000 grains/$10^6$ scf. For all other engines not using AP-42, The $SO_2$ emissions are based on grains S/scf. Fuel Heat values for Diesel = 0.137 MMBtu/gal; LPG = 0.0905 MMBtu/gal and Gasoline = 0.13 MMBtu/gal per AP-42 Appendix A, pg 5 & 6. SO2 emissions for all diesel engines not using AP-42, equals Gal Diesel/hr * diesel wt (lb)/gal * 15 ppm S * 64 lb SO2/32 lb S, where diesel weighs 7.1089 lb/gal.

## NOx Sample Calculation Using NSPS JJJJ Emission Factors for a July 1, 2010 500-HP 4-Stroke Rich Burn Engine

pph = NOx Emission Factor (EF) g/hp-hr * 1/453.6 lbs/grams * Allowable HP
= 1 g/hp-hr * 1/453.6 lbs/grams * 500 hp
= 1.1 lb/hr

tpy =NOx Emission Factor (EF) g/hp-hr * 1/453.6 lbs/grams * Allowable HP * 8760 hrs/yr * 1/2000 tons/lbs
= 1 g/hp-hr * 1/453.6 lbs/grams * 500 hp * 8760 hrs/yr * 1ton/2000lbs
= 4.82 tpy

Technical Disclaimer
This document is intended to help you accurately determine stationary compressor engine emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of stationary compressor engine emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

# New Mexico Environment Department Air Quality Bureau Emissions Calculation Forms

**Date:** Feb 4, 2021
**Company Name:** Devon Energy Production Company, L.P.
**Facility Name:** Broadside 1H Battery

**Permit Number:**
**AI# if Known:**
**Elevation (ft.):** 3,603

Total Potential Emission Rate For All Regulated Engines (NOI Request)

| UnitID | $NO_x$ | | CO | | VOC | | $SO_x$ | | TSP | | $PM_{10}$ | | $PM_{2.5}$ | | $H_2S$ | | Total HAP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr |
| ENG 1 | 0.45 | 1.96 | 0.9 | 3.92 | 0.36 | 1.56 | 0 | 0 | 0.03 | 0.13 | 0.03 | 0.13 | 0.03 | 0.13 | | | 0.05 | 0.23 |
| ENG 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| ENG 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| ENG 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| ENG 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| ENG 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| ENG 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| ENG 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| **Page Totals** | **0.45** | **1.96** | **0.9** | **3.92** | **0.36** | **1.56** | **0** | **0** | **0.03** | **0.13** | **0.03** | **0.13** | **0.03** | **0.13** | | | **0.05** | **0.23** |

# New Mexico Environment Department Air Quality Bureau Emissions Calculation Forms

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Heaters, Heated Separators & Heater Treaters (Only for units rated <100 MMBTU/Hr)

*Enter appropriate information in green boxes below changing default values as appropriate and adding additional rows for each heater unit.*

Enter the Sulfur Content of Gas or use default value (grains/$10^6$ scf). **2,000**

$SO_2$ emissions based on AP-42 EF and assumes 100% conversion of fuel sulfur to SO2 and assumes sulfur content in natural gas of 2,000 grains/1000000 scf. Change default value of 2000 as needed based on gas analysis submitted with application.

Enter the Site Fuel Heat Value of Gas or use default value (Btu/scf). **1,177.69**

### *Emissions From All Heaters, Heated Separators & Heater Treaters*

| Add/Remove Rows | Unit ID | Heat Input | $NO_x$ | | CO | | VOC | | $SO_2$ | | $PM/PM_{10}/PM_{2.5}$ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MMBtu/hr | pph | tpy | pph | tpy | pph | tpy | pph | tpy | pph | tpy |
| + - | HT-1 | 0.5 | 0.057 | 0.25 | 0.048 | 0.21 | 0.003 | 0.013 | 0 | 0 | 0.004 | 0.018 |
| | Totals | | 0.057 | 0.25 | 0.048 | 0.21 | 0.003 | 0.013 | 0 | 0 | 0.004 | 0.018 |

# Calculation Tool for Heaters, Heated Separators & Heater Treater Emissions (Uncontrolled) for Oil & Gas Production Sites (Only for units rated <100 MMBTU/Hr)

All emission factors based on AP-42, Table 1.4-1, Table 1.4-2 and Table 1.4-3 (July 1998)
https://www3.epa.gov/ttn/chief/ap42/ch01/final/c01s04.pdf

Emission factors for natural gas combustion in boilers and furnaces are presented in AP42, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4. The Tables present emission factors on a volume basis (lb/$10^6$ scf). To convert to an energy basis (lb/MMBtu), divide by a heating value of 1,020 MMBtu/$10^6$ scf. The emission factors may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value.

NOx Sample Calculation

pph = AP 42 NOx Emission Factor (EF) * site fuel heat value Btu/scf/1020 Btu/scf * Maximum Heat Input (MMBtu/hr) * 1/site fuel heat Value Btu/scf * 1000000/1Btu/MMBtu
= 100 lb/1000000 scf * 2000 Btu/scf/1020 Btu/scf * 0.5 MMBtu/hr * 1/2000 Btu/scf * 1000000/1Btu/MMBtu
=0.096 lb/hr

tpy = AP 42 NOx Emission Factor (EF) * site fuel heat value Btu/scf/1020 Btu/scf * Maximum Heat Input (MMBtu/hr) * 1/site fuel heat value Btu/scf * 1000000/1 Btu/MMBtu * 8760 hrs/yr * 1ton/2000 lbs
= 100 lb/1000000 scf * 2000 Btu/scf/1020 Btu/scf * 0.5 MMBtu/hr * 1/2000 Btu/scf * 1000000/1 Btu/MMBtu * 8760 hrs/yr * 1ton/2000lbs
= 0.42 tpy

$SO_2$ emissions based on 100% conversion of fuel sulfur to $SO_2$ and assumes sulfur content in natural gas of 2,000 grains/$10^6$ scf. The $SO_2$ emission factor is converted to other natural gas sulfur contents by multiplying the $SO_2$ emission factor by the ratio of the site-specific sulfur content (grains/$10^6$ scf) to 2,000 grains/$10^6$ scf.

Technical Disclaimer
This document is intended to help you accurately determine heaters, heated separators & heater treaters emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these combustion units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of heaters, heated separators & heater treaters emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

# Vertical Fixed Roof (VFR) Oil/Condensate VOC Flash Emissions Calculations Form

## Select Tanks Flash Emission Calculation Method

| | | |
|---|---|---|
| GOR | E & P Tanks | ProMax |
| Vasquez-Beggs | HYSYS | VMGSim |

## ProMax Oil Tanks Emission Calculations

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

### Tanks VOC Control Method

| | | | |
|---|---|---|---|
| Capture Efficiency | 98 | Represent Uncaptured/Uncollected VOC's at Tanks | YES |
| VOC Control Method[1] | Enclosed Combustion Device (ECD) | Represent VRU/ULPC Downtime Emissions at Tanks | NA |
| VOC Destruction Efficiency[2] | 98 | Represent VOC Controlled Emissions at Tanks* | NO |

Notes: The LB/HR calculations in this application are based on the maximum anticipated daily production level for the facility, which is 2,000 BOPD. The TPY calculations are based on the anticipated annual average daily production level for the facility, which is 850 BOPD.

### *Total VOC Flash Emissions From Oil/Condensate Storage Tanks Calculated with ProMax*

| Add/Remove Rows | Tank ID | VOC Uncontrolled Emissions | | VOC Emissions after Control | | VOC Emissions at the Tanks | |
|---|---|---|---|---|---|---|---|
| Up To 10 Units | | pph | tpy | pph* | tpy* | pph | tpy |
| + - | TK-1 | 95.71 | 202.3 | 1.91 | 4.05 | 1.91 | 4.05 |
| + - | TK-2 | 95.71 | 202.3 | 1.91 | 4.05 | 1.91 | 4.05 |
| + - | TK-3 | 95.71 | 202.3 | 1.91 | 4.05 | 1.91 | 4.05 |
| + - | TK-4 | 95.71 | 202.3 | 1.91 | 4.05 | 1.91 | 4.05 |
| | Totals | 382.84 | 809.2 | 7.64 | 16.2 | 7.64 | 16.2 |



Notes 1 & 2 See next page; * Emissions only represented at tanks if "Yes" is selected to represent emissions at tanks.

# Calculation Tool for Tanks Flashing & Working & Standing Emissions for Oil & Gas Production Sites

All flash emissions based on flash calculation methodology selected;

1) The appropriate ECD, flare, TO, VCU or VRU form must also be completed.
2) Manufacturer documentation required to support % control selected. If using a VRU/LPC, calculations assume VRU/ULPC with a 100% control efficiency, but with 5% downtime;
3) Information included in calculation tool must be based on representative oil and gas analysis which must be submitted with application;
4) GOR and Vasquez-Beggs sample calculations outlined below; E & P Tanks, ProMax, HYSYS & VMG Sim flash emissions require submittal of computer simulation model emissions calculations print-outs;
5) Working & Standing emissions based on AP-42 Chpt. 7, tanks 4.09d computer simulation or ProMax, or VMG computer simulation models.

Sample Calculations

**GOR Methodology**

VOC pph = GOR (scf/bbl) * Facility Oil Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lb-mole @ 70$^{O}$F, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol)
= 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol
= 216.45 lbs/hr

VOC tpy = GOR (scf/bbl) * Facility Oil Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lb-mole @ 70$^{O}$F, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol) * 8760 hr/yr * 1/2000 lbs/ton
= 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol * 8760 hr/yr * 1/2000 lbs/ton
= 948.05 tpy

**Vasquez-Beggs Methodology**

| INPUTS | | | Constraints | | | |
|---|---|---|---|---|---|---|
| API Gravity | | API | 16 | <API> | 58 | $^{0}$API |
| Separator Pressure (psig) | | P | 50 | <P+Patm> | 5250 | psia |
| Separator Temp. ($^{0}$F) | | Ti | 70 | <Ti> | 295 | $^{0}$F |
| Separator Gas Gravity at Initial Condition | | SGi | 0.56 | <SGi> | 1.18 | MW/28.97 |
| Barrels of Oil/Day (BOPD) | 500 | Q | None | <Q> | None | BOPD |
| Tank Gas MW | | MW | 18 | <MW> | 125 | lb/lb-mole |
| VOC Fraction of Tank Gas | | VOC | 0.5 | <VOC> | 1.00 | Fraction |
| Atmospheric Pressure (psia) | | Patm | 20 | <Rs> | 2070 | scf/bbl |

| Constants | | | |
|---|---|---|---|
| | $^{0}$API Gravity | | |
| $^{0}$APTI | <30 | ≥30 | Given $^{0}$API |
| C1 | 0.0362 | 0.0178 | |
| C2 | 1.0937 | 1.187 | |
| C3 | 25.724 | 23.931 | |

SGx = Dissolved gas gravity at Separator pressure = SGi [1.0+0.00005912*API*Ti*Log(Pi/114.7)]

Rs = (C1 * SGx * Pi^C2) exp ((C3 * API) / (Ti + 460)) for P + Patm

THC = Rs * Q * MW * 1/385 scf/lb-mole * 365 D/Yr * 1 ton/2000 lbs

VOC = THC * Frac. of C3+ in the Stock Tank Vapor

Technical Disclaimer
This document is intended to help you accurately determine oil/condensate storage tank flash, working and standing emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of oil/condensate storage tank flash, working and standing emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Vertical Fixed Roof (VFR) Oil/Condensate VOC Working & Standing Emissions Calculations Form

**Select Tanks W & S Emission Calculation Method**

AP-42 Chpt. 7 | EPA Tanks 4.09d | ProMax | E & P Tanks

### ProMax Oil Tanks W & S Emission Calculations

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

**Tanks VOC Control Method**

| | | | |
|---|---|---|---|
| Capture Efficiency | 98 | Represent Uncaptured and/or Controlled VOC's at Tanks | YES |
| VOC Control Method | Enclosed Combustion Device (E | Represent VRU/ULPC Downtime Emissions at Tanks | NA |
| VOC Destruction Efficiency | 98 | Represent VOC Controlled Emissions at Tanks* | NO |

Notes: The LB/HR calculations in this application are based on the maximum anticipated daily production level for the facility, which is 2,000 BOPD. The TPY calculations are based on the anticipated annual average daily production level for the facility, which is 850 BOPD.

***Total VOC W & S Emissions From Oil/Condensate Storage Tanks Calculated with ProMax***

| Add/Remove Rows Up To 10 Units | Tank ID | VOC Uncontrolled Emissions | | VOC Emissions after Control | | VOC Emissions at the Tanks | |
|---|---|---|---|---|---|---|---|
| | | pph | tpy | pph* | tpy* | pph | tpy |
| + - | TK-1 | 10.47 | 16.39 | 0.21 | 0.33 | 0.21 | 0.33 |
| + - | TK-2 | 10.47 | 16.39 | 0.21 | 0.33 | 0.21 | 0.33 |
| + - | TK-3 | 10.47 | 16.39 | 0.21 | 0.33 | 0.21 | 0.33 |
| + - | TK-4 | 10.47 | 16.39 | 0.21 | 0.33 | 0.21 | 0.33 |
| | Totals | 41.88 | 65.56 | 0.84 | 1.32 | 0.84 | 1.32 |



Notes 1 & 2 See next page; * Emissions only represented at tanks if "Yes" is selected to represent emissions at tanks.

# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Emissions From Loading Petroleum Liquid

*Select Appropriate AP-42 Petroleum Liquid Loading Methodology & Enter appropriate information in the green boxes below changing default values as appropriate.*

Emission Unit ID: OILLOAD-1

| | | | |
|---|---|---|---|
| Facility Oil Throughput (gal/yr) | 13,030,500 | Max. Hourly Loading Rate (gal/hr) | 22,680 |

*Select Appropriate AP-42 Petroleum Liquid Loading Methodology Below**

(●) AP-42, 5.2-4 Equation 1 ( ) AP-42, Table 5.2-5

| | | | |
|---|---|---|---|
| **S** - Saturation Factor (From AP-42 Table 5.2-1) | 0.6 | **M** - Molecular Weight of Vapors (lb/lb-mole) | 40.82 |
| **$P_{annual}$** - Avg. Annual True Vapor Pressure of Liquid Loaded (psia) | 11.51 | **$P_{hourly}$** - Max Hourly True Vapor Pressure of Liquid Loaded (psia) | 12.21 |
| **$T_{annual}$** - Average Annual Temperature $^{O}F$ of Bulk Liquid Loaded | 66.43 | **$T_{hourly}$** - Maximum Hourly Temperature $^{O}F$ of Bulk Liquid Loaded | 99.97 |

**Select Emission Source** - From AP-42 Table 5.2-5

( ) Submerged Loading Dedicated Normal Service
( ) Submerged Loading Vapor Balance Service
( ) Splash Loading Dedicated Normal Service
( ) Splash Loading Vapor Balance Service

### Truck Loading VOC Control Method

| | | | |
|---|---|---|---|
| Capture Efficiency | 100 | Represent Uncaptured/Uncollected VOC's at Loading Rack | NA |
| VOC Control Method[1] | Uncontrolled | Represent VRU/ULPC Downtime Emissions at Loading Rack | NA |
| VOC Destruction Efficiency[2] | 0 | Represent VOC Controlled Emissions at Loading Rack | YES |

Notes

### *Total VOC Emissions From Loading Petroleum Liquids*

| Pollutant | VOC Uncontrolled Emissions | | VOC Emissions after Control | | VOC Emissions at the Loading Rack | |
|---|---|---|---|---|---|---|
| | pph* | tpy* | pph* | tpy* | pph* | tpy* |
| VOC | 150.92 | 43.47 | 150.92 | 43.47 | 150.92 | 43.47 |

Footnote: * All emission factors based on AP-42, 5.2-4 Equation 1 or AP-42 Table 5.2-5 (July 2008); See next page for calculation notes. You may elect to represent the controlled emissions at the loading rack or at the control device or tanks by selecting the appropriate drop-down options under *Truck Loading VOC Control Method*.

# Calculation Tool for Emissions From Loading Petroleum Liquid

Emissions based on AP-42, 5.2-4 Equation 1 (July 2008) or AP-42, Table 5.2-5

https://www3.epa.gov/ttn/chief/ap42/ch05/final/c05s02.pdf

**AP-42 5.2-4 Equation 1**

Emissions from loading petroleum liquid can be estimated (with a probable error of ±30 percent)[4] using the following expression:

Equation 1 $L_L = 12.46 * SPM/T$

where:

$L_L$ = loading loss, pounds per 1000 gallons (lb/$10^3$ gal) of liquid loaded;

S = a saturation factor (see Table 5.2-1 reproduced below))

P = true vapor pressure of liquid loaded, pounds per square inch absolute (psia) (see Section 7.1, "Organic Liquid Storage Tanks")

M = molecular weight of vapors, pounds per pound-mole (lb/lb-mole) (see Section 7.1, "Organic Liquid Storage Tanks")

T = temperature of bulk liquid loaded, °R (°F + 460)

VOC pph = (12.46*0.6*7.0 (psia)*50 (lb/lb-mole)/550°R)/1000 (gal) * 8400 (gal/hr)
= 39.96 lb/hr

VOC tpy = (12.46*0.6*4.5 (psia)*50 (lb/lb-mole)/525°R)/1000 * 1533000 (gal/yr) * 1/2000 (ton/lbs)
= 2.46 tpy

**Table 5.2-1. SATURATION (S) FACTORS FOR CALCULATING PETROLEUM LIQUID LOADING LOSSES**

| Cargo Carrier | Mode of Operation | S Factor |
|---|---|---|
| Tank trucks and rail tank cars | Submerged loading of a clean cargo tank | 0.5 |
| | Submerged loading: dedicated normal service | 0.6 |
| | Submerged loading: dedicated vapor balance service | 1.0 |
| | Splash loading of a clean cargo tank | 1.45 |
| | Splash loading: dedicated normal service | 1.45 |
| | Splash loading: dedicated vapor balance service | 1.0 |
| Marine vessels[a] | Submerged loading: ships | 0.2 |
| | Submerged loading: barges | 0.5 |

[a] For products other than gasoline and crude oil. For marine loading of gasoline, use factors from Table 5.2-2. For marine Loading of crude oil, use Equations 2 and 3 and Table 5.2-3.

**AP-42 Table 5.2-5**

VOC pph = (2lb/1000 (gal) * ((100-15)/100) * 8400 (gal/hr) = 16.8 pph

VOC tpy = (2lb/1000 (gal) * ((100-15)/100) * 100 (BOPD) * 42 (gal/bbl) * 365 (days/yr) * 1/2000 (ton/lb) = 1.53 tpy

**Table 5.2-5 TOTAL UNCONTROLLED ORGANIC EMISSION FACTORS FOR PETROLEUM LIQUID RAIL TANK CARS AND TANK TRUCKS**

| Emission Source | Mode of Operation | Crude Oil (lb/1000 gal transferred)[b] |
|---|---|---|
| Loading Operations[c] | | |
| | Submerged loading: dedicated normal service | 2 |
| | Submerged loading: dedicated vapor balance service | 3 |
| | Splash loading: dedicated normal service | 5 |
| | Splash loading: dedicated vapor balance service | 3 |

a Reference 2. ……VOC factors for crude oil can be assumed to be 15% lower than the total organic factors, to account for the methane and ethane content of crude oil evaporative emissions. All other products should be assumed to have VOC factors equal to total organics; b The example crude oil has an RVP of 34 kPa (5 psia); c Loading emission factors are calculated using Equation 1 for a dispensed product temperature of 16°C (60°F). In the absence of specific inputs for Equations 1 , the typical evaporative emission factors presented in Tables 5.2-5 should be used. It should be noted that, although the crude oil used to calculate the emission values presented in this tables has an RVP of 5, the RVP of crude oils can range from less than 1 up to 10. In areas where loading and transportation sources are major factors affecting air quality, it is advisable to obtain the necessary parameters and to calculate emission estimates using Equations 1.

1) The appropriate ECD, flare, TO, VCU or VRU form must also be completed.

2) Manufacturer documentation required to support % control selected. If using a VRU/LPC, calculations assume VRU/ULPC with a 100% control efficiency, but with 5% downtime;

3) Information included in calculation tool must be based on representative oil and gas analysis which must be submitted with application;

^) Vapor balancing emissions to tanks must be represented at the tanks;

Technical Disclaimer

This document is intended to help you accurately determine truck loading petroleum emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how truck loading operations work and how it generates emissions, how it is monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of truck loading petroleum emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

# Gunbarrel Separator VOC Flash Emissions Calculations Form

## Select Flash Emission Calculation Method

| | | |
|---|---|---|
| GOR | E & P Tanks | ProMax |
| Vasquez-Beggs | HYSYS | VMGSim |

## ProMax Gunbarrel Separator Emission Calculations

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

### Gunbarrel Separator VOC Control Method

| | | | |
|---|---|---|---|
| Capture Efficiency | 100 | Represent Uncaptured/Uncollected VOC's at Tanks | YES |
| VOC Control Method[1] | Not Controlled | Represent VRU/ULPC Downtime Emissions at Tanks | NA |
| VOC Destruction Efficiency[2] | 0 | Represent VOC Controlled Emissions at Tanks* | YES |
| Notes | The gunbarrel is a separator and not a conventional tank; therefore, it does not have W&S emissions, only flash. | | |

### *Total VOC Flash Emissions From Gunbarrel Separator Calculated with ProMax*

| Add/Remove Rows Up To 10 Units | Tank ID | VOC Uncontrolled Emissions | | VOC Emissions after Control | | VOC Emissions at the Tanks | |
|---|---|---|---|---|---|---|---|
| | | pph | tpy | pph* | tpy* | pph | tpy |
| + - | GBS-1 | 3.63 | 5.72 | 0 | 0 | 3.63 | 5.72 |
| | Totals | 3.63 | 5.72 | 0 | 0 | 3.63 | 5.72 |



Notes 1 & 2 See next page; * Emissions only represented at tanks if "Yes" is selected to represent emissions at tanks.

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

# Calculation Tool for Tanks Flashing & Working & Standing Emissions for Oil & Gas Production Sites

All flash emissions based on flash calculation methodology selected;

1) The appropriate ECD, flare, TO, VCU or VRU form must also be completed.
2) Manufacturer documentation required to support % control selected. Assumes VRU/ULPC with a 100% control efficieny, but with 5% downtime;
3) Information included in calculation tool must be based on representative oil and gas analysis which must be submitted with application;
4) GOR and Vasquez-Beggs sample calculations outlined below; E & P Tanks, ProMax, HYSYS & VMG Sim flash emissions require submittal of computer simulation model emissions calculations print-outs;
5) Working & Standing emissions based on AP-42 Chpt. 7, tanks 4.09d computer simulation or ProMax, or VMG computer simulation models.

Sample Calculations

**GOR Methodology**

VOC pph = GOR (scf/bbl) * Facility Oil Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lb-mole @ 70$^{O}$F, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol)
= 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol
= 216.45 lbs/hr

VOC tpy = GOR (scf/bbl) * Facility Oil Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lb-mole @ 70$^{O}$F, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol) * 8760 hr/yr * 1/2000 lbs/ton
= 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol * 8760 hr/yr * 1/2000 lbs/ton
= 948.05 tpy

**Vasquez-Beggs Methodology**

| INPUTS | | | Constraints | | | |
|---|---|---|---|---|---|---|
| API Gravity | | API | 16 | <API> | 58 | $^{0}$API |
| Separator Pressure (psig) | | P | 50 | <P+Patm> | 5250 | psia |
| Separator Temp. ($^{0}$F) | | Ti | 70 | <Ti> | 295 | $^{0}$F |
| Separator Gas Gravity at Initial Condition | | SGi | 0.56 | <SGi> | 1.18 | MW/28.97 |
| Barrels of Oil/Day (BOPD) | 500 | Q | None | <Q> | None | BOPD |
| Tank Gas MW | | MW | 18 | <MW> | 125 | lb/lb-mole |
| VOC Fraction of Tank Gas | | VOC | 0.5 | <VOC> | 1.00 | Fraction |
| Atmospheric Pressure (psia) | | Patm | 20 | <Rs> | 2070 | scf/bbl |

| Constants | | | |
|---|---|---|---|
| | $^{0}$API Gravity | | |
| $^{0}$APTI | <30 | ≥30 | Given$^{0}$API |
| C1 | 0.0362 | 0.0178 | |
| C2 | 1.0937 | 1.187 | |
| C3 | 25.724 | 23.931 | |

SGx = Dissolved gas gravity at Separator pressure = SGi [1.0+0.00005912*API*Ti*Log(Pi/114.7)]

Rs = (C1 * SGx * Pi^C2) exp ((C3 * API) / (Ti + 460)) for P + Patm

THC = Rs * Q * MW * 1/385 scf/lb-mole * 365 D/Yr * 1 ton/2000 lbs

VOC = THC * Frac. of C3+ in the Stock Tank Vapor

Technical Disclaimer
This document is intended to help you accurately determine oil/condensate storage tank flash, working and standing emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of oil/condensate storage tank flash, working and standing emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Gunbarrel Separator(s) VOC Working & Standing Emissions Calculations Form

**Select W & S Emission Calculation Method**

AP-42 Chpt. 7 | EPA Tanks 4.09d | ProMax | E & P Tanks

### ProMax Gunbarrel Separator W & S Emission Calculations

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

**Gunbarrel Separator VOC Control Method**

| | | | |
|---|---|---|---|
| Capture Efficiency | 100 | Represent Uncaptured and/or Controlled VOC's at Tanks | YES |
| VOC Control Method | Not Controlled | Represent VRU/ULPC Downtime Emissions at Tanks | NA |
| VOC Destruction Efficiency | 0 | Represent VOC Controlled Emissions at Tanks* | YES |

Notes: The gunbarrel is a separator and not a conventional tank; therefore, it does not have W&S emissions, only flash.

***Total VOC W & S Emissions From Gunbarrel Separator Calculated with ProMax***

| Add/Remove Rows Up To 10 Units | Tank ID | VOC Uncontrolled Emissions | | VOC Emissions after Control | | VOC Emissions at the Tanks | |
|---|---|---|---|---|---|---|---|
| | | pph | tpy | pph* | tpy* | pph | tpy |
| + - | GBS-1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Totals | 0 | 0 | 0 | 0 | 0 | 0 |



Notes 1 & 2 See next page; * Emissions only represented at tanks if "Yes" is selected to represent emissions at tanks.

# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Startup, Shutdown & Maintenance and Malfunction

- ○ No SSM emissions are expected from routine operations.
- ○ Request up to 10 tpy of VOC SSM emissions.
- ◉ Request site specific VOC & H2S SSM and enter information below.
- ○ Request site specific VOC & H2S SSM plus 10 tpy VOC and enter information below.
- ○ Request site specific combustion SSM and those emissions are included in Section 4 (attach calculations.)
- ○ Request 10 tpy VOC Malfunction emissions for GCP-O&G, GCP-6 or NSR permitting actions only.

| | Blowdowns | | | Engine Startups | | |
|---|---|---|---|---|---|---|
| Unit Numbers | | | | | | |
| Quantity of Like-kind Blowdown Units or Engines | 1 | | | | | |
| Total Volume of Each Blowdown or Engine Startup Vent (acf) | | | | | | |
| Duration of Event (Minutes) | | | | | | |
| Maximum Blowdowns or Startups/hr | 1 | | | | | |
| Frequency of Blowdowns or Engine Startups (Events/yr) | | | | | | |
| Total Actual Volume of Gas Vented (acf/yr) | 0 | | | | | |
| Pressure of Gas Inside Unit Before Venting (psig) | | | | | | |
| Final Pressure (psia) | 14.7 | | | | | |
| Gas Temperature Prior to Venting (°F) | | | | | | |
| Vented Gas Molecular Weight (lb/lb-mol | | | | | | |
| Vented Gas VOC wt % | | | | | | |
| Vented Total HAP wt % | | | | | | |
| Vented Gas Benzene wt % | | | | | | |
| Vented Gas $H_2S$ wt % | | | | | | |

Startup, Shutdown and Maintenance Emissions (SSM) and Malfunction Emissions

| SSM | VOC | | Total HAP | | Benzene | | $H_2S$ | |
|---|---|---|---|---|---|---|---|---|
| | PPH | TPY | PPH | TPY | PPH | TPY | PPH | TPY |
| SSM Blowdowns | | | | | | | | |
| SSM Startups | | | | | | | | |
| SSM Other (Attach Calculations) | 142.33 | 3.8 | 21.5 | 0.32 | | | | |
| **SSM Totals** | **142.33** | **3.8** | **21.5** | **0.32** | | | | |
| **Malfunction Total** | | | | | | | | |

Notes

## Planned SSM Emissions

The venting emissions calculations herein should only be used when only gas (no liquids) is present in the unit. The calculation of the vented gas is based on the volume of the unit and assumes the unit is saturated with vapor at the pressure and temperature of the unit before venting occurs. If liquids are also present in the gas, please enter the calculated amounts in the SSM Other row only and submit separate calculations, since the calculations on this form do not account for the evaporation of liquids that may be present in the unit.

Calculations are based on the Ideal gas law: P(V) = n(R)(T)

VOC result = (((Pressure of Gas Inside the Unit Before Venting) * (Actual Volume of the Vented Unit)) / (Frequency of events) * (Molecular Weight) * VOC wt%)/(Ideal Gas Constant) * (Temperature of Gas Inside the Unit Before Venting)

Where the Ideal Gas Constant = 10.73159 ($ft^3$*psia)/R*lb-mol

For SSM combustion emissions, attach separate calculations.

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

# Vertical Fixed Roof (VFR) Produced Water VOC Flash Emissions Calculations Form

## Select Tanks Flash Emission Calculation Method

| | | |
|---|---|---|
| GWR | E & P Tanks | ProMax |
| Vasquez-Beggs | HYSIS | VMGSim |

### ProMax Produced Water Tanks Emission Calculations

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

## Tanks VOC Control Method

| | | | |
|---|---|---|---|
| Select % Oil in Water | 1 | VOC Uncontrolled emissions entered includes this percentage. | |
| Capture Efficiency | 100 | Represent Uncaptured and/or Controlled VOC's at Tanks | YES |
| VOC Control Method | Not Controlled | Represent VRU/ULPC Downtime Emissions at Tanks | NA |
| VOC Destruction Efficiency | 0 | Represent VOC Controlled Emissions at Tanks* | YES |

Notes: The LB/HR calculations in this application are based on the maximum anticipated daily production level for the facility, which is 5,000 BWPD. The TPY calculations are based on the anticipated annual average daily production level for the facility, which is 1,800 BWPD.

## *Total VOC Emissions From Produced Water Storage Tanks Calculated with ProMax*

| Add/Remove Rows Up To 10 Units | Tank ID | VOC Uncontrolled Emissions | | VOC Emissions after Control | | VOC Emissions at the Tanks | |
|---|---|---|---|---|---|---|---|
| | | pph | tpy | pph* | tpy* | pph | tpy |
| + - | PWTK- 1 | 0.06 | 0.09 | 0 | 0 | 0.06 | 0.09 |
| + - | PWTK- 2 | 0.06 | 0.09 | 0 | 0 | 0.06 | 0.09 |
| | Totals | 0.12 | 0.18 | 0 | 0 | 0.12 | 0.18 |



Notes 1 & 2 See next page; * Emissions only represented at tanks if "Yes" is selected to represent emissions at tanks.

# Calculation Tool for Tanks Flashing & Working & Standing Emissions for Oil & Gas Production Sites

All flash emissions based on flash calculation methodology selected ;

1) The appropriate ECD, flare, TO, VCU or VRU form must also be completed.
2) Manufacturer documentation required to support % control selected. Assumes VRU/ULPC with a 100% control efficieny, but with 5% downtime;
3) Information included in calculation tool must be based on representative oil and gas analysis which must be submitted with application;
4) GOR and Vasquez-Beggs sample calculations outlined below; E & P Tanks, ProMax, HYSYS & VMG Sim flash emissions require submittal of computer simulation model emissions calculations print-outs;
5) Working & Standing emissions based on AP-42 Chpt. 7, tanks 4.09d computer simulation or ProMax, or VMG computer simulation models.

Sample Calculations

**GWR Methodology**

VOC pph = GWR (scf/bbl) * Facility Water Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lb-mole @ 70$^{O}$F, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol) * Percent Oil in Water
= 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol * 1/100
= 2.16 lbs/hr

VOC tpy = GWR (scf/bbl) * Facility Water Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lb-mole @ 70$^{O}$F, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol) * 8760 hr/yr * 1/2000 lbs/ton * Percent Oil in Water
= 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol * 8760 hr/yr * 1/2000 lbs/ton * 1/100
= 9.48 tpy

**Vasquez-Beggs Methodology**

| INPUTS | | | Constraints | | | |
|---|---|---|---|---|---|---|
| API Gravity | | API | 16 | <API> | 58 | $^{0}$API |
| Separator Pressure (psig) | | P | 50 | <P+Patm> | 5250 | psia |
| Separator Temp. ($^{0}$F) | | Ti | 70 | <Ti> | 295 | $^{0}$F |
| Separator Gas Gravity at Initial Condition | | SGi | 0.56 | <SGi> | 1.18 | MW/28.97 |
| Barrels of Water/Day (BOPD) | 2,500 | Q | None | <Q> | None | BOPD |
| Tank Gas MW | | MW | 18 | <MW> | 125 | lb/lb-mole |
| VOC Fraction of Tank Gas | | VOC | 0.5 | <VOC> | 1.00 | Fraction |
| Atmospheric Pressure (psia) | | Patm | 20 | <Rs> | 2070 | scf/bbl |

| Constants | | | |
|---|---|---|---|
| | $^{0}$API Gravity | | |
| $^{0}$APTI | <30 | ≥30 | Given$^{0}$API |
| C1 | 0.0362 | 0.0178 | |
| C2 | 1.0937 | 1.187 | |
| C3 | 25.724 | 23.931 | |

SGx = Dissolved gas gravity at Separator pressure = SGi [1.0+0.00005912*API*Ti*Log(Pi/114.7)]

Rs = (C1 * SGx * Pi^C2) exp ((C3 * API) / (Ti + 460)) for P + Patm

THC = Rs * Q * MW * 1/385 scf/lb-mole * 365 D/Yr * 1 ton/2000 lbs

VOC = THC * Frac. of C3+ in the Stock Tank Vapor

Technical Disclaimer
This document is intended to help you accurately determine produced water storage tank flash, working and standing emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of produced water storage tank flash, working and standing emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Vertical Fixed Roof (VFR) Water Tanks VOC Working & Standing Emissions Calculations Form

**Select Tanks W & S Emission Calculation Method**

AP-42 Chpt. 7 | EPA Tanks 4.09d | ProMax | E & P Tanks

## ProMax Produced Water Tanks W & S Emission Calculations

**(Assumes W & S emissions are 1% of the emissions calculated based on oil properties and entered as uncontrolled emissions)**

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

**Tanks VOC Control Method**

| | | | |
|---|---|---|---|
| Capture Efficiency | 100 | Represent Uncaptured and/or Controlled VOC's at Tanks | YES |
| VOC Control Method | Not Controlled | Represent VRU/ULPC Downtime Emissions at Tanks | NA |
| VOC Destruction Efficiency | 0 | Represent VOC Controlled Emissions at Tanks* | YES |

Notes: The LB/HR calculations in this application are based on the maximum anticipated daily production level for the facility, which is 5,000 BWPD. The TPY calculations are based on the anticipated annual average daily production level for the facility, which is 1,800 BWPD.

***Total VOC W & S Emissions From Produced Water Storage Tanks Calculated with ProMax***

| Add/Remove Rows Up To 10 Units | Tank ID | VOC Uncontrolled Emissions | | VOC Emissions after Control | | VOC Emissions at the Tanks | |
|---|---|---|---|---|---|---|---|
| | | pph | tpy | pph* | tpy* | pph | tpy |
| + - | PWTK-1 | 1.2 | 0.37 | 0 | 0 | 1.2 | 0.37 |
| + - | PWTK-2 | 1.2 | 0.37 | 0 | 0 | 1.2 | 0.37 |
| | Totals | 2.4 | 0.74 | 0 | 0 | 2.4 | 0.74 |



Notes 1 & 2 See next page; * Emissions only represented at tanks if "Yes" is selected to represent emissions at tanks.

# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Emissions From Loading Produced Water Liquids

*Select Appropriate AP-42 Petroleum Liquid Loading Methodology & Enter appropriate information in the green boxes below changing default values as appropriate.*

Emission Unit ID: PWLOAD-1

| | |
|---|---|
| Facility Produced Water Throughput (gal/yr) | 13,797,000 |
| Max. Hourly Loading Rate (gal/hr) | 22,680 |
| **% Oil in Water** | 1 |

*Select Appropriate AP-42 Petroleum Liquid Loading Methodology Below**

(●) AP-42, 5.2-4 Equation 1 ( ) AP-42, Table 5.2-5

| | |
|---|---|
| **S** - Saturation Factor (From AP-42 Table 5.2-1) | 0.6 |
| **M** - Molecular Weight of Vapors (lb/lb-mole) | 40.82 |
| **$P_{annual}$** - Avg. Annual True Vapor Pressure of Liquid Loaded (psia) | 11.51 |
| **$P_{hourly}$** - Max Hourly True Vapor Pressure of Liquid Loaded (psia) | 12.21 |
| **$T_{annual}$** - Average Annual Temperature $^{o}F$ of Bulk Liquid Loaded | 66.43 |
| **$T_{hourly}$** - Maximum Hourly Temperature $^{o}F$ of Bulk Liquid Loaded | 99.97 |

**Select Emission Source** - From AP-42 Table 5.2-5

- ( ) Submerged Loading Dedicated Normal Service
- ( ) Submerged Loading Vapor Balance Service
- ( ) Splash Loading Dedicated Normal Service
- ( ) Splash Loading Vapor Balance Service

Notes:Under normal operation all water is piped offsite. To account for periods when the water pipeline is unavailable, approximately 328,500 barrels of water can be trucked offsite per year.

***Total VOC Emissions From Loading Produced Water Liquids Based On % Oil in Water Selected Above***

| Pollutant | Uncontrolled Emissions (pph) | Uncontrolled Emissions (tpy) |
|---|---|---|
| VOC | 1.51 | 0.46 |

Footnote: * All emission factors based on AP-42, 5.2-4 Equation 1 or AP-42 Table 5.2-5 (July 2008); See reverse side for calculation notes

# Calculation Tool for Emissions From Loading Produced Water Liquids

Emissions based on AP-42, 5.2-4 Equation 1 (July 2008) or AP-42, Table 5.2-5

https://www3.epa.gov/ttn/chief/ap42/ch05/final/c05s02.pdf

**AP-42 5.2-4 Equation 1**

Emissions from loading produced water liquids can be estimated (with a probable error of ±30 percent)[4] using the following expression:

Equation 1 $L_L = 12.46 * SPM/T$

where:

$L_L$ = loading loss, pounds per 1000 gallons (lb/$10^3$ gal) of liquid loaded (assumes 1% oil in water)

S = a saturation factor (see Table 5.2-1 reproduced below))

P = true vapor pressure of liquid loaded, pounds per square inch absolute (psia) (see Section 7.1, "Organic Liquid Storage Tanks")

M = molecular weight of vapors, pounds per pound-mole (lb/lb-mole) (see Section 7.1, "Organic Liquid Storage Tanks")

T = temperature of bulk liquid loaded, °R (°F + 460)

VOC pph = (12.46*0.6*7.0 (psia)*50 (lb/lb-mole)/550°R)/1000 (gal) * 8400 (gal/hr) * 0.01 (1% oil in water)
= 39.96 lb/hr

VOC tpy = (12.46*0.6*4.5 (psia)*50 (lb/lb-mole)/525°R)/1000 * 1533000 (gal/hr) * 1/2000 (ton/lbs) * 0.01 (1% oil in water)
= 2.46 tpy

**Table 5.2-1. SATURATION (S) FACTORS FOR CALCULATING PETROLEUM LIQUID LOADING LOSSES**

| Cargo Carrier | Mode of Operation | S Factor |
|---|---|---|
| Tank trucks and rail tank cars | Submerged loading of a clean cargo tank | 0.5 |
| | Submerged loading: dedicated normal service | 0.6 |
| | Submerged loading: dedicated vapor balance service | 1.0 |
| | Splash loading of a clean cargo tank | 1.45 |
| | Splash loading: dedicated normal service | 1.45 |
| | Splash loading: dedicated vapor balance service | 1.0 |
| Marine vessels[a] | Submerged loading: ships | 0.2 |
| | Submerged loading: barges | 0.5 |

[a] For products other than gasoline and crude oil. For marine loading of gasoline, use factors from Table 5.2-2. For marine Loading of crude oil, use Equations 2 and 3 and Table 5.2-3.

**AP-42 Table 5.2-5** (assumes 1% oil in water)

VOC pph= (2lb/1000 (gal) * ((100-15)/100) * 8400 (gal/hr) * 0.01 (1% oil in water) = 0.168 pph

VOC tpy = (2lb/1000 (gal) * ((100-15)/100) * 100 (BOPD) * 42 (gal/bbl) * 365 (days/yr) * 1/2000 (ton/lb) * 0.01 (1% oil in water) = 0.0153 tpy

**Table 5.2-5 TOTAL UNCONTROLLED ORGANIC EMISSION FACTORS FOR PETROLEUM LIQUID RAIL TANK CARS AND TANK TRUCKS**

| Emission Source | Mode of Operation | Crude Oil (lb/1000 gal transferred)[b] |
|---|---|---|
| Loading Operations[c] | | |
| | Submerged loading: dedicated normal service | 2 |
| | Submerged loading: dedicated vapor balance service | 3 |
| | Splash loading: dedicated normal service | 5 |
| | Splash loading: dedicated vapor balance service | 3 |

a Reference 2. ……VOC factors for crude oil can be assumed to be 15% lower than the total organic factors, to account for the methane and ethane content of crude oil evaporative emissions. All other products should be assumed to have VOC factors equal to total organics; b The example crude oil has an RVP of 34 kPa (5 psia); c Loading emission factors are calculated using Equation 1 for a dispensed product temperature of 16°C (60°F). In the absence of specific inputs for Equations 1 , the typical evaporative emission factors presented in Tables 5.2-5 should be used. It should be noted that, although the crude oil used to calculate the emission values presented in this tables has an RVP of 5, the RVP of crude oils can range from less than 1 up to 10. In areas where loading and transportation sources are major factors affecting air quality, it is advisable to obtain the necessary parameters and to calculate emission estimates using Equations 1.

Technical Disclaimer

This document is intended to help you accurately determine truck loading produced water emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how truck loading operations work and how it generates emissions, how it is monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of truck loading produced water emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Enclosed Combustion Device (ECD)

*Enter information in green boxes below changing default values as appropriate.*

| | | | |
|---|---|---|---|
| Emission Unit ID: | ECD-1 | Hourly Gas Routed to ECD (MMBtu/hr) | 10.462764 |
| Hourly Gas Stream to ECD (Mscf/hr): | 4.4494 | Annual Gas Routed to ECD (MMBtu/yr) | 42,375.9112 |
| Annual Gas Stream to ECD (MMscf/yr): | 18.0208 | Pilot Gas Routed to ECD (MMBtu/hr) | 0.1531 |
| Max. Heat Value of Field Gas (Btu/scf) | 2,351.5 | Gas MW (lb/lbmol) | |
| Field Gas Mol Fraction: (lbmol H2S/lb-mol) | 0.003 | Gas Pressure (psia) | 14.7 |
| Field Gas Sulfur Content (S grains/100scf) | 5 | Gas Temperature ( $^0$ F) | 70 |
| Pilot Gas to ECD (Mscf/h): | 0.13 | Field Gas H2S Wt.% to ECD (%) | |
| Max. Heat Value of Pilot Gas (Btu/scf) | 1,177.69 | Flare Control Efficiency: | 98 |
| Pilot Gas Sulfur Content (S grains/100scf) | 0.25 | Total VOC wt% to ECD (%)[1]: | 100 |
| Source of ECD Emission Factors | TCEQ Air or Unassist | Safety Factor (%) Applied to Total Emissions: | 0 |
| Use Highest Emission Factors From AP-42 or TCEQ EF For NOx & CO | YES | | |

Indicate in Box Below What Emission Units the Enclosed Combustion Device is Controlling

Units TK-1 through TK-4

## *Total Emissions From Enclosed Combustion Device*

| Pollutant | Uncontrolled Emissions (pph) | Uncontrolled Emissions (tpy) | Field Gas To ECD Emissions (pph) | Field Gas To ECD Emissions (tpy) | Pilot Gas ECD Emissions[2] (pph) | Pilot Gas ECD Emissions[2] (tpy) | Total ECD Emissions (pph) | Total ECD Emissions (tpy) |
|---|---|---|---|---|---|---|---|---|
| NOx* | 0 | 0 | 1.4439 | 2.9239 | 0.0211 | 0.0925 | 1.465 | 3.0164 |
| CO* | 0 | 0 | 3.2435 | 6.5683 | 0.0475 | 0.2079 | 3.291 | 6.7762 |
| VOC* | 416.21 | 857.27 | 8.3242 | 17.1454 | 0 | 0 | 8.3242 | 17.1454 |
| SO2# | 0 | 0 | 0.0217 | 0.044 | 0.0001 | 0.0004 | 0.0218 | 0.0444 |
| H2S+ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

See reverse side for calculation notes.
1) Based on representative gas analysis which must be submitted with application;
2) Assumes pilot gas has a negligible amount of VOC & 0.25 grains H2S/100scf;
*) Emission factors for NOx, CO & VOC based on AP-42, Table 13.5-1, (Dec. 2015) or TCEQ RG-360A/11 (February 2012)
#) Assumes $H_2S$ is converted to $SO_2$ at selected control efficiency; SO2 emissions based on mass balance;
+) Assumes $H_2S$ Destruction Efficiency equals flare destruction efficiency;

# Calculation Tool for Enclosed Combustion Device Emissions for Oil & Gas Production Sites

All emission factors based on AP-42, Table 1.4-1, Table 1.4-2 and Table 1.4-3 (July 1998)
https://www3.epa.gov/ttn/chief/ap42/ch01/final/c01s04.pdf

1) Information included in calculation tool must be based on representative gas analysis which must be submitted with application;
2) Assumes pilot gas has a negligible amount of VOC's and 0.25 grains H2S/100 scf;
3) $SO_2$ calculations assumes $H_2S$ is converted to $SO_2$ at selected control efficiency; $SO_2$ emissions based on mass balance;
4) $H_2S$ calculations assume $H_2S$ Destruction Efficiency equals thermal oxidizer destruction efficiency;

Sample Calculations

NOx pph = hourly gas routed to TO (MMScf/hr) * NOx Emission factor (lbs/MMScf) * Field Gas Heat Rate/1020 Btu/scf )
= 1(MMScf/hr) * 100 (lbs/MMScf) * 1200 (Btu/scf)/1020 (Btu/scf)
= 117.65 lbs/hr

NOx tpy = annual gas routed to TO (MMScf/yr) * NOx Emission factor (lbs/MMScf) * Field Gas Heat Rate/1020 (Btu/scf ) * 1 (ton)/2000 (lbs)
= 1 (MMBtu/yr) * 100 (lb/MMScf) * 1200 (Btu/scf)/1020 (Btu/scf) * 1/2000 (lbs/ton)
= 0.059 tpy

$SO_2$ pph = Hourly Gas Stream to TO (MMScf/hr) * 1000000/1 (scf/MMScf) * Field Gas mol Fraction of $H_2S$ (mol $H_2S$/lb-mol)/100 * 1/Universal Gas Constant 385 scf/lb-mole @ 60$^{O}$F, 1 atm * Conversion Rate of $H_2S$ to $SO_2$ lb-mol $SO_2$/lb-mol $H_2S$ * Molecular Weight of Sulfur Dioxide (64 lb $SO_2$/lb-mol $SO_2$)
= 1 MMScf/hr * 1000000/1 (Scf/MMScf) * 0.1 mol $H_2S$* 1/385 scf/lb-mole * 0.98 lb-mol $SO_2$/lb-mol $H_2S$ * 64 lb/lb-mol

Residual $H_2S$ pph = Hourly Gas Stream to TO (MMScf/hr) * 1000000/1 (scf/MMScf) * Field Gas mol Fraction of $H_2S$ (mol $H_2S$/lb-mol)/100 * 1/Universal Gas Constant 385 scf/lb-mole @ 60$^{O}$F, 1 atm * (100-(Flare Control Efficiency))/100) * Molecular Weight of Hydrogen Sulfide (34 lb $H_2S$/lb-mol $H_2S$)
= 1 MMScf/hr * 1000000/1 (Scf/MMScf) * 0.1 mol $H_2S$* 1/385 scf/lb-mole * (100-98%/100) * 34 lb/lb-mol

Technical Disclaimer
This document is intended to help you accurately determine enclosed combustion device emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these combustion units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of enclosed combustion device emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Flare

*Enter information in green boxes below changing default values as appropriate.*

| | Gas Stream 1 | Gas Stream 2 | Gas Stream 3 | | Gas Stream 1 | Gas Stream 2 | Gas Stream 3 |
|---|---|---|---|---|---|---|---|
| Emission Unit ID | FL-1 | FL-1b | FL-1c | Hourly Gas Routed to Flare (MMBtu/hr) | 0 | 0 | 0 |
| Hourly Gas Stream to Flare (Mscf/hr) | | | | Annual Gas Routed to Flare (MMBtu/yr) | 0 | 0 | 0 |
| Annual Gas Stream to Flare (MMscf/yr) | | | | Pilot Gas Routed to Flare (MMBtu/hr) | 0.1531 | 0 | 0 |
| Max. Heat Value of Gas (Btu/scf) | 1,200 | 1,200 | 1,200 | Gas MW (lb/lbmol) | | | |
| Field Gas Mol Fraction (lbmol H2S/lb-mol) | | | | Gas Pressure (psia) | 14.7 | 14.7 | 14.7 |
| Field Gas Sulfur Content (S grains/100 scf) | 5 | 5 | 5 | Gas Temperature (°F) | 70 | 70 | 70 |
| Pilot Gas to Flare (Mscf/hr) | 0.13 | | | Field Gas H2S Wt.% to Flare (%) | | | |
| Max. Heat Value Pilot Gas (Btu/scf) | 1,177.69 | 1,020 | 1,020 | Flare Control Efficiency | 95 | 95 | 95 |
| Pilot Gas Sulfur Content (S grains/100 scf) | 0.25 | 0.25 | 0.25 | Total VOC wt.% to Flare (%)[1] | 100 | 100 | 100 |
| Source of Flare Emission Factors | TCEQ Air or | | | Safety Factor Applied to Total Emissions (%) | | | |
| Use Highest NOx & CO Emission Factors From AP-42 or TCEQ | YES | | | | | | |

### Total Emissions to Flare

| Pollutant | NOx | | | CO | | | VOC | | | SO2 | | | H2S | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gas Streams to Flare | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Uncontrolled (pph) | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Uncontrolled (tpy) | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Gas (pph) | | | | | | | | | | | | | | | |
| Field Gas (tpy) | | | | | | | | | | | | | | | |
| Pilot Gas (pph) | 0.0211 | | | 0.0475 | | | 0 | 0 | 0 | 0.0001 | 0 | 0 | 0 | 0 | 0 |
| Pilot Gas (tpy) | 0.0925 | | | 0.2079 | | | 0 | 0 | 0 | 0.0004 | 0 | 0 | 0 | 0 | 0 |
| Subtotal Flare (pph) | 0.0211 | 0 | 0 | 0.0475 | 0 | 0 | 0 | 0 | 0 | 0.0001 | 0 | 0 | 0 | 0 | 0 |
| Subtotal Flare (tpy) | 0.0925 | 0 | 0 | 0.2079 | 0 | 0 | 0 | 0 | 0 | 0.0004 | 0 | 0 | 0 | 0 | 0 |
| Total Flare (pph) | 0.02 | | | 0.05 | | | 0 | | | 0.0001 | | | 0 | | |
| Total Flare (tpy) | 0.09 | | | 0.21 | | | 0 | | | 0.0004 | | | 0 | | |

See reverse side for calculation notes.

1) Based on representative gas analysis which must be submitted with application; 2) Assumes pilot gas has a negligible amount of VOC & 0.25 grains H2S/100scf; *) Emission factors for NOx, CO & VOC based on AP-42, Table 13.5-1, (Dec. 2015) or TCEQ RG-360A/11 (February 2012); #) Assumes $H_2S$ is converted to $SO_2$ at selected control efficiency; SO2 emissions based on mass balance; +) Assumes $H_2S$ Destruction Efficiency equals flare destruction efficiency;

# Calculation Tool for Flare Emissions for Oil & Gas Production Sites

All emission factors based on AP-42, Emission factors for NOx, CO & VOC, Table 13.5-1, (December 2016); https://www3.epa.gov/ttn/chief/ap42/ch13/final/C13S05_12-13-16.pdf or https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg360/rg36011/rg-360a.pdf

1) Information included in calculation tool must be based on representative gas analysis which must be submitted with application;
2) Assumes pilot gas used has a negligible amount of VOC's and 0.25 grains H2S/100 scf;
3) $SO_2$ calculations assumes $H_2S$ is converted to $SO_2$ at selected control efficiency; $SO_2$ emissions based on mass balance;
4) $H_2S$ calculations assume $H_2S$ Destruction Efficiency equals flare destruction efficiency;

Sample Calculations

NOx pph = hourly gas routed to flare (MMBtu/hr) * NOx Emission factor (lbs/MMBtu)
= 1(MMBtu/hr) * 0.068 (lbs/MMBtu)
= 0.068 lbs/hr

NOx tpy = annual gas routed to flare (MMBtu/yr) * NOx Emission factor (lbs/MMBtu) * 1/lbs/ton)
= 1000 (MMBtu/yr) * 0.068 (lb/MMBtu) * 1/2000 (lbs/ton)
= 0.034 tpy

$SO_2$ pph= Hourly Gas Stream to flare (MMScf/hr) * 1000000/1 (scf/MMScf) * Field Gas mol Fraction of $H_2S$ (mol $H_2S$/lb-mol)/100 * 1/Universal Gas Constant 385 scf/lb-mole @ 60$^{O}$F, 1 atm * Conversion Rate of $H_2S$ to $SO_2$ lb-mol $SO_2$/lb-mol $H_2S$ * Molecular Weight of Sulfur Dioxide (64 lb $SO_2$/lb-mol $SO_2$)
= 1 MMScf/hr * 1000000/1 (Scf/MMScf) * 0.1 mol $H_2S$* 1/385 scf/lb-mole * 0.95 lb-mol $SO_2$/lb-mol $H_2S$ * 64 lb/lb-mol

Residual

$H_2S$ pph= Hourly Gas Stream to flare (MMScf/hr) * 1000000/1 (scf/MMScf) * Field Gas mol Fraction of $H_2S$ (mol $H_2S$/lb-mol)/100 * 1/Universal Gas Constant 385 scf/lb-mole @ 60$^{O}$F, 1 atm * (100-(Flare Control Efficiency))/100) * Molecular Weight of Hydrogen Sulfide (34 lb $H_2S$/lb-mol $H_2S$)
= 1 MMScf/hr * 1000000/1 (Scf/MMScf) * 0.1 mol $H_2S$* 1/385 scf/lb-mole * (100-95%/100) * 34 lb/lb-mol

| Flare, Vapor Combustion Devices & Enclosed Combustion Devices Emission Factors | | | | |
|---|---|---|---|---|
| Contaminant | Assist Type | Waste Gas Stream Heat Value (Btu/scf) | AP-42 Emission Factor (lb/MMBtu) | TCEQ Emission Factor (lb/MMBtu) |
| NOx | Steam | ≥1000 | 0.068 | 0.0485 |
| | Steam | <1000 | 0.068 | 0.068 |
| | Air or Unassisted | ≥1000 | 0.068 | 0.138 |
| | Air or Unassisted | <1000 | 0.068 | 0.0641 |
| CO | Steam | ≥1000 | 0.31 | 0.3503 |
| | Steam | <1000 | 0.31 | 0.3465 |
| | Air or Unassisted | ≥1000 | 0.31 | 0.2755 |
| | Air or Unassisted | <1000 | 0.31 | 0.5496 |
| VOC | Air & Steam Assist | ≥300 | 0.66 | |

Technical Disclaimer

This document is intended to help you accurately determine flares, enclosed combustion devices and vapor combustion units emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these combustion units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of flares, enclosed combustion devices and vapor combustion units emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

**Emission Unit ID:** FUG-1 **Fill all green/blue boxes changing default values as appropriate.**

## Fugitive Volatile Organic Compounds (VOC), Total HAPs (HAP), Benzene (CH6) & Hydrogen Sulfide ($H_2S$) Emissions

| | | | | | Uncontrolled Total | | | | | | | | Controlled Total | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOC | | Total HAP | | $CH_6$ | | $H_2S$ | | VOC | | Total HAP | | $CH_6$ | | $H_2S$ | |
| Service | %VOC | %HAP | %$CH_6$ | %$H_2S$ | PPH | TPY | PPH | TPY | PPH | TPY | PPH | TPY | PPH | TPY | PPH | TPY | PPH | TPY | PPH | TPY |
| Gas | 29.5% | 2.1 | 0.15 | | 0.34 | 1.48 | 0.02 | 0.1 | 0.002 | 0.007 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Heavy Oil | 100% | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Light Oil | 99.2% | 9.64 | 0.9 | | 0.45 | 1.97 | 0.04 | 0.19 | 0.004 | 0.017 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water/Oil | 0.013% | 0.008 | 0.004 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals | | | | | 0.79 | 3.45 | 0.06 | 0.29 | 0.006 | 0.024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | Uncontrolled VOC, HAP & $CH_6$ Emissions | | | | | | | Controlled VOC, HAP & $CH_6$ Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment Type | Service[a] | EF[b] PPH/Source | No. of Sources | VOC PPH | VOC TPY | HAP PPH | HAP TPY | $CH_6$ PPH | $CH_6$ TPY | Control Efficiency | VOC PPH | VOC TPY | HAP PPH | HAP TPY | $CH_6$ PPH | $CH_6$ TPY |
| Valves | Gas | 0.0099207 | 65 | 0.1902 | 0.8331 | 0.0135 | 0.0591 | 0.001 | 0.0044 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Heavy Oil | 0.00001852 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Light Oil | 0.0055115 | 47 | 0.257 | 1.1257 | 0.025 | 0.1095 | 0.0023 | 0.0101 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Water/Oil | 0.00021605 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotals | | | | 0.4472 | 1.9588 | 0.0385 | 0.1686 | 0.0033 | 0.0145 | | 0 | 0 | 0 | 0 | 0 | 0 |
| Pump Seals | Gas | 0.00529104 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | | 0 |
| | Heavy Oil | 0.0286598 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Light Oil | 0.0286598 | 2 | 0.0569 | 0.2492 | 0.0055 | 0.0241 | 0.0005 | 0.0022 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Water/Oil | 0.00005291 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotals | | | | 0.0569 | 0.2492 | 0.0055 | 0.0241 | 0.0005 | 0.0022 | | 0 | 0 | 0 | 0 | 0 | 0 |
| Connectors | Gas | 0.00044092 | 182 | 0.0237 | 0.1038 | 0.0017 | 0.0074 | 0.0001 | 0.0004 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Heavy Oil | 0.00001653 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Light Oil | 0.00046297 | 112 | 0.0514 | 0.2251 | 0.005 | 0.0219 | 0.0005 | 0.0022 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Water/Oil | 0.00024251 | 84 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotals | | | | 0.0751 | 0.3289 | 0.0067 | 0.0293 | 0.0006 | 0.0026 | | 0 | 0 | 0 | 0 | 0 | 0 |
| Flanges | Gas | 0.00085979 | 101 | 0.0256 | 0.1121 | 0.0018 | 0.0079 | 0.0001 | 0.0004 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Heavy Oil | 0.00000086 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Light Oil | 0.00024251 | 100 | 0.0241 | 0.1056 | 0.0023 | 0.0101 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Water/Oil | 0.00000639 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotals | | | | 0.0497 | 0.2177 | 0.0041 | 0.018 | 0.0001 | 0.0004 | | 0 | 0 | 0 | 0 | 0 | 0 |
| Open Ends | Gas | 0.0044092 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Heavy Oil | 0.00030864 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Light Oil | 0.00308644 | 4 | 0.0122 | 0.0534 | 0.0012 | 0.0053 | 0.0001 | 0.0004 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Water/Oil | 0.00055115 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotals | | | | 0.0122 | 0.0534 | 0.0012 | 0.0053 | 0.0001 | 0.0004 | | 0 | 0 | 0 | 0 | 0 | 0 |
| Other[c] | Gas | 0.01940048 | 17 | 0.0973 | 0.4262 | 0.0069 | 0.0302 | 0.0005 | 0.0022 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Heavy Oil | 0.00007055 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Light Oil | 0.0165345 | 3 | 0.0492 | 0.2155 | 0.0048 | 0.021 | 0.0004 | 0.0018 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Water/Oil | 0.0308644 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotals | | | | 0.1465 | 0.6417 | 0.0117 | 0.0512 | 0.0009 | 0.004 | | 0 | 0 | 0 | 0 | 0 | 0 |

Based on: *1995 Protocol for Equipment Leak Emission Estimates*, Table 2.4 Version Date: 6/23/16; See next page for calculation notes.

# Calculation Tool for Fugitive Emissions Oil & Gas Production

Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017), Table 2-4;
available at the EPA Web site at https://www3.epa.gov/ttn/chief/efdocs/equiplks.pdf

a) Service categories are defined as follows:

1) Gas/vapor - material in a gaseous state at operating conditions;

2) Light liquid - material in a liquid state in which the sum of the concentration of individual constituents with a vapor pressure over 0.3 kilopascals (kPa) at 200C is greater than or equal to 20 weight percent;

3) Heavy liquid - not in gas/vapor service or light liquid service.

4) Water/Oil emission factors apply to water streams in oil service with a water content greater than 50%, from the point of origin to the point where the water content reaches 99%. For water streams with a water content greater than 99%, the emission rate is considered negligible.

b) These factors are for total organic compound emission rates (including non-VOC's such as methane and ethane) and apply to light crude, heavy crude, gas plant, gas production, and off shore facilities. "NA" indicates that not enough data were available to develop the indicated emission factor.

c) The "other" equipment type was derived from compressors, diaphragms, drains, dump arms, hatches, instruments, meters, pressure relief valves, polished rods, relief valves, and vents. This "other" equipment type should be applied for any equipment type other than connectors, flanges, open-ended lines, pumps, or valves.

d) Note that the average factors generally determine total hydrocarbon emissions. Therefore, you may need to multiply the calculated emission rates by the stream's weight percentage of VOC compounds to determine total VOC emissions. Please attach a copy of the appropriate gas and oil analysis with the stream's weight percentage of VOC compounds identified.

VOC Sample Calculation
For 10 Valves in Gas Service with a gas stream weight percentage of 25% VOC

Emission Factor (EF) lb/hr=0.0045 kg/hr * 2.2046 lbs/kg
Gas Valves Uncontrolled Emissions

pph EF (Valves in Gas Service) * Number of Valves in Gas Service & VOC wt%
0.0099207 lb/hr * 10 valves = 0.099207 lb/hr * 25%/100

tpy EF (Valves in Gas Service) * Number of Valves in Gas Service * 8760 hrs/yr * 1ton/2000 lbs
0.0099207 lb/hr * 10 valves * 8760 hrs/yr * 1/2000 ton/lbs = 0.4345 tons/yr * 25%/100

Total Uncontrolled Fugitive Emissions for all Service types in Gas Service

pph (Uncontrolled pph Emissions for Valves + Pump Seals + Connectors + Flanges + Open Ends + Other) * VOC wt%/100

tpy (Uncontrolled tpy Emissions for Valves + Pump Seals + Connectors + Flanges + Open Ends + Other) * VOC wt%/100

Technical Disclaimer
This document is intended to help you accurately determine equipment leak fugitive emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how piping components work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as we continue our scientific studies and as new information becomes available. We welcome any data, information, or feedback that may improve our understanding of equipment leak fugitive emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Unpaved Haul Roads

**Enter Information in all green boxes.**

**Haul Road Fugitive Emission Unit ID:** ROAD-1

| | | | |
|---|---|---|---|
| **% Silt** | 4.8 | **Haul Road Distance-Round-trip in Miles (Only enter round-trip distance within facility boundaries)** | 0.2 |
| **Mean Vehicle Weight (tons)** | 29.4 | **Number of Haul Road Round-trips/hour** | 6 |
| **Rain Days** | 70 | **Number of Haul Road Round-trips/yr** | 3,549 |
| **User % Control** | 0 | **Vehicle Miles Traveled/hr (VMT/hr)** | 1.2 |
| | | **Vehicle Miles Traveled/yr (VMT/yr)** | 709.8 |

**Notes:**

| Hourly lbs/VMT | | | Annually lbs/VMT | | |
|---|---|---|---|---|---|
| **TSP** | **PM10** | **PM2.5** | **TSP** | **PM10** | **PM2.5** |
| 7.21 | 1.84 | 0.18 | 5.83 | 1.49 | 0.15 |

**TSP/PM10/PM2.5 Emission Rates**

| Control | TSP | | PM10 | | PM2.5 | |
|---|---|---|---|---|---|---|
| | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr |
| **Continuous** | 8.65 | 30.64 | 2.21 | 7.83 | 0.22 | 0.79 |
| **0% Control** | 8.65 | 2.07 | 2.21 | 0.53 | 0.22 | 0.05 |
| **User % Control** | 8.65 | 2.07 | 2.21 | 0.53 | 0.22 | 0.05 |

Footnote: All emissions based on AP-42, 13.2.2-4 (November 2006); See reverse side for calculation notes.

# NMED-AQB Unpaved Haul Road Calculation Tool

**All emission factors based on AP-42,** AP-42 13.2.2-4; November 2006
https://www3.epa.gov/ttn/chief/ap42/ch13/final/c13s0202.pdf

Emissions from vehicles traveling on unpaved surfaces at industrial sites (based on 8760 Hours/year) can be estimated using the following expression:

AP-42 13.2.2-4; Equation 1a: $$E = k\,(s/12)^a (W/3)^b$$

where k, a, b, c and d are empirical constants (Reference 6) given below and

E = size-specific emission factor (lb/VMT)

s = surface material silt content (%)

W = mean vehicle weight (tons)

M = surface material moisture content (%)

Table 13.2.2-2. CONSTANTS FOR EQUATION 1a

| Constant | Industrial Roads (Equation 1a) | | |
|---|---|---|---|
| | PM-2.5 | PM-10 | PM-30* |
| k (lb/VMT) | 0.15 | 1.5 | 4.9 |
| a | 0.9 | 0.9 | 0.7 |
| b | 0.45 | 0.45 | 0.45 |
| Quality Rating | B | B | B |

*Assumed equivalent to total suspended particulate matter (TSP)

Technical Disclaimer

This document is intended to help you accurately determine unpaved haul road emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how unpaved haul roads work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as we continue our scientific studies and as new information becomes available. We welcome any data, information, or feedback that may improve our understanding of unpaved haul road emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

# New Mexico Environment Department Air Quality Bureau Emissions Calculation Forms

**Date:** Feb 4, 2021
**Company Name:** Devon Energy Production Company, L.P.
**Facility Name:** Broadside 1H Battery
**Permit Number:**
**AI# if Known:**
**Elevation (ft.):** 3,603

Total Potential Emission Rate For All Regulated Facility Equipment (NOI Request)

| Emission Unit | $NO_x$ | | CO | | VOC | | $SO_x$ | | TSP | | $PM_{10}$ | | $PM_{2.5}$ | | $H_2S$ | | Total HAP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr |
| Engines | 0.45 | 1.96 | 0.9 | 3.92 | 0.36 | 1.56 | 0 | 0 | 0.03 | 0.13 | 0.03 | 0.13 | 0.03 | 0.13 | - | - | 0.05 | 0.23 |
| Heaters | 0.06 | 0.25 | 0.05 | 0.21 | 0 | 0.01 | 0 | 0 | 0 | 0.02 | 0 | 0.02 | 0 | 0.02 | - | - | | |
| Oil Tanks Flash | - | - | - | - | 7.64 | 16.2 | - | - | - | - | - | - | - | - | | | | |
| Oil Tanks W & S | - | - | - | - | 0.84 | 1.32 | - | - | - | - | - | - | - | - | | | | |
| Water Tks Flash | - | - | - | - | 0.12 | 0.18 | - | - | - | - | - | - | - | - | | | | |
| Water Tks W & S | - | - | - | - | 2.4 | 0.74 | - | - | - | - | - | - | - | - | | | | |
| Skim or Slop Tank | - | - | - | - | | | - | - | - | - | - | - | - | - | | | | |
| GBS | - | - | - | - | 3.63 | 5.72 | - | - | - | - | - | - | - | - | | | | |
| ECD | 1.47 | 3.02 | 3.29 | 6.78 | 8.32 | 17.15 | 0.02 | 0.04 | | | | | | | | | | |
| VCU | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | |
| TO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | |
| Flares | 0.02 | 0.09 | 0.05 | 0.21 | 0 | 0 | 0 | 0 | | | | | | | | | | |
| Fugitives | - | - | - | - | 0.79 | 3.45 | | | | | | | | | 0 | 0 | 0.06 | 0.29 |
| SSM | | | | | 142.33 | 3.8 | | | | | | | | | | | 21.5 | 0.32 |
| Malf. | - | - | - | - | - | | - | - | - | - | - | - | - | - | - | - | - | - |
| Unpaved Haul Rds. | - | - | - | - | - | - | - | - | 8.65 | 2.07 | 2.21 | 0.53 | 0.22 | 0.05 | - | - | - | - |
| Paved Haul Rds. | - | - | - | - | - | - | - | - | 0 | 0 | 0 | 0 | 0 | 0 | - | - | 0 | 0 |
| Oil Load | - | - | - | - | 150.92 | 43.47 | - | - | - | - | - | - | - | - | | | | |
| Water Loading | - | - | - | - | 1.51 | 0.46 | - | - | - | - | - | - | - | - | | | | |
| Amine Unt | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - | 0 | 0 | 0 | 0 |
| Amine Reb | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | | |
| Dehy Unit | - | - | - | - | | | - | - | - | - | - | - | - | - | | | | |
| Dehy Reb. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | | |
| **Totals** | **2** | **5.32** | **4.29** | **11.12** | **318.86** | **94.06** | **0.02** | **0.04** | **8.68** | **2.22** | **2.24** | **0.68** | **0.25** | **0.2** | **0** | **0** | **21.61** | **0.84** |

A red-outlined cell indicates that the facility exceeds the allowable emission limits for that pollutant for the requested permitting action and the application cannot be approved as proposed.

## Alicia Beasley

**From:** Poley, Richard, NMENV <Richard.Poley@state.nm.us>
**Sent:** Wednesday, November 7, 2018 8:53 AM
**To:** Alicia Beasley
**Subject:** RE: Notice of Intent - AECT Tool

Hi Alicia,

After looking at the coding in the form, yes that issue of depicting a red box for TOTAL HAPs over 10 lb/hr is a glitch in the AECT and can be ignored at this time. There is no lb/hr limit for TOTAL HAPS or VOC's for NOI applications. The problem has been fixed and will be included in a future AECT update. Thanks for bringing this to my attention. It is suggested that you make a note of that issue in your submittal and you may attach a copy of this email as well to the application.

If you have any questions, please feel free to contact me. I can be reached by email at Richard.Poley@state.nm.us or please call me in Santa Fe (Tues. or Thurs.) at (505) 476-4308 or in Rio Rancho (Mon. or Wed.) at (505) 771-5993. I am out of the office on Fridays.

Thanks,

*Rick Poley*
Air Permit Specialist
Minor Source Unit, Permitting Section
Air Quality Bureau, NM Environment Department
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505
Email Richard.Poley@state.nm.us
Phone: (505) 476-4308 Fax: (505) 476-4375 (Santa Fe)
Phone: (505) 771-5993 (Rio Rancho)

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**From:** Alicia Beasley <Alicia.Beasley@eccgrp.com>
**Sent:** Wednesday, November 07, 2018 7:45 AM

**To:** Poley, Richard, NMENV <Richard.Poley@state.nm.us>
**Subject:** [EXT] Re: Notice of Intent - AECT Tool

Yes, it is the most recent version.

Get Outlook for iOS

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**From:** Poley, Richard, NMENV <richard.poley@state.nm.us>
**Sent:** Wednesday, November 7, 2018 8:37 AM
**To:** Alicia Beasley
**Subject:** RE: Notice of Intent - AECT Tool

Hi Alicia,

What version of the AECT are you using? The latest official version is 8/10/2018.

If you have any questions, please feel free to contact me. I can be reached by email at Richard.Poley@state.nm.us or please call me in Santa Fe (Tues. or Thurs.) at (505) 476-4308 or in Rio Rancho (Mon. or Wed.) at (505) 771-5993. I am out of the office on Fridays.

Thanks,

*Rick Poley*
Air Permit Specialist
Minor Source Unit, Permitting Section
Air Quality Bureau, NM Environment Department
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505
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**From:** Alicia Beasley <Alicia.Beasley@eccgrp.com>
**Sent:** Tuesday, November 06, 2018 1:35 PM
**To:** Poley, Richard, NMENV <Richard.Poley@state.nm.us>

**Cc:** Rita Zebian <Rita.Zebian@eccgrp.com>
**Subject:** [EXT] Notice of Intent - AECT Tool

Rick,

We are trying to complete an NOI for our client and we are getting a red box around our total lb/hr HAPs in the AECT tool. Our total lb/hr HAPs is slightly over 10 lb/hr. We are not aware of a lb/hr limit for total HAPs under an NOI and were unable to find anything in the rule pertaining to a lb/hr limit. Is this a possible glitch in the AECT tool or is there some applicability information we have not found?

Thank you,

ENVIRO CLEAN CARDINAL

Alicia Beasley
Air Quality Specialist | Enviro Clean Cardinal
817.617.2675
alicia.beasley@eccgrp.com | www.EnviroCleanPS.com
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# TABLE 4-1

**Total Emission Summary**

**Owner/Operator:** **Devon Energy**
**Facility:** **Broadside 1H Battery**

| Emission Source | # Units | | NOx | | CO | | VOC | | PM | | SO2 | | Total HAPS | | n-Hexane | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Combustor/Emerg Flare | 1 | All | 1.486 | 3.109 | 3.338 | 6.984 | 8.404 | 17.497 | | | 0.022 | 0.045 | 0.435 | 0.924 | 0.236 | 0.500 |
| Fugitive | 1 | All | | | | | 0.786 | 3.444 | | | | | 0.068 | 0.296 | 0.028 | 0.123 |
| Heater Treater 1 | 1 | All | 0.057 | 0.248 | 0.048 | 0.208 | 0.003 | 0.014 | 0.004 | 0.019 | 0.001 | 0.004 | 0.001 | 0.005 | 0.001 | 0.004 |
| Engine 1 | 1 | All | 0.448 | 1.960 | 0.895 | 3.920 | 0.350 | 1.534 | 0.029 | 0.129 | 0.001 | 0.004 | 0.045 | 0.196 | 0.000 | 0.000 |
| Venting Emissions | 1 | All | | | | | 3.625 | 5.719 | | | | | 0.552 | 0.870 | 0.015 | 0.023 |
| Haul Roads | 1 | All | | | | | | | 8.650 | 2.068 | | | | | | |
| MSS | 1 | All | | | | | 142.333 | 3.804 | | | | | 21.496 | 0.317 | 8.538 | 0.211 |
| Cond Tank | 4 | Process Train 1 | | | | | 8.494 | 17.495 | | | | | 0.446 | 0.940 | 0.240 | 0.506 |
| Water Tank | 2 | Process Train 1 | | | | | 2.521 | 0.914 | | | | | 2.243 | 0.557 | 0.000 | 0.001 |
| Cond Loadout | 1 | Process Train 1 | | | | | 177.228 | 43.487 | | | | | 5.253 | 1.289 | 2.909 | 0.714 |
| Water Loadout | 1 | Process Train 1 | | | | | 1.772 | 0.460 | | | | | 0.355 | 0.092 | 0.000 | 0.000 |
| **Sum** | | | 1.990 | 5.317 | 4.281 | 11.113 | 345.518 | 94.368 | 8.683 | 2.215 | 0.024 | 0.053 | 30.895 | 5.487 | 3.414 | 1.847 |

The condensate tank, water tank, condensate loadout, water loadout, combustor, emergency flare, fugitive, heater treater, engine, and MSS emission calculations were performed by Devon Energy Production Company, L.P. using a ProMax simulation.

# TABLE 4-2

**Combustor/Emerg Flare**

**Owner/Operator:** Devon Energy
**Facility:** Broadside 1H Battery

**Equipment Specifications:**

| # of Flares/ Combustors | 2 | Combustor | Emergency Flare |
|---|---|---|---|
| MF Capacity | mscfd | 140 | 140 |

**Emission Factors:** *Per TCEQ Memorandum - 2/13/1995, (BTU/SCF)*(MSCF/D)*(1000 SCF/MSCF)*(1 D/24HR)*(1 MMBTU/ 10^6 BTU)*(LB/BTU)

| | LB/MMBTU | |
|---|---|---|
| Pollutant | BTU/SCF | BTU/SCF |
| NOX | 0.138 | 0.068 |
| CO | 0.31 | 0.5496 |

*The more conservative (higher) lb/MMBtu factor is selected from between the TCEQ guidance and AP-42 Ch. 13
*Per TCEQ Guidance: Technical Supplement 4 - Flares and EPA AP-42 - Ch 13, Table 13.5.1
*Per TCEQ Guidance: Technical Supplement 4 - Flares and EPA AP-42 - Ch 13, Table 13.5.2

| | | Daily (MSCFD) | Hourly (Mscf/hr) | Annual (Mscf/yr) | Percent to Flare | Control Efficiency | Corrected Gas to Flare (MSCF/yr) | Corrected Gas to Flare (MSCF/hr) | Heating Value (Btu/ft^3) | Emissions | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | NOX | | CO | | VOC | | SO2 | | Total HAP | | n-Hexane | |
| | | | | | | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Pilot Light - Combustor** | | 3.12 | 0.13 | 1138.80 | 100.00% | 98.00% | 1138.80 | 0.13 | 1177.69 | 0.021 | 0.093 | 0.047 | 0.208 | 0.040 | 0.176 | 0.000 | 0.000 | 0.002 | 0.007 | 0.001 | 0.004 |
| **Pilot Light - Emergency Flare** | | 3.12 | 0.13 | 1138.80 | 100.00% | 98.00% | 1138.80 | 0.13 | 1177.69 | 0.021 | 0.093 | 0.047 | 0.208 | 0.040 | 0.176 | 0.000 | 0.000 | 0.002 | 0.007 | 0.001 | 0.004 |
| **Oil Tanks** | **Process Train 1** | 50.38 | 4.54 | 18388.60 | 98.00% | 98.00% | 18020.83 | 4.4494 | 2351.50 | 1.444 | 2.924 | 3.243 | 6.568 | 8.324 | 17.145 | 0.022 | 0.045 | 0.432 | 0.910 | 0.235 | 0.496 |
| **Total** | | | | | | | 20298.43 | | | 1.486 | 3.109 | 3.338 | 6.984 | 8.404 | 17.497 | 0.022 | 0.045 | 0.435 | 0.924 | 0.237 | 0.504 |
| | | **Weighted Average** | | | | | | | 2153.72 | | | | | | | | | | | | |

*98% Control Efficiency, 100% Conversion of combusted H2S to SO2 assumed
* Heating values are from Promax streams

# TABLE 4-3

**Venting Emissions**

**Owner/Operator:** **Devon Energy**
**Facility:** **Broadside 1H Battery**

**Run Hours** 8760

| Source | | Pressure, psig | Temp, °F: | Vol. Flow, MSCFD | Vent % | Uncontrolled Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | VOC | | Total HAP | | n-Hexane | |
| | | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| GB | Process Train 1 | 2 | 100 | 2.55 | 100% | 3.63 | 5.72 | 0.55 | 0.87 | 0.01 | 0.02 |
| **Total** | | | | | | 3.625 | 5.719 | 0.552 | 0.870 | 0.015 | 0.023 |

# TABLE 4-4

**Heater Treaters**

**Owner/Operator:** **Devon Energy**
**Facility:** **Broadside 1H Battery**

**Equipment Specifications:**

| # of Heaters | 1 | Heater 1 |
|---|---|---|
| Design Heat Rating | mmbtuh | 0.5 |

**Emission Factors:**

| Pollutant | Emission Factors[a] (lb/MMSCF) | Adjusted Factors[b] (lb/MMSCF) |
|---|---|---|
| NOx (a) | 100.00 | 115.460 |
| CO (a) | 84.00 | 96.986 |
| VOC (a) | 5.50 | 6.350 |
| SO2 (c) | 1.66 | 1.657 |
| $PM/PM_{10}$ (a) | 7.60 | 8.775 |
| Hexane (d) | 1.800 | 2.078 |

[a] Criteria Pollutant Emission Factors obtained from AP-42 Nat Gas Combustion, Table 1.4-1, (7/98) < 100 MMBtu/hr heat input; & Table 1.4-2, (7/98).
[b] As per EPA AP-42 Emission Factor Adjusted for Fuel Gas Heating Value
[c] As per EPA AP-42 Emission Factors for Criteria Pollutants and Greenhouse Gases from Natural Gas Combustion, Table 1.4-2
[d] As per EPA AP-42 Emission Factors for Speciated Organic Compounds from Natural Gas Combustion

| SO2 Emission Factor: | mol H2S in feed gas | Molecular Weight SO2 | Combustion Efficiency | Calculated EF |
|---|---|---|---|---|
| *Assumes ideal gas law: | fractional | lb/lbmol | fractional | lb/MMSCF |
| 379 scf/lbmol | 0.00001 | 64.066 | 0.98 | 1.656587863 |

Calculation Method: (1/379)(lbmol/scf)(10^6 SCF/MMSCF)(Combustion Efficiency)(Mol fraction H2S)(64.066 lb/lbmol SO2) = lb/MMSCF
1. H2S emissions are calculated in the same manner, except using the bypass fraction instead of combustion efficiency and the molecular weight of H2S (34.081 lb/lbmol)
2. If the calculated SO2 EF is less than 0.6 lb/MMSCF (per AP-42 table 1.4-2), the EF is conservatively set at 0.6 lb/MMSCF

| | Heat Rating (mmbtuh) | Run Hours | Heating Value (Btu/ft^3) | Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $NO_x$ | | CO | | VOC | | SO2 | | PM | | Total HAP | | n-Hexane | |
| | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Heater 1** | 0.50 | 8760.0 | 1177.69 | 0.057 | 0.248 | 0.048 | 0.208 | 0.003 | 0.014 | 0.001 | 0.004 | 0.004 | 0.019 | 0.001 | 0.005 | 0.001 | 0.004 |

# TABLE 4-5

**Fugitives**

**Owner/Operator:** **Devon Energy**
**Facility:** **Broadside 1H Battery**

**Component Count:**
**Liquid Stream Compositions** NM - Wolfcamp - Thistle Unit 153H First Stage Separator Liquid
**Gas Stream Compositions** NM - Wolfcamp - Thistle Unit 153H First Stage Separator Gas
**Equipment Count Method Used** Count 1
**Run Hours** 8760

**Gas Service**

| Component | Count | Emission Factor[a] (lb/hr/component) | Emissions | |
|---|---|---|---|---|
| | | | lb/hr | tpy |
| Valve | 65 | 0.00992 | 0.645 | 2.824 |
| Flanges | 101 | 0.00086 | 0.087 | 0.380 |
| Pump | 0 | 0.00529 | 0.000 | 0.000 |
| Compressor Seal | 4 | 0.01940 | 0.078 | 0.340 |
| Relief Valve | 13 | 0.01940 | 0.252 | 1.105 |
| Open-Ended Line | 0 | 0.00441 | 0.000 | 0.000 |
| Connectors | 182 | 0.00044 | 0.080 | 0.351 |
| Other | 0 | 0.01940 | 0.000 | 0.000 |
| **Total** | | | **1.142** | **5.000** |

| Component | wt fraction | lb/hr | tpy |
|---|---|---|---|
| **Total VOC** | 0.294955 | 0.337 | 1.475 |
| **Total HAP** | 0.020983 | 0.024 | 0.105 |
| **Benzene** | 0.001548 | 0.002 | 0.008 |
| **N-Hexane** | 0.017227 | 0.020 | 0.086 |

**Light Oil > 20° API**

| Component | Count | Emission Factor[a] (lb/hr/component) | Emissions | |
|---|---|---|---|---|
| | | | lb/hr | tpy |
| Valve | 47 | 0.0055 | 0.259 | 1.132 |
| Flanges | 100 | 0.0002 | 0.024 | 0.105 |
| Pump | 2 | 0.0287 | 0.057 | 0.251 |
| Compressor Seal | 0 | 0.0165 | 0.000 | 0.000 |
| Relief Valve | 3 | 0.0165 | 0.050 | 0.217 |
| Open-Ended Line | 4 | 0.0031 | 0.012 | 0.054 |
| Connectors | 112 | 0.0005 | 0.052 | 0.226 |
| Other | 0 | 0.0165 | 0.000 | 0.000 |
| **Total** | | | **0.453** | **1.985** |

| Component | wt fraction | lb/hr | tpy |
|---|---|---|---|
| **Total VOC** | 0.991986 | 0.450 | 1.969 |
| **Total HAP** | 0.096365 | 0.044 | 0.191 |
| **Benzene** | 0.008957 | 0.004 | 0.018 |
| **N-Hexane** | 0.018454 | 0.008 | 0.037 |

**Water/Light Oil Service**

| Component | Count | Emission Factor[a] (lb/hr/component) | Emissions | |
|---|---|---|---|---|
| | | | lb/hr | tpy |
| Valve | 39 | 0.0002 | 0.008 | 0.037 |
| Flanges | 75 | 6.17E-06 | 0.000 | 0.002 |
| Pump | 3 | 0.0001 | 0.000 | 0.001 |
| Compressor Seal | 0 | 0.0309 | 0.000 | 0.000 |
| Relief Valve | 3 | 0.0309 | 0.093 | 0.406 |
| Open-Ended Line | 3 | 0.0006 | 0.002 | 0.008 |
| Connectors | 84 | 0.0002 | 0.020 | 0.089 |
| Other | 0 | 0.0309 | 0.000 | 0.000 |
| **Total** | | | **0.124** | **0.543** |

| Component | wt fraction | lb/hr | tpy |
|---|---|---|---|
| **Total VOC** | 0.000128 | 0.000 | 0.000 |
| **Total HAP** | 0.000081 | 0.000 | 0.000 |
| **Benzene** | 0.000040 | 0.000 | 0.000 |
| **N-Hexane** | 0.000000 | 0.000 | 0.000 |

**Fugitive Emissions Summary**

| Component | | lb/hr | tpy |
|---|---|---|---|
| **Total VOC** | | 0.786 | 3.444 |
| **Total HAP** | | 0.068 | 0.296 |
| **Benzene** | | 0.006 | 0.026 |
| **N-Hexane** | | 0.028 | 0.123 |

[a] Per TCEQ Fugitive Guidance for Oil/Gas Production Operations, (lb/hr/component)(hr/yr)(1 ton/2000 lbs) = tpy emissions

# TABLE 4-6

**Oil Tank Emissions**

| | |
|---|---|
| **Owner/Operator:** | **Devon Energy** |
| **Facility:** | **Broadside 1H Battery** |
| **Throughput (bbl/hr)** | 83.33 |
| **Throughput (bbl/day)** | 850.00 |
| **Throughput (bbl/yr)** | 310,250.00 |
| **# Tanks** | 4.00 |
| **Controls** | Combustor |
| **Control Efficiency** | 98% |
| **Capture Efficiency** | 98% |
| **Meteorological Data** | Roswell, NM |
| **Run Hours** | 8760 |

**Flashing Emissions**

| Pollutant | Emission Factors[a] | | Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Uncontrolled | | | Controlled | | |
| | tpy/bopd | lb/bbl | lb/hr | tpy | tpy/tank | lb/hr | tpy | tpy/tank |
| **VOC** | 0.952 | 5.216 | 382.822 | 809.204 | 202.301 | 7.656 | 16.184 | 4.046 |
| **Total HAP** | 0.052 | 0.287 | 19.702 | 44.451 | 11.113 | 0.394 | 0.889 | 0.222 |
| **n-Hexane** | 0.028 | 0.154 | 10.595 | 23.874 | 5.969 | 0.212 | 0.477 | 0.119 |

**Working/Standing**

| Pollutant | Emission Factors[b] | | Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Uncontrolled | | | Controlled | | |
| | tpy/bopd | lb/bbl | lb/hr | tpy | tpy/tank | lb/hr | tpy | tpy/tank |
| **VOC** | 0.077 | 0.423 | 41.879 | 65.561 | 16.390 | 0.838 | 1.311 | 0.328 |
| **Total HAP** | 0.003 | 0.016 | 2.613 | 2.549 | 0.637 | 0.052 | 0.051 | 0.013 |
| **n-Hexane** | 0.002 | 0.009 | 1.392 | 1.412 | 0.353 | 0.028 | 0.028 | 0.007 |

**Total Emissions**

| Pollutant | Emission Factors | | Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Uncontrolled | | | Controlled | | |
| | tpy/bopd | lb/bbl | lb/hr | tpy | tpy/tank | lb/hr | tpy | tpy/tank |
| **VOC** | 1.029 | 5.639 | 424.701 | 874.765 | 218.691 | 8.494 | 17.495 | 4.374 |
| **Total HAP** | 0.055 | 0.303 | 22.315 | 47.001 | 11.750 | 0.446 | 0.940 | 0.235 |
| **n-Hexane** | 0.030 | 0.163 | 11.986 | 25.286 | 6.321 | 0.240 | 0.506 | 0.126 |

[a] ProMax Oil Tk Gas Stream
[b] Promax W &S Stream

# TABLE 4-7

**Water Tank Emissions**

| | |
|---|---|
| **Owner/Operator:** | **Devon Energy** |
| **Facility:** | **Broadside 1H Battery** |
| **Throughput (bbl/hr)** | 208.33 |
| **Throughput (bbl/day)** | 1800.00 |
| **Throughput (bbl/yr)** | 657,000.00 |
| **# Tanks** | 2.00 |
| **Controls** | N/A |
| **Control Efficiency** | 0% |
| **Capture Efficiency** | 0% |
| **Meteorological Data** | Roswell, NM |
| **Run Hours** | 8760 |

**Flashing Emissions**

| Pollutant | Emission Factors[a] | | Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Uncontrolled | | | Controlled | | |
| | tpy/bopd | lb/bbl | lb/hr | tpy | tpy/tank | lb/hr | tpy | tpy/tank |
| **VOC** | 0.000 | 0.001 | 0.119 | 0.181 | 0.090 | 0.119 | 0.181 | 0.090 |
| **Total HAP** | 0.000 | 0.000 | 0.023 | 0.035 | 0.018 | 0.023 | 0.035 | 0.018 |
| **n-Hexane** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**Working/Standing**

| Pollutant | Emission Factors[b] | | Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Uncontrolled | | | Controlled | | |
| | tpy/bopd | lb/bbl | lb/hr | tpy | tpy/tank | lb/hr | tpy | tpy/tank |
| **VOC** | 0.000 | 0.002 | 2.402 | 0.734 | 0.367 | 2.402 | 0.734 | 0.367 |
| **Total HAP** | 0.000 | 0.002 | 2.219 | 0.522 | 0.261 | 2.219 | 0.522 | 0.261 |
| **n-Hexane** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**Total Emissions**

| Pollutant | Emission Factors | | Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Uncontrolled | | | Controlled | | |
| | tpy/bopd | lb/bbl | lb/hr | tpy | tpy/tank | lb/hr | tpy | tpy/tank |
| **VOC** | 0.001 | 0.003 | 2.521 | 0.914 | 0.457 | 2.521 | 0.914 | 0.457 |
| **Total HAP** | 0.000 | 0.002 | 2.243 | 0.557 | 0.279 | 2.243 | 0.557 | 0.279 |
| **n-Hexane** | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.001 | 0.000 |

[a] ProMax Water Tank Gas Stream
[b] ProMax Water W & S Gas Stream

# TABLE 4-8

**Loading Emissions**

**Owner/Operator:** Devon Energy
**Facility:** Broadside 1H Battery

| Oil Loading | Hourly | | Annual | |
|---|---|---|---|---|
| Throughput (bbl/hr) | 540.00 | | - | *Amount of liquids that can be loaded in one hour |
| Throughput (bbl/day) | 2000.00 | | 850.00 | |
| Run Hours | | 8760 | | |
| Throughput (bbl/yr) | - | | 310,250.00 | |
| Saturation Factor, S | | 0.60 | | *Per AP-42 Table 5.2-1, Saturation Factors |
| Average Surface Temperature, ($^{o}$F) | 99.97 | | 66.43 | |
| Temperature, T ( R) | 560.0 | | 526.4 | |
| TVP, (psia) | 12.21 | | 11.51 | *Promax Oil Losses Stencil |
| Vapor MW, M (lb/lbmol) | 47.94 | | 40.82 | *Promax Oil Losses Stencil |
| $L_L$, lb/1000 gal | 7.814 | | 6.675 | *Per AP-42 5.2.2.1.1 - LL = 12.46*SPM/T |
| VOC wt% | | 100.00% | | |
| Total HAP wt% | | 2.96% | | |
| n-Hexane wt% | | 1.64% | | |
| Oil to Pipeline | | N | | |
| % Oil to Pipeline | | 0% | | |
| Controls | | N/A | | |
| Capture Efficiency, eff | | 0% | | |

| Pollutant | Emission Factors | Emissions Uncontrolled | |
|---|---|---|---|
| | lb/bbl | lb/hr (95$^{o}$F) | ton/yr |
| VOC | 0.280 | 177.228 | 43.487 |
| Total HAP | 0.008 | 5.253 | 1.289 |
| n-Hexane | 0.005 | 2.909 | 0.714 |

| Water Loading | Hourly | | Annual | |
|---|---|---|---|---|
| Throughput (bbl/hr) | 540.00 | | - | |
| Throughput (bbl/day) | 5000.00 | | 1800.00 | |
| Run Hours | | 8760 | | |
| Throughput (bbl/yr) | - | | 657,000.00 | |
| Saturation Factor, S | | 0.6 | | *Per AP-42 Table 5.2-1, Saturation Factors |
| Average Surface Temperature, ($^{o}$F) | 99.97 | | 66.43 | *Promax Water Losses Stencil |
| Temperature, T ( R) | 560.0 | | 526.4 | |
| TVP, (psia) | 12.21 | | 11.51 | *Promax Water Losses Stencil |
| Vapor MW, M (lb/lbmol) | 47.94 | | 40.82 | |
| $L_L$, lb/1000 gal | 0.078 | | 0.067 | *Per AP-42 5.2.2.1.1 - LL = Condensate LL * 1% |
| VOC wt% | | 100.00% | | |
| Total HAP wt% | | 20.06% | | |
| n-Hexane wt% | | 0.01% | | |
| Water to Pipeline | | Y | | |
| % Water to Pipeline | | 50% | | |

| Pollutant | Emission Factors | Emissions Uncontrolled | |
|---|---|---|---|
| | lb/bbl | lb/hr (95$^{o}$F) | ton/yr |
| VOC | 0.001 | 1.772 | 0.460 |
| Total HAP | 0.000 | 0.355 | 0.092 |
| n-Hexane | 0.000 | 0.000 | 0.000 |

# TABLE 4-9

**Engine 1**

| | |
|---|---|
| **Owner/Operator:** | **Devon Energy** |
| **Facility:** | **Broadside 1H Battery** |
| Make/Model: | CAT G3306TA |
| Manufactured Date: | 1/1/2011 |
| Serial Number: | 0 |
| Emission Factors (Uncontrolled): | Manufacturer-User |
| Emission Factors (Controlled): | Quad J |
| Engine Make/Model: | CAT G3306TA |
| Max HP, 100% Load: | 203 |
| Annual Run Time, hrs | 8760 |
| Design Class: | 4-Stroke Rich Burn |
| Fuel Type: | Natural Gas |
| Ignition Type: | Spark |
| Fuel Consumption, Btu/bhp*hr | 7802 |
| Fuel Consumption, MMBtu/hr | 1.58 |
| Gas Heating Value, Btu/scf | 1177.69 |
| Stack Height (ft) | 11.80 |
| Stack Diameter (ft) | 0.56 |
| Exit Temperature ($^{o}$F) | 1076.00 |
| Exhaust Gas Flowrate (ft$^{3}$/min) | 968.00 |
| Exhaust Velocity (ft/s) | 64.92 |

*NM - Wolfcamp - Thistle Unit 153H First Stage Separator Gas

| **Engine Controls** | |
|---|---|
| Controls? | Y |
| Control Type | AFR/CC |
| Control Efficiency | 0 |

**Engine 1 Emission Calculations**

| Pollutant | Controlled Emissions | | | | |
|---|---|---|---|---|---|
| | Emission Factors | | | | |
| | EF | Units | Reference | lb/hr | ton/yr |
| **$NO_X$** | 1 | g/(hp*hr) | Quad J | 0.448 | 1.960 |
| **VOC** | 0.7 | g/(hp*hr) | Quad J | 0.350 | 1.534 |
| **CO** | 2 | g/(hp*hr) | Quad J | 0.895 | 3.920 |
| **$PM_{10}$** | 0.0186 | (lb/MMBtu) | AP-42 | 0.029 | 0.129 |
| **$PM_{2.5}$** | 0.0186 | (lb/MMBtu) | AP-42 | 0.029 | 0.129 |
| **$SO_2$** | 0.000588 | (lb/MMBtu) | AP-42 | 0.001 | 0.004 |
| **Formaldehyde** | 0.0205 | (lb/MMBtu) | AP-42 | 0.032 | 0.142 |
| **Acetaldehyde** | 0.00279 | (lb/MMBtu) | AP-42 | 0.004 | 0.019 |
| **Acrolein** | 0.00263 | (lb/MMBtu) | AP-42 | 0.004 | 0.018 |
| **n-Hexane** | 0 | (lb/MMBtu) | AP-42 | 0.000 | 0.000 |

**VOC includes Formaldehyde and Acetaldehyde*

# TABLE 4-10

**MSS Summary**

**Owner/Operator:** Devon Energy
**Facility:** Broadside 1H Battery

| MSS Activity | Component | Max Hourly Emissions lb/hr | Annual Emissions ton/yr | Annual Controlled lb/hr | Annual Controlled Emissions ton/yr | Events Per Year | Comments |
|---|---|---|---|---|---|---|---|
| **Blowdown** | VOC | 79.133 | 3.165 | 79.133 | 3.165 | 40.00 | 40 events/yr (1 event = 2 hrs/day) |
| | Total HAP | 5.629 | 0.225 | 5.629 | 0.225 | | |
| | n-Hexane | 4.622 | 0.185 | 4.622 | 0.185 | | |
| **Oil Tank Degassing** | VOC | 3.791 | 0.339 | 3.791 | 0.339 | 5.00 | 5 events/yr (1 event = 2 hrs/day) |
| | Total HAP | 0.147 | 0.013 | 0.147 | 0.013 | | |
| | n-Hexane | 0.082 | 0.007 | 0.082 | 0.007 | | |
| **Water Tank Degassing** | VOC | 0.038 | 0.003 | 0.038 | 0.003 | 3.00 | 3 events/yr (1 event = 2 hrs/day) |
| | Total HAP | 0.001 | 0.000 | 0.001 | 0.000 | | |
| | n-Hexane | 0.001 | 0.000 | 0.001 | 0.000 | | |
| **Oil Tank VAC Truck** | VOC | 58.783 | 0.294 | 58.783 | 0.294 | 5.00 | 5 events/yr (1 event = 2 hrs/day) |
| | Total HAP | 15.562 | 0.078 | 15.562 | 0.078 | | |
| | n-Hexane | 3.795 | 0.019 | 3.795 | 0.019 | | |
| **Water Tank VAC Truck** | VOC | 0.588 | 0.003 | 0.588 | 0.003 | 3.00 | 3 events/yr (1 event = 2 hrs/day) |
| | Total HAP | 0.156 | 0.001 | 0.156 | 0.001 | | |
| | n-Hexane | 0.038 | 0.000 | 0.038 | 0.000 | | |
| **Totals** | VOC | 142.333 | 3.804 | 142.333 | 3.804 | - | *Total hourly emissions assumes all events would occur simulataneously, which is extremely unlikely |
| | Total HAP | 21.496 | 0.317 | 21.496 | 0.317 | | |
| | n-Hexane | 8.538 | 0.211 | 8.538 | 0.211 | | |

**TABLE 4-11**

*Devon Energy*

## Haul Road

**Facility:** **Broadside 1H Battery**

***Unpaved Haul Road***

| Parameter | Value | Unit |
|---|---|---|
| Empty Vehicle Weight[1] | 16 | ton |
| Truck Capacity | 180 | bbl |
| | 7,560 | gallons |
| Load Size[2] | 26.8 | ton |
| Loaded Vehicle Weight[3] | 42.8 | ton |
| Mean Vehicle Weight[4] | 29.4 | ton |
| Hourly Water Loadout | 540 | bbl/hr |
| Hourly Oil Loadout | 540 | bbl/hr |
| Hourly Water + Oil Loadout | 1,080 | bbl/hr |
| | 45,360 | gal/hr |
| Annual Water Loadout | 328,500 | bbl/yr |
| Annual Oil Loadout | 310,250 | bbl/yr |
| Annual Water + Oil Loadout | 638,750 | bbl/yr |
| | 26,827,500 | gal/yr |
| Turnovers | 6.0 | per hour |
| | 3,549 | per year |
| Max Vehicles Per Hour | 6 | VPH |
| Vehicles Per Day[5] | 10 | VPD |
| Vehicles Per Year | 3,549 | VPY |
| Segment Length | 0.20 | mile |
| Trips per Segment | 1 | - |
| Effective Segment Length[6] | 0.2 | mile |
| Trips per Hour[7] | 0.42 | - |
| Wet Days[8] | 70 | day |
| Surface Silt Content[9] | 4.8 | % |
| Credit for Base Course | 0.00% | |

[1] Empty vehicle weight includes driver and occupants and full fuel load.

[2] Include cargo, transported materials, etc. (7.1 lb/gal RVP5 *7560 gal truck/ 2000lb/ton)

[3] Loaded vehicle weight = Empty + Load Size

[4] Mean Vehicle weight = (Loaded Weight + Empty Weight) / 2

[5] Vehicles per day = (Turnovers/year) / (365 days/year)

[6] Effective segment length = trips per segment * segment length

[7] Trips per hour = Vehicles per day * Segments per trip ÷ Hours of Operation per Day

[8] Wet days is the NM default allowed by NMED without additional justification

[9] Surface silt content based on AP-42 Section 13.2.2.3

| | Calculation Parameters[1] | | | | | | | | | | | | Hourly Emission Factors | | | Annual Emission Factors | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | s | W | P | k | | | a | | | b | | | E [2] | | | $E_{ext}$ [5] | | |
| Route | Silt Content [1] | Mean Vehicle Weight | Wet Days | $PM_{30}$ | $PM_{10}$ | $PM_{2.5}$ | $PM_{30}$ | $PM_{10}$ | $PM_{2.5}$ | $PM_{30}$ | $PM_{10}$ | $PM_{2.5}$ | $PM_{30}$ | $PM_{10}$ | $PM_{2.5}$ | $PM_{30}$ | $PM_{10}$ | $PM_{2.5}$ |
| | % | tons | day | lb/VMT | lb/VMT | lb/VMT | | | | | | | lb/VMT | lb/VMT | lb/VMT | lb/VMT | lb/VMT | lb/VMT |
| Haul Trucks | 4.8 | 29.4 | 70 | 4.9 | 1.5 | 0.15 | 0.7 | 0.9 | 0.9 | 0.45 | 0.45 | 0.45 | 7.2 | 1.8 | 0.18 | 5.8 | 1.5 | 0.15 |

[1] Emission factors calculated per AP-42 Sec. 13.2.2.3 November, 2006, Equation 2.

***Unpaved Road Emissions***

| Calculation Inputs | | | | | | | | | Haul Road Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Route | Annual Operation | Segment Length | Trips per Segment | Number of Trucks | | Effective Segment Length | Max VMT/hr | Average VMT/yr[4] | $PM_{30}$ | | $PM_{10}$ | | $PM_{2.5}$ | |
| | hr | mi | | trucks/hr | trucks/yr | mi | mi/hr | mi/yr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Haul Trucks | 8,760 | 0.20 | 1 | 6 | 3549 | 0.20 | 1.20 | 710 | 8.65 | 2.1 | 2.20 | 0.53 | 0.22 | 0.053 |
| **Totals** | | | | | | | | | **8.65** | **2.1** | **2.20** | **0.53** | **0.22** | **0.053** |

[1] Surface silt = % of 75 micron diameter and smaller particles

[2] E = k x (s/12)^a x (W/3)^b x (1-0.6) (AP-42 page 13.2.2-4 Equation 1a, November 2006)

E= Size Specific Emission Factor (lb/VMT)

s = surface material silt content (%)

k, a, b = constants from AP-42 Table 13.2.2-2

W = Weighted Mean Vehicle Weight from Haul Road Inputs (tons)

60% for base course

[3] $PM_{30}$ emission factor in equation is assumed as a surrogate for TSP emissions

[4] VMT/hr = Vehicle Miles Travelled per hour= Trips per hour * Segment Length

[5] Wet Day Emission Factor = E * (365 - Wet Days)/365. Wet days value is the NM default allowed by NMED without additional justification.

# PROMAX REPORT - OIL TANKS - HOURLY

| Project information | |
|---|---|
| File Name | 20210125_Broadside 1H_Promax |
| Company | Devon Energy |
| City, State | {"Custom Location","Custom Location","Custom Location"} |
| Equation of State | {"Peng-Robinson","Peng-Robinson","Peng-Robinson"} |
| Description | DEET Emissions Report |

| Stream Selection for Tank Losses Stencil | |
|---|---|
| Name of Property Stencil | Oil Tank Losses |
| Name of Process Stream | Tank Inlet[Oil Tanks] |

| Loading Information | | |
|---|---|---|
| Mode of Operation | Submerged Loading of a Clean Cargo Tank | |
| Cargo Carrier | Tank Truck or Rail Tank Car | |
| Saturation Factor | 0.6 | |
| VOCs [C3+] | 100 | *Note: VOC weight percent has been conservatively adjusted based on agency guidance* |

| Tank Information | |
|---|---|
| Shell Height [ft] | 24 |
| Diameter [ft] | 15.5 |
| Maximum Fill Percent [%] | 90 |
| Number of Tanks | 4 |
| Average Fill Percent [%] | 50 |
| Total Tank Volume [bbl] | 3226.3 |
| Net Throughput [bbl/hr] | 300.00 |
| Max Liquid Surface Temperature [°F] | 103.405 |
| Average Liquid Surface Temperature [°F] | 99.9680 |
| MW | 47.9431 |
| Turnovers (per year) | 283.416 |
| **Paint Characteristics** | |
| Shell Color | Tan |
| Shell Paint Condition | Average |
| Roof Color | Tan |
| Roof Condition | Average |
| **Roof Characteristics** | |
| Type | Dome |
| Dome Radius [ft] | |
| Slope [ft/ft] | -- |
| **Breather Vent Settings** | |
| Vacuum Settings [psig] | -0.0300000 |
| Pressure Settings [psig] | 0.0300000 |

| Meteorological Data | |
|---|---|
| Location | Custom Location |
| Ambient Pressure [psia] | 12.73 |
| Min Ambient Temperature [°F] | 95 |
| Max Ambient Temperature [°F] | 95 |
| Solar Insolation [BTU/ft2*day] | 1810 |
| Wind Speed [mph] | 8.683 |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | Loading Losses | Heater Treater Gas | ULPS Gas | |
| | | % | % | % | % | % | |
| Capture Effeciency | | 98 | 98 | 0 | 0 | 0 | |
| Percent to Tank | | -- | -- | -- | 0 | 0 | |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | Loading Losses | Heater Treater Gas | ULPS Gas | Total Losses |
| | | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] |
| VOCs [C3+] | | 7.656 | 0.838 | 0.000 | 0.000 | 0.000 | 8.494 |
| Benzene | | 0.072 | 0.009 | 0.000 | 0.000 | 0.000 | 0.081 |
| H2S | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

# PROMAX REPORT - OIL TANKS - HOURLY

| Emission Composition | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Component | Flash Gas [Mol%] | W/B Losses [Mol%] | Loading Losses [Mol%] | Heater Treater [Mol%] | ULPS [Mol%] | |
| 1 | Hydrogen Sulfide | 0.003 | 0.003 | 0.003 | -- | -- | |
| 2 | Nitrogen | 0.035 | 0.004 | 0.004 | -- | -- | |
| 3 | Carbon Dioxide | 0.137 | 0.114 | 0.114 | -- | -- | |
| 4 | Methane | 14.250 | 4.945 | 4.945 | -- | -- | |
| 5 | Ethane | 22.929 | 20.427 | 20.427 | -- | -- | |
| 6 | Propane | 29.635 | 31.435 | 31.435 | -- | -- | |
| 7 | i-Butane | 5.688 | 6.783 | 6.783 | -- | -- | |
| 8 | n-Butane | 13.737 | 17.169 | 17.169 | -- | -- | |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 10 | i-Pentane | 3.123 | 4.268 | 4.268 | -- | -- | |
| 11 | n-Pentane | 3.186 | 4.444 | 4.444 | -- | -- | |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 13 | Cyclopentane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 15 | 2-Methylpentane | 0.682 | 0.993 | 0.993 | -- | -- | |
| 16 | 3-Methylpentane | 0.319 | 0.466 | 0.466 | -- | -- | |
| 17 | n-Hexane | 1.119 | 1.656 | 1.656 | -- | -- | |
| 18 | Methylcyclopentane | 0.540 | 0.794 | 0.794 | -- | -- | |
| 19 | Benzene | 0.420 | 0.618 | 0.618 | -- | -- | |
| 20 | Cyclohexane | 1.258 | 1.864 | 1.864 | -- | -- | |
| 21 | 2-Methylhexane | 0.049 | 0.074 | 0.074 | -- | -- | |
| 22 | 3-Methylhexane | 0.174 | 0.264 | 0.264 | -- | -- | |
| 23 | 2,2,4-Trimethylpentane | 0.020 | 0.030 | 0.030 | -- | -- | |
| 24 | n-Heptane | 0.461 | 0.704 | 0.704 | -- | -- | |
| 25 | Methylcyclohexane | 0.681 | 1.036 | 1.036 | -- | -- | |
| 26 | Toluene | 0.372 | 0.568 | 0.568 | -- | -- | |
| 27 | n-Octane | 0.237 | 0.370 | 0.370 | -- | -- | |
| 28 | Ethylbenzene | 0.028 | 0.045 | 0.045 | -- | -- | |
| 29 | m-Xylene | 0.080 | 0.125 | 0.125 | -- | -- | |
| 30 | p-Xylene | 0.000 | 0.000 | 0.000 | -- | -- | |
| 31 | o-Xylene | 0.019 | 0.029 | 0.029 | -- | -- | |
| 32 | n-Nonane | 0.069 | 0.110 | 0.110 | -- | -- | |
| 33 | n-Decane | 0.024 | 0.039 | 0.039 | -- | -- | |
| 34 | Undecane | 0.005 | 0.009 | 0.009 | -- | -- | |
| 35 | Dodecane | 0.001 | 0.002 | 0.002 | -- | -- | |
| 36 | Tridecane | 0.000 | 0.001 | 0.001 | -- | -- | |
| 37 | Tetradecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 38 | Pentadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 39 | Hexadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 40 | Heptadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 41 | Octadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 42 | Nonadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 43 | Eicosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 44 | Heneicosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 45 | Docosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 46 | Tricosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 47 | Tetracosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 48 | Pentacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 49 | Hexacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 50 | Heptacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 51 | Octacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 52 | Nonacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 53 | C30 | 0.000 | 0.000 | 0.000 | -- | -- | |
| 54 | Water | 0.718 | 0.609 | 0.609 | -- | -- | |
| 55 | C10+ | 0.000 | 0.000 | 0.000 | -- | -- | |

# PROMAX REPORT - OIL TANKS - HOURLY

**Stream Compositional Data**

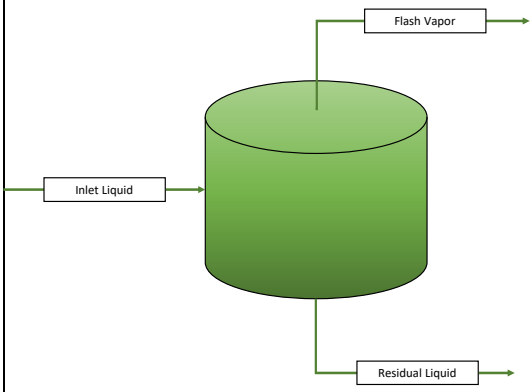
| No. | Component | Flash Gas [lb/h] | W/B Losses [lb/h] | Loading Losses [lb/h] | Heater Treater [lb/h] | ULPS [lb/h] | Total Losses [lb/h] |
|---|---|---|---|---|---|---|---|
| 1 | Hydrogen Sulfide | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 2 | Nitrogen | 0.002 | 0.000 | 0 | -- | -- | 0.002 |
| 3 | Carbon Dioxide | 0.013 | 0.001 | 0 | -- | -- | 0.014 |
| 4 | Methane | 0.502 | 0.015 | 0 | -- | -- | 0.518 |
| 5 | Ethane | 1.515 | 0.120 | 0 | -- | -- | 1.635 |
| 6 | Propane | 2.872 | 0.270 | 0 | -- | -- | 3.142 |
| 7 | i-Butane | 0.727 | 0.077 | 0 | -- | -- | 0.804 |
| 8 | n-Butane | 1.755 | 0.195 | 0 | -- | -- | 1.949 |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 10 | i-Pentane | 0.495 | 0.060 | 0 | -- | -- | 0.555 |
| 11 | n-Pentane | 0.505 | 0.063 | 0 | -- | -- | 0.568 |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 13 | Cyclopentane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 15 | 2-Methylpentane | 0.129 | 0.017 | 0 | -- | -- | 0.146 |
| 16 | 3-Methylpentane | 0.060 | 0.008 | 0 | -- | -- | 0.068 |
| 17 | n-Hexane | 0.212 | 0.028 | 0 | -- | -- | 0.240 |
| 18 | Methylcyclopentane | 0.100 | 0.013 | 0 | -- | -- | 0.113 |
| 19 | Benzene | 0.072 | 0.009 | 0 | -- | -- | 0.081 |
| 20 | Cyclohexane | 0.233 | 0.031 | 0 | -- | -- | 0.263 |
| 21 | 2-Methylhexane | 0.011 | 0.001 | 0 | -- | -- | 0.012 |
| 22 | 3-Methylhexane | 0.038 | 0.005 | 0 | -- | -- | 0.044 |
| 23 | 2,2,4-Trimethylpentane | 0.005 | 0.001 | 0 | -- | -- | 0.006 |
| 24 | n-Heptane | 0.102 | 0.014 | 0 | -- | -- | 0.115 |
| 25 | Methylcyclohexane | 0.147 | 0.020 | 0 | -- | -- | 0.167 |
| 26 | Toluene | 0.075 | 0.010 | 0 | -- | -- | 0.086 |
| 27 | n-Octane | 0.059 | 0.008 | 0 | -- | -- | 0.068 |
| 28 | Ethylbenzene | 0.007 | 0.001 | 0 | -- | -- | 0.008 |
| 29 | m-Xylene | 0.019 | 0.003 | 0 | -- | -- | 0.021 |
| 30 | p-Xylene | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 31 | o-Xylene | 0.004 | 0.001 | 0 | -- | -- | 0.005 |
| 32 | n-Nonane | 0.019 | 0.003 | 0 | -- | -- | 0.022 |
| 33 | n-Decane | 0.007 | 0.001 | 0 | -- | -- | 0.008 |
| 34 | Undecane | 0.002 | 0.000 | 0 | -- | -- | 0.002 |
| 35 | Dodecane | 0.000 | 0.000 | 0 | -- | -- | 0.001 |
| 36 | Tridecane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 37 | Tetradecane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 38 | Pentadecane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 39 | Hexadecane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 40 | Heptadecane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 41 | Octadecane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 42 | Nonadecane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 43 | Eicosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 44 | Heneicosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 45 | Docosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 46 | Tricosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 47 | Tetracosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 48 | Pentacosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 49 | Hexacosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 50 | Heptacosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 51 | Octacosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 52 | Nonacosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 53 | C30 | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 54 | Water | 0.028 | 0.002 | 0 | -- | -- | 0.031 |
| 55 | C10+ | 0.000 | 0.000 | 0 | -- | -- | 0.000 |

**Stream Properties**

| | | Flash Gas | W/B Losses | Loading Losses | Heater Treater | ULPS | |
|---|---|---|---|---|---|---|---|
| MW | | 44.218 | 50.040 | 50.040 | 28.601 | -- | |
| Heating Value [BTU/scf] | | 2300.091 | 2588.594 | 2588.594 | 1515.428 | -- | |
| Specific Gravity | | 1.527 | 1.728 | 1.728 | 0.988 | -- | |
| VOC Concentration [wt%] | | 100.000 | 100.000 | 100.000 | 100.000 | -- | |
| Temperature [°F] | | 93.481 | 103.405 | 103.405 | 100.000 | -- | |
| Gas Volumetric Flow [scf/hr] | | 4170.116 | 370.080 | 169.729 | 0.000 | 0.000 | |

# PROMAX REPORT - OIL TANKS - HOURLY

| Inlet Stream Data | |
|---|---|
| Component | Tank Inlet [Mol%] |
| Hydrogen Sulfide | 0.000 |
| Nitrogen | 0.002 |
| Carbon Dioxide | 0.010 |
| Methane | 0.964 |
| Ethane | 2.069 |
| Propane | 4.783 |
| i-Butane | 1.574 |
| n-Butane | 5.059 |
| 2,2-Dimethylpropane | 0.000 |
| i-Pentane | 2.557 |
| n-Pentane | 3.356 |
| 2,2-Dimethylbutane | 0.000 |
| Cyclopentane | 0.000 |
| 2,3-Dimethylbutane | 0.000 |
| 2-Methylpentane | 1.596 |
| 3-Methylpentane | 0.829 |
| n-Hexane | 3.632 |
| Methylcyclopentane | 1.652 |
| Benzene | 1.376 |
| Cyclohexane | 4.824 |
| 2-Methylhexane | 0.319 |
| 3-Methylhexane | 1.244 |
| 2,2,4-Trimethylpentane | 0.176 |
| n-Heptane | 4.284 |
| Methylcyclohexane | 6.148 |
| Toluene | 3.911 |
| n-Octane | 6.787 |
| Ethylbenzene | 0.905 |
| m-Xylene | 2.816 |
| p-Xylene | 0.000 |
| o-Xylene | 0.742 |
| n-Nonane | 5.962 |
| n-Decane | 6.136 |
| Undecane | 4.039 |
| Dodecane | 2.865 |
| Tridecane | 2.611 |
| Tetradecane | 2.229 |
| Pentadecane | 1.919 |
| Hexadecane | 1.388 |
| Heptadecane | 0.934 |
| Octadecane | 0.643 |
| Nonadecane | 0.365 |
| Eicosane | 0.332 |
| Heneicosane | 8.904 |
| Docosane | 0.000 |
| Tricosane | 0.000 |
| Tetracosane | 0.000 |
| Pentacosane | 0.000 |
| Hexacosane | 0.000 |
| Heptacosane | 0.000 |
| Octacosane | 0.000 |
| Nonacosane | 0.000 |
| C30 | 0.000 |
| Water | 0.057 |
| C10+ | 0.000 |




| Residual Liquid Data | |
|---|---|
| Flow (bbl/d) | 2000.000 |
| TVP [psia] | 12.208 |

# PROMAX REPORT - WATER TANKS - HOURLY

| Project information | |
|---|---|
| File Name | 20210125_Broadside 1H_Promax |
| Company | Devon Energy |
| City, State | {"Custom Location","Custom Location","Custom Location"} |
| Equation of State | {"Peng-Robinson","Peng-Robinson","Peng-Robinson"} |
| Description | DEET Emissions Report |

| Stream Selection for Tank Losses Stencil | |
|---|---|
| Name of Property Stencil | Water Tank Losses |
| Name of Process Stream | Inlet[Water Tanks] |

| Loading Information | | |
|---|---|---|
| Mode of Operation | Submerged Loading of a Clean Cargo Tank | |
| Cargo Carrier | Tank Truck or Rail Tank Car | |
| Saturation Factor | 0.6 | |
| VOCs [C3+] | 100 | *Note: VOC weight percent has been conservatively adjusted based on agency guidance* |

| Tank Information | |
|---|---|
| Shell Height [ft] | 24 |
| Diameter [ft] | 15.5 |
| Maximum Fill Percent [%] | 90 |
| Number of Tanks | 2 |
| Average Fill Percent [%] | 50 |
| Total Tank Volume [bbl] | 1613.2 |
| Net Throughput [bbl/yr] | 1.82350E+06 |
| Max Liquid Surface Temperature [°F] | 103.405 |
| Average Liquid Surface Temperature [°F] | 99.9680 |
| MW | 21.8992 |
| Turnovers (per year) | 1422.27 |
| **Paint Characteristics** | |
| Shell Color | Tan |
| Shell Paint Condition | Average |
| Roof Color | Tan |
| Roof Condition | Average |
| **Roof Characteristics** | |
| Type | Dome |
| Dome Radius [ft] | |
| Slope [ft/ft] | -- |
| **Breather Vent Settings** | |
| Vacuum Settings [psig] | -0.0300000 |
| Pressure Settings [psig] | 0.0300000 |

| Meteorological Data | |
|---|---|
| Location | Custom Location |
| Ambient Pressure [psia] | 12.73 |
| Min Ambient Temperature [°F] | 95 |
| Max Ambient Temperature [°F] | 95 |
| Solar Insolation [BTU/ft2*day] | 1810 |
| Wind Speed [mph] | 8.683 |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | | | | |
| | | % | % | | | | |
| Capture Effeciency | | 0 | 0 | | | | |
| Percent to Flare | | -- | -- | | | | |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | | | | Total Losses |
| | | [lb/h] | [lb/h] | | | | [lb/h] |
| VOCs [C3+] | | 0.119 | 2.402 | | | | 2.521 |
| Benzene | | 0.010 | 0.935 | | | | 0.944 |
| H2S | | 0.000 | 0.009 | | | | 0.009 |

# PROMAX REPORT - WATER TANKS - HOURLY

| Emission Composition | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Component | Flash Gas [Mol%] | W/B Losses [Mol%] | | | | |
| 1 | Hydrogen Sulfide | 0.010 | 0.095 | | | | |
| 2 | Nitrogen | 0.543 | 0.046 | | | | |
| 3 | Carbon Dioxide | 1.298 | 4.225 | | | | |
| 4 | Methane | 68.154 | 12.018 | | | | |
| 5 | Ethane | 14.214 | 3.383 | | | | |
| 6 | Propane | 4.711 | 0.774 | | | | |
| 7 | i-Butane | 0.361 | 0.035 | | | | |
| 8 | n-Butane | 1.356 | 0.206 | | | | |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | | | | |
| 10 | i-Pentane | 0.156 | 0.015 | | | | |
| 11 | n-Pentane | 0.057 | 0.003 | | | | |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | | | | |
| 13 | Cyclopentane | 0.000 | 0.000 | | | | |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | | | | |
| 15 | 2-Methylpentane | 0.016 | 0.001 | | | | |
| 16 | 3-Methylpentane | 0.023 | 0.003 | | | | |
| 17 | n-Hexane | 0.010 | 0.000 | | | | |
| 18 | Methylcyclopentane | 0.070 | 0.016 | | | | |
| 19 | Benzene | 0.476 | 4.402 | | | | |
| 20 | Cyclohexane | 0.347 | 0.172 | | | | |
| 21 | 2-Methylhexane | 0.000 | 0.000 | | | | |
| 22 | 3-Methylhexane | 0.002 | 0.000 | | | | |
| 23 | 2,2,4-Trimethylpentane | 0.000 | 0.000 | | | | |
| 24 | n-Heptane | 0.002 | 0.000 | | | | |
| 25 | Methylcyclohexane | 0.082 | 0.017 | | | | |
| 26 | Toluene | 0.412 | 3.810 | | | | |
| 27 | n-Octane | 0.000 | 0.000 | | | | |
| 28 | Ethylbenzene | 0.031 | 0.288 | | | | |
| 29 | m-Xylene | 0.084 | 0.660 | | | | |
| 30 | p-Xylene | 0.000 | 0.000 | | | | |
| 31 | o-Xylene | 0.021 | 0.197 | | | | |
| 32 | n-Nonane | 0.000 | 0.000 | | | | |
| 33 | n-Decane | 0.000 | 0.000 | | | | |
| 34 | Undecane | 0.000 | 0.000 | | | | |
| 35 | Dodecane | 0.000 | 0.000 | | | | |
| 36 | Tridecane | 0.000 | 0.000 | | | | |
| 37 | Tetradecane | 0.000 | 0.000 | | | | |
| 38 | Pentadecane | 0.000 | 0.000 | | | | |
| 39 | Hexadecane | 0.000 | 0.000 | | | | |
| 40 | Heptadecane | 0.000 | 0.000 | | | | |
| 41 | Octadecane | 0.000 | 0.000 | | | | |
| 42 | Nonadecane | 0.000 | 0.000 | | | | |
| 43 | Eicosane | 0.000 | 0.000 | | | | |
| 44 | Heneicosane | 0.000 | 0.000 | | | | |
| 45 | Docosane | 0.000 | 0.000 | | | | |
| 46 | Tricosane | 0.000 | 0.000 | | | | |
| 47 | Tetracosane | 0.000 | 0.000 | | | | |
| 48 | Pentacosane | 0.000 | 0.000 | | | | |
| 49 | Hexacosane | 0.000 | 0.000 | | | | |
| 50 | Heptacosane | 0.000 | 0.000 | | | | |
| 51 | Octacosane | 0.000 | 0.000 | | | | |
| 52 | Nonacosane | 0.000 | 0.000 | | | | |
| 53 | C30 | 0.000 | 0.000 | | | | |
| 54 | Water | 7.562 | 69.634 | | | | |
| 55 | C10+ | 0.000 | 0.000 | | | | |

# PROMAX REPORT - WATER TANKS - HOURLY

**Stream Compositional Data**

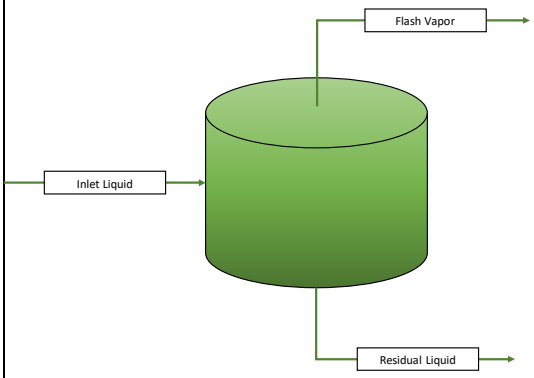
| No. | Component | Flash Gas [lb/h] | W/B Losses [lb/h] | | | | Total Losses [lb/h] |
|---|---|---|---|---|---|---|---|
| 1 | Hydrogen Sulfide | 0.000 | 0.009 | | | | 0.0089205 |
| 2 | Nitrogen | 0.004 | 0.004 | | | | 0.007 |
| 3 | Carbon Dioxide | 0.015 | 0.505 | | | | 0.520 |
| 4 | Methane | 0.283 | 0.524 | | | | 0.807 |
| 5 | Ethane | 0.111 | 0.277 | | | | 0.387 |
| 6 | Propane | 0.054 | 0.093 | | | | 0.147 |
| 7 | i-Butane | 0.005 | 0.006 | | | | 0.011 |
| 8 | n-Butane | 0.020 | 0.033 | | | | 0.053 |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | | | | 0.000 |
| 10 | i-Pentane | 0.003 | 0.003 | | | | 0.006 |
| 11 | n-Pentane | 0.001 | 0.001 | | | | 0.002 |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | | | | 0.000 |
| 13 | Cyclopentane | 0.000 | 0.000 | | | | 0.000 |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | | | | 0.000 |
| 15 | 2-Methylpentane | 0.000 | 0.000 | | | | 0.001 |
| 16 | 3-Methylpentane | 0.001 | 0.001 | | | | 0.001 |
| 17 | n-Hexane | 0.000 | 0.000 | | | | 0.000 |
| 18 | Methylcyclopentane | 0.002 | 0.004 | | | | 0.005 |
| 19 | Benzene | 0.010 | 0.935 | | | | 0.944 |
| 20 | Cyclohexane | 0.008 | 0.039 | | | | 0.047 |
| 21 | 2-Methylhexane | 0.000 | 0.000 | | | | 0.000 |
| 22 | 3-Methylhexane | 0.000 | 0.000 | | | | 0.000 |
| 23 | 2,2,4-Trimethylpentane | 0.000 | 0.000 | | | | 0.000 |
| 24 | n-Heptane | 0.000 | 0.000 | | | | 0.000 |
| 25 | Methylcyclohexane | 0.002 | 0.005 | | | | 0.007 |
| 26 | Toluene | 0.010 | 0.954 | | | | 0.964 |
| 27 | n-Octane | 0.000 | 0.000 | | | | 0.000 |
| 28 | Ethylbenzene | 0.001 | 0.083 | | | | 0.084 |
| 29 | m-Xylene | 0.002 | 0.191 | | | | 0.193 |
| 30 | p-Xylene | 0.000 | 0.000 | | | | 0.000 |
| 31 | o-Xylene | 0.001 | 0.057 | | | | 0.057 |
| 32 | n-Nonane | 0.000 | 0.000 | | | | 0.000 |
| 33 | n-Decane | 0.000 | 0.000 | | | | 0.000 |
| 34 | Undecane | 0.000 | 0.000 | | | | 0.000 |
| 35 | Dodecane | 0.000 | 0.000 | | | | 0.000 |
| 36 | Tridecane | 0.000 | 0.000 | | | | 0.000 |
| 37 | Tetradecane | 0.000 | 0.000 | | | | 0.000 |
| 38 | Pentadecane | 0.000 | 0.000 | | | | 0.000 |
| 39 | Hexadecane | 0.000 | 0.000 | | | | 0.000 |
| 40 | Heptadecane | 0.000 | 0.000 | | | | 0.000 |
| 41 | Octadecane | 0.000 | 0.000 | | | | 0.000 |
| 42 | Nonadecane | 0.000 | 0.000 | | | | 0.000 |
| 43 | Eicosane | 0.000 | 0.000 | | | | 0.000 |
| 44 | Heneicosane | 0.000 | 0.000 | | | | 0.000 |
| 45 | Docosane | 0.000 | 0.000 | | | | 0.000 |
| 46 | Tricosane | 0.000 | 0.000 | | | | 0.000 |
| 47 | Tetracosane | 0.000 | 0.000 | | | | 0.000 |
| 48 | Pentacosane | 0.000 | 0.000 | | | | 0.000 |
| 49 | Hexacosane | 0.000 | 0.000 | | | | 0.000 |
| 50 | Heptacosane | 0.000 | 0.000 | | | | 0.000 |
| 51 | Octacosane | 0.000 | 0.000 | | | | 0.000 |
| 52 | Nonacosane | 0.000 | 0.000 | | | | 0.000 |
| 53 | C30 | 0.000 | 0.000 | | | | 0.000 |
| 54 | Water | 0.035 | 3.410 | | | | 3.445 |
| 55 | C10+ | 0.000 | 0.000 | | | | 0.000 |

**Stream Properties**

| | | Flash Gas | W/B Losses | | | | |
|---|---|---|---|---|---|---|---|
| MW | | 21.900 | 26.232 | | | | |
| Heating Value [BTU/scf] | | 1083.794 | 576.646 | | | | |
| Specific Gravity | | 0.756 | 0.906 | | | | |
| VOC Concentration [wt%] | | 100.000 | 100.000 | | | | |
| Temperature [°F] | | 100.321 | 103.405 | | | | |
| Gas Volumetric Flow [scf/hr] | | 9.826 | 103.152 | | | | |

# PROMAX REPORT - WATER TANKS - HOURLY

| Inlet Stream Data | |
|---|---|
| Component | Tank Inlet [Mol%] |
| Hydrogen Sulfide | 0.000 |
| Nitrogen | 0.000 |
| Carbon Dioxide | 0.000 |
| Methane | 0.002 |
| Ethane | 0.000 |
| Propane | 0.000 |
| i-Butane | 0.000 |
| n-Butane | 0.000 |
| 2,2-Dimethylpropane | 0.000 |
| i-Pentane | 0.000 |
| n-Pentane | 0.000 |
| 2,2-Dimethylbutane | 0.000 |
| Cyclopentane | 0.000 |
| 2,3-Dimethylbutane | 0.000 |
| 2-Methylpentane | 0.000 |
| 3-Methylpentane | 0.000 |
| n-Hexane | 0.000 |
| Methylcyclopentane | 0.000 |
| Benzene | 0.001 |
| Cyclohexane | 0.000 |
| 2-Methylhexane | 0.000 |
| 3-Methylhexane | 0.000 |
| 2,2,4-Trimethylpentane | 0.000 |
| n-Heptane | 0.000 |
| Methylcyclohexane | 0.000 |
| Toluene | 0.001 |
| n-Octane | 0.000 |
| Ethylbenzene | 0.000 |
| m-Xylene | 0.000 |
| p-Xylene | 0.000 |
| o-Xylene | 0.000 |
| n-Nonane | 0.000 |
| n-Decane | 0.000 |
| Undecane | 0.000 |
| Dodecane | 0.000 |
| Tridecane | 0.000 |
| Tetradecane | 0.000 |
| Pentadecane | 0.000 |
| Hexadecane | 0.000 |
| Heptadecane | 0.000 |
| Octadecane | 0.000 |
| Nonadecane | 0.000 |
| Eicosane | 0.000 |
| Heneicosane | 0.000 |
| Docosane | 0.000 |
| Tricosane | 0.000 |
| Tetracosane | 0.000 |
| Pentacosane | 0.000 |
| Hexacosane | 0.000 |
| Heptacosane | 0.000 |
| Octacosane | 0.000 |
| Nonacosane | 0.000 |
| C30 | 0.000 |
| Water | 99.996 |
| C10+ | 0.000 |




| Residual Liquid Data | |
|---|---|
| Flow (bbl/d) | 4995.900 |
| TVP [psia] | 12.383 |

# PROMAX REPORT - FLARE & PROCESS STREAMS - HOURLY

| Project information | |
|---|---|
| File Name | 20210125_Broadside 1H_Promax |
| Company | Devon Energy |
| City, State | {"Custom Location","Custom Location","Custom Location"} |
| Equation of State | {"Peng-Robinson","Peng-Robinson","Peng-Robinson"} |
| Description | DEETMax Emissions Report |

| Stream Selection | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Inlet Gas | Inlet Gas | Inlet Oil | Inlet Oil | | | | | | |
| Name of Process Stream | | Gas | Gas | Oil | Oil | | | | | | |

| Emission Composition | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | Component | Inlet Gas [Mol%] | Inlet Gas [Mass%] | Inlet Oil [Mol%] | Inlet Oil [Mass%] | | | | | | |
| 1 | Hydrogen Sulfide | 0.001 | 0.002 | 0.001 | 0.000 | | | | | | |
| 2 | Nitrogen | 1.389 | 1.713 | 0.078 | 0.017 | | | | | | |
| 3 | Carbon Dioxide | 0.148 | 0.287 | 0.117 | 0.040 | | | | | | |
| 4 | Methane | 74.492 | 52.620 | 1.796 | 0.226 | | | | | | |
| 5 | Ethane | 11.996 | 15.883 | 2.193 | 0.518 | | | | | | |
| 6 | Propane | 6.431 | 12.486 | 4.399 | 1.522 | | | | | | |
| 7 | i-Butane | 1.026 | 2.626 | 1.283 | 0.585 | | | | | | |
| 8 | n-Butane | 2.279 | 5.832 | 4.500 | 2.053 | | | | | | |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 10 | i-Pentane | 0.549 | 1.744 | 2.240 | 1.268 | | | | | | |
| 11 | n-Pentane | 0.557 | 1.769 | 3.036 | 1.719 | | | | | | |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 13 | Cyclopentane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 15 | 2-Methylpentane | 0.000 | 0.000 | 1.929 | 1.304 | | | | | | |
| 16 | 3-Methylpentane | 0.000 | 0.000 | 0.986 | 0.667 | | | | | | |
| 17 | n-Hexane | 0.454 | 1.723 | 2.729 | 1.845 | | | | | | |
| 18 | Methylcyclopentane | 0.000 | 0.000 | 1.921 | 1.269 | | | | | | |
| 19 | Benzene | 0.045 | 0.155 | 1.461 | 0.896 | | | | | | |
| 20 | Cyclohexane | 0.000 | 0.000 | 5.474 | 3.615 | | | | | | |
| 21 | 2-Methylhexane | 0.000 | 0.000 | 0.348 | 0.274 | | | | | | |
| 22 | 3-Methylhexane | 0.000 | 0.000 | 1.348 | 1.060 | | | | | | |
| 23 | 2,2,4-Trimethylpentane | 0.000 | 0.000 | 0.189 | 0.169 | | | | | | |
| 24 | n-Heptane | 0.277 | 1.222 | 3.680 | 2.894 | | | | | | |
| 25 | Methylcyclohexane | 0.000 | 0.000 | 6.574 | 5.066 | | | | | | |
| 26 | Toluene | 0.036 | 0.146 | 4.051 | 2.929 | | | | | | |
| 27 | n-Octane | 0.121 | 0.609 | 6.634 | 5.947 | | | | | | |
| 28 | Ethylbenzene | 0.002 | 0.009 | 0.930 | 0.775 | | | | | | |
| 29 | m-Xylene | 0.011 | 0.051 | 2.873 | 2.393 | | | | | | |
| 30 | p-Xylene | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 31 | o-Xylene | 0.003 | 0.014 | 0.755 | 0.629 | | | | | | |
| 32 | n-Nonane | 0.113 | 0.638 | 5.739 | 5.777 | | | | | | |
| 33 | n-Decane | 0.023 | 0.144 | 6.185 | 6.907 | | | | | | |
| 34 | Undecane | 0.043 | 0.296 | 3.975 | 4.876 | | | | | | |
| 35 | Dodecane | 0.004 | 0.030 | 2.905 | 3.883 | | | | | | |
| 36 | Tridecane | 0.000 | 0.000 | 2.658 | 3.846 | | | | | | |
| 37 | Tetradecane | 0.000 | 0.000 | 2.269 | 3.533 | | | | | | |
| 38 | Pentadecane | 0.000 | 0.000 | 1.953 | 3.256 | | | | | | |
| 39 | Hexadecane | 0.000 | 0.000 | 1.413 | 2.511 | | | | | | |
| 40 | Heptadecane | 0.000 | 0.000 | 0.951 | 1.794 | | | | | | |
| 41 | Octadecane | 0.000 | 0.000 | 0.655 | 1.308 | | | | | | |
| 42 | Nonadecane | 0.000 | 0.000 | 0.372 | 0.783 | | | | | | |
| 43 | Eicosane | 0.000 | 0.000 | 0.338 | 0.749 | | | | | | |
| 44 | Heneicosane | 0.000 | 0.000 | 9.064 | 21.096 | | | | | | |
| 45 | Docosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 46 | Tricosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 47 | Tetracosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 48 | Pentacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 49 | Hexacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 50 | Heptacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 51 | Octacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 52 | Nonacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 53 | C30 | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 54 | Water | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 55 | C10+ | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |

# PROMAX REPORT - FLARE & PROCESS STREAMS - HOURLY

| Stream Selection | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater Gas | Gunbarrel Gas | ULPS Gas | Oil Tanks | Water Tanks | |
| Name of Process Stream | | 1st Stage Gas | See Slop Tank Report | 1st Stage Gas | 2nd Stage Gas | HT Gas | 5 | ULPS Gas | See Oil Tank Report | SeeWater Tank Report | |

| Emission Summary | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater Gas | Gunbarrel Gas | ULPS Gas | Oil Tanks | Water Tanks | |
| | | [%] | | [%] | [%] | [%] | [%] | [%] | [%] | [%] | |
| Control Effenciency | | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 0 | |
| Percent to Flare | | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 0 | |

| Emission Summary | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater Gas | Gunbarrel Gas | ULPS Gas | Oil Tanks | Water Tanks | Total |
| | | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] |
| VOCs [C3+] | | 0.040 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 8.324 | 0.000 | 8.364 |
| Benzene | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.080 | 0.000 | 0.080 |
| H2S | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

| Emission Composition | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | Component | Pilot Gas [Mol%] | Slop Tank [Mol%] | 1st Stage Gas [Mol%] | 2nd Stage Gas [Mol%] | Heater Treater [Mol%] | Gunbarrel Gas [Mol%] | ULPS [Mol%] | Oil Tanks [Mol %] | Water Tanks [Mol %] | |
| 1 | Hydrogen Sulfide | 0.001 | See Slop Tank Report | 0.001 | -- | 0.002 | 0.008 | -- | See Oil Tank Report | See Water Tank Report | |
| 2 | Nitrogen | 1.429 | | 1.429 | -- | 0.391 | 0.713 | -- | | | |
| 3 | Carbon Dioxide | 0.175 | | 0.175 | -- | 0.222 | 1.011 | -- | | | |
| 4 | Methane | 75.009 | | 75.009 | -- | 52.881 | 70.309 | -- | | | |
| 5 | Ethane | 11.858 | | 11.858 | -- | 20.600 | 13.702 | -- | | | |
| 6 | Propane | 6.154 | | 6.154 | -- | 13.766 | 4.959 | -- | | | |
| 7 | i-Butane | 0.907 | | 0.907 | -- | 2.137 | 0.447 | -- | | | |
| 8 | n-Butane | 2.030 | | 2.030 | -- | 4.854 | 1.461 | -- | | | |
| 9 | 2,2-Dimethylpropane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 10 | i-Pentane | 0.427 | | 0.427 | -- | 1.023 | 0.195 | -- | | | |
| 11 | n-Pentane | 0.430 | | 0.430 | -- | 1.033 | 0.099 | -- | | | |
| 12 | 2,2-Dimethylbutane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 13 | Cyclopentane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 14 | 2,3-Dimethylbutane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 15 | 2-Methylpentane | 0.092 | | 0.092 | -- | 0.218 | 0.025 | -- | | | |
| 16 | 3-Methylpentane | 0.043 | | 0.043 | -- | 0.102 | 0.026 | -- | | | |
| 17 | n-Hexane | 0.152 | | 0.152 | -- | 0.361 | 0.022 | -- | | | |
| 18 | Methylcyclopentane | 0.072 | | 0.072 | -- | 0.172 | 0.068 | -- | | | |
| 19 | Benzene | 0.056 | | 0.056 | -- | 0.134 | 0.367 | -- | | | |
| 20 | Cyclohexane | 0.169 | | 0.169 | -- | 0.403 | 0.300 | -- | | | |
| 21 | 2-Methylhexane | 0.007 | | 0.007 | -- | 0.016 | 0.001 | -- | | | |
| 22 | 3-Methylhexane | 0.024 | | 0.024 | -- | 0.057 | 0.004 | -- | | | |
| 23 | 2,2,4-Trimethylpentane | 0.003 | | 0.003 | -- | 0.007 | 0.000 | -- | | | |
| 24 | n-Heptane | 0.066 | | 0.066 | -- | 0.152 | 0.006 | -- | | | |
| 25 | Methylcyclohexane | 0.095 | | 0.095 | -- | 0.222 | 0.082 | -- | | | |
| 26 | Toluene | 0.052 | | 0.052 | -- | 0.122 | 0.318 | -- | | | |
| 27 | n-Octane | 0.036 | | 0.036 | -- | 0.081 | 0.002 | -- | | | |
| 28 | Ethylbenzene | 0.004 | | 0.004 | -- | 0.010 | 0.024 | -- | | | |
| 29 | m-Xylene | 0.012 | | 0.012 | -- | 0.027 | 0.065 | -- | | | |
| 30 | p-Xylene | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 31 | o-Xylene | 0.003 | | 0.003 | -- | 0.006 | 0.016 | -- | | | |
| 32 | n-Nonane | 0.011 | | 0.011 | -- | 0.024 | 0.000 | -- | | | |
| 33 | n-Decane | 0.004 | | 0.004 | -- | 0.009 | 0.000 | -- | | | |
| 34 | Undecane | 0.001 | | 0.001 | -- | 0.002 | 0.000 | -- | | | |
| 35 | Dodecane | 0.000 | | 0.000 | -- | 0.001 | 0.000 | -- | | | |
| 36 | Tridecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 37 | Tetradecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 38 | Pentadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 39 | Hexadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 40 | Heptadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 41 | Octadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 42 | Nonadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 43 | Eicosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 44 | Heneicosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 45 | Docosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 46 | Tricosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 47 | Tetracosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 48 | Pentacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 49 | Hexacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 50 | Heptacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 51 | Octacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 52 | Nonacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 53 | C30 | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 54 | Water | 0.679 | | 0.679 | -- | 0.964 | 5.770 | -- | | | |
| 55 | C10+ | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |

# PROMAX REPORT - FLARE & PROCESS STREAMS - HOURLY

**Stream Compositional Data**

| No. | Component | Pilot Gas [lb/h] | Slop Tank [lb/h] | 1st Stage Gas [lb/h] | 2nd Stage Gas [lb/h] | Heater Treater [lb/h] | Gunbarrel Gas [lb/h] | ULPS [lb/h] | Oil Tanks [lb/h] | Water Tanks [lb/h] | Total [lb/h] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Hydrogen Sulfide | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 2 | Nitrogen | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.005 |
| 3 | Carbon Dioxide | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.014 |
| 4 | Methane | 0.08 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51 | 0.00 | 0.590 |
| 5 | Ethane | 0.02 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.60 | 0.00 | 1.627 |
| 6 | Propane | 0.02 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.08 | 0.00 | 3.098 |
| 7 | i-Butane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.79 | 0.00 | 0.791 |
| 8 | n-Butane | 0.01 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.91 | 0.00 | 1.918 |
| 9 | 2,2-Dimethylpropane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 10 | i-Pentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.54 | 0.00 | 0.546 |
| 11 | n-Pentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 | 0.00 | 0.559 |
| 12 | 2,2-Dimethylbutane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 13 | Cyclopentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 14 | 2,3-Dimethylbutane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 15 | 2-Methylpentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.143 |
| 16 | 3-Methylpentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.067 |
| 17 | n-Hexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.236 |
| 18 | Methylcyclopentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.111 |
| 19 | Benzene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.080 |
| 20 | Cyclohexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 0.259 |
| 21 | 2-Methylhexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.012 |
| 22 | 3-Methylhexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.043 |
| 23 | 2,2,4-Trimethylpentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.006 |
| 24 | n-Heptane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.114 |
| 25 | Methylcyclohexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.164 |
| 26 | Toluene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.084 |
| 27 | n-Octane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.067 |
| 28 | Ethylbenzene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.007 |
| 29 | m-Xylene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.021 |
| 30 | p-Xylene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 31 | o-Xylene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.005 |
| 32 | n-Nonane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.022 |
| 33 | n-Decane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.008 |
| 34 | Undecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.002 |
| 35 | Dodecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.001 |
| 36 | Tridecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 37 | Tetradecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 38 | Pentadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 39 | Hexadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 40 | Heptadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 41 | Octadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 42 | Nonadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 43 | Eicosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 44 | Heneicosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 45 | Docosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 46 | Tricosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 47 | Tetracosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 48 | Pentacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 49 | Hexacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 50 | Heptacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 51 | Octacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 52 | Nonacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 53 | C30 | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 54 | Water | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.031 |
| 55 | C10+ | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |

**Stream Properties**

| | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater | Gunbarrel | ULPS | Oil Tanks | Water Tanks | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating Value [BTU/scf] | | 1177.383 | See Slop Tank Report | 1177.383 | -- | 1515.428 | 1099.626 | -- | See Oil Tank Report | See Oil Tank Report | |
| Molecular Weight [lb/lbmol] | | 22.055 | | 22.055 | -- | 28.601 | 21.753 | -- | | | |
| Gas Volumetric Flow [scf/hr] | | 130.000 | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 4449.391 | 0.000 | |

# PROMAX REPORT - OIL TANKS - ANNUAL

| Project information | |
|---|---|
| File Name | 20210125_Broadside 1H_Promax |
| Company | Devon Energy |
| City, State | {"Roswell, NM","Roswell, NM","Roswell, NM"} |
| Equation of State | {"Peng-Robinson","Peng-Robinson","Peng-Robinson"} |
| Description | DEET Emissions Report |

| Stream Selection for Tank Losses Stencil | |
|---|---|
| Name of Property Stencil | Oil Tank Losses |
| Name of Process Stream | Tank Inlet[Oil Tanks] |

| Loading Information | | |
|---|---|---|
| Mode of Operation | Submerged Loading of a Clean Cargo Tank | |
| Cargo Carrier | Tank Truck or Rail Tank Car | |
| Saturation Factor | 0.6 | |
| VOCs [C3+] | 100 | *Note: VOC weight percent has been conservatively adjusted based on agency guidance* |

| Tank Information | |
|---|---|
| Shell Height [ft] | 24 |
| Diameter [ft] | 15.5 |
| Maximum Fill Percent [%] | 90 |
| Number of Tanks | 4 |
| Average Fill Percent [%] | 50 |
| Total Tank Volume [bbl] | 3226.3 |
| Net Throughput [bbl/yr] | 310250 |
| Max Liquid Surface Temperature [°F] | 75.6836 |
| Average Liquid Surface Temperature [°F] | 66.4265 |
| MW | 40.8187 |
| Turnovers (per year) | 120.728 |
| **Paint Characteristics** | |
| Shell Color | Tan |
| Shell Paint Condition | Average |
| Roof Color | Tan |
| Roof Condition | Average |
| **Roof Characteristics** | |
| Type | Dome |
| Dome Radius [ft] | |
| Slope [ft/ft] | -- |
| **Breather Vent Settings** | |
| Vacuum Settings [psig] | -0.0300000 |
| Pressure Settings [psig] | 0.0300000 |

| Meteorological Data | |
|---|---|
| Location | Roswell, NM |
| Ambient Pressure [psia] | 12.88 |
| Min Ambient Temperature [°F] | 47.6 |
| Max Ambient Temperature [°F] | 75.8 |
| Solar Insolation [BTU/ft2*day] | 1722 |
| Wind Speed [mph] | 8.7 |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | Loading Losses | Heater Treater Gas | ULPS Gas | |
| | | % | % | % | % | % | |
| Capture Effeciency | | 98 | 98 | 0 | 0 | 0 | |
| Percent to Flare | | -- | -- | -- | 0 | 0 | |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | Loading Losses | Heater Treater Gas | ULPS Gas | Total Losses |
| | | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] |
| VOCs [C3+] | | 16.184 | 1.311 | 0.000 | 0.000 | 0.000 | 17.495 |
| Benzene | | 0.161 | 0.010 | 0.000 | 0.000 | 0.000 | 0.171 |
| H2S | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

# PROMAX REPORT - OIL TANKS - ANNUAL

| Emission Composition | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Component | Flash Gas [Mol%] | W/B Losses [Mol%] | Loading Losses [Mol%] | Heater Treater [Mol%] | ULPS [Mol%] | |
| 1 | Hydrogen Sulfide | 0.003 | 0.004 | 0.004 | -- | -- | |
| 2 | Nitrogen | 0.032 | 0.006 | 0.006 | -- | -- | |
| 3 | Carbon Dioxide | 0.128 | 0.181 | 0.181 | -- | -- | |
| 4 | Methane | 13.222 | 8.687 | 8.687 | -- | -- | |
| 5 | Ethane | 21.908 | 29.013 | 29.013 | -- | -- | |
| 6 | Propane | 29.693 | 32.404 | 32.404 | -- | -- | |
| 7 | i-Butane | 5.885 | 5.642 | 5.642 | -- | -- | |
| 8 | n-Butane | 14.380 | 13.058 | 13.058 | -- | -- | |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 10 | i-Pentane | 3.357 | 2.690 | 2.690 | -- | -- | |
| 11 | n-Pentane | 3.446 | 2.653 | 2.653 | -- | -- | |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 13 | Cyclopentane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 15 | 2-Methylpentane | 0.743 | 0.523 | 0.523 | -- | -- | |
| 16 | 3-Methylpentane | 0.348 | 0.242 | 0.242 | -- | -- | |
| 17 | n-Hexane | 1.245 | 0.831 | 0.831 | -- | -- | |
| 18 | Methylcyclopentane | 0.591 | 0.410 | 0.410 | -- | -- | |
| 19 | Benzene | 0.462 | 0.316 | 0.316 | -- | -- | |
| 20 | Cyclohexane | 1.382 | 0.933 | 0.933 | -- | -- | |
| 21 | 2-Methylhexane | 0.054 | 0.034 | 0.034 | -- | -- | |
| 22 | 3-Methylhexane | 0.194 | 0.120 | 0.120 | -- | -- | |
| 23 | 2,2,4-Trimethylpentane | 0.022 | 0.014 | 0.014 | -- | -- | |
| 24 | n-Heptane | 0.520 | 0.311 | 0.311 | -- | -- | |
| 25 | Methylcyclohexane | 0.760 | 0.465 | 0.465 | -- | -- | |
| 26 | Toluene | 0.417 | 0.252 | 0.252 | -- | -- | |
| 27 | n-Octane | 0.270 | 0.144 | 0.144 | -- | -- | |
| 28 | Ethylbenzene | 0.032 | 0.017 | 0.017 | -- | -- | |
| 29 | m-Xylene | 0.091 | 0.049 | 0.049 | -- | -- | |
| 30 | p-Xylene | 0.000 | 0.000 | 0.000 | -- | -- | |
| 31 | o-Xylene | 0.021 | 0.011 | 0.011 | -- | -- | |
| 32 | n-Nonane | 0.080 | 0.038 | 0.038 | -- | -- | |
| 33 | n-Decane | 0.028 | 0.012 | 0.012 | -- | -- | |
| 34 | Undecane | 0.006 | 0.002 | 0.002 | -- | -- | |
| 35 | Dodecane | 0.002 | 0.001 | 0.001 | -- | -- | |
| 36 | Tridecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 37 | Tetradecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 38 | Pentadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 39 | Hexadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 40 | Heptadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 41 | Octadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 42 | Nonadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 43 | Eicosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 44 | Heneicosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 45 | Docosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 46 | Tricosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 47 | Tetracosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 48 | Pentacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 49 | Hexacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 50 | Heptacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 51 | Octacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 52 | Nonacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 53 | C30 | 0.000 | 0.000 | 0.000 | -- | -- | |
| 54 | Water | 0.677 | 0.938 | 0.938 | -- | -- | |
| 55 | C10+ | 0.000 | 0.000 | 0.000 | -- | -- | |

# PROMAX REPORT - OIL TANKS - ANNUAL

**Stream Compositional Data**

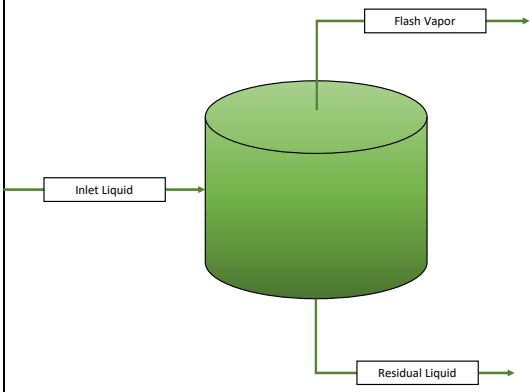
| No. | Component | Flash Gas [ton/yr] | W/B Losses [ton/yr] | Loading Losses [ton/yr] | Heater Treater [ton/yr] | ULPS [ton/yr] | Total Losses [ton/yr] |
|---|---|---|---|---|---|---|---|
| 1 | Hydrogen Sulfide | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 2 | Nitrogen | 0.004 | 0.000 | 0.000 | -- | -- | 0.004 |
| 3 | Carbon Dioxide | 0.025 | 0.003 | 0.000 | -- | -- | 0.028 |
| 4 | Methane | 0.944 | 0.055 | 0.000 | -- | -- | 0.999 |
| 5 | Ethane | 2.932 | 0.344 | 0.000 | -- | -- | 3.276 |
| 6 | Propane | 5.828 | 0.563 | 0.000 | -- | -- | 6.392 |
| 7 | i-Butane | 1.522 | 0.129 | 0.000 | -- | -- | 1.652 |
| 8 | n-Butane | 3.721 | 0.299 | 0.000 | -- | -- | 4.020 |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 10 | i-Pentane | 1.078 | 0.077 | 0.000 | -- | -- | 1.155 |
| 11 | n-Pentane | 1.107 | 0.075 | 0.000 | -- | -- | 1.182 |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 13 | Cyclopentane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 15 | 2-Methylpentane | 0.285 | 0.018 | 0.000 | -- | -- | 0.303 |
| 16 | 3-Methylpentane | 0.133 | 0.008 | 0.000 | -- | -- | 0.142 |
| 17 | n-Hexane | 0.477 | 0.028 | 0.000 | -- | -- | 0.506 |
| 18 | Methylcyclopentane | 0.221 | 0.014 | 0.000 | -- | -- | 0.235 |
| 19 | Benzene | 0.161 | 0.010 | 0.000 | -- | -- | 0.171 |
| 20 | Cyclohexane | 0.518 | 0.031 | 0.000 | -- | -- | 0.549 |
| 21 | 2-Methylhexane | 0.024 | 0.001 | 0.000 | -- | -- | 0.026 |
| 22 | 3-Methylhexane | 0.087 | 0.005 | 0.000 | -- | -- | 0.091 |
| 23 | 2,2,4-Trimethylpentane | 0.011 | 0.001 | 0.000 | -- | -- | 0.012 |
| 24 | n-Heptane | 0.232 | 0.012 | 0.000 | -- | -- | 0.244 |
| 25 | Methylcyclohexane | 0.332 | 0.018 | 0.000 | -- | -- | 0.350 |
| 26 | Toluene | 0.171 | 0.009 | 0.000 | -- | -- | 0.180 |
| 27 | n-Octane | 0.137 | 0.006 | 0.000 | -- | -- | 0.144 |
| 28 | Ethylbenzene | 0.015 | 0.001 | 0.000 | -- | -- | 0.016 |
| 29 | m-Xylene | 0.043 | 0.002 | 0.000 | -- | -- | 0.045 |
| 30 | p-Xylene | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 31 | o-Xylene | 0.010 | 0.000 | 0.000 | -- | -- | 0.011 |
| 32 | n-Nonane | 0.045 | 0.002 | 0.000 | -- | -- | 0.047 |
| 33 | n-Decane | 0.018 | 0.001 | 0.000 | -- | -- | 0.018 |
| 34 | Undecane | 0.004 | 0.000 | 0.000 | -- | -- | 0.004 |
| 35 | Dodecane | 0.001 | 0.000 | 0.000 | -- | -- | 0.001 |
| 36 | Tridecane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 37 | Tetradecane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 38 | Pentadecane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 39 | Hexadecane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 40 | Heptadecane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 41 | Octadecane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 42 | Nonadecane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 43 | Eicosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 44 | Heneicosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 45 | Docosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 46 | Tricosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 47 | Tetracosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 48 | Pentacosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 49 | Hexacosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 50 | Heptacosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 51 | Octacosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 52 | Nonacosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 53 | C30 | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 54 | Water | 0.054 | 0.007 | 0.000 | -- | -- | 0.061 |
| 55 | C10+ | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |

**Stream Properties**

| | | Flash Gas | W/B Losses | Loading Losses | Heater Treater | ULPS | |
|---|---|---|---|---|---|---|---|
| MW | | 45.255 | 43.621 | 43.621 | 28.614 | -- | |
| Heating Value [BTU/scf] | | 2351.505 | 2270.466 | 2270.466 | 1516.059 | -- | |
| Specific Gravity | | 1.563 | 1.506 | 1.506 | 0.988 | -- | |
| VOC Concentration [wt%] | | 100.000 | 100.000 | 100.000 | 100.000 | -- | |
| Temperature [°F] | | 97.886 | 75.684 | 75.684 | 100.000 | -- | |
| Gas Volumetric Flow [scf/hr] | | 1928.332 | 170.824 | 69.443 | 0.000 | 0.000 | |

# PROMAX REPORT - OIL TANKS - ANNUAL

| Inlet Stream Data | |
|---|---|
| Component | Tank Inlet [Mol%] |
| Hydrogen Sulfide | 0.000 |
| Nitrogen | 0.002 |
| Carbon Dioxide | 0.010 |
| Methane | 0.963 |
| Ethane | 2.070 |
| Propane | 4.788 |
| i-Butane | 1.578 |
| n-Butane | 5.069 |
| 2,2-Dimethylpropane | 0.000 |
| i-Pentane | 2.564 |
| n-Pentane | 3.363 |
| 2,2-Dimethylbutane | 0.000 |
| Cyclopentane | 0.000 |
| 2,3-Dimethylbutane | 0.000 |
| 2-Methylpentane | 1.586 |
| 3-Methylpentane | 0.824 |
| n-Hexane | 3.659 |
| Methylcyclopentane | 1.643 |
| Benzene | 1.376 |
| Cyclohexane | 4.803 |
| 2-Methylhexane | 0.319 |
| 3-Methylhexane | 1.241 |
| 2,2,4-Trimethylpentane | 0.176 |
| n-Heptane | 4.303 |
| Methylcyclohexane | 6.133 |
| Toluene | 3.908 |
| n-Octane | 6.790 |
| Ethylbenzene | 0.904 |
| m-Xylene | 2.814 |
| p-Xylene | 0.000 |
| o-Xylene | 0.741 |
| n-Nonane | 5.969 |
| n-Decane | 6.133 |
| Undecane | 4.040 |
| Dodecane | 2.863 |
| Tridecane | 2.609 |
| Tetradecane | 2.227 |
| Pentadecane | 1.917 |
| Hexadecane | 1.387 |
| Heptadecane | 0.933 |
| Octadecane | 0.643 |
| Nonadecane | 0.365 |
| Eicosane | 0.332 |
| Heneicosane | 8.896 |
| Docosane | 0.000 |
| Tricosane | 0.000 |
| Tetracosane | 0.000 |
| Pentacosane | 0.000 |
| Hexacosane | 0.000 |
| Heptacosane | 0.000 |
| Octacosane | 0.000 |
| Nonacosane | 0.000 |
| C30 | 0.000 |
| Water | 0.057 |
| C10+ | 0.000 |




| Residual Liquid Data | |
|---|---|
| Flow (bbl/d) | 850.000 |
| TVP [psia] | 11.514 |

# PROMAX REPORT - WATER TANKS - ANNUAL

| Project information | |
|---|---|
| File Name | 20210125_Broadside 1H_Promax |
| Company | Devon Energy |
| City, State | {"Roswell, NM","Roswell, NM","Roswell, NM"} |
| Equation of State | {"Peng-Robinson","Peng-Robinson","Peng-Robinson"} |
| Description | DEET Emissions Report |

| Stream Selection for Tank Losses Stencil | |
|---|---|
| Name of Property Stencil | Water Tank Losses |
| Name of Process Stream | Inlet[Water Tanks] |

| Loading Information | | |
|---|---|---|
| Mode of Operation | Submerged Loading of a Clean Cargo Tank | |
| Cargo Carrier | Tank Truck or Rail Tank Car | |
| Saturation Factor | 0.6 | |
| VOCs [C3+] | 100 | *Note: VOC weight percent has been conservatively adjusted based on agency guidance* |

| Tank Information | |
|---|---|
| Shell Height [ft] | 24 |
| Diameter [ft] | 15.5 |
| Maximum Fill Percent [%] | 90 |
| Number of Tanks | 2 |
| Average Fill Percent [%] | 50 |
| Total Tank Volume [bbl] | 1613.2 |
| Net Throughput [bbl/yr] | 656320 |
| Max Liquid Surface Temperature [°F] | 75.6836 |
| Average Liquid Surface Temperature [°F] | 66.4265 |
| MW | 20.9929 |
| Turnovers (per year) | 508.929 |
| **Paint Characteristics** | |
| Shell Color | Tan |
| Shell Paint Condition | Average |
| Roof Color | Tan |
| Roof Condition | Average |
| **Roof Characteristics** | |
| Type | Dome |
| Dome Radius [ft] | |
| Slope [ft/ft] | -- |
| **Breather Vent Settings** | |
| Vacuum Settings [psig] | -0.0300000 |
| Pressure Settings [psig] | 0.0300000 |

| Meteorological Data | |
|---|---|
| Location | Roswell, NM |
| Ambient Pressure [psia] | 12.88 |
| Min Ambient Temperature [°F] | 47.6 |
| Max Ambient Temperature [°F] | 75.8 |
| Solar Insolation [BTU/ft2*day] | 1722 |
| Wind Speed [mph] | 8.7 |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | | | | |
| | | % | % | | | | |
| Capture Effeciency | | 0 | 0 | | | | |
| Percent to Flare | | -- | -- | | | | |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | | | | Total Losses |
| | | [ton/yr] | [ton/yr] | | | | [ton/yr] |
| VOCs [C3+] | | 0.181 | 0.734 | | | | 0.914 |
| Benzene | | 0.014 | 0.215 | | | | 0.229 |
| H2S | | 0.000 | 0.003 | | | | 0.003 |

# PROMAX REPORT - WATER TANKS - ANNUAL

| Emission Composition | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Component | Flash Gas [Mol%] | W/B Losses [Mol%] | | | | |
| 1 | Hydrogen Sulfide | 0.010 | 0.085 | | | | |
| 2 | Nitrogen | 0.548 | 0.194 | | | | |
| 3 | Carbon Dioxide | 1.283 | 10.109 | | | | |
| 4 | Methane | 68.249 | 39.150 | | | | |
| 5 | Ethane | 14.204 | 10.260 | | | | |
| 6 | Propane | 4.727 | 2.582 | | | | |
| 7 | i-Butane | 0.365 | 0.142 | | | | |
| 8 | n-Butane | 1.363 | 0.703 | | | | |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | | | | |
| 10 | i-Pentane | 0.157 | 0.060 | | | | |
| 11 | n-Pentane | 0.058 | 0.015 | | | | |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | | | | |
| 13 | Cyclopentane | 0.000 | 0.000 | | | | |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | | | | |
| 15 | 2-Methylpentane | 0.016 | 0.005 | | | | |
| 16 | 3-Methylpentane | 0.023 | 0.011 | | | | |
| 17 | n-Hexane | 0.010 | 0.002 | | | | |
| 18 | Methylcyclopentane | 0.069 | 0.048 | | | | |
| 19 | Benzene | 0.471 | 2.838 | | | | |
| 20 | Cyclohexane | 0.343 | 0.460 | | | | |
| 21 | 2-Methylhexane | 0.000 | 0.000 | | | | |
| 22 | 3-Methylhexane | 0.002 | 0.000 | | | | |
| 23 | 2,2,4-Trimethylpentane | 0.000 | 0.000 | | | | |
| 24 | n-Heptane | 0.002 | 0.000 | | | | |
| 25 | Methylcyclohexane | 0.082 | 0.054 | | | | |
| 26 | Toluene | 0.408 | 2.508 | | | | |
| 27 | n-Octane | 0.000 | 0.000 | | | | |
| 28 | Ethylbenzene | 0.031 | 0.168 | | | | |
| 29 | m-Xylene | 0.083 | 0.523 | | | | |
| 30 | p-Xylene | 0.000 | 0.000 | | | | |
| 31 | o-Xylene | 0.021 | 0.117 | | | | |
| 32 | n-Nonane | 0.000 | 0.000 | | | | |
| 33 | n-Decane | 0.000 | 0.000 | | | | |
| 34 | Undecane | 0.000 | 0.000 | | | | |
| 35 | Dodecane | 0.000 | 0.000 | | | | |
| 36 | Tridecane | 0.000 | 0.000 | | | | |
| 37 | Tetradecane | 0.000 | 0.000 | | | | |
| 38 | Pentadecane | 0.000 | 0.000 | | | | |
| 39 | Hexadecane | 0.000 | 0.000 | | | | |
| 40 | Heptadecane | 0.000 | 0.000 | | | | |
| 41 | Octadecane | 0.000 | 0.000 | | | | |
| 42 | Nonadecane | 0.000 | 0.000 | | | | |
| 43 | Eicosane | 0.000 | 0.000 | | | | |
| 44 | Heneicosane | 0.000 | 0.000 | | | | |
| 45 | Docosane | 0.000 | 0.000 | | | | |
| 46 | Tricosane | 0.000 | 0.000 | | | | |
| 47 | Tetracosane | 0.000 | 0.000 | | | | |
| 48 | Pentacosane | 0.000 | 0.000 | | | | |
| 49 | Hexacosane | 0.000 | 0.000 | | | | |
| 50 | Heptacosane | 0.000 | 0.000 | | | | |
| 51 | Octacosane | 0.000 | 0.000 | | | | |
| 52 | Nonacosane | 0.000 | 0.000 | | | | |
| 53 | C30 | 0.000 | 0.000 | | | | |
| 54 | Water | 7.475 | 29.965 | | | | |
| 55 | C10+ | 0.000 | 0.000 | | | | |

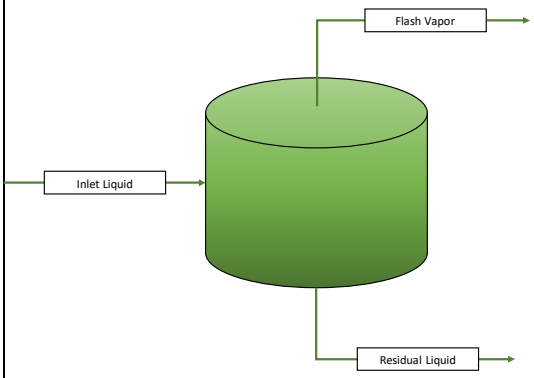
# PROMAX REPORT - WATER TANKS - ANNUAL

| Stream Compositional Data | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Component | Flash Gas [ton/yr] | W/B Losses [ton/yr] | | | | Total Losses [ton/yr] |
| 1 | Hydrogen Sulfide | 0.000 | 0.003 | | | | 0.002946183 |
| 2 | Nitrogen | 0.006 | 0.005 | | | | 0.011 |
| 3 | Carbon Dioxide | 0.022 | 0.431 | | | | 0.453 |
| 4 | Methane | 0.429 | 0.609 | | | | 1.038 |
| 5 | Ethane | 0.167 | 0.299 | | | | 0.467 |
| 6 | Propane | 0.082 | 0.110 | | | | 0.192 |
| 7 | i-Butane | 0.008 | 0.008 | | | | 0.016 |
| 8 | n-Butane | 0.031 | 0.040 | | | | 0.071 |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | | | | 0.000 |
| 10 | i-Pentane | 0.004 | 0.004 | | | | 0.009 |
| 11 | n-Pentane | 0.002 | 0.001 | | | | 0.003 |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | | | | 0.000 |
| 13 | Cyclopentane | 0.000 | 0.000 | | | | 0.000 |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | | | | 0.000 |
| 15 | 2-Methylpentane | 0.001 | 0.000 | | | | 0.001 |
| 16 | 3-Methylpentane | 0.001 | 0.001 | | | | 0.002 |
| 17 | n-Hexane | 0.000 | 0.000 | | | | 0.001 |
| 18 | Methylcyclopentane | 0.002 | 0.004 | | | | 0.006 |
| 19 | Benzene | 0.014 | 0.215 | | | | 0.229 |
| 20 | Cyclohexane | 0.011 | 0.038 | | | | 0.049 |
| 21 | 2-Methylhexane | 0.000 | 0.000 | | | | 0.000 |
| 22 | 3-Methylhexane | 0.000 | 0.000 | | | | 0.000 |
| 23 | 2,2,4-Trimethylpentane | 0.000 | 0.000 | | | | 0.000 |
| 24 | n-Heptane | 0.000 | 0.000 | | | | 0.000 |
| 25 | Methylcyclohexane | 0.003 | 0.005 | | | | 0.008 |
| 26 | Toluene | 0.015 | 0.224 | | | | 0.239 |
| 27 | n-Octane | 0.000 | 0.000 | | | | 0.000 |
| 28 | Ethylbenzene | 0.001 | 0.017 | | | | 0.019 |
| 29 | m-Xylene | 0.003 | 0.054 | | | | 0.057 |
| 30 | p-Xylene | 0.000 | 0.000 | | | | 0.000 |
| 31 | o-Xylene | 0.001 | 0.012 | | | | 0.013 |
| 32 | n-Nonane | 0.000 | 0.000 | | | | 0.000 |
| 33 | n-Decane | 0.000 | 0.000 | | | | 0.000 |
| 34 | Undecane | 0.000 | 0.000 | | | | 0.000 |
| 35 | Dodecane | 0.000 | 0.000 | | | | 0.000 |
| 36 | Tridecane | 0.000 | 0.000 | | | | 0.000 |
| 37 | Tetradecane | 0.000 | 0.000 | | | | 0.000 |
| 38 | Pentadecane | 0.000 | 0.000 | | | | 0.000 |
| 39 | Hexadecane | 0.000 | 0.000 | | | | 0.000 |
| 40 | Heptadecane | 0.000 | 0.000 | | | | 0.000 |
| 41 | Octadecane | 0.000 | 0.000 | | | | 0.000 |
| 42 | Nonadecane | 0.000 | 0.000 | | | | 0.000 |
| 43 | Eicosane | 0.000 | 0.000 | | | | 0.000 |
| 44 | Heneicosane | 0.000 | 0.000 | | | | 0.000 |
| 45 | Docosane | 0.000 | 0.000 | | | | 0.000 |
| 46 | Tricosane | 0.000 | 0.000 | | | | 0.000 |
| 47 | Tetracosane | 0.000 | 0.000 | | | | 0.000 |
| 48 | Pentacosane | 0.000 | 0.000 | | | | 0.000 |
| 49 | Hexacosane | 0.000 | 0.000 | | | | 0.000 |
| 50 | Heptacosane | 0.000 | 0.000 | | | | 0.000 |
| 51 | Octacosane | 0.000 | 0.000 | | | | 0.000 |
| 52 | Nonacosane | 0.000 | 0.000 | | | | 0.000 |
| 53 | C30 | 0.000 | 0.000 | | | | 0.000 |
| 54 | Water | 0.053 | 0.523 | | | | 0.576 |
| 55 | C10+ | 0.000 | 0.000 | | | | 0.000 |

| Stream Properties | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Flash Gas | W/B Losses | | | | |
| MW | | 21.893 | 26.862 | | | | |
| Heating Value [BTU/scf] | | 1084.674 | 884.185 | | | | |
| Specific Gravity | | 0.756 | 0.927 | | | | |
| VOC Concentration [wt%] | | 100.000 | 100.000 | | | | |
| Temperature [°F] | | 100.321 | 75.684 | | | | |
| Gas Volumetric Flow [scf/hr] | | 3.397 | 8.400 | | | | |

# PROMAX REPORT - WATER TANKS - ANNUAL

| Inlet Stream Data | |
|---|---|
| Component | Tank Inlet [Mol%] |
| Hydrogen Sulfide | 0.000 |
| Nitrogen | 0.000 |
| Carbon Dioxide | 0.000 |
| Methane | 0.002 |
| Ethane | 0.000 |
| Propane | 0.000 |
| i-Butane | 0.000 |
| n-Butane | 0.000 |
| 2,2-Dimethylpropane | 0.000 |
| i-Pentane | 0.000 |
| n-Pentane | 0.000 |
| 2,2-Dimethylbutane | 0.000 |
| Cyclopentane | 0.000 |
| 2,3-Dimethylbutane | 0.000 |
| 2-Methylpentane | 0.000 |
| 3-Methylpentane | 0.000 |
| n-Hexane | 0.000 |
| Methylcyclopentane | 0.000 |
| Benzene | 0.001 |
| Cyclohexane | 0.000 |
| 2-Methylhexane | 0.000 |
| 3-Methylhexane | 0.000 |
| 2,2,4-Trimethylpentane | 0.000 |
| n-Heptane | 0.000 |
| Methylcyclohexane | 0.000 |
| Toluene | 0.001 |
| n-Octane | 0.000 |
| Ethylbenzene | 0.000 |
| m-Xylene | 0.000 |
| p-Xylene | 0.000 |
| o-Xylene | 0.000 |
| n-Nonane | 0.000 |
| n-Decane | 0.000 |
| Undecane | 0.000 |
| Dodecane | 0.000 |
| Tridecane | 0.000 |
| Tetradecane | 0.000 |
| Pentadecane | 0.000 |
| Hexadecane | 0.000 |
| Heptadecane | 0.000 |
| Octadecane | 0.000 |
| Nonadecane | 0.000 |
| Eicosane | 0.000 |
| Heneicosane | 0.000 |
| Docosane | 0.000 |
| Tricosane | 0.000 |
| Tetracosane | 0.000 |
| Pentacosane | 0.000 |
| Hexacosane | 0.000 |
| Heptacosane | 0.000 |
| Octacosane | 0.000 |
| Nonacosane | 0.000 |
| C30 | 0.000 |
| Water | 99.996 |
| C10+ | 0.000 |




| Residual Liquid Data | |
|---|---|
| Flow (bbl/d) | 1798.136 |
| TVP [psia] | 12.644 |

# PROMAX REPORT - FLARE & PROCESS STREAMS - ANNUAL

| Project information | |
|---|---|
| File Name | 20210125_Broadside 1H_Promax |
| Company | Devon Energy |
| City, State | {"Roswell, NM","Roswell, NM","Roswell, NM"} |
| Equation of State | {"Peng-Robinson","Peng-Robinson","Peng-Robinson"} |
| Description | DEETMax Emissions Report |

| Stream Selection | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Inlet Gas | Inlet Gas | Inlet Oil | Inlet Oil | | | | | | |
| Name of Process Stream | | Gas | Gas | Oil | Oil | | | | | | |

| Emission Composition | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | Component | Inlet Gas [Mol%] | Inlet Gas [Mass%] | Inlet Oil [Mol%] | Inlet Oil [Mass%] | | | | | | |
| 1 | Hydrogen Sulfide | 0.001 | 0.002 | 0.001 | 0.000 | | | | | | |
| 2 | Nitrogen | 1.389 | 1.713 | 0.078 | 0.017 | | | | | | |
| 3 | Carbon Dioxide | 0.148 | 0.287 | 0.117 | 0.040 | | | | | | |
| 4 | Methane | 74.492 | 52.620 | 1.796 | 0.226 | | | | | | |
| 5 | Ethane | 11.996 | 15.883 | 2.193 | 0.518 | | | | | | |
| 6 | Propane | 6.431 | 12.486 | 4.399 | 1.522 | | | | | | |
| 7 | i-Butane | 1.026 | 2.626 | 1.283 | 0.585 | | | | | | |
| 8 | n-Butane | 2.279 | 5.832 | 4.500 | 2.053 | | | | | | |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 10 | i-Pentane | 0.549 | 1.744 | 2.240 | 1.268 | | | | | | |
| 11 | n-Pentane | 0.557 | 1.769 | 3.036 | 1.719 | | | | | | |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 13 | Cyclopentane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 15 | 2-Methylpentane | 0.000 | 0.000 | 1.929 | 1.304 | | | | | | |
| 16 | 3-Methylpentane | 0.000 | 0.000 | 0.986 | 0.667 | | | | | | |
| 17 | n-Hexane | 0.454 | 1.723 | 2.729 | 1.845 | | | | | | |
| 18 | Methylcyclopentane | 0.000 | 0.000 | 1.921 | 1.269 | | | | | | |
| 19 | Benzene | 0.045 | 0.155 | 1.461 | 0.896 | | | | | | |
| 20 | Cyclohexane | 0.000 | 0.000 | 5.474 | 3.615 | | | | | | |
| 21 | 2-Methylhexane | 0.000 | 0.000 | 0.348 | 0.274 | | | | | | |
| 22 | 3-Methylhexane | 0.000 | 0.000 | 1.348 | 1.060 | | | | | | |
| 23 | 2,2,4-Trimethylpentane | 0.000 | 0.000 | 0.189 | 0.169 | | | | | | |
| 24 | n-Heptane | 0.277 | 1.222 | 3.680 | 2.894 | | | | | | |
| 25 | Methylcyclohexane | 0.000 | 0.000 | 6.574 | 5.066 | | | | | | |
| 26 | Toluene | 0.036 | 0.146 | 4.051 | 2.929 | | | | | | |
| 27 | n-Octane | 0.121 | 0.609 | 6.634 | 5.947 | | | | | | |
| 28 | Ethylbenzene | 0.002 | 0.009 | 0.930 | 0.775 | | | | | | |
| 29 | m-Xylene | 0.011 | 0.051 | 2.873 | 2.393 | | | | | | |
| 30 | p-Xylene | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 31 | o-Xylene | 0.003 | 0.014 | 0.755 | 0.629 | | | | | | |
| 32 | n-Nonane | 0.113 | 0.638 | 5.739 | 5.777 | | | | | | |
| 33 | n-Decane | 0.023 | 0.144 | 6.185 | 6.907 | | | | | | |
| 34 | Undecane | 0.043 | 0.296 | 3.975 | 4.876 | | | | | | |
| 35 | Dodecane | 0.004 | 0.030 | 2.905 | 3.883 | | | | | | |
| 36 | Tridecane | 0.000 | 0.000 | 2.658 | 3.846 | | | | | | |
| 37 | Tetradecane | 0.000 | 0.000 | 2.269 | 3.533 | | | | | | |
| 38 | Pentadecane | 0.000 | 0.000 | 1.953 | 3.256 | | | | | | |
| 39 | Hexadecane | 0.000 | 0.000 | 1.413 | 2.511 | | | | | | |
| 40 | Heptadecane | 0.000 | 0.000 | 0.951 | 1.794 | | | | | | |
| 41 | Octadecane | 0.000 | 0.000 | 0.655 | 1.308 | | | | | | |
| 42 | Nonadecane | 0.000 | 0.000 | 0.372 | 0.783 | | | | | | |
| 43 | Eicosane | 0.000 | 0.000 | 0.338 | 0.749 | | | | | | |
| 44 | Heneicosane | 0.000 | 0.000 | 9.064 | 21.096 | | | | | | |
| 45 | Docosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 46 | Tricosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 47 | Tetracosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 48 | Pentacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 49 | Hexacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 50 | Heptacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 51 | Octacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 52 | Nonacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 53 | C30 | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 54 | Water | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 55 | C10+ | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |

# PROMAX REPORT - FLARE & PROCESS STREAMS - ANNUAL

| Stream Selection | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater Gas | Gunbarrel Gas | ULPS Gas | Oil Tanks | Water Tanks | |
| Name of Process Stream | | 1st Stage Gas | See Slop Tank Report | 1st Stage Gas | 2nd Stage Gas | HT Gas | 5 | ULPS Gas | See Oil Tank Report | SeeWater Tank Report | |

| Emission Summary | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater Gas | Gunbarrel Gas | ULPS Gas | Oil Tanks | Water Tanks | |
| | | [%] | | [%] | [%] | [%] | [%] | [%] | [%] | [%] | |
| Control Effenciency | | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 0 | |
| Percent to Flare | | 100.00 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 0 | |

| Emission Summary | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater Gas | Gunbarrel Gas | ULPS Gas | Oil Tanks | Water Tanks | Total |
| | | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] |
| VOCs [C3+] | | 0.176 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 17.145 | 0.000 | 17.321 |
| Benzene | | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.167 | 0.000 | 0.168 |
| H2S | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

| Emission Composition | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | Component | Pilot Gas [Mol%] | Slop Tank [Mol%] | 1st Stage Gas [Mol%] | 2nd Stage Gas [Mol%] | Heater Treater [Mol%] | Gunbarrel Gas [Mol%] | ULPS [Mol%] | Oil Tanks [Mol %] | Water Tanks [Mol %] | |
| 1 | Hydrogen Sulfide | 0.001 | See Slop Tank Report | 0.001 | -- | 0.002 | 0.008 | -- | See Oil Tank Report | See Water Tank Report | |
| 2 | Nitrogen | 1.427 | | 1.427 | -- | 0.391 | 0.712 | -- | | | |
| 3 | Carbon Dioxide | 0.175 | | 0.175 | -- | 0.221 | 1.009 | -- | | | |
| 4 | Methane | 74.993 | | 74.993 | -- | 52.847 | 70.297 | -- | | | |
| 5 | Ethane | 11.863 | | 11.863 | -- | 20.604 | 13.707 | -- | | | |
| 6 | Propane | 6.160 | | 6.160 | -- | 13.780 | 4.965 | -- | | | |
| 7 | i-Butane | 0.909 | | 0.909 | -- | 2.142 | 0.448 | -- | | | |
| 8 | n-Butane | 2.034 | | 2.034 | -- | 4.864 | 1.464 | -- | | | |
| 9 | 2,2-Dimethylpropane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 10 | i-Pentane | 0.428 | | 0.428 | -- | 1.026 | 0.196 | -- | | | |
| 11 | n-Pentane | 0.431 | | 0.431 | -- | 1.036 | 0.100 | -- | | | |
| 12 | 2,2-Dimethylbutane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 13 | Cyclopentane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 14 | 2,3-Dimethylbutane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 15 | 2-Methylpentane | 0.091 | | 0.091 | -- | 0.217 | 0.025 | -- | | | |
| 16 | 3-Methylpentane | 0.043 | | 0.043 | -- | 0.102 | 0.025 | -- | | | |
| 17 | n-Hexane | 0.153 | | 0.153 | -- | 0.363 | 0.022 | -- | | | |
| 18 | Methylcyclopentane | 0.072 | | 0.072 | -- | 0.172 | 0.068 | -- | | | |
| 19 | Benzene | 0.056 | | 0.056 | -- | 0.134 | 0.367 | -- | | | |
| 20 | Cyclohexane | 0.168 | | 0.168 | -- | 0.401 | 0.298 | -- | | | |
| 21 | 2-Methylhexane | 0.007 | | 0.007 | -- | 0.016 | 0.001 | -- | | | |
| 22 | 3-Methylhexane | 0.024 | | 0.024 | -- | 0.057 | 0.004 | -- | | | |
| 23 | 2,2,4-Trimethylpentane | 0.003 | | 0.003 | -- | 0.006 | 0.000 | -- | | | |
| 24 | n-Heptane | 0.066 | | 0.066 | -- | 0.153 | 0.006 | -- | | | |
| 25 | Methylcyclohexane | 0.095 | | 0.095 | -- | 0.222 | 0.081 | -- | | | |
| 26 | Toluene | 0.052 | | 0.052 | -- | 0.122 | 0.318 | -- | | | |
| 27 | n-Octane | 0.036 | | 0.036 | -- | 0.081 | 0.002 | -- | | | |
| 28 | Ethylbenzene | 0.004 | | 0.004 | -- | 0.010 | 0.024 | -- | | | |
| 29 | m-Xylene | 0.012 | | 0.012 | -- | 0.027 | 0.065 | -- | | | |
| 30 | p-Xylene | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 31 | o-Xylene | 0.003 | | 0.003 | -- | 0.006 | 0.016 | -- | | | |
| 32 | n-Nonane | 0.011 | | 0.011 | -- | 0.024 | 0.000 | -- | | | |
| 33 | n-Decane | 0.004 | | 0.004 | -- | 0.009 | 0.000 | -- | | | |
| 34 | Undecane | 0.001 | | 0.001 | -- | 0.002 | 0.000 | -- | | | |
| 35 | Dodecane | 0.000 | | 0.000 | -- | 0.001 | 0.000 | -- | | | |
| 36 | Tridecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 37 | Tetradecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 38 | Pentadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 39 | Hexadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 40 | Heptadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 41 | Octadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 42 | Nonadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 43 | Eicosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 44 | Heneicosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 45 | Docosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 46 | Tricosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 47 | Tetracosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 48 | Pentacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 49 | Hexacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 50 | Heptacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 51 | Octacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 52 | Nonacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 53 | C30 | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 54 | Water | 0.679 | | 0.679 | -- | 0.964 | 5.770 | -- | | | |
| 55 | C10+ | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |

# PROMAX REPORT - FLARE & PROCESS STREAMS - ANNUAL

**Stream Compositional Data**

| No. | Component | Pilot Gas [ton/yr] | Slop Tank [ton/yr] | 1st Stage Gas [ton/yr] | 2nd Stage Gas [ton/yr] | Heater Treater [ton/yr] | Gunbarrel Gas [ton/yr] | ULPS [ton/yr] | Oil Tanks [ton/yr] | Water Tanks [ton/yr] | Total [ton/yr] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Hydrogen Sulfide | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 2 | Nitrogen | 0.01 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.016 |
| 3 | Carbon Dioxide | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.030 |
| 4 | Methane | 0.36 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.98 | 0.00 | 1.340 |
| 5 | Ethane | 0.11 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.21 | 0.00 | 3.318 |
| 6 | Propane | 0.08 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.26 | 0.00 | 6.345 |
| 7 | i-Butane | 0.02 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.62 | 0.00 | 1.635 |
| 8 | n-Butane | 0.04 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.94 | 0.00 | 3.975 |
| 9 | 2,2-Dimethylpropane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 10 | i-Pentane | 0.01 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 0.00 | 1.141 |
| 11 | n-Pentane | 0.01 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.16 | 0.00 | 1.168 |
| 12 | 2,2-Dimethylbutane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 13 | Cyclopentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 14 | 2,3-Dimethylbutane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 15 | 2-Methylpentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.299 |
| 16 | 3-Methylpentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.140 |
| 17 | n-Hexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.500 |
| 18 | Methylcyclopentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.232 |
| 19 | Benzene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.168 |
| 20 | Cyclohexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.54 | 0.00 | 0.542 |
| 21 | 2-Methylhexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.025 |
| 22 | 3-Methylhexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.090 |
| 23 | 2,2,4-Trimethylpentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.012 |
| 24 | n-Heptane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 | 0.241 |
| 25 | Methylcyclohexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | 0.00 | 0.346 |
| 26 | Toluene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.178 |
| 27 | n-Octane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.142 |
| 28 | Ethylbenzene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.016 |
| 29 | m-Xylene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.045 |
| 30 | p-Xylene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 31 | o-Xylene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.010 |
| 32 | n-Nonane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.047 |
| 33 | n-Decane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.018 |
| 34 | Undecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.004 |
| 35 | Dodecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.001 |
| 36 | Tridecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 37 | Tetradecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 38 | Pentadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 39 | Hexadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 40 | Heptadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 41 | Octadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 42 | Nonadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 43 | Eicosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 44 | Heneicosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 45 | Docosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 46 | Tricosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 47 | Tetracosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 48 | Pentacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 49 | Hexacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 50 | Heptacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 51 | Octacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 52 | Nonacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 53 | C30 | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 54 | Water | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.063 |
| 55 | C10+ | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |

**Stream Properties**

| | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater | Gunbarrel | ULPS | Oil Tanks | Water Tanks | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating Value [BTU/scf] | | 1177.692 | See Slop Tank Report | 1177.692 | -- | 1516.059 | 1099.801 | -- | See Oil Tank Report | See Oil Tank Report | |
| Molecular Weight [lb/lbmol] | | 22.061 | | 22.061 | -- | 28.614 | 21.755 | -- | | | |
| Gas Volumetric Flow [mscf/day] | | 3.120 | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 49.372 | 0.000 | |

LABORATORY SERVICES
Natural Gas Analysis

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# SUMMARY OF CHROMATOGRAPHIC ANALYSIS

| | | | |
|---|---|---|---|
| **COMPANY:** | DEVON | **JOB #:** | 1911009 |
| **SAMPLE ID:** | PRESSURIZED SEPARATOR CRUDE OIL | **SAMPLE #:** | 1911009-08PC |
| **SAMPLE TYPE:** | SPOT | **DATE ON:** | 11/6/2019 |
| **STATION:** | THISTLE UNIT 153H | **DATE OFF:** | 11/6/2019 |
| **SAMPLE PRESS.,psig:** | 135 | **TIME ON:** | 14:26 |
| **SAMPLE TEMPERATURE, F** | 105 | **TIME OFF:** | 14:26 |
| **ANALYSIS DATE:** | 11/8/2019 | **SAMPLED BY:** | J. R. PRITCHARD |
| **ANALYSIS COMMENTS:** | | **ANALYST:** | J. R. PRITCHARD |

| COMPONENT | MOLE % | WEIGHT % | VOLUME % |
|---|---|---|---|
| HYDROGEN SULFIDE | 0.0000 | 0.0000 | 0.0000 |
| NITROGEN | 0.0778 | 0.0171 | 0.0157 |
| OXYGEN | 0.0000 | 0.0000 | 0.0000 |
| METHANE | 1.7965 | 0.2264 | 0.5596 |
| CARBON DIOXIDE | 0.1167 | 0.0403 | 0.0363 |
| ETHANE | 2.1931 | 0.5180 | 1.0771 |
| PROPANE | 4.3992 | 1.5239 | 2.2260 |
| ISO-BUTANE | 1.2832 | 0.5859 | 0.7714 |
| N-BUTANE | 4.5003 | 2.0547 | 2.6072 |
| ISO-PENTANE | 2.2398 | 1.2694 | 1.5063 |
| N-PENTANE (C-5) | 3.0356 | 1.7205 | 2.0204 |
| 2,2 DIMETHYL BUTANE | 0.0003 | 0.0002 | 0.0002 |
| CYCLOPENTANE | 0.0000 | 0.0000 | 0.0000 |
| 2-METHYLPENTANE | 1.9288 | 1.3058 | 1.4713 |
| 3-METHYLPENTANE | 0.9860 | 0.6675 | 0.7396 |
| N-HEXANE (C-6) | 2.7287 | 1.8473 | 2.0627 |
| METHYLCYCLOPENTANES | 1.5006 | 0.9921 | 0.9752 |
| BENZENE | 1.4611 | 0.8965 | 0.7526 |
| CYCLOHEXANE | 5.4736 | 3.6187 | 3.4232 |
| 2-METHYLHEXANE | 0.3479 | 0.2738 | 0.2974 |
| 3-METHYLHEXANE | 1.3477 | 1.0608 | 1.1348 |
| DIMETHYLCYCLOPENTANES | 0.4201 | 0.3240 | 0.3176 |
| HEPTANES | 0.8246 | 0.6491 | 0.6990 |
| N-HEPTANE (C-7) | 2.8552 | 2.2474 | 2.4202 |
| METHYLCYCLOHEXANE | 6.5745 | 4.9668 | 4.7516 |
| 2-2-4 TRIMETHYLPENTANE | 0.1886 | 0.1692 | 0.1619 |
| TOLUENE | 4.0507 | 2.9319 | 2.4855 |
| OCTANES | 4.3812 | 3.9314 | 4.1216 |
| N-OCTANE (C-8) | 2.2531 | 2.0218 | 2.1196 |
| ETHYL BENZENE | 0.9298 | 0.7755 | 0.6573 |
| P-M-XYLENE | 2.8726 | 2.3958 | 2.0456 |
| O-XYLENE | 0.7554 | 0.6300 | 0.5277 |
| NONANES | 3.6635 | 3.6912 | 3.7900 |
| N-NONANE (C-9) | 2.0756 | 2.0913 | 2.1473 |

## CALCULATED PARAMETERS

### TOTAL ANALYSIS SUMMARY

| | |
|---|---|
| AVE MOLE WT | 127.2988 |
| SP GRAV, 60F/60 | 0.7452 |
| API GRAVITY | 58.4 |
| REL DENS, AIR=1 | 4.3952 |
| VAPOR PRESS PSIA | 120.77 |

### HEXANES PLUS SUMMARY

| | |
|---|---|
| AVE MOLE WT | 145.8110 |
| SP GRAV, 60F/60 | 0.7983 |
| API GRAVITY | 45.7 |
| LBS/GAL | 6.387 |
| REL DENS, AIR=1 | 5.0343 |
| VAPOR PRESS PSIA | 1.17 |

### BTEX SUMMARY

| | |
|---|---|
| WT % BENZENE | 0.8965 |
| WT % TOLUENE | 2.9319 |
| WT % E BENZENE | 0.7755 |
| WT % XYLENES | 3.0258 |

### DECANES PLUS SUMMARY

| | |
|---|---|
| AVE MOLE WT | 212.1328 |
| SP GRAV, 60F/60 | 0.8502 |
| API GRAVITY | 34.9 |
| LBS/GAL | 6.802 |
| REL DENS, AIR=1 | 7.3242 |
| VAPOR PRESS PSIA | 0.01 |

**CONTINUED ON NEXT PAGE**

DEVON
THISTLE UNIT 153H
PRESSURIZED SEPARATOR CRUDE OIL

| COMPONENT | MOLE % | WEIGHT % | VOLUME % |
|---|---|---|---|
| DECANES | 4.0612 | 4.5391 | 4.5822 |
| N-DECANE (C-10) | 2.1242 | 2.3742 | 2.3967 |
| UNDECANES | 2.7736 | 3.4057 | 3.3904 |
| N-UNDECANE (C-11) | 1.2017 | 1.4756 | 1.4690 |
| DODECANES | 2.0622 | 2.7595 | 2.7169 |
| N-DODECANE (C-12) | 0.8426 | 1.1275 | 1.1101 |
| TRIDECANES | 1.9533 | 2.8289 | 2.7523 |
| N-TRIDECANE (C-13) | 0.7047 | 1.0206 | 0.9930 |
| TETRADECANES | 1.6130 | 2.5138 | 2.4408 |
| N-TETRADECANE (C-14) | 0.6561 | 1.0225 | 0.9928 |
| PENTADECANES | 1.4535 | 2.4254 | 2.3279 |
| N-PENTADECANE (C-15) | 0.4999 | 0.8342 | 0.8007 |
| HEXADECANES | 1.0544 | 1.8756 | 1.7885 |
| N-HEXADECANE (C-16) | 0.3586 | 0.6379 | 0.6083 |
| HEPTADECANES | 0.6791 | 1.2828 | 1.2195 |
| N-HEPTADECANE (C-17) | 0.2718 | 0.5134 | 0.4881 |
| OCTADECANES | 0.4586 | 0.9168 | 0.8690 |
| N-OCTADECANE (C-18) | 0.1963 | 0.3924 | 0.3719 |
| NONADECANES | 0.1933 | 0.4078 | 0.3841 |
| N-NONADECANE (C-19) | 0.1783 | 0.3761 | 0.3542 |
| EICOSANES | 0.1983 | 0.4401 | 0.4122 |
| N-EICOSANES (C-20) | 0.1396 | 0.3099 | 0.2903 |
| HENEICOSANE + (C-21+) | 9.0639 | 21.0759 | 19.3192 |
| TOTALS | 100.0000 | 100.0000 | 100.0000 |

**CRUDE OIL FINGERPRINT**
**C-n/C-13 RATIO SUMMARY**

| C-n | C-n/C-13 |
|---|---|
| 10.0 | 2.326 |
| 11.0 | 1.446 |
| 12.0 | 1.105 |
| 13.0 | 1.000 |
| 14.0 | 1.002 |
| 15.0 | 0.817 |
| 16.0 | 0.625 |
| 17.0 | 0.503 |
| 18.0 | 0.384 |
| 19.0 | 0.369 |
| 20.0 | 0.304 |

**BIO-MARKER SUMMARY**

| | |
|---|---|
| Farnesane/C-14 | 0.146 |
| Pristane/C-17 | 0.637 |
| Phytane/C-18 | 0.538 |
| Weight % Sulfur | 0.0287 |
| Gravity, API @ 60 F | 45.8 |

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# SUMMARY OF CHROMATOGRAPHIC ANALYSIS

| | | | |
|---|---|---|---|
| **COMPANY:** | DEVON | **JOB #:** | 1911009 |
| **SAMPLE ID:** | PRESSURIZED SEPARATOR CRUDE OIL | **SAMPLE #:** | 1911009-08PC |
| **SAMPLE TYPE:** | SPOT | **DATE ON:** | 11/6/2019 |
| **STATION:** | THISTLE UNIT 153H | **DATE OFF:** | 11/6/2019 |
| **SAMPLE PRESS.,psig:** | 135 | **TIME ON:** | 14:26 |
| **SAMPLE TEMPERATURE, F** | 105 | **TIME OFF:** | 14:26 |
| **ANALYSIS DATE:** | 11/8/2019 | **SAMPLED BY:** | J. R. PRITCHARD |
| **ANALYSIS COMMENTS:** | | **ANALYST:** | J. R. PRITCHARD |

**TANKS DATA INPUT REPORT**

| COMPONENT | MOLE % | WEIGHT % | VOLUME % |
|---|---|---|---|
| HYDROGEN SULFIDE | 0.0000 | 0.0000 | 0.0000 |
| CARBON DIOXIDE | 0.1167 | 0.0403 | 0.0363 |
| NITROGEN | 0.0778 | 0.0171 | 0.0157 |
| METHANE | 1.7965 | 0.2264 | 0.5596 |
| ETHANE | 2.1931 | 0.5180 | 1.0771 |
| PROPANE | 4.3992 | 1.5239 | 2.2260 |
| ISO-BUTANE | 1.2832 | 0.5859 | 0.7714 |
| N-BUTANE | 4.5003 | 2.0547 | 2.6072 |
| ISO-PENTANE | 2.2398 | 1.2694 | 1.5063 |
| N-PENTANE | 3.0356 | 1.7205 | 2.0204 |
| N-HEXANE | 2.7287 | 1.8473 | 2.0627 |
| OTHER HEXANES | 9.8893 | 6.5843 | 6.6095 |
| HEPTANES | 12.3700 | 9.5219 | 9.6206 |
| OCTANES | 6.6343 | 5.9532 | 6.2412 |
| NONANES | 5.7391 | 5.7825 | 5.9373 |
| BENZENE | 1.4611 | 0.8965 | 0.7526 |
| TOLUENE | 4.0507 | 2.9319 | 2.4855 |
| ETHYLBENZENE | 0.9298 | 0.7755 | 0.6573 |
| XYLENES | 3.6280 | 3.0258 | 2.5733 |
| 2,2,4 TRIMETHYLPENTANE | 0.1886 | 0.1692 | 0.1619 |
| DECANES PLUS | 32.7382 | 54.5557 | 52.0781 |
| TOTAL | 100.0000 | 100.0000 | 100.0000 |

**CALCULATED PARAMETERS**

**TOTAL ANALYSIS SUMMARY**

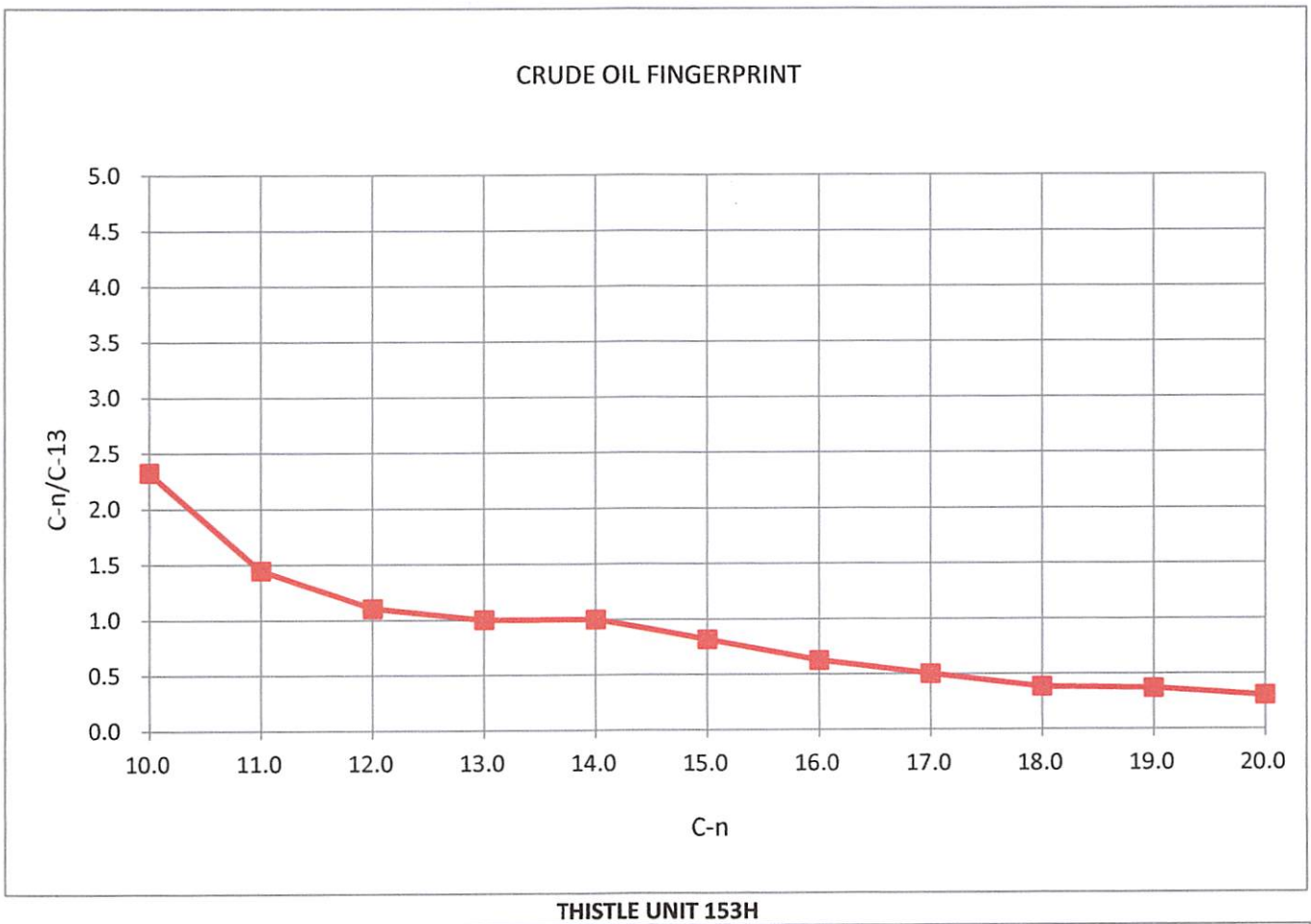
| | |
|---|---|
| **AVE MOLE WT** | 127.2988 |
| **SP GRAV, 60F/60** | 0.7452 |
| **API GRAVITY** | 58.4 |
| **REL DENS, AIR=1** | 4.3952 |
| **VAPOR PRESS PSIA** | 120.77 |
| **CU FT VAPOR/GAL** | 21.67 |

**DECANES PLUS SUMMARY**

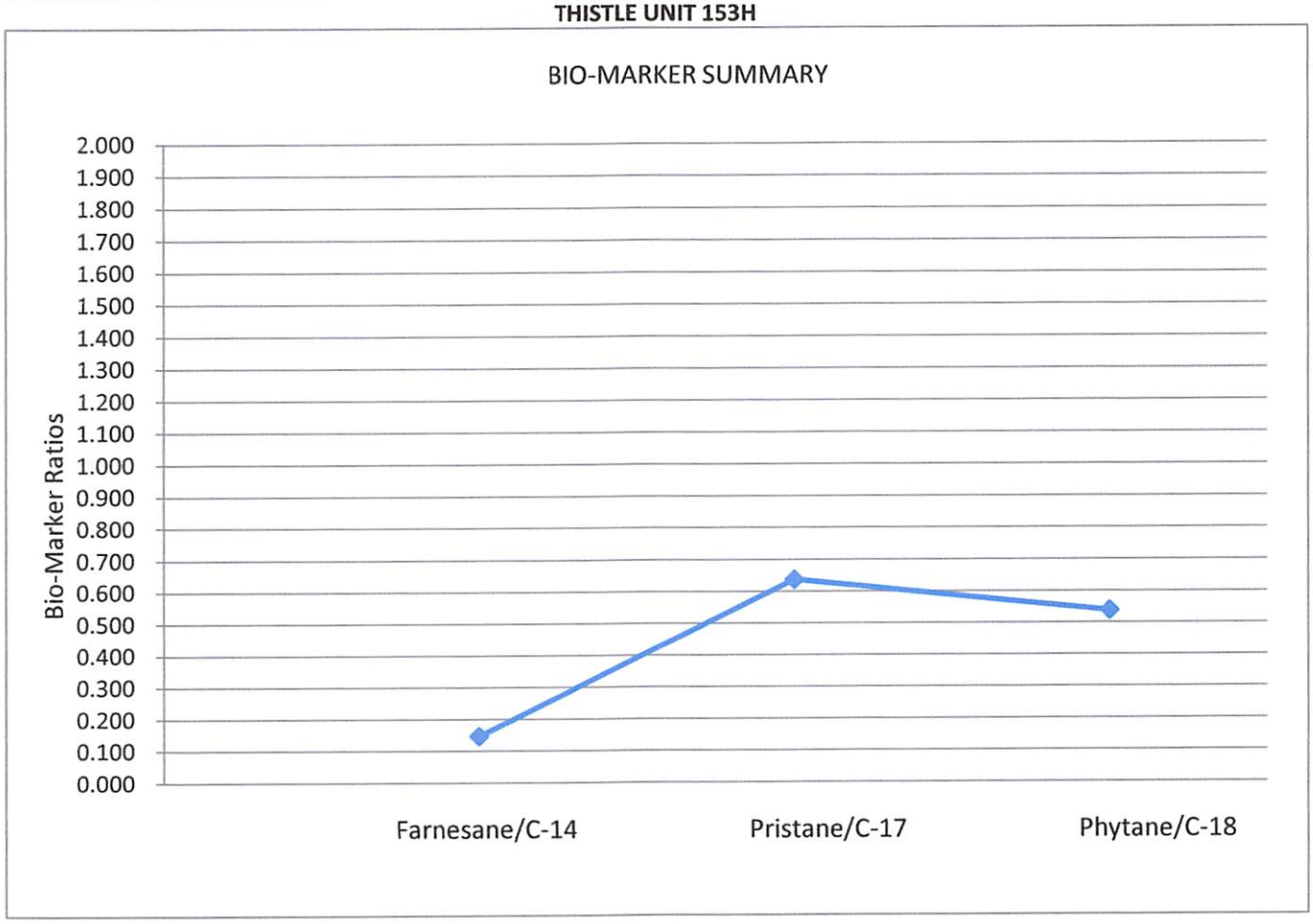
| | |
|---|---|
| **AVE MOLE WT** | 212.1328 |
| **SP GRAV, 60F/60** | 0.8502 |
| **API GRAVITY** | 34.9 |
| **LBS/GAL** | 6.8020 |
| **REL DENS, AIR=1** | 7.3242 |
| **VAPOR PRESS PSIA** | 0.01 |

**CHARACTERISTICS OF STOCK TANK OIL**

| | |
|---|---|
| **API GRAVITY @ 60 F (ASTM D287)** | 45.8 |
| **REID VAPOR PRESSURE, psia (ASTM D323)** | 6.51 |
| **WEIGHT % SULFUR (ASTM D4294)** | 0.0287 |




**THISTLE UNIT 153H**



LABORATORY SERVICES Natural Gas Analysis
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# Extended Gas Analysis Report

| Sample Point Code | Sample Point Name | Sample Point Location |
|---|---|---|
| 8527G | Thistle Unit 153H | Thistle Unit 153H |

| Source Laboratory | Lab File No | Container Identity | Sampler |
|---|---|---|---|
| Laboratory Services | 2019024493 | 0106 | SE - Spot |

| District | Area Name | Field Name | Facility Name |
|---|---|---|---|
| USA | USA | USA | New Mexico |

| Date Sampled | Date Effective | Date Received | Date Reported |
|---|---|---|---|
| Nov 6, 2019 14:26 | Nov 6, 2019 14:26 | Nov 7, 2019 10:00 | Nov 11, 2019 |

| Ambient Temp (°F) | Flow Rate (Mcf) | Analyst | Press PSI @ Temp °F Source Conditions |
|---|---|---|---|
| 74.00 | | BH | 135 @ 102 |

| Operator | Lab Source Description |
|---|---|
| AKM | Devon/Extended Gas |

| Component | Normalized Mol % | Un-Normalized Mol % | GPM |
|---|---|---|---|
| Nitrogen (N2) | 1.3890 | 1.358881 | |
| Carbon Dioxide (CO2) | 0.1480 | 0.144662 | |
| Hydrogen Sulfide (H2S) | 0.0000 | 0 | |
| Methane (C1) | 74.4930 | 72.886434 | |
| Ethane (C2) | 11.9960 | 11.73752 | 3.2070 |
| Propane (C3) | 6.4310 | 6.292293 | 1.7710 |
| IsoButane (IC4) | 1.0260 | 1.003708 | 0.3360 |
| n-Butane (NC4) | 2.2790 | 2.229496 | 0.7180 |
| IsoPentane (IC5) | 0.5490 | 0.537032 | 0.2010 |
| n-Pentane (NC5) | 0.5570 | 0.545025 | 0.2020 |
| Hexanes (C6's) | 1.1320 | 1.127 | 0.4820 |
| TOTAL | 100.0000 | 97.8621 | 6.9170 |

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

### Analyzer Information

| | | | |
|---|---|---|---|
| Device Type: | Gas Chromatograph | Device Make: | Agilent |
| Device Model: | 7890B | Last Cal Date: | Oct 22, 2019 |

### Gross Heating Values (Real, BTU/ft³)

| 14.696 PSI @ 60.00 °F | 14.73 PSI @ 60.00 °F | |
|---|---|---|
| Dry | Dry | Saturated |
| 1,337.5 | 1,346.2 | 1,323.3 |

### Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

| Relative Density Real | Relative Density Ideal |
|---|---|
| 0.7855 | 0.7826 |

Molecular Weight: 22.6670

### C6+ Group Properties

Assumed Composition

C6 - 39.655% C7 - 28.598% C8 - 31.747%

Field H2S: 0 PPM

**PROTREND STATUS:**
Passed By Validator on Nov 13, 2019

**DATA SOURCE:**
Imported

**PASSED BY VALIDATOR REASON:**
First sample taken @ this point, composition looks reasonable

**VALIDATOR:**
Dustin Armstrong

**VALIDATOR COMMENTS:**
OK

Sample Point Code - Name @ Location

8527G - Thistle Unit 153H - Thistle Unit 153H

Operator

AKM

| Component | Normalized Mol % | Un-Normalized Mol % | GPM |
|---|---|---|---|
| Nitrogen (N2) | 1.3890 | 1.35888 | |
| Carbon Dioxide (CO2) | 0.1480 | 0.144662 | |
| Hydrogen Sulfide (H2S) | 0.0000 | 0 | |
| Methane (C1) | 74.4930 | 72.8864 | |
| Ethane (C2) | 11.9960 | 11.7375 | 3.2070 |
| Propane (C3) | 6.4310 | 6.29229 | 1.7710 |
| IsoButane (IC4) | 1.0260 | 1.00371 | 0.3360 |
| n-Butane (NC4) | 2.2790 | 2.2295 | 0.7180 |
| IsoPentane (IC5) | 0.5490 | 0.537032 | 0.2010 |
| n-Pentane (NC5) | 0.5570 | 0.545025 | 0.2020 |
| Hexanes (C6's) | 0.4540 | 0.449 | 0.1850 |
| Heptanes (C7's) | 0.2770 | 0.277 | 0.1060 |
| Octanes (C8's) | 0.1210 | 0.121 | 0.0590 |
| Nonanes (C9's) | 0.1130 | 0.113 | 0.0630 |
| Decanes (C10's) | 0.0230 | 0.023 | 0.0140 |
| Undecanes (C11's) | 0.0430 | 0.043 | 0.0210 |
| Dodecanes (C12's) | 0.0040 | 0.004 | 0.0020 |

**BTEX**

| Component | Normalized Mol % | Un-Normalized Mol % | GPM |
|---|---|---|---|
| Benzene | 0.0450 | 0.045 | 0.0130 |
| Toluene | 0.0360 | 0.036 | 0.0120 |
| EthylBenzene | 0.0020 | 0.002 | 0.0010 |
| M+P Xylene | 0.0110 | 0.011 | 0.0050 |
| O Xylene | 0.0030 | 0.003 | 0.0010 |

# Section 5
## Map(s)

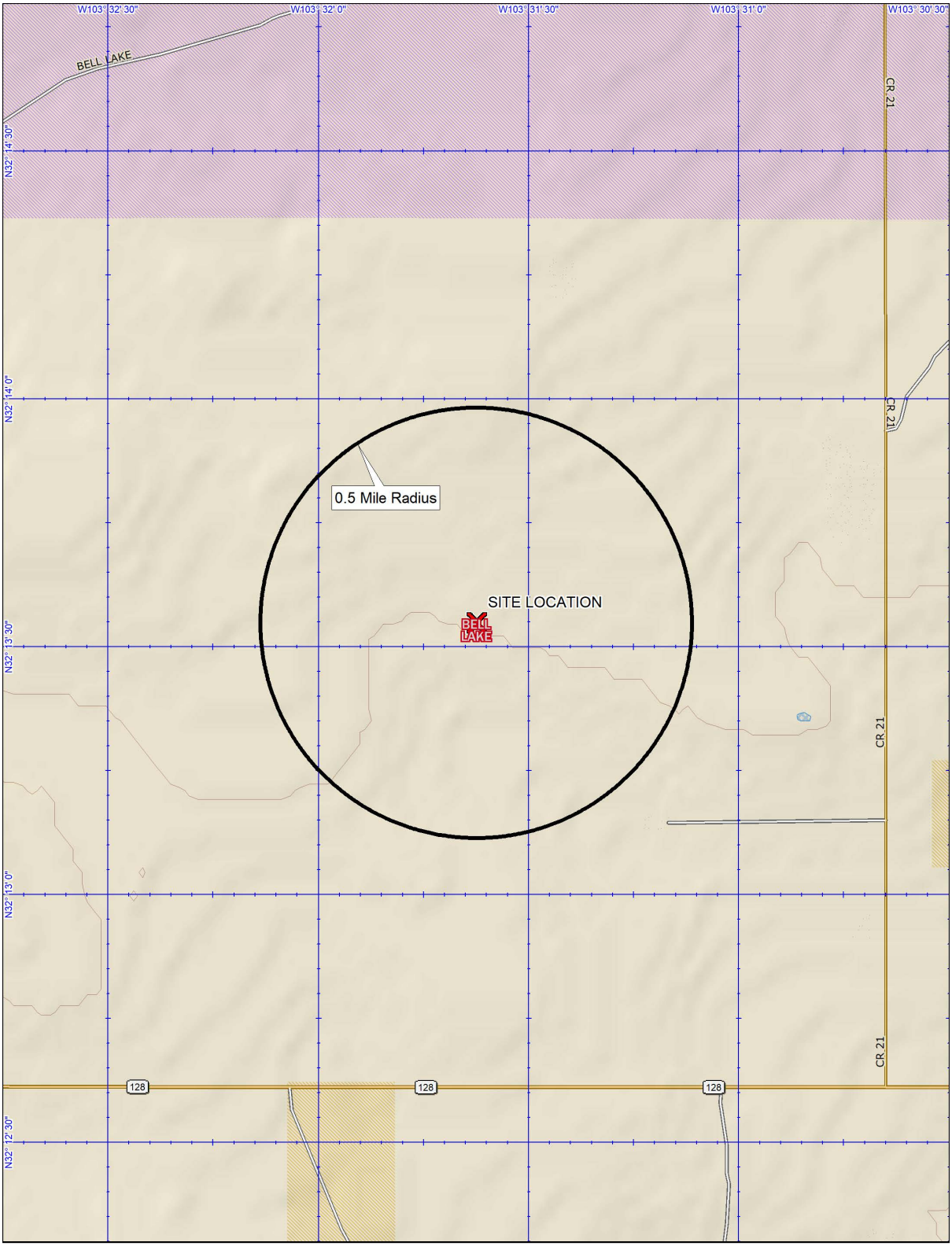
---

**A map** such as a 7.5 minute topographic quadrangle showing the exact location of the source. The map shall also include the following:

| | |
|---|---|
| The UTM or Longitudinal coordinate system on both axes | An indicator showing which direction is north |
| A minimum radius around the plant of 0.8km (0.5 miles) | Access and haul roads |
| Topographic features of the area | Facility property boundaries |
| The name of the map | The area which will be restricted to public access |
| A graphical scale | |

---

An area map is included in this section.




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TN
MN (6.4°E)

0 400 800 1200 1600 2000 ft
0 160 320 480 640 800 m

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SUITE 200
ARLINGTON, TX 76006

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FIGURE TITLE
***AREA MAP***

DOCUMENT TITLE
NOTICE OF INTENT TO CONTRUCT

CLIENT
DEVON ENERGY PRODUCTION COMPANY, L.P.

LOCATION
BROADSIDE 1H BATTERY
LEA COUNTY, NEW MEXICO

| | |
|---|---|
| DATE | 02/03/2021 |
| SCALE | AS SHOWN |
| DESIGNED BY | AB |
| APPROVED BY | RZ |
| DRAWN BY | AB |
| PROJECT NUMBER | DVNANM1901 |
| FIGURE NUMBER | SECTION 5 |

# Section 6

## Applicable State & Federal Regulations

---

**Provide a discussion demonstrating compliance with applicable state & federal regulation**. All input cells should be filled in, even if the response is 'No' or 'N/A'.

In the "Justification" column, identify the criteria that are critical to the applicability determination, numbering each. For each unit subject to a state or federal regulation, after each listed unit, include the lowest level citation of the applicable regulation. For each unit, list the information necessary to verify the applicability of the regulation, including date of manufacture, date of construction, size (hp), and combustion type. Doing so will provide the applicability criteria for each unit.

---

**Example of a Table for Applicable State Regulations:**

| STATE REGU-LATIONS CITATION | Title | Federally Enforce-able | Applicability Information: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) | Applicant's Justification of Applicability | Applicant Identifies if Applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|---|
| 20.2.38 NMAC | Hydrocarbon Storage Facility | No | **Use the regulation link (left) then cut & paste applicable sections.** Note: for 20.2.38.112 NMAC, 65,000 gallons is 1547.62 barrels. | The facility includes a "New Tank Battery" since the tanks were constructed after January 1, 1975. 20.2.38.112, New Tank Battery – More Than 65,000 Gallons Capacity is potentially applicable. Since the total capacity of the crude oil tanks (Unit ID TK-1 through TK-4) is greater than 65,000 gallons, the Facility is subject to 20NMAC2.38.112. The Facility is also subject to 20.2.38.109 due to the storage tank capacity and throughput. The Facility meets the requirements of 20.2.38.112.C. and 20.2.38.109.B by venting tank emissions to a combustor (Unit ID ECD-1) | TK-1 through TK-4 |
| 20.2.61.109 NMAC | Smoke & Visible Emissions | No | Engines and heaters are Stationary Combustion Equipment. Specify units subject to this regulation. | The combustor, combustion engine, and heater treater are Stationary Combustion Equipment. Devon will maintain compliance with the regulation by operating the combustion units according to manufacturer's recommendations to ensure complete combustion. | ECD-1, ENG 1, HT-1 |
| 20.2.73 NMAC | NOI & Emissions Inventory Requirements | No | **NOI:** 20.2.73.200 NMAC applies (requiring a NOI application) | This document serves as the Notice of Intent application requesting approval by the NM AQB to install the proposed equipment at this site. Therefore, Devon is in | FACILITY |

| | | | | | |
|---|---|---|---|---|---|
| | | | | compliance with NMAC 20.2.73.200.<br>Emissions Inventory Reporting: 20.2.73.300 NMAC applies. All Title V major sources meet the applicability requirements of 20.2.73.300 NMAC.<br>Site is not a Title V site. Devon will submit an Emissions Inventory Report if requested. | |
| 20.2.77 NMAC | New Source Performance | Yes | This is a stationary source which is subject to the requirements of 40 CFR Part 60, as amended through 2017.<br>Applies if any subpart applies. | The combustion engine (Unit ID ENG 1) is subject to NSPS JJJJ and is therefore subject to 20.2.77.9. The fugitives (Unit ID FUG-1), oil tanks (Unit ID TK-1 through TK-4), and combustor (ECD-1) are subject to NSPS OOOOa and are therefore subject to 20.2.77.9. | ENG 1, FUG-1, TK-1 through TK-4, ECD-1 |
| 20.2.78 NMAC | Emission Standards for HAPS | Yes | This facility emits hazardous air pollutants which are subject to the requirements of 40 CFR Part 61, as amended through 2017.<br>Applies in any subpart applies | | N/A |
| 20.2.82 NMAC | MACT Standards for source categories of HAPS | Yes | This regulation applies to all sources emitting hazardous air polluta4nts, which are subject to the requirements of 40 CFR Part 63, as amended through 2017.<br>Applies in any subpart applies | The combustion engine (Unit ID ENG 1) is subject to MACT ZZZZ and is therefore subject to 20.2.82.8. | ENG 1 |

**Example of a Table for Applicable Federal Regulations (This is not an exhaustive list):**

| **FEDERAL REGULATIONS CITATION** | **Title** | **JUSTIFICATION:** | **Applicant's Justification of Applicability** | **Identify if applies to Entire Facility or Unit No(s)** |
|---|---|---|---|---|
| 40 CFR 50 | NAAQS | Defined as applicable at 20.2.70.7.E.11, Any national ambient air quality standard | The combustion engine (Unit ID ENG 1), combustor (Unit ID ECD-1), and heater treater (Unit ID HT-1) are small combustion sources. The emission levels are such that no exceedances of the NAAQS are expected. | ENG 1, HT-1, ECD-1 |

| FEDERAL REGULATIONS CITATION | Title | JUSTIFICATION: | Applicant's Justification of Applicability | Identify if applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|
| NSPS 40 CFR 60, Subpart A | General Provisions | Applies if any other NSPS subpart applies. | The combustion engine (Unit ID ENG 1) is subject to NSPS JJJJ. The fugitives (Unit ID FUG-1), oil tanks (Unit ID TK-1 through TK-4), and combustor (Unit ID ECD-1) are subject to NSPS OOOOa. | ENG 1, FUG-1, TK-1 through TK-4, ECD-1 |
| NSPS 40 CFR Part 60 Subpart OOOO | Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375); centrifugal compressors (60.5380); reciprocating compressors (60.5385): controllers (60.5390); storage vessels (60.5395); equipment leaks (60.5400); sweetening units (60.5405).<br><br>**If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. Centrifugal Compressors 1a-3a are subject to the standards at 60.5380(a)(1) and (2) since we use a control device to reduce emissions)** | ☐ **Check this box if VRU is controlling Storage Vessel emissions and the facility is subject to the requirements under 60.5411(b) and (c)** | N/A |

| FEDERAL REGULATIONS CITATION | Title | JUSTIFICATION: | Applicant's Justification of Applicability | Identify if applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|
| NSPS<br>40 CFR Part<br>60 Subpart<br>OOOOa | Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375a); centrifugal compressors (60.5380a); reciprocating compressors (60.5385a): controllers (60.5390a); storage vessels (60.5395a); fugitive emissions at well sites and compressor stations (60.5397a); equipment leaks at gas plants (60.5400a); sweetening units (60.5405a).<br><br>**If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. Centrifugal Compressors 1a-3a are subject to the standards at 60.5380(a)(1) and (2) since we use a control device to reduce emissions)** | ☐ **Check this box if VRU is controlling Storage Vessel emissions and the facility is subject to the requirements under 60.5411a(b) and (c)**<br><br>The oil storage tanks at this location are subject to NSPS Subpart OOOOa because the oil tanks are affected facilities with VOC emissions greater than 6 tons per year per tank (60.5365a(e)). Devon will meet the 95% control requirement (60.5395a(a)(2)) by operating a combustor that meets the requirements of 60.5412a(d)(3). Devon will also comply with the applicable control requirements under 60.5395a(b).<br>Fugitive equipment components are subject to LDAR requirements. Devon will conduct routine fugitive leak monitoring using optical gas imaging (OGI) or EPA Method 21. | TK-1 through TK-4, ECD-1, FUG-1 |
| NSPS<br>40 CFR Part 60<br>Subpart IIII | | See 40 CFR 60.4200(a) 1 through 4 to determine applicable category and state engine size, fuel type, and date of manufacture. | ☐ **Table 1 or Table 2 to Subpart IIII attached with emission standards applicable to each engine highlighted.** | N/A |

| FEDERAL REGULATIONS CITATION | Title | JUSTIFICATION: | Applicant's Justification of Applicability | Identify if applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|
| NSPS<br>40 CFR Part 60 Subpart JJJJ | | See 40 CFR 60.4230(a), 1 through 5 to determine applicable category and state engine size, fuel type, and date of manufacture. | ☒ **Table 1 to Subpart JJJJ is attached with emission standards applicable to each engine highlighted.**<br>The combustion engine (Unit ID ENG 1) is subject to NSPS JJJJ per 60.4230(a)(4)(iii) and the standards in 60.4233(e) and Table 1.<br><br>ENG-1<br>• 203 hp<br>• Mfr date – Post 1/1/2011<br>• 4SRB | ENG 1 |
| MACT<br>40 CFR 63, Subpart A | General Provisions | Applies if any other subpart applies. | The combustion engine (Unit ID ENG 1) is subject to MACT ZZZZ. | ENG 1 |
| MACT<br>40 CFR 63 Subpart ZZZZ | National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (**RICE MACT**) | Facilities are subject to this subpart if they own or operate a stationary RICE, except if the stationary RICE is being tested at a stationary RICE test cell/stand. | ☐ **Table 1, 2, 3, 4, 5, 6, and/or 7 to Subpart ZZZZ is attached with emission standards/requirements applicable to each engine highlighted.**<br>The combustion engine (Unit ID ENG 1) is subject to MACT ZZZZ and meets the requirements by complying with NSPS JJJJ per 63.6590(c)(1). | ENG 1 |

Title 40: Protection of Environment
PART 60—STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES (CONTINUED)
Subpart JJJJ—Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

TABLE 1 TO SUBPART JJJJ OF PART 60—$NO_X$, CO, AND VOC EMISSION STANDARDS FOR STATIONARY NON-EMERGENCY SI ENGINES ≥100 HP (EXCEPT GASOLINE AND RICH BURN LPG), STATIONARY SI LANDFILL/DIGESTER GAS ENGINES, AND STATIONARY EMERGENCY ENGINES >25 HP

| Engine type and fuel | Maximum engine power | Manufacture date | Emission standards[a] | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | g/HP-hr | | | ppmvd at 15% $O_2$ | | |
| | | | $NO_X$ | CO | VOC[d] | $NO_X$ | CO | VOC[d] |
| Non-Emergency SI Natural Gas[b] and Non-Emergency SI Lean Burn LPG[b] | 100≤HP<500 | 7/1/2008 | 2.0 | 4.0 | 1.0 | 160 | 540 | 86 |
| | | 1/1/2011 | 1.0 | 2.0 | 0.7 | 82 | 270 | 60 |
| Non-Emergency SI Lean Burn Natural Gas and LPG | 500≤HP<1,350 | 1/1/2008 | 2.0 | 4.0 | 1.0 | 160 | 540 | 86 |
| | | 7/1/2010 | 1.0 | 2.0 | 0.7 | 82 | 270 | 60 |
| Non-Emergency SI Natural Gas and Non-Emergency SI Lean Burn LPG (except lean burn 500≤HP<1,350) | HP≥500 | 7/1/2007 | 2.0 | 4.0 | 1.0 | 160 | 540 | 86 |
| | HP≥500 | 7/1/2010 | 1.0 | 2.0 | 0.7 | 82 | 270 | 60 |
| Landfill/Digester Gas (except lean burn 500≤HP<1,350) | HP<500 | 7/1/2008 | 3.0 | 5.0 | 1.0 | 220 | 610 | 80 |
| | | 1/1/2011 | 2.0 | 5.0 | 1.0 | 150 | 610 | 80 |
| | HP≥500 | 7/1/2007 | 3.0 | 5.0 | 1.0 | 220 | 610 | 80 |
| | | 7/1/2010 | 2.0 | 5.0 | 1.0 | 150 | 610 | 80 |
| Landfill/Digester Gas Lean Burn | 500≤HP<1,350 | 1/1/2008 | 3.0 | 5.0 | 1.0 | 220 | 610 | 80 |
| | | 7/1/2010 | 2.0 | 5.0 | 1.0 | 150 | 610 | 80 |
| Emergency | 25<HP<130 | 1/1/2009 | [c]10 | 387 | N/A | N/A | N/A | N/A |
| | HP≥130 | | 2.0 | 4.0 | 1.0 | 160 | 540 | 86 |

[a]Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent $O_2$.

[b]Owners and operators of new or reconstructed non-emergency lean burn SI stationary engines with a site rating of greater than or equal to 250 brake HP located at a major source that are meeting the requirements of 40 CFR part 63, subpart ZZZZ, Table 2a do not have to comply with the CO emission standards of Table 1 of this subpart.

[c]The emission standards applicable to emergency engines between 25 HP and 130 HP are in terms of $NO_X$ + HC.

[d]For purposes of this subpart, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

[76 FR 37975, June 28, 2011]

Need assistance?

# Section 7: Certification

Company Name: Devon Energy Production Company, L.P.

I, Clarence McDonald, hereby certify that the information and data submitted in this application are true and as accurate as possible, to the best of my knowledge and professional expertise and experience.

Signed this 28th day of January, 2021, upon my oath or affirmation, before a notary of the State of Oklahoma.

*Signature

1/28/2021
Date

Clarence McDonald
Printed Name

Production Manager
Title

Scribed and sworn before me on this 28 day of January, 2021.

My authorization as a notary of the State of Oklahoma expires on the 30 day of April, 2023.

PAMELA G BEERS NOTARY # 19004406 EXP. 04/30/23 PUBLIC STATE OF OKLAHOMA

Pamela G Beers
Notary's Signature

1.28.2021
Date

Pamela G Beers
Notary's Printed Name

# APPENDIX L. GCP-O&G PERMIT

New Mexico
*ENVIRONMENT DEPARTMENT*

525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505
Phone (505) 476-4300
Fax (505) 476-4375
*www.env.nm.gov*

*SUSANA MARTINEZ*
*GOVERNOR*

*JOHN A. SANCHEZ*
*LIEUTENANT GOVERNOR*

*BUTCH TONGATE*
*CABINET SECRETARY*

*JC BORREGO*
*DEPUTY SECRETARY*

# AIR QUALITY BUREAU
# GENERAL CONSTRUCTION PERMIT
# for

# OIL AND GAS FACILITIES
# GCP-Oil & Gas

**Issued under 20.2.72 NMAC**

JCBg

**Acting Director**
**Juan Carlos (JC) Borrego**
**Environmental Protection Division**

4/27/18

**Date**

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# PART A FACILITY SPECIFIC REQUIREMENTS

## A100 Introduction and Applicability

A. Air Quality Permit GCP-Oil and Gas ("Permit") is issued by the Air Quality Bureau (AQB) of the New Mexico Environment Department (Department) under Title 20 Chapter 2 Part 72 of the New Mexico Administrative Code [20.2.72.220 NMAC]. The Department issues general permits in order to register groups of sources that have similar operations, processes, and emissions and that are subject to the same or substantially similar requirements [20.2.72.220.A(1) NMAC]. General permits provide an additional permitting option for specific types of sources that can meet the predetermined permit requirements [20.2.72.220.C(1) NMAC].

B. This Permit authorizes an owner or operator to construct, modify, and operate an oil and gas facility in New Mexico (excluding Bernalillo County, tribal lands, non-attainment areas, and City of Sunland Park) under the conditions set forth herein.

C. An owner or operator that registers for and receives approval to construct under this Permit will have satisfied the State of New Mexico's requirement for obtaining an air quality permit prior to constructing, modifying, or operating a source of air pollutants. However, other federal, state, or local agencies may have additional requirements such as zoning restrictions.

D. All sources for which the Department has approved a Registration Form under GCP-Oil and Gas are subject to GCP-Oil and Gas terms and conditions. No source may construct or operate under GCP-Oil and Gas unless the Department has approved its Registration Form in writing. No source may operate under GCP-Oil and Gas unless such operation meets all the requirements of GCP-Oil and Gas.

E. Construction or modification of a source shall not begin until the Department has approved the Registration Form and the owner or operator has been notified in writing. [20.2.72.200.E NMAC and 20.2.72.220.C(6)(a) NMAC]

F. The Facility shall operate as specified in the Registration Form. The emission limits and equipment specified in the Registration Form are federally enforceable, and shall become the terms and conditions of this Permit.

G. The owner or operator may apply for registration of a Facility under this Permit if:

(1) The Facility can comply with all of the requirements of this Permit; and

(2) The Facility includes any combination of the emissions units listed in Table 104.

H. The Department shall deny a Registration Form if:

(1) The Registration Form is not complete;

(2) The source, as proposed, is not qualified to register for GCP-Oil and Gas;

(3) The source, as proposed, includes emission units not allowed under GCP-Oil and Gas;

(4) The source is, or contains, a petroleum refinery, chemical manufacturing plant, flare pits, or bulk gasoline terminal, or is a listed source in Table 1 of 20.2.74.501 NMAC;

(5) The source, as proposed, cannot meet the terms and conditions of GCP-Oil and Gas as determined by the review of the Registration Form(s);

(6) The Facility is located in a nonattainment area [defined by 20.2.72.216 and 20.2.79 NMAC], Bernalillo County, or tribal lands;

(7) The public notice performed for the Facility is inadequate to meet the requirements in Condition C100.B – *Public Notification*; or

(8) Any criteria listed in 20.2.72.208 NMAC is applicable.

## A101 Permit Duration (expiration)

A. The term of this permit is permanent unless withdrawn or cancelled by the Department.

## A102 Facility: Description

A. The function of the Facility is to treat, process, store and/or transport gases and liquids associated with the production of oil and gas, and/or inject those substances or their byproducts into the earth. [SIC 1311, 1321, 4619, and 4922]

## A103 Facility: Applicable Regulations

A. The permittee shall comply with all applicable sections of the requirements listed in Table 103.

**Table 103.: Applicable Requirements**

| Applicable Requirements | Federally Enforceable |
|---|---|
| 20.2.1 NMAC General Provisions | X |
| 20.2.3 NMAC Ambient Air Quality Standards | X |
| 20.2.7 NMAC Excess Emissions | X |
| 20.2.38 NMAC Hydrocarbon Storage Facilities | |
| 20.2.61 NMAC Smoke and Visible Emissions | X |
| 20.2.72 NMAC Construction Permit | X |

| Applicable Requirements | Federally Enforceable |
|---|---|
| 20.2.73 NMAC Notice of Intent and Emissions Inventory Requirements | X |
| 20.2.75 NMAC Construction Permit Fees | X |
| 20.2.77 NMAC New Source Performance | X |
| 20.2.82 NMAC MACT Standards for Source Categories of HAPS | X |
| 40 CFR 50 National Ambient Air Quality Standards | X |
| 40 CFR 60, Subpart A, General Provisions | X |
| 40 CFR 60, Subpart D, Da, Db, Dc | X |
| 40 CFR 60, Subpart K, Ka, or Kb | X |
| 40 CFR 60, Subpart GG | X |
| 40 CFR 60, Subpart KKK | X |
| 40 CFR 60, Subpart LLL | X |
| 40 CFR 60, Subpart IIII | X |
| 40 CFR 60, Subpart JJJJ | X |
| 40 CFR 60, Subpart KKKK | X |
| 40 CFR 60, Subpart OOOO | X |
| 40 CFR 60, Subpart OOOOa | X |
| 40 CFR 63, Subpart A, General Provisions | X |
| 40 CFR 63, Subpart HH | X |
| 40 CFR 63, Subpart ZZZZ | X |
| Additional CAA Regulations Adopted by EIB | X |

## A104 Facility: Regulated Sources

A. Table 104 lists the emission units authorized for this facility. Emission units identified as exempt activities (as defined in 20.2.72.202 NMAC) and/or equipment not regulated pursuant to the Act are authorized, but not included in Table 104.

**Table 104: Allowable Equipment**

| Equipment List |
|---|
| Storage Tanks |
| Flares, Enclosed Combustion Devices, Thermal Oxidizers |
| Engines, Turbines, and Generators |
| Dehydrators, Cryogenic Units, Acid Gas Removal, Amine (Sweetening) Units, other Natural Gas Processing Equipment |
| Auxiliary Equipment and Activities (includes heaters, separators, loading, Vapor Recover Unit (VRU), Vapor Recovery Tower (VRT), Ultra Low Pressure Separator (ULPS), Flash Tower, blowcase vessels, condensers, associated piping and connectors, pneumatics, pumps, compressors and other equipment as approved by the Department). |

All units must be evaluated for applicability to NSPS and NESHAP requirements.

## A105 Facility: Control Equipment

A. The authorized control equipment is established in the Registration Form. The permittee shall comply with all applicable requirements in this Permit for any control device selected in the Registration Form.

## A106 Facility: Allowable Emissions

A. The allowable hourly and annual emission limits are established in the Registration Form. In order to qualify for this permit, the Facility's annual emissions may not exceed those amounts in Table 106. These limits ensure the facility will not be a major Title V or PSD source under 20.2.70 or 20.2.74 NMAC.

B. Table 106 does not establish facility emission limits, but establishes the eligibility criteria to register under this permit. If, at any time, these emission rates are exceeded, the applicant shall re-evaluate permit applicability.

**Table 106: Maximum Eligible Emission Rates to Register Under this Permit**

| Pollutant | Tons per Year (tpy) |
|---|---|
| Nitrogen Oxides ($NO_x$) | 95 tpy |
| Carbon Monoxide (CO) | 95 tpy |
| Volatile Organic Compounds (VOC)* (non-fugitive) | 95 tpy |
| Sulfur Dioxide | 95 tpy |
| Hydrogen Sulfide | 25 tpy |
| Total Suspended Particulates (TSP) | 25 tpy |
| Particulate Matter less than 10 Microns ($PM_{10}$) | 25 tpy |
| Particulate Matter less than 2.5 Microns ($PM_{2.5}$) | 25 tpy |
| Any Individual Hazardous Air Pollutant (HAP) | < 10 tpy |
| Total HAP | < 25 tpy |

* Fugitive emissions of VOC do not typically count toward Title V or PSD applicability. Thus, the total VOC emissions, including fugitive sources, may exceed 100 tpy without triggering additional permitting requirements.

C. Allowable Hourly and Annual Emission Limits

**Requirement:** For each regulated emission unit in the Registration Form, the emissions specified in the Registration Form shall be the allowable emission limits in this Permit. For each piece of equipment with an hourly emission limit established in the Registration Form, compliance shall be demonstrated by complying with the specific conditions for the emission unit in this Permit.

Compliance with the allowable annual emission limits shall be demonstrated by complying with the process parameters required for each piece of authorized equipment (e.g. tank throughput, engine test and/or run time, glycol circulation rates, control device inspection, etc.) as represented in the Registration Form.

If one of the process parameters required to be monitored has been exceeded, the permittee shall prepare calculations to determine compliance with each applicable emission limit for that piece of equipment. If the permittee determines its emission limit has been exceeded, the permittee shall also determine if that exceedance caused an exceedance of the facility's annual emission limit.

**Monitoring:** The permittee shall comply with the monitoring requirements as stated in the specific conditions of the permit.

**Recordkeeping:** Compliance with each annual emission limit shall be demonstrated by complying with the process parameters required for each piece of authorized equipment, except flares. For flares, the permittee shall comply with the requirements in Condition A207.

Compliance with the allowable emission limits for SSM and Malfunction events (non-flaring) shall be demonstrated by complying with Condition A107.

Upon request by the Department, the permittee shall provide calculations of the facility's monthly cumulative total emissions, or the monthly rolling 12-month total emissions in tons per year. Compliance with the annual emission limits in the Registration Form shall be demonstrated during the first twelve months of operation on a cumulative monthly basis, and after the first twelve months, on a monthly rolling 12-month total basis.

The permittee shall record in accordance with Section B109.

**Reporting:** The permittee shall report in accordance with Section B110.

## A107 Facility: Allowable Startup, Shutdown, & Maintenance (SSM) and Malfunction Emissions

A. The allowable SSM and Malfunction emission limits for this facility are established in the Registration Form and were relied upon by the Department to determine compliance with applicable regulations.

B. Conditions for SSM flaring events are established in Condition A207.

C. If selected by the permittee in the Registration Form, the permittee may select to authorize up to 10 tons per year of VOC from malfunction events. If this option is not selected, Condition A107.D does not apply. The Permit does not authorize combustion emissions due to malfunction events.

D. Malfunction Emissions of VOC (Non-combustion Malfunction Emissions)

**Requirement:** The permittee shall complete the following recordkeeping to demonstrate compliance with malfunction (M) emission limits in the Registration Form.

For emissions due to malfunctions, the permittee has the option to report these as excess emissions of the ton per year limit specified in the Registration Form, in accordance with 20.2.7 NMAC, or include the emissions under the malfunction limit, unless the requested malfunction

limit has been exceeded.

Excess emissions of the malfunction limits shall be reported in accordance with the requirements at 20.2.7 NMAC as follows:

(1) During the first 12 months of monitoring, if the cumulative monthly total of emissions exceeds the specified allowable annual emission limit.
(2) After the first 12 months of monitoring, if the monthly rolling 12-month total exceeds the specified allowable annual emission limit.

Once emissions from a malfunction event are submitted in the final report per 20.2.7.110.A(2) NMAC, the event is considered an excess emission and cannot be applied toward the malfunction limit in this permit.

**Monitoring:** The permittee shall monitor all malfunction events that result in VOC emissions including identification of the equipment or activity that is the source of emissions.

**Recordkeeping:**

(1) To demonstrate compliance, each month records shall be kept of the cumulative total of malfunction VOC emissions during the first 12 months and, thereafter of the monthly rolling 12-month total VOC emissions.

(2) Records shall also be kept of the percent VOC of the gas based on the most recent gas analysis, of the volume of total gas vented in MMscf used to calculate the VOC emissions, and whether the emissions resulting from the event will be used toward the permitted malfunction emission limit or whether the event is reported as excess emissions of the ton per year limit in the Registration Form under 20.2.7 NMAC.

(3) The permittee shall record the demonstrated compliance in accordance with Condition B109, except the requirement in B109.C to record the start and end times of malfunction events shall not apply to the venting of known quantities of VOC.

**Reporting:** The permittee shall report in accordance with Section B110.

E. SSM Emissions of VOC (Non-combustion SSM)

**Requirement:** The permittee shall complete the following recordkeeping to demonstrate compliance with routine and predictable startup, shutdown, and maintenance (SSM) emission limits specified in the Registration Form.

**Monitoring:** The permittee shall monitor the permitted routine and predictable startups, shutdowns, and scheduled maintenance events.

**Recordkeeping:**

(1) To demonstrate compliance, each month records shall be kept of the cumulative total of SSM VOC emissions during the first 12 months and, thereafter of the monthly rolling 12-month total SSM VOC emissions.

(2) Records shall also be kept of the percent VOC and $H_2S$ of the gas based on the most recent

gas analysis, and of the volume of total gas vented in MMscf used to calculate the SSM VOC emissions.

(3) The permittee shall maintain records in accordance with Condition B109, except the requirement in B109.C to record the start and end times of SSM events shall not apply to the venting of known quantities of VOC.

**Reporting:** The permittee shall report in accordance with Section B110.

**A108 Facility: Allowable Operations**

A. This facility is authorized for continuous operation if continuous operation is specified in the Registration Form. Monitoring, recordkeeping, and reporting are not required to demonstrate compliance with continuous hours of operation.

B. If the facility or any emission unit is operated less than 8760 hours per year, the applicant may request a reduced number of hours of operation for the facility or emission unit in the Registration Form. The permittee shall demonstrate compliance with the allowable hours of operation for the facility or emission unit by complying with Condition A108.C.

C. Hours of Operation (For Facility or Emission Units requested in Registration Form to operate less than 8760 hours per year)

**Requirement:** To ensure compliance with allowable emission limits in the Registration Form, the permittee shall comply with the following requirements.

**Monitoring:** The permittee shall monitor the hours of operation of each emission unit authorized to operate less than 8760 hours of operation on a monthly rolling 12-month period.

**Recordkeeping:** The permittee shall record the hours of operation of each such emission unit monthly, shall calculate and record the monthly rolling 12-month total hours of operation, and shall meet the recordkeeping requirements in Section B109.

**Reporting:** The permittee shall report in accordance with Section B110.

**A109 Facility: Reporting Schedules**

A. The permittee shall report according to the Specific Conditions and General Conditions of this permit.

**A110 Facility: Fuel and Fuel Sulfur Requirements**

A. Fuel and Fuel Sulfur Requirements for Equipment other than Flares

**Requirement:** Combustion emission units (except flares) may combust only field gas, natural gas, diesel fuel, propane, or other Department-approved fuel. The $SO_2$ limit for each engine and

turbine is limited by the NOx emission rate of the unit. The allowable $SO_2$ emission limit for engines and turbines is 20% of the NOx emission rate of the unit. Diesel fuel must meet ULSD specifications (15 ppm).

**Monitoring:** None

**Recordkeeping:** The permittee shall demonstrate compliance with the fuel or fuel oil limit on $H_2S$ content by maintaining records of a current purchase contract, tariff sheet, or transportation contract for the gaseous or liquid fuel, or fuel gas analysis, specifying the allowable limit or less. If a fuel gas analysis is used, the analysis shall not be older than one year.

**Reporting:** The permittee shall report in accordance with Section B110.

## A111 Facility: 20.2.61 NMAC Opacity

A. 20.2.61 NMAC Opacity Limit (All Combustion Units)

**Requirement:** Visible emissions shall meet the requirements of 20.2.61.109 NMAC.

**Monitoring:**

(1) Use of natural gas constitutes compliance with 20.2.61 NMAC unless visible emissions are observed. When any visible emissions are observed during operation other than during startup mode, opacity shall be measured over a 10-minute period, in accordance with the procedures at 40 CFR 60, Appendix A, Reference Method 9 (EPA Method 9) as required by 20.2.61.114 NMAC, or the operator will be allowed to shut down the equipment to perform maintenance/repair to eliminate the visible emissions. Following completion of equipment maintenance/repair, the operator shall conduct visible emission observations following startup in accordance with the following procedures:

(a) Visible emissions observations shall be conducted over a 10-minute period during operation after completion of startup mode in accordance with the procedures at 40 CFR 60, Appendix A, Reference Method 22 (EPA Method 22). If no visible emissions are observed, no further action is required.

(b) If any visible emissions are observed during completion of the EPA Method 22 observation, subsequent opacity observations shall be conducted over a 10-minute period, in accordance with the procedures at EPA Method 9 as required by 20.2.61.114 NMAC.

For the purposes of this condition, *Startup mode* is defined as the startup period that is described in the facility's SSM plan.

**Recordkeeping:**

(1) If any visible emissions observations were conducted, the permittee shall keep records in accordance with the requirements of Section B109 and as follows:

(a) For any visible emissions observations conducted in accordance with EPA Method 22, record the information on the form referenced in EPA Method 22, Section 11.2.

(b) For any opacity observations conducted in accordance with the requirements of EPA Method 9, record the information on the form referenced in EPA Method 9, Sections 2.2 and 2.4.

**Reporting:** The permittee shall report in accordance with Section B110.

## EQUIPMENT SPECIFIC REQUIREMENTS

### OIL AND GAS INDUSTRY

### A200 Oil and Gas Industry

A. This section has common equipment related to most oil and gas operations. Only sections specific to operational and control equipment established on the Registration Form apply.

### A201 Gas Analysis Requirements

A. Sites with the following equipment shall perform an annual gas analysis to include $H_2S$ concentration: Flares, Vents, Enclosed Combustion Devices, Thermal Oxidizers;

B. Sites with the following equipment shall perform an annual extended gas analysis to include $H_2S$: Glycol Dehydrators that vent to the atmosphere, Amine units that vent to the atmosphere;

C. For equipment that uses fuel gas other than natural gas, measure and record the $H_2S$ concentration annually; and

D. For all other sites, perform a gas analysis to include $H_2S$ concentration at least once every 24-month period.

### A202 Engines and Turbines (including generators)

A. The permittee shall comply with the minimum engine and turbine stack parameter requirements of this permit.

B. Maintenance and Repair Monitoring for Engines and Turbines under 180 hp and Located at Facilities with a PER Greater than 80 tpy of NOx and CO

**Requirement:** Compliance with the allowable emission limits in the Registration Form shall be demonstrated by properly maintaining and repairing the units. Maintenance and repair shall meet the minimum manufacturer's or permittee's recommended maintenance schedule.

**Monitoring:** Activities that involve maintenance, adjustment, replacement, or repair of

| |
|---|
| functional components with the potential to affect the operation of an emission unit shall be documented as they occur for any maintenance that takes a unit out of service for more than two hours during any twenty-four hour period. |
| **Recordkeeping:** The permittee shall maintain records in accordance with Section B109, including records of maintenance and repair activities and a copy of the manufacturer's or permittee's recommended maintenance schedule. |
| **Reporting:** The permittee shall report in accordance with Section B110. |

C. Initial Compliance Test (Engines and Turbines > 180 hp)

| |
|---|
| **Requirement:** Compliance with the allowable emission limits in the Registration Form shall be demonstrated by performing an initial compliance test. Existing units tested within the last five years shall not be required to perform an initial compliance test. |
| **Monitoring:** The permittee shall perform an initial compliance test in accordance with the General Testing Requirements of Section B111. Emission testing is required for NOx and CO.<br><br>Test results that demonstrate compliance with the CO emission limits shall also be considered to demonstrate compliance with the VOC emission limits. Test results that show an exceedance of a CO emission limit are not considered to show an exceedance of a VOC emission limit. The Department may require an initial compliance test to demonstrate compliance with the VOC emission limit.<br><br>The monitoring exemptions of Section B108 do not apply to this requirement. |
| **Recordkeeping:** The permittee shall maintain records in accordance with the applicable Sections in B109, B110, and B111. |
| **Reporting:** The permittee shall report in accordance with the applicable Sections in B109, B110, and B111. |

D. Periodic Emissions Testing (Engines and Turbines > 180 hp)

| |
|---|
| **Requirement:** Compliance with the allowable emission limits in the Registration Form shall be demonstrated by completing periodic emission tests during the monitoring period. |
| **Monitoring:** The permittee shall test using a portable analyzer or EPA Reference Methods subject to the requirements and limitations of Section B108, General Monitoring Requirements. Emission testing is required for NOx and CO and shall be carried out as described below.<br><br>Test results that demonstrate compliance with the CO emission limits shall also be considered to demonstrate compliance with the VOC emission limits. Test results that show an exceedance of a CO emission limit are not considered to show an exceedance of a VOC emission limit. The Department may require a compliance test to demonstrate compliance with the VOC emission limit.<br><br>Facilities with a PER less than 80 tpy of each regulated air pollutant shall perform periodic testing every three years for each engine and turbine > 180 hp. |

| |
|---|
| Facilities with a PER greater than 80 tpy of any regulated air pollutant shall perform periodic testing once per calendar year for each engine and turbine > 180 hp.<br><br>For annual testing, the first test shall occur within the twelve months after permit issuance. All subsequent monitoring events for engines and turbines shall occur no later than one year from the previous event.<br><br>For 3-year testing, the first test shall occur within 36 months after permit issuance, and at least once per 36-month period thereafter.<br><br>The permittee shall follow the General Testing Procedures of Section B111. |
| **Recordkeeping:** The permittee shall maintain records in accordance with Section B109, B110, and B111. |
| **Reporting:** The permittee shall report in accordance with Section B109, B110, and B111. |

E. 40 CFR 63, Subpart ZZZZ (Engines subject to NESHAP ZZZZ)

| |
|---|
| **Requirement:** For units subject to 40 CFR 63, Subpart A and ZZZZ, the permittee shall comply with all applicable requirements of Subpart A and Subpart ZZZZ. |
| **Monitoring:** The permittee shall comply with all applicable monitoring requirements of 40 CFR 63, Subpart A and Subpart ZZZZ. |
| **Recordkeeping:** The permittee shall comply with all applicable recordkeeping requirements of 40 CFR 63, Subpart A and Subpart ZZZZ. |
| **Reporting:** The permittee shall comply with all applicable reporting requirements of 40 CFR 63, Subpart A and ZZZZ. |

F. 40 CFR 60, Subpart IIII and JJJJ (Engines subject to NSPS IIII and/or JJJJ)

| |
|---|
| **Requirement:** For units subject to 40 CFR 60, Subparts A and IIII and/or JJJJ, the permittee shall comply with the notification requirements in Subpart A and the specific requirements of Subpart IIII and/or JJJJ. |
| **Monitoring:** The permittee shall comply with all applicable monitoring requirements in 40 CFR 60, Subpart A and IIII and/or JJJJ. |
| **Recordkeeping:** The permittee shall comply with all applicable recordkeeping requirements in 40 CFR 60, Subpart A and IIII and/or JJJJ. |
| **Reporting:** The permittee shall comply with all applicable reporting requirements in 40 CFR 60, Subpart A and IIII and/or JJJJ. |

G. 40 CFR 60, Subpart GG or KKKK (Turbines subject to NSPS GG and/or KKKK)

| |
|---|
| **Requirement:** For units subject to 40 CFR 60, Subparts A and GG and/or KKKK, the permittee shall comply with the applicable requirements of 40 CFR 60, Subpart A and GG and/or KKKK. |

| |
|---|
| **Monitoring:** The permittee shall comply with all applicable monitoring requirements in 40 CFR 60, Subpart A and GG and/or KKKK. |
| **Recordkeeping:** The permittee shall comply with all applicable recordkeeping requirements in 40 CFR 60, Subpart A and GG and/or KKKK. |
| **Reporting:** The permittee shall comply with all applicable reporting requirements in 40 CFR 60, Subpart A and GG and/or KKKK. |

H. Engine and Turbine Control Device Operation

| |
|---|
| **Requirement:** Each unit equipped and operated with an oxidation catalytic converter, non-selective catalytic converter, or other control device specified in the Registration Form, shall comply with the requirements of this condition. Except for recommended burn-in period for catalysts, the units may not be operated in normal service without the control device. Units with a non-selective catalytic (NSCR) converter shall also be equipped with an AFR controlling device, or similar device that performs the same function of maintaining an appropriate air-fuel ratio.<br><br>During periods of catalyst maintenance, the permittee shall either (1) shut down the engine or turbine; or (2) replace the catalyst with a functionally equivalent spare to allow the engine or turbine to remain in operation.<br><br>The permittee shall maintain the units per the manufacturers supplier's or permittee's recommended maintenance. |
| **Monitoring:** Units equipped with a catalyst shall be operated with a catalyst except during unit burn in periods. |
| **Recordkeeping:** The permittee shall maintain records in accordance with Section B109. |
| **Reporting:** The permittee shall report in accordance with Section B110. |

I. Engine and Turbine Stack Parameter Requirements

**Engine Stack Parameter Requirements**
There is no limit on the number of engines that can operate under the GCP-Oil and Gas, provided that each engine has at least the minimum stack parameters determined by the facility total emission rate, and the facility total emission rate remains below the permit limit.

The minimum stack heights for engines are determined by performing the following calculation, and comparing the calculated emission rate with the stack parameters in Table 1:

Step 1) Add up the maximum pound per hour $NO_X$ emission rate of all NOx emission sources (except flares and thermal oxidizers). The NOx emission rate from any enclosed combustion device (ECD) must be multiplied by two before adding to the total, as the dispersion from ECD causes twice the impact of other sources.

Step 2) Use the calculated facility total NOx emission rate in Table 1 to determine the minimum stack parameters for engines.

Step 3) An engine with a temperature or velocity that is less than the minimum that would apply to that unit may choose to add 3.3 feet to the unit's required minimum stack height to be considered to be in compliance with these stack parameter requirements. If both temperature and velocity are low, then 6.6 feet may be added. The minimum temperature and velocity for this exception to apply are 206°F and 26.2 feet per second.

Engines are limited to fuels that produce $SO_2$ emission rates of equal to or less than 20% of the $NO_X$ emission rate of that engine.

**Engines (and Heaters) that do not Meet the Minimum Stack Parameters**

Engines (and heaters) that do not meet the minimum stack parameters in Table 1 are authorized if:

1. The minimum height of engine stacks determined in Step 2 above is raised by 3.3 feet, and
2. The applicant adds the pound per hour NOx emission rates from the remaining engines, turbines, and heaters that do not meet the minimum stack parameters after Step 3 above, and those units are able to meet the new minimum stack parameters from Table 1 based on the total emission rate of the remaining engines, turbines, and heaters.

Any number of these engines and heaters are authorized, so long as all of the requirements and facility total emission limits in this condition are met.

**Table 1: Engines**

| Facility total NOx emission rate (lb/hr) | Height (ft) | Temperature (°F) | Velocity (ft/s) | Diameter (ft) |
|---|---|---|---|---|
| 21.7 | 23 | 854 | 91.9 | 1.0 |
| 21 | 19.7 | 854 | 91.9 | 1.0 |
| 20 | 18 | 854 | 91.9 | 1.0 |
| 19 | 14.8 | 854 | 91.9 | 1.0 |
| 17 – 18 | 14.8 | 854 | 88.6 | 1.0 |
| 15 – 16 | 14.8 | 854 | 88.6 | 0.8 |
| 13 – 14 | 14.8 | 782 | 72.2 | 0.8 |
| 10 - 12 | 14.8 | 782 | 72.2 | 0.7 |
| 9 | 14.8 | 782 | 65.6 | 0.7 |
| 8 | 14.8 | 782 | 59.1 | 0.7 |
| 7 | 14.8 | 782 | 49.2 | 0.7 |
| 6 | 14.8 | 710 | 49.2 | 0.7 |
| 5 | 11.5 | 571 | 49.2 | 0.7 |
| 4 | 11.5 | 571 | 49.2 | 0.5 |
| 3 | 9.8 | 571 | 49.2 | 0.3 |
| 2 | 8.2 | 571 | 49.2 | 0.3 |
| 1 | 5.9 | 571 | 49.2 | 0.3 |

**Turbine Stack Parameter Requirements**

There is no limit on the number of turbines that can operate under the GCP-Oil and Gas, provided that each turbine has at least the minimum stack parameters determined by the facility total emission rate, and the facility total emission rate remains below the permit limit.

The minimum stack heights for turbines are determined by performing the following calculation, and comparing the calculated emission rate with the stack parameters in Table 2:

Step 1) Add up the maximum pound per hour $NO_X$ emission rate of all NOx emission sources (except flares and thermal oxidizers). The NOx emission rate from any enclosed combustion device (ECD) must be multiplied by two before adding to the total, as the dispersion from ECD causes twice the impact of other sources.

Step 2) Use this facility total NOx emission rate in Table 2 to determine the minimum stack parameters for turbines.

Step 3) A turbine with a temperature or velocity that is less than the minimum that would apply to that unit may choose to add 3.3 feet to the unit's required minimum stack height to be considered to be in compliance with these stack parameter requirements. If both temperature and velocity are low, then 6.6 feet may be added. The minimum temperature and velocity for this exception to apply are 206°F and 26.2 feet per second.

**Turbines (and Heaters) that do not Meet the Minimum Stack Parameters**

Turbines (and heaters) that do not meet the minimum stack parameters in Table 2 are authorized if:

1. The minimum height of turbine stacks determined in Step 2 above is raised by 3.3 feet, and
2. The applicant adds the pound per hour NOx emission rates from the remaining turbines, engines, and heaters that do not meet the minimum stack parameters after Step 3 above, and those units are able to meet the new minimum stack parameters from Table 2 based on the total emission rate of the remaining turbines, engines, and heaters.

Any number of these turbines and heaters are authorized, so long as all of the requirements and facility total emission limits in this condition are met.

**Table 2: Turbines**

| Facility total NOx emission rate (lb/hr) | Height (ft) | Temperature (°F) | Velocity (ft/s) | Diameter (ft) |
|---|---|---|---|---|
| 21.7 | 23 | 598.7 | 32.8 | 2.3 |
| 21 | 19.7 | 598.7 | 32.8 | 2.3 |
| 20 | 16.4 | 598.7 | 32.8 | 2.3 |
| 19 | 16.4 | 598.7 | 32.8 | 2.0 |
| 17 – 18 | 14.8 | 598.7 | 32.8 | 2.0 |
| 14 – 16 | 14.8 | 598.7 | 32.8 | 1.6 |
| 12 – 13 | 13.1 | 598.7 | 32.8 | 1.6 |
| 9 – 11 | 11.5 | 598.7 | 32.8 | 1.6 |
| 8 | 11.5 | 598.7 | 32.8 | 1.3 |
| 6 – 7 | 9.8 | 598.7 | 32.8 | 1.3 |
| 4 – 5 | 8.2 | 598.7 | 32.8 | 1.3 |
| 3 | 6.6 | 598.7 | 32.8 | 1.1 |
| 2 | 5.9 | 598.7 | 32.8 | 0.8 |
| 1 | 5.9 | 598.7 | 32.8 | 0.8 |

## A203 Heaters and Reboilers

A. Any number of heaters and reboilers are authorized if the units are able to meet the minimum stack parameter requirements in either Table 1 or Table 2 of Condition A202.I.

A heater or reboiler with a temperature or velocity less than the minimum that would apply to that unit in Table 1 or 2 of Condition A202.I may choose to add 3.3 feet to the unit's required minimum stack height to be considered to be in compliance with

these stack parameter requirements. If both temperature and velocity are low, then 6.6 feet may be added. The minimum temperature and velocity for this exception to apply are 206°F and 26.2 feet per second.

B. If any units do not meet the minimum stack parameters in Table 1 or Table 2 of Condition A202.I, an adjustment may be made using the conditions for **Engines or Turbines (and Heaters) that do not Meet the Minimum Stack Parameters** requirement in Condition A202.I of this permit.

C. If, after the above adjustments, any heater or reboiler is unable to meet the minimum stack parameter requirements in Table 1 or 2 of Condition A202.I, the maximum total emission rate allowed for those heaters and reboilers is 1.23 lb/hr of $NO_X$. This limit is based upon the air dispersion modeling used in the development of this permit.

## A204 Glycol Dehydrators

A. Glycol Pump Circulation Rate

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| **Requirement:** Compliance with the allowable emission limits in the Registration Form shall be demonstrated by monitoring the glycol pump circulation rate for each unit. The permittee shall not exceed the throughput in gallons per minute as requested in the Registration Form. |
| **Monitoring:** The permittee shall monitor the circulation rate quarterly unless specified as using the maximum design pump rate in the Registration Form. Monitoring shall include a visual inspection of pump rate setting or other method previously approved by the Department. |
| **Recordkeeping:** The permittee shall maintain records that include a description of the monitoring and are in accordance with Section B109. |
| **Reporting:** The permittee shall report in accordance with Section B110. |

B. Extended Gas Analysis and GRI-GLYCalc Calculation

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| **Requirement:** Compliance with the allowable emission limits in the Registration Form shall be demonstrated by conducting an annual extended gas analysis on the dehydrator inlet gas and by calculating emissions using GRI-GLYCalc or Department-approved equivalent. |
| **Monitoring:** The permittee shall conduct an annual GRI-GlyCalc analysis using the most recent extended gas analysis, and verify the input data. The permittee may use a method of calculating dehydrator emissions other than the most current version of GRI-GlyCalc if approved by the Department. Changes in the calculated emissions due solely to a change in the calculation methodology shall not be deemed an exceedance of an emission limit. |
| **Recordkeeping:** The permittee shall identify in a summary table all parameters that were used as inputs in the GRI-GLYCalc or equivalent software model. A printout of calculation inputs will suffice as the summary table. The permittee shall keep a record of the results, noting the VOC and HAP emission rates for the dehydrator obtained from estimates using GRI-GLYCalc or equivalent. |

**Reporting:** The permittee shall report in accordance with Section B110.

C. Control Device Inspection

**Requirement:** To demonstrate compliance with the allowable emission limits in the Registration Form, the permittee shall control the still vent and/or flash tank emissions as indicated in the Registration Form. If no control device is selected, the permit shall demonstrate compliance with Conditions A204.A and B.

The permittee shall comply with Requirement 1 below, and the control device requirement in Requirement 2 below, for control devices selected in the Registration Form:

1) At no time during normal operations shall any emissions from the still vent, condenser, or flash tank be vented to the atmosphere, if controlled.

**Control Options (selected in Registration Form):**

2) Still vent, condenser, and/or flash tank emissions shall be captured and routed at all times to the selected control or recovery device.
   a) If sending still vent, BTEX condenser, or flash tank emissions to a combustion device, the control device must be in operation at all times the dehydrator is in operation.
   b) If still vent, BTEX condenser, or flash tank emissions are being recovered, those emissions shall at all times be routed to a process point that allows the off-gas to be recycled and recompressed, and not vented to the atmosphere.
   c) Any closed loop system shall be designed and operated so that there are no detectable emissions.
   d) If using a vapor recovery unit (VRU), the still vent and/or flash tank emissions shall be routed to the VRU and re-injected into the process stream. The VRU shall consist of a closed loop system of seals, ducts, and compressor. The VRU shall be operational at all times the glycol dehydrator is in operation.
   e) All control devices and VRU shall be installed, operated, and maintained according to manufacturer's or supplier's or permittee's specifications. The permittee shall develop and implement an annual maintenance program or maintenance checklist for each control device and VRU.
   f) Or other written Department approved method.

**Monitoring:** The permittee shall inspect the glycol dehydrator, the piping to any capture or control equipment, and any capture and control equipment semi-annually to ensure it is operating as designed.

**Recordkeeping:** The permittee shall record the inspection, the name of the inspector, and the results of all equipment and control device inspections chronologically, noting any maintenance or repairs needed to bring the dehydrator into compliance. The permittee shall maintain a copy of the control device and VRU maintenance recommendations, and the annual maintenance program or checklist.

**Reporting:** The permittee shall report in accordance with Section B110.

D. 40 CFR 63, Subpart HH

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| **Requirement:** For units subject to 40 CFR 63, Subpart HH, the permittee shall comply with all applicable requirements. |
| **Monitoring:** The permittee shall comply with the monitoring requirements of 40 CFR 63.773. |
| **Recordkeeping:** The permittee shall comply with the recordkeeping requirements of 40 CFR 63.774 and in Section B109. |
| **Reporting:** The permittee shall comply with the applicable reporting requirements of 40 CFR 63.775 and in Section B110. |

## A205 Tanks

A. Tank Throughput and Separator Pressure

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| **Requirement:** Compliance with the allowable emission limits in the Registration Form shall be demonstrated by limiting the hydrocarbon liquid throughput and average separator pressure to the amount and pressure (psia or psig) as listed in the Registration Form.<br>If tank emissions are controlled by a closed vent system and routed back to facility inlet, then the separator pressure limit shall not apply. |
| **Monitoring:** The permittee shall monitor the monthly total throughput of any hydrocarbon liquid, and the upstream separator pressure once per month. The upstream separator pressure shall be measured at the separator or flashing vessel directly prior to the crude oil or condensate entering the tanks. |
| **Recordkeeping:** The permittee shall record the monthly total throughput of hydrocarbon liquids and the monthly separator pressure.<br>Each month the permittee shall use these values to calculate and record:<br>1) during the first 12 months of monitoring, the cumulative total hydrocarbon liquid throughput and after the first 12 months of monitoring, the monthly rolling 12-month total hydrocarbon liquid throughput, and<br>2) during the first 12 months of monitoring, the average separator pressure, and after the first 12 months of monitoring, the monthly rolling 12-month average separator pressure.<br>Emission rates computed using the same parameters, but with a different Department-approved calculation methodology that exceed these values will not be deemed non-compliance with this permit.<br>Records shall specify the unit of pressure (psia or psig) and shall be consistent with the representation in the Registration Form. Records shall be maintained in accordance with Section B109. |
| **Reporting:** The permittee shall report in accordance with Section B110. |

B. Control Device Options, Requirements, and Inspections for Tanks

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| **Requirement:** The permittee shall demonstrate compliance with the allowable emission limits in the Registration Form by: |

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| 1) limiting the throughput and average separator pressure to the amount listed in the Registration Form; and/or,<br>2) operating a Department approved control device; and/or,<br>3) routing emissions to process.<br>In the case of #2 and #3 above, compliance with the allowable emission limits in the Registration Form shall be demonstrated by operating the control device and/or vapor recovery units as a closed vent system that captures and routes all emissions from tanks back to the process stream or to the control device, and does not vent to the atmosphere. The requested control device is selected in the Registration Form. The permittee may elect to control emissions from any storage vessel in the Registration Form. |
| **Monitoring:** At least once per month, the permittee shall inspect the piping from the tanks to vapor recovery unit or control device for defects that could result in air emissions. Defects include, but are not limited to, visible cracks, holes, or gaps; broken, cracked, or otherwise damaged seals or gaskets on closure devices; and broken or missing hatches, access covers, caps, or other closure devices. In the event that a leak or defect is detected, the permittee shall repair the leak or defect within 30 calendar days and in a manner that minimizes VOC and HAP emissions to the atmosphere.<br>Alternatively to the above, and if selected in the Registration Form, the Permittee may implement a program that meets the requirements of NSPS OOOOa (40 CFR 60.5416a). |
| **Recordkeeping:** The permittee shall record the results of the control device and/or vapor recovery unit inspections chronologically, the name of the inspector, noting any maintenance or repairs that are required. |
| **Reporting:** The permittee shall report in accordance with Section B110. |

## A206 Truck Loading

A. Truck Loading

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| **Requirement:** Compliance with the allowable emission limits in the Registration Form shall be demonstrated by limiting the total annual loadout volume to the monthly rolling 12-month total volume as requested in the Registration Form. |
| **Monitoring:** The permittee shall monitor the truck loadout volume on a monthly basis. |
| **Recordkeeping:** The permittee shall record the monthly truck loadout volume. Each month, during the first 12 months of monitoring, the permittee shall record the cumulative condensate or crude oil loadout volume, and after the first 12 months of monitoring, the permittee shall calculate and record a monthly rolling 12-month total loadout volume.<br>Records shall also be maintained in accordance with Section B109. |
| **Reporting:** The permittee shall report in accordance with Section B110. |

B. Truck Loading Control Device Inspection

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| **Requirement:** If selected in the Registration Form, all emissions from truck loading shall be captured and routed to the selected control device and shall not vent to atmosphere. Compliance |

with the allowable emission limits in the Registration Form shall be demonstrated by operating the control device as a closed vent system that captures and routes all emissions from loading to the control device, and by complying with the specific conditions in this permit for that control device.

**Monitoring:** At least once per month, the permittee shall inspect the piping from the loading rack to the control device for defects that could result in air emissions. Defects include, but are not limited to, visible cracks, holes, or gaps; broken, cracked, or otherwise damaged seals or gaskets on closure devices; and broken or missing hatches, access covers, caps, or other closure devices. In the event that a leak or defect is detected, the permittee shall repair the leak or defect within 30 calendar days and in a manner that minimizes emissions to the atmosphere.

Alternatively to the above monitoring requirement, and if selected in the Registration Form, the Permittee may implement a program that meets the requirements of NSPS OOOOa (40 CFR 60.5416a).

**Recordkeeping:** The permittee shall record the results of the control device inspections chronologically, noting any maintenance or repairs that are required.

**Reporting:** The permittee shall report in accordance with Section B110.

C. Vapor Balancing During Truck Loading

**Requirement:** If selected in the Registration Form, the permittee shall comply with the following requirements. Compliance with the allowable emission limits in the Registration Form shall be demonstrated by operating a vapor balancing system in accordance with the following:

1) install and operate the vapor collection and return equipment to collect vapors during loading of tank compartments of outbound transport trucks, and return these vapors to the stationary storage vessels,
2) implement signage and written operating procedures requiring vapor collection equipment,
3) operate all recovery equipment at a back pressure less than the pressure relief valve setting of transport vehicles, and
4) inspect thief hatch seals semi-annually for proper operation and integrity and replace as necessary.

**Monitoring:** Semi-annually, inspect the vapor balance system, hoses, thief hatch seals, and PRD, and include an indication of condition, description of any maintenance, and repairs required.

Alternatively to the above, and if selected in the Registration Form, the Permittee may implement a program that meets the requirements of NSPS OOOOa (40 CFR 60.5416a).

**Recordkeeping:** The permittee shall record the date of the inspection, the results of the above inspections chronologically, and note any maintenance or repairs that are required.

**Reporting:** The permittee shall report in accordance with Section B110.

**A207 Flares**

A. This permit does not authorize flaring of gas with a $H_2S$ content greater than 6 mole percent by volume (pre-combustion). This condition is based upon the air dispersion modeling analysis for this permit.

B. Pilot Flame, Visible Emissions, and Operational Requirements

**Requirement:** Compliance with the allowable emission limits for flare(s) in the Registration Form shall be demonstrated by the following:

1) The flare is limited to the daily and annual throughput, $H_2S$ concentration, and hours of operation, as specified in the Registration Form.
2) The flare shall combust only gas streams represented in the Registration Form.
3) The flare shall be equipped with a continuous pilot flame or an auto-igniter, or require manual ignition.
4) For flares with a continuous pilot flame or an auto-igniter, the flare shall be equipped with a system to ensure that the flare is operated with a flame present at all times that gas is sent the flare.
5) For flares with manual ignition, the permittee shall inspect and ensure that a flame is present upon initiating each flaring event.
6) The flare shall combust gas at all times gas is sent to the flare.
7) The flare shall be installed, operated, and maintained according to manufacturer's or equivalent specifications.
8) The flare shall be operated with no visible emissions except for periods not to exceed a total of sixty (60) seconds during any fifteen (15) consecutive minutes.
9) Compliance with the allowable hourly and annual emission limits in the Registration Form shall be demonstrated by complying with the requirements of this condition.

Malfunction flaring is not authorized under this permit, but is required to be reported under 20.2.7 NMAC. For each malfunction flaring event, the permittee is required to comply with the flow meter requirements in this condition. This information will be used to calculate emissions reported under 20.2.7 NMAC.

**Monitoring:**

1) For flares with a continuous pilot or an auto igniter, the permittee shall continuously monitor the presence of a flare pilot flame using a thermocouple equipped with a continuous recorder and alarm, to detect the presence of a flame, or any other equivalent device approved by the Department.
2) For manually ignited flares, the permittee shall monitor the presence of a flame using visual observation during each flaring event.

3) When any visible emissions are observed, the permittee shall perform a Method 22 observation while the flare pilot flame is present to certify compliance with the visible emission requirements. The observation shall be a minimum of fifteen minutes.

4) For flaring of the following event types, the permittee shall monitor in accordance with the following:

   For startup, shutdown, maintenance, and emergency flaring at high pressure, a gas flow meter and flow totalizer, equipped with a chart recorder or data logger (electronic storage), shall be installed in the flare line to measure and record the total standard cubic feet (scf) of gas sent to the flare during any flaring event.

   Monitoring for low pressure flaring is satisfied by the parametric monitoring of the equipment controlled by the flare.

5) The permittee shall measure the $H_2S$ content, VOC content, and the heating value (Btu/scf) of the gas sent to the flare for combustion with a gas analysis in accordance with Condition A201.

6) For all high pressure flares, the flow meter, totalizer, and if used, the inline monitor shall be operated, calibrated, and maintained as specified by the manufacturer, permittee, or equivalent and as necessary to ensure correct and accurate readings.

**Recordkeeping:** The permittee shall record:

1) Chronologically, all instances of alarm activation, including the date and cause of alarm activation, actions taken to bring the flare into normal operating conditions, the name of the personnel conducting the inspection, and maintenance activities.
2) The results of the Method 22 observations and flame inspection for manual flares.
3) The results of the gas analysis including $H_2S$, VOC content, and heating value.
4) Both the hourly and monthly flow meter and flow totalizer measurements of gas sent to the flare during each flaring event.
5) Monthly, based on the data monitored and recorded in this condition and the throughput of the gas streams sent to any high pressure flare, the calculations and the basis of the calculations of the maximum hourly emission rate and the monthly total emissions in tons per month.
6) If the maximum hourly emission rate calculated in requirement 5 above, exceeds the allowable hourly emission limit, calculate and record the hourly emission rate for each hour of each flaring event of that month.
7) If one of the process parameters for a controlled unit has been exceeded, calculate and record the hourly and annual emission calculations for low and high pressure flares, to determine compliance with each applicable emission limit for that piece of equipment.

**Reporting:** The permittee shall report in accordance with Section B110 and in accordance with 20.2.7 NMAC.

C. Flare Stack Parameter Requirements

The facility can have any number of flares, provided that each flare has at least the minimum stack parameters determined by the $SO_2$ emission rate, and so long as the facility total emission rate remains below the permit limit. Flares that burn pipeline quality natural gas need to be designed for at least the flow rate they are burning, but have no specified height in this permit. Flares that are not limited to pipeline quality natural gas have height restrictions listed in the following table.

**Table 3: Flare Minimum Stack Height Requirements**

| **$SO_2$ Emission Rate** | **Height** |
|---|---|
| **(lb/hr)** | **(ft)** |
| 4501 – 5000 | 59.1 |
| 4001 – 4500 | 52.5 |
| 3501 – 4000 | 45.9 |
| 3001 – 3500 | 39.4 |
| 2501 – 3000 | 29.5 |
| 20 – 2500 | 19.7 |
| 10 – 19 | 13.1 |
| 5 – 9 | 11.5 |
| 3 – 4 | 9.8 |
| 2 | 8.2 |
| 0 – 1 | 6.6 |

Flare gas shall contain no higher than 6% $H_2S$ by volume (pre-combustion). If flare gas contains more than 6% $H_2S$ by volume, then assist gas may be added to reduce the gas composition to 6% $H_2S$ or less by volume.

## A208 Enclosed Combustion Device (ECD) or Thermal Oxidizer (TO)

A. ECD are not permitted to burn gas with high sulfur content. The $SO_2$ emission limit for ECD is 0.9 lb/hr if all ECD operate with a velocity of at least two (2) feet per second. The $SO_2$ limit for ECD is 0.7 lb/hr if all ECD operate with a velocity of at least one (1) foot per second. This limit is based upon the air dispersion modeling used in the development of this permit.

B. Pilot Flame, Visible Emissions, and Operational Requirements

**Requirement:** Compliance with the allowable emission limits for each ECD(s) and TO(s) in the Registration Form shall be demonstrated by the following:

1) The permittee shall at all times operate the ECD or TO as a closed vent system that captures and routes all VOC and HAP emissions from the units listed in the Registration Form to the control device.
2) The permittee shall ensure that the controlled units do not vent uncombusted gas to the atmosphere.
3) Each ECD and TO is limited to the daily and annual throughput, $H_2S$ concentration, and hours of operation as requested in the Registration Form.
4) The units shall be equipped with a continuous pilot flame or an auto-igniter.
5) The units shall be equipped with a system to ensure that it is operated with a flame present at all times that gas is sent the unit.
6) ECD and TO combustion shall be maintained for the duration of time gas is sent to the unit.
7) ECD and TO shall be installed, operated, and maintained according to manufacturer's, or permittee's equivalent specifications.
8) The ECD and TO shall be operated with no visible emissions except for periods not to exceed a total of sixty (60) seconds during any fifteen (15) consecutive minutes.

**Monitoring:**

1) The permittee shall continuously monitor the presence of a pilot flame using a thermocouple equipped with a continuous recorder and alarm, to detect the presence of a flame, or any other equivalent device approved by the Department.
2) Once per calendar year, or when any visible emissions are observed, the permittee shall perform a Method 22 observation while the pilot flame is present to certify compliance with the visible emission requirements. The observation period shall be fifteen minutes.
3) A gas flow meter and flow totalizer, equipped with a chart recorder or data logger (electronic storage), shall be installed in the incoming gas line to measure and record the total standard cubic feet (scf) of gas sent to the unit during any high pressure operation.
4) Monitoring of low pressure combustion by the ECD or TO is satisfied by the parametric monitoring of the equipment controlled by the ECD or TO.
5) The permittee shall measure the $H_2S$ content, VOC content, and the heating value (Btu/scf) of the gas sent for combustion with a gas analysis in accordance with Condition A201.
6) The flow meter, totalizer, and if used, the inline monitor, shall be operated, calibrated, and maintained as specified by the manufacturer, or permittee, or equivalent and as necessary to ensure correct and accurate readings.

**Recordkeeping:** The permittee shall record:

1) Chronologically, all instances of alarm activation, including the date and cause of alarm activation, actions taken to bring the unit into normal operating conditions, and maintenance activities,

2) The results of the Method 22 observations,
3) The results of the gas analyses including $H_2S$, VOC content, and heating value,
4) For high pressure units, both the hourly and monthly flow meter and flow totalizer measurements of gas sent to the unit, and
5) Calculations if one of the process parameters has been exceeded to determine compliance with each applicable emission limit for that piece of equipment.

**Reporting:** The permittee shall report in accordance with Section B110.

## A209 Vapor Recovery Units, Vapor Recovery Towers, and Ultra Low-Pressure Separators

A. Vapor Recovery Unit or Department-approved Equivalent

**Requirement:** Compliance with the allowable emission limits for any of these units in the Registration Form shall be demonstrated by the following:

1) The permittee shall at all times operate the vapor recovery unit (VRU) as a closed vent system that captures and routes all VOC and HAP emissions from units listed in the Registration Form back to the process stream or to a sales pipeline, and does not vent to the atmosphere.
2) The permittee may select in the Registration Form a backup control device or redundant VRU to control emissions during SSM or VRU downtime.

**Monitoring** At least once per month, the permittee shall inspect the VRU and associated piping from the controlled units, and blowcase vessels, for defects that could result in air emissions. Defects include, but are not limited to, visible cracks, holes, or gaps; broken, cracked, or otherwise damaged seals or gaskets on closure devices; and broken or missing hatches, access covers, caps, or other closure devices. In the event that a leak or defect is detected, the permittee shall repair the leak or defect within 30 calendar days and in a manner that minimizes VOC and HAP emissions to the atmosphere.

Alternatively to the above, and if selected in the Registration Form, the Permittee may implement a program that meets the requirements of NSPS OOOOa (40 CFR 60.5416a).

**Recordkeeping:** The permittee shall record the results of the VRU inspections chronologically, the name of the personnel conducting the inspection, and noting any maintenance or repairs that are required.

**Reporting:** The permittee shall report in accordance with Section B110.

## A210 Amine Unit

A. Amine Unit Throughput and Amine Circulation Rate

**Requirement:** To demonstrate compliance with the allowable emission limits in the Registration Form, the inlet stream shall not exceed the amount represented in the Registration Form, and the amine pump circulation rate shall not exceed the circulation rate requested (in gallons per minute) in the Registration Form.

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| The permittee shall install, calibrate, and maintain a flow meter that measures the flow rate into the contactor. A flow meter is not required if the permitted capacity of the unit, and the emission calculations as represented in the Registration Form, is equal to and based upon the unit's maximum capacity. |
| **Monitoring:** The permittee shall:<br>1) calibrate the flow meter semi-annually in accordance with the manufacturer's, permittee's, or equivalent recommended schedule. The calibration shall be in accordance with the specifications at 40 CFR 98, and<br>2) monitor the flow rate daily (in units of MMscf/day) and monitor the circulation rate monthly. |
| **Recordkeeping:** The permittee shall keep records in accordance with Section B109, and of the following:<br>1) flow meter calibration results,<br>2) daily total of natural gas or NGL throughput each day in units of MMscf/day or barrels/day,<br>3) the pump flow rate in gpm and the basis for determination of flow rate, and<br>4) the manufacturer's specification sheet indicating the maximum flow rate of the pump. |
| **Reporting:** The permittee shall report in accordance with Section B110. |

B. Amine Unit Control Device Inspection

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| **Requirement:** The permittee shall select the amine unit control device, if any, in the Registration Form. To demonstrate compliance with the allowable emission limits in the Registration Form, the permittee shall ensure a controlled amine sweetening unit is a closed system where all still vent emissions and flash tank emissions are collected and routed at all times back into the process point, and not vented to the atmosphere, or routed to a control device. |
| **Monitoring:** The permittee shall inspect the amine treatment unit, piping, and, if selected, the control equipment semi-annually to ensure it is operating as designed.<br><br>Alternatively to the above, and if selected in the Registration Form, the Permittee may implement a program that meets the requirements of NSPS OOOOa (40 CFR 60.5416a). |
| **Recordkeeping:** The permittee shall record the date, the name of the personnel conducting the inspection, and the results of all equipment and control device inspections chronologically, noting any maintenance or repairs needed to bring the amine treatment unit into compliance. The permittee shall maintain a copy of the manufacturer's, permittees, or equivalent maintenance recommendations. |
| **Reporting:** The permittee shall report in accordance with Section B110. |

## A211 NSPS KKK, OOOO, OOOOa, and Fugitives

A. 40 CFR 60, Subpart KKK (Equipment and Compressors at Onshore Natural Gas Processing Plants subject to NSPS KKK)

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| **Requirement:** Equipment and compressors in VOC or in wet gas service (as defined in 40 CFR §60.631) within process unit(s) are subject to Standards of Performance for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants, 40 CFR 60, Subpart KKK. The permittee |

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| shall comply with all applicable requirements in Subparts A and KKK. |
| **Monitoring:** The permittee shall implement a leak detection and repair program and shall comply with the standards as specified at 40 CFR §60.632 except as provided in §60.633. |
| **Recordkeeping:** The permittee shall comply with the recordkeeping requirements specified at 40 CFR §60.486 except as provided in §§60.633 and 60.635. |
| **Reporting:** The permittee shall comply with the reporting requirements specified at 40 CFR §60.487 except as provided in §§60.633 and 60.636. |

B. 40 CFR 60, Subpart OOOO and/or OOOOa

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| **Requirement:** For units subject to 40 CFR 60, Subpart OOOO and/or OOOOa, the permittee shall comply with all applicable requirements in Subpart A and Subpart OOOO and/or OOOOa. |
| **Monitoring:** The permittee shall comply with all applicable monitoring requirements of these subparts. Where applicable, this requirement satisfies the monitoring inspection conditions of this GCP. |
| **Recordkeeping:** The permittee shall comply with all applicable recordkeeping requirements of these subparts. |
| **Reporting:** The permittee shall comply with all applicable reporting requirements of these subparts. |

## A212 Setbacks and Other Requirements for Facilities Registering under this Permit

**Haul road emissions:**
Haul road emissions do not have additional requirements in this permit.

**Fugitive $H_2S$ emissions from truck loading, tank venting, and leaks:**
The Department has established screening thresholds for fugitive $H_2S$ monitoring. The applicant may either (1) comply with Condition A212.A below, or (2) calculate and provide in the Registration Form the potential emission rate of fugitive $H_2S$. If the emission rate is equal to or lower than the screening thresholds, the fugitive emission monitoring in Condition A212.A below is not required.

The screening thresholds are:

1) 0.01 lb/hr for all areas except the Pecos Permian Basin.
2) 0.1 lb/hr for the Pecos Permian Basin.

If a facility is above the screening thresholds, the following condition applies:

A. Fugitive Emission Monitoring for Facilities Receiving or Processing Sour Gas

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| **Requirement:** Facilities registered under this permit that are receiving or processing sour gas (greater than 4 ppm of $H_2S$ in all areas except the Pecos Permian Basin and greater than 24 ppm |

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| of $H_2S$ in the Pecos Permian Basin) are required to conduct routine fugitive emission leak detection monitoring of each process equipment and control device that contacts the sour gas stream. |
| **Monitoring:** At least once per month, the permittee shall conduct a leak detection and repair program (LDAR) utilizing instrumentation and/or audio, visual and olfactory (AVO) inspection for all process equipment and control devices that are in contact with sour gas. The detection program shall include inspecting the piping from process equipment to any control device. Defects include, but are not limited to, visible cracks, holes, or gaps; broken, cracked, or otherwise damaged seals or gaskets on closure devices; and broken or missing hatches, access covers, caps, or other closure devices. In the event that a leak or defect is detected, the permittee shall repair the leak or defect within 30 calendar days and in a manner that minimizes emissions to the atmosphere. If the repair of the fugitive leak requires a unit shutdown, the repair may be delayed until the next scheduled shutdown. If a repair cannot be completed within 30 calendar days, the equipment shall be documented and tracked through completion of repair. |
| **Recordkeeping:** The permittee shall record the results of the LDAR inspections chronologically, noting any maintenance or repairs that are required and, if applicable, the reason describing why maintenance or repairs were not completed within 30 calendar days. |
| **Reporting:** The permittee shall report in accordance with Section B110. |

**Terrain:**
Equipment shall be at least 100 meters from any stack to terrain that is five (5) or more meters above the top of a stack.

**Nearby facilities:**
The facility must be at least 150 meters from any source that emits over 25 tons/year of $NO_x$.

**Class I areas:**
The facility must be at least (three) 3 miles from any Class I area.

## PART B GENERAL CONDITIONS

### B100 Introduction

A. The Department has determined that all facilities registered under and operating in accordance with this permit will meet all applicable requirements under the federal Clean Air Act, the New Mexico Air Quality Control Act, and Title 20, Chapter 2 NMAC, including 20.2.74 NMAC (Prevention of Significant Deterioration), 20.2.77 NMAC (New Source Performance Standards), 20.2.78 (Emission Standards for Hazardous Air Pollutants), 20.2.82 NMAC (Maximum Achievable Control Technology Standards for Source Categories of Hazardous Air Pollutants), and will not cause or contribute to air contaminant levels in excess of any national or New Mexico ambient air quality standard.

B. Where the permit refers to "Department approved" or "approved by the Department," means for the purposes of this permit to have been approved in writing by the Department. Guidance published on the AQB website meets this requirement.

## B101 Legal

A. The permittee shall construct or modify and operate the Facility in accordance with all of the conditions of the permit, including the representations in the Registration Form. 20.2.72.210.D NMAC, states that any term or condition imposed by the Department on a permit is enforceable to the same extent as a regulation of the Environmental Improvement Board.

B. Unless otherwise specified in Part A or Part C of this permit, any future physical changes, changes in the method of operation, or changes in the authorized area may constitute a modification as defined by 20.2.72 NMAC, Construction Permits. Unless the source or activity is exempt under 20.2.72.202 NMAC, no modification shall begin prior to written approval of a Registration Form. (20.2.72.200.A.2 and E, and 210.B.4 NMAC)

C. Registrations which require notification under Condition C101.A or Condition C101.B for permit revisions and modifications shall be submitted to:

Permit Programs Manager
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico 87505-1816

D. The GCP-Oil and Gas supersedes GCP-1 and GCP-4 permits issued by the Department. For permittees operating under an existing GCP-1 or GCP-4, the Department will provide a transition schedule for converting to operate under the GCP-Oil and Gas, or for obtaining a regular Part 72 permit.

Within nine (9) months of issuance of this GCP-Oil and Gas, each permittee operating under an existing GCP-1 or GCP-4 shall determine if each facility qualifies to operate under the GCP-Oil and Gas, or if the permittee must obtain a regular Part 72 permit for that facility, and for each existing facility, the permittee shall provide notification to the Department of one of the following:

1) The facility qualifies to operate under the GCP-Oil and Gas, and the date that the permittee commenced operating under the GCP-Oil and Gas, or

2) The facility does not qualify to operate under the GCP-Oil and Gas, and the permittee shall obtain a regular Part 72 permit.

The Department shall establish a transition schedule for each existing facility and shall require the permittee to either (1) submit a Registration Form to operate under the GCP-Oil and Gas, or (2) to submit a regular Part 72 permit application. There is no public notice or fees required for transitioning an existing facility operating under a GCP-1 or GCP-4 permit under the GCP-Oil and Gas. Public notice and fees do apply to facilities applying for a regular Part 72 permit.

E. On an as needed basis, the Department may revise the Registration Form and Air Emission Calculation Tool in order to make necessary revisions, improvements, and updates to the Forms.

## B102 Authority

A. This permit is issued pursuant to the Air Quality Control Act (Act) and regulations adopted pursuant to the Act including Title 20, Chapter 2, Part 72 of the New Mexico Administrative Code (NMAC), (20.2.72 NMAC), Construction Permits, including 20.2.72.220, General Permits, and is enforceable pursuant to the Act and the air quality control regulations applicable to this source.

B. The Secretary of the Department is the Administrator for 40 CFR Parts 60, 61, and 63 pursuant to the delegation and exceptions of Section 10 of 20.2.77 NMAC (NSPS), 20.2.78 NMAC (NESHAP), and 20.2.82 NMAC (MACT).

## B103 Fees

A. Each Registration Form shall include a certified check or money order for 10 fee points. The current fee is available on the Permitting website.

B. The Department will assess an annual fee for this Facility. The current annual fee amount is available by contacting the Department or can be found on the Department's website. The AQB will invoice the permittee for the annual fee amount at the beginning of each calendar year. This fee does not apply to facilities which are assessed an annual fee in accordance with 20.2.71 NMAC. For facilities that satisfy the definition of "small business" in 20.2.75.7.F NMAC, this annual fee will be divided by two. (20.2.75.11 NMAC)

C. All fees shall be remitted in the form of a corporate check, certified check, or money order, or other Department approved method, and made payable to the "NM Environment Department, AQB."

## B104 Appeal Procedures

A. Any person who participated in a permitting action before the Department and who is adversely affected by such permitting action, may file a petition for hearing before the

Environmental Improvement Board. The petition shall be made in writing to the Environmental Improvement Board within thirty (30) days from the date notice is given of the Department's action and shall specify the portions of the permitting action to which the petitioner objects, certify that a copy of the petition has been mailed or hand-delivered and attach a copy of the permitting action for which review is sought. Unless a timely request for hearing is made, the decision of the Department shall be final. The petition shall be copied simultaneously to the Department upon receipt of the appeal notice. If the petitioner is not the applicant or permittee, the petitioner shall mail or hand-deliver a copy of the petition to the applicant or permittee. The Department shall certify the administrative record to the board. Petitions for a hearing shall be sent or hand delivered to: (20.2.72.207.F NMAC)

Secretary, New Mexico Environmental Improvement Board
Post Office Box 5469
1190 St. Francis Drive, Runnels Bldg. Rm. N2153
Santa Fe, New Mexico 87502-5469

**B105 Submittal of Reports and Certifications**

A. Stack Test Protocols and Stack Test Reports shall be submitted electronically to Stacktest.AQB@state.nm.us.

B. Excess Emission Reports shall be submitted electronically to eereports.aqb@state.nm.us. (20.2.7.110 NMAC)

**B106 NSPS and/or MACT General Conditions**

A. If a facility is subject to a NSPS standard in 40 CFR 60, the requirements of 40 CFR 60, Subpart A, General Provisions, also apply.

B. If a facility is subject to a MACT standard in 40 CFR 63, the requirements of 40 CFR 63, Subpart A, General Provisions, also apply.

**B107 Startup, Shutdown, and Maintenance Operations**

A. The owner or operator of a source having an excess emission shall comply with 20.2.7 NMAC and, to the extent practicable, operate the source, including associated air pollution control equipment, in a manner consistent with good air pollutant control practices for minimizing emissions. (20.2.7.109 NMAC). The establishment of allowable malfunction emission limits does not supersede this requirement.

B. The establishment of permitted startup, shutdown, and maintenance (SSM) emission limits does not supersede the requirements of 20.2.7.14.A NMAC. Except for operations or equipment subject to Condition B106, the permittee shall establish and

implement a plan to minimize emissions during routine or predictable start up, shut down, and scheduled maintenance (SSM work practice plan) and shall operate in accordance with the procedures set forth in the plan. (SSM work practice plan) (20.2.7.14.A NMAC)

## B108 General Monitoring Requirements

A. These requirements do not supersede or relax requirements of federal regulations.

B. The following monitoring requirements shall be used to determine compliance with applicable requirements and emission limits. Any sampling, whether by portable analyzer or EPA reference method, that measures an emission rate over the applicable averaging period greater than an emission limit in the Registration Form constitutes noncompliance with this permit. The Department may require, at its discretion, additional tests pursuant to EPA Reference Methods at any time, including when sampling by portable analyzer measures an emission rate greater than an emission limit in the Registration Form; but such requirement shall not be construed as a determination that the sampling by portable analyzer does not establish noncompliance with this permit and shall not stay enforcement of such noncompliance based on the sampling by portable analyzer.

C. If the emission unit is shutdown at the time when periodic monitoring is due to be accomplished, the permittee is not required to restart the unit for the sole purpose of performing the monitoring. Using electronic or written mail, the permittee shall notify the Air Quality Bureau's Compliance and Enforcement Section of a delay in emission tests prior to the deadline for accomplishing the tests. Upon recommencing operation, the permittee shall submit any pertinent pre-test notification requirements set forth in the current version of the Department's Standard Operating Procedures For Use Of Portable Analyzers in Performance Test, and shall accomplish the monitoring.

D. The requirement for monitoring during any monitoring period is based on the percentage of time that the unit has operated. However, to invoke the monitoring period exemption at B108.D(2), hours of operation shall be monitored and recorded.

(1) If the emission unit has operated for more than 25% of a monitoring period, then the permittee shall conduct monitoring during that period.

(2) If the emission unit has operated for 25% or less of a monitoring period then the monitoring is not required. After two successive periods without monitoring, the permittee shall conduct monitoring during the next period regardless of the time operated during that period, except that for any monitoring period in which a unit has operated for less than 10% of the monitoring period, the period will not be considered as one of the two successive periods.

(3) If invoking the monitoring period exemption in B108.D(2), the actual operating time of a unit shall not exceed the monitoring period required by this permit before the

required monitoring is performed. For example, if the monitoring period is annual, the operating hours of the unit shall not exceed 8760 hours before monitoring is conducted. Regardless of the time that a unit actually operates, a minimum of one of each type of monitoring activity shall be conducted during any five-year period.

E. For all periodic monitoring events, except when a federal or state regulation is more stringent, three test runs shall be conducted at 90% or greater of the unit's capacity as stated in the Registration Form, and at additional loads when requested by the Department. If the 90% capacity cannot be achieved, the monitoring will be conducted at the maximum achievable load under prevailing operating conditions except when a federal or state regulation requires more restrictive test conditions. The load and the parameters used to calculate it shall be recorded to document operating conditions and shall be included with the monitoring report.

F. When requested by the Department, the permittee shall provide schedules of testing and monitoring activities.

G. If monitoring is new or is in addition to monitoring imposed by an existing applicable requirement, it shall become effective 120 days after the date of permit issuance. For emission units that have not commenced operation, the associated new or additional monitoring shall not apply until 120 days after the units commence operation.

## B109 General Recordkeeping Requirements

A. The permittee shall maintain records to assure and verify compliance with the terms and conditions of this permit and any other applicable requirements that become effective after permit issuance. The minimum information to be included in these records is:

Records required for testing and sampling:

(1) equipment identification (include make, model and serial number for all tested equipment and emission controls)
(2) date(s) and time(s) of sampling or measurements
(3) date(s) analyses were performed
(4) the qualified entity that performed the analyses
(5) analytical or test methods used
(6) results of analyses or tests
(7) operating conditions existing at the time of sampling or measurement

Records required for equipment inspections and/or maintenance required by this permit:

(1) equipment identification number (including make, model and serial number)
(2) date(s) and time(s) of inspection, maintenance, and/or repair
(3) date(s) any subsequent analyses were performed (if applicable)

(4) name of the person or qualified entity conducting the inspection, maintenance, and/or repair
(5) copy of the equipment manufacturer's or the owner or operator's maintenance or repair recommendations (if required to demonstrate compliance with a permit condition)
(6) description of maintenance or repair activities conducted
(7) all results of any required parameter readings
(8) a description of the physical condition of the equipment as found during any required inspection
(9) results of required equipment inspections including a description of any condition which required adjustment to bring the equipment back into compliance and a description of the required adjustments

B. Except as provided in the Specific Conditions, electronic records shall be maintained on-site or if unstaffed, at the permittee's local business office for a minimum of two (2) years from the time of recording and shall be made available to Department personnel upon request.

C. Unless otherwise indicated by Specific Conditions, the permittee shall keep the following records for malfunction emissions and routine or predictable emissions during startup, shutdown, and scheduled maintenance (SSM):

(1) The owner or operator of a source subject to this permit shall establish and implement a plan to minimize emissions during routine or predictable startup, shutdown, and scheduled maintenance through work practice standards and good air pollution control practices. This requirement shall not apply to any affected facility defined in and subject to an emissions standard and an equivalent plan under 40 CFR Part 60 (NSPS), 40 CFR Part 63 (MACT), or an equivalent plan under 20.2.72 NMAC - Construction Permits. The permittee shall keep records of all sources subject to the plan to minimize emissions during routine or predictable SSM and shall record if the source is subject to an alternative plan and therefore, not subject to the plan requirements under 20.2.7.14.A NMAC.

(2) If the facility has allowable SSM emission limits in the Registration Form, the permittee shall record all SSM events, including the date, the start time, the end time, a description of the event, and a description of the cause of the event. This record also shall include a copy of the manufacturer's, or equivalent, documentation showing that any maintenance qualified as scheduled. Scheduled maintenance is an activity that occurs at an established frequency pursuant to a written protocol published by the manufacturer or other reliable source. The authorization of allowable SSM emissions does not supersede any applicable federal or state standard. The most stringent requirement applies.

(3) If the permittee has allowable malfunction emission limits in the Registration Form, the permittee shall record all malfunction events to be applied against these limits. The permittee shall also include the date, the start time, the end time, and a

description of the event. The authorization of allowable malfunction emissions does not supersede any applicable federal or state standard. The most stringent requirement applies.

**B110 General Reporting Requirements**
(20.2.72 NMAC Sections 210 and 212)

A. Records and reports shall be maintained on-site or at the permittee's local business office unless specifically required to be submitted to the Department or EPA by another condition of this permit or by a state or federal regulation.

B. The permittee shall notify the Air Quality Bureau's Compliance and Enforcement Section using the current Submittal Form posted to NMED's Air Quality web site under Compliance and Enforcement/Submittal Forms in writing of, or provide the Department with (20.2.72.212.A and B):

(1) the anticipated date of initial startup of each new or modified source not less than thirty (30) days prior to the date. Notification may occur prior to issuance of the permit, but actual startup shall not occur earlier than the permit issuance date;

(2) after receiving authority to construct, the equipment serial number as provided by the manufacturer or permanently affixed if shop-built and the actual date of initial startup of each new or modified source within fifteen (15) days after the startup date; and

(3) the date when each new or modified emission source reaches the maximum production rate at which it will operate within fifteen (15) days after that date.

C. Unless otherwise specified in Parts A or C of this permit, the permittee shall notify the Bureau's Permitting Program Manager, in writing of, or provide the Department with (20.2.72.212.C and D):

(1) any change of operators or any equipment substitutions within fifteen (15) days of such change;

(2) any necessary update or correction no more than sixty (60) days after the operator knows or should have known of the condition necessitating the update or correction of the permit.

D. Results of emission tests and monitoring for each pollutant (except opacity) shall be reported in pounds per hour (unless otherwise specified) and tons per year. Opacity shall be reported in percent. The number of significant figures corresponding to the full accuracy inherent in the testing instrument or Method test used to obtain the data shall be used to calculate and report test results in accordance with 20.2.1.116.B and C NMAC. Upon request by the Bureau, tabular data shall be submitted in editable, MS Excel format.

E. The permittee shall submit reports of excess emissions in accordance with 20.2.7.110.A NMAC.

F. Excess Emissions Reporting for Regulated Sources with no Pound per Hour (pph) and/or Ton per Year (tpy) Emission Limits:

(1) Emissions in excess of 1.0 pph or 1.0 tpy for each regulated air pollutant (except for $H_2S$).

(2) For $H_2S$, emissions in excess of 0.1 pph or 0.44 tpy.

## B111 General Testing Requirements

A. Compliance Tests

(1) Compliance test requirements from previous permits (if any) remain in effect, unless the tests have been satisfactorily completed. Compliance test requirements may be re-imposed if it is deemed necessary by the Department to determine whether the source is in compliance with applicable regulations or permit conditions. (20.2.72 NMAC Sections 210.C and 213)

(2) Compliance tests shall be conducted within sixty (60) days after the unit(s) achieve the maximum normal production rate. If the maximum normal production rate does not occur within one hundred twenty (120) days of source startup, then the tests must be conducted no later than one hundred eighty (180) days after initial startup of the source.

(3) Unless otherwise indicated by Specific Conditions or regulatory requirements, the default time period for each test run shall be at least 60 minutes and each performance test shall consist of three separate runs using the applicable test method. For the purpose of determining compliance with an applicable emission limit, the arithmetic mean of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Department approval, be determined using the arithmetic mean of the results of the two other runs.

(4) Testing of emissions shall be conducted with the emissions unit operating at 90 to 100 percent of the maximum operating rate allowed by the permit. If it is not possible to test at that rate, the source may test at a lower operating rate, subject to the approval of the Department.

(5) Testing performed at less than 90 percent of permitted capacity will limit emission unit operation to 110 percent of the tested capacity until a new test is conducted.

(6) If conditions change such that unit operation above 110 percent of tested capacity is possible, the source must submit a protocol to the Department within 30 days of such change to conduct a new emissions test.

B. EPA Reference Method Tests

(1) All compliance tests required by this permit, unless otherwise specified by Specific Conditions of this permit, shall be conducted in accordance with the requirements of CFR Title 40, Part 60, Subpart A, General Provisions, and the following EPA Reference Methods as specified by CFR Title 40, Part 60, Appendix A:

(a) Methods 1 through 4 for stack gas flow rate

(b) Method 5 for TSP

(c) Method 6C and 19 for $SO_2$

(d) Method 7E for $NO_X$ (test results shall be expressed as nitrogen dioxide (NOx) using a molecular weight of 46 lb/lb-mol in all calculations (each ppm of NO/NOx is equivalent to 1.194 x 10-7 lb/SCF)

(e) Method 9 for opacity

(f) Method 10 for CO

(g) Method 19 may be used in lieu of Methods 1-4 for stack gas flow rate upon approval of the Department. A justification for this proposal must be provided along with a contemporaneous fuel gas analysis (preferably on the day of the test) and a recent fuel flow meter calibration certificate (within the most recent quarter).

(h) Method 7E or 20 for Turbines per 60.335 or 60.4400

(i) Method 22 for Visible Emissions

(j) Method 201A for filterable $PM_{10}$ and $PM_{2.5}$

(k) Method 202 for condensable PM

(l) Method 320 for organic Hazardous Air Pollutants (HAPs)

(m) Method 25A for VOC reduction efficiency

(n) ASTM D6348-03 may be used for RICE only

(2) Alternative test method(s) may be used if the Department approves the change

C. Periodic Monitoring and Portable Analyzer Requirements

(1) Periodic emissions tests (periodic monitoring) may be conducted in accordance with EPA Reference Methods or by utilizing a portable analyzer. Periodic monitoring utilizing a portable analyzer shall be conducted in accordance with the requirements of the current version of ASTM D 6522. However, if a facility has

met a previously approved Department criterion for portable analyzers, the analyzer may be operated in accordance with that criterion until it is replaced.

(2) Unless otherwise indicated by Specific Conditions or regulatory requirements, the default time period for each test run shall be at least 20 minutes.

Each performance test shall consist of three separate runs. The arithmetic mean of results of the three runs shall be used to determine compliance with the applicable emission limit.

(3) Testing of emissions shall be conducted in accordance with the requirements at Section B108.E.

(4) During emissions tests, pollutant and diluent concentration shall be monitored and recorded. Fuel flow rate shall be monitored and recorded if stack gas flow rate is determined utilizing Method 19. This information shall be included with the test report furnished to the Department.

(5) Stack gas flow rate shall be calculated in accordance with 40 CFR 60, Appendix A, Method 19 utilizing fuel flow rate (scf) determined by a dedicated fuel flow meter and fuel heating value (Btu/scf) determined from a fuel sample obtained preferably during the day of the test, but no earlier than three months prior to the test date. Alternatively, stack gas flow rate may be determined by using EPA Methods 1-4.

D. Test Procedures:

(1) The permittee shall notify the Program Manager of the Air Quality Bureau's Compliance and Enforcement Section consistent with the Section's current published reporting procedures.

(2) Equipment shall be tested in the "as found" condition. Equipment may not be adjusted or tuned prior to any test for the purpose of lowering emissions, and then returned to previous settings or operating conditions after the test is complete.

(3) Contents of test notifications, protocols and test reports shall conform to the format specified by the Department's Universal Test Notification, Protocol and Report Form and Instructions. Current forms and instructions are posted to NMED's Air Quality web site under Compliance and Enforcement Testing.

(4) The permittee shall provide (a) sampling ports adequate for the test methods applicable to the facility, (b) safe sampling platforms, (c) safe access to sampling platforms and (d) utilities for sampling and testing equipment.

(5) The stack shall be of sufficient height and diameter and the sample ports shall be located so that a representative test of the emissions can be performed in accordance with the requirements of EPA Method 1 or ASTM D 6522-00 as applicable.

(6) Where necessary to prevent cyclonic flow in the stack, flow straighteners shall be installed.

(7) Unless otherwise indicated by Specific Conditions or regulatory requirements, test reports shall be submitted to the Department no later than 30 days after completion of the test.

## B112 Compliance

A. The Department has the right to enter the facility at all reasonable times to verify the terms and conditions of this permit. Required records shall be organized by date and subject matter and shall at all times be readily available for inspection. The permittee, upon verbal or written request from an authorized representative of the Department who appears at the facility, shall immediately produce for inspection or copying any records required to be maintained at the facility. Upon written request at other times, the permittee shall deliver to the Department paper or electronic copies of any and all required records maintained on site or at an off-site location. Requested records shall be copied and delivered at the permittee's expense within three business days from receipt of request unless the Department allows additional time. Required records may include records required by permit and other information necessary to demonstrate compliance with terms and conditions of this permit. (NMSA 1978, Section 74-2-13)

B. A copy of the most recent air quality permit and Registration Form issued by the Department shall be kept at the permitted facility or (for unstaffed sites) at the nearest company office and shall be made available to Department personnel for inspection upon request. (20.2.72.210.B.4 NMAC)

## B113 Permit Cancellation and Revocation

A. The Department may revoke this permit if the applicant or permittee has knowingly and willfully misrepresented a material fact in the Registration Form. Revocation will be made in writing, and an administrative appeal may be taken to the Secretary of the Department within thirty (30) days. Appeals will be handled in accordance with the Department's Adjudicatory Procedures, 20.1.5 NMAC.

B. The Department shall automatically cancel any permit for any source which ceases operation for five (5) years or more, or permanently. Reactivation of any source after the five (5) year period shall require a new permit. (20.2.72 NMAC)

C. The Department may cancel a permit if the construction or modification is not commenced within two (2) years from the date of issuance or if, during the construction or modification, work is suspended for a total of one (1) year. (20.2.72 NMAC)

**B114 Notification to Subsequent Owners**

A. The permit and conditions apply in the event of any change in control or ownership of the Facility. No permit modification is required in such case. However, in the event of any such change in control or ownership, the permittee shall notify the succeeding owner of the permit and conditions and shall notify the Bureau's Program Manager, Permits Section of the change in ownership within fifteen (15) days of that change. (20.2.72.212.C NMAC)

B. Any new owner or operator shall notify the Program Manager of the Air Quality Bureau's, Permits Section, within thirty (30) days of assuming ownership, the date of assuming ownership, and the new owner's or operator's name and address. (20.2.73.200.E.3 NMAC)

**B115 Asbestos Demolition**

A. Before any asbestos demolition or renovation work, the permittee shall determine whether 40 CFR 61 Subpart M, National Emissions Standards for Asbestos applies. If required, the permittee shall notify the Program Manager of the Air Quality Bureau's Compliance and Enforcement Section using forms furnished by the Department.

**B116 Short Term Engine Replacement**

A. The following Alternative Operating Scenario (AOS) addresses engine breakdown or periodic maintenance and repair, which requires the use of a short-term replacement engine. The following requirements do not apply to engines that are exempt per 20.2.72.202.B(3) NMAC. Changes to exempt engines must be reported in accordance with 20.2.72.202.B NMAC. A short-term replacement engine may be substituted for any engine specified in the Registration Form for no more than 120 days in any monthly rolling twelve month period per permitted engine. The compliance demonstrations required as part of this AOS are in addition to any other compliance demonstrations required by this permit. If the engine will remain onsite for longer than 120 days, a Registration Form shall be submitted and approved by the Department prior to the expiration of the 120 day period authorized by this condition.

(1) The permittee may temporarily replace an existing engine that is subject to the emission limits established in the Registration Form with another engine regardless of manufacturer, model, and horsepower without modifying the Registration Form. The permittee shall submit written notification to the Department within 15 days of the date of engine substitution according to condition B110.C(1).

(a) The potential emission rates of the replacement engine shall be determined using the replacement engine's manufacturer specifications and shall comply with the permitted emission limits of the engine being replaced as specified in the Registration Form.

(b) The direction of the exhaust stack for the replacement engine shall be either vertical or the same direction as for the existing engine. The replacement engine's stack height and flow parameters shall be at least as effective in the dispersion of air pollutants as the modeled stack height and flow parameters for the existing permitted engine. The following equation may be used to show that the replacement engine disperses pollutants as well as the existing engine. The value calculated for the replacement engine on the right side of the equation shall be equal to or greater than the value for the existing engine on the left side of the equation. The permitting page of the Air Quality Bureau website contains a spreadsheet that performs this calculation.

EXISTING ENGINE REPLACMENT ENGINE

$$\frac{[(g) \times (h1)] + [(v1)^2/2] + [(c) \times (T1)]}{q1} <= \frac{[(g) \times (h2)] + [(v2)^2/2] + [(c) \times (T2)]}{q2}$$

Where
g = gravitational constant = 32.2 ft/sec$^2$
h1 = existing stack height, feet
v1 = exhaust velocity, existing engine, feet per second
c = specific heat of exhaust, 0.28 BTU/lb-degree F
T1 = absolute temperature of exhaust, existing engine = degree F + 460
q1 = permitted allowable emission rate, existing engine, lbs/hour
h2 = replacement stack height, feet
v2 = exhaust velocity, replacement engine, feet per second
T2 = absolute temperature of exhaust, replacement engine = degree F + 460
q2 = manufacturer's potential emission rate, replacement engine, lbs/hour

The permittee shall keep records showing that the replacement engine is at least as effective in the dispersion of air pollutants as the existing engine.

(c) Test measurement of NOx and CO emissions from the temporary replacement engine shall be performed in accordance with Section B111 with the exception of Condition B111A(2) and B111B for EPA Reference Methods Tests or Section B111C for portable analyzer test measurements. Compliance test(s) shall be conducted within fifteen (15) days after the unit begins operation, and records of the results shall be kept according to section B109.B.

i. These compliance tests are not required for an engine certified under 40CFR60, subparts IIII, or JJJJ, or 40CFR63, subpart ZZZZ if the permittee demonstrates that one of these requirements causes such engine to comply with all emission limits of the Registration Form. The permittee shall submit this demonstration to the Department within 48

hours of placing the new unit into operation. This submittal shall include documentation that the engine is certified, that the engine is within its useful life, as defined and specified in the applicable requirement, and shall include calculations showing that the applicable emissions standards result in compliance with the emission limits.

ii. These compliance tests are not required if a test was conducted by portable analyzer or by EPA Method test (including any required by 40CFR60, subparts IIII and JJJJ and 40CFR63, subpart ZZZZ) within the last 12 months. These previous tests are valid only if conducted at the same or lower elevation as the existing engine location prior to commencing operation as a temporary replacement. A copy of the test results shall be kept according to section B109.B.

(d) Compliance tests for NOx and CO shall be conducted if requested by the Department in writing to determine whether the replacement engine is in compliance with applicable regulations or permit conditions.

(e) Upon determining that emissions data developed according to B116.A.1(c) fail to indicate compliance with either the NOx or CO emission limits, the permittee shall notify the Department within 48 hours. Also within that time, the permittee shall implement one of the following corrective actions:

i. The engine shall be adjusted to reduce NOx and CO emissions and tested per B116.A.1(c) to demonstrate compliance with the emission limits.

ii. The engine shall discontinue operation or be replaced with a different unit.

(2) Short term replacement engines, whether of the same manufacturer, model, and horsepower, or of a different manufacturer, model, or horsepower, are subject to all federal and state applicable requirements, regardless of whether they are set forth in this permit (including monitoring and recordkeeping), and shall be subject to any shield afforded by this permit.

(3) The permittee shall maintain a contemporaneous record documenting the unit number, manufacturer, model number, horsepower, emission factors, emission test results, and serial number of any existing engine that is replaced, and the replacement engine. Additionally, the record shall document the replacement duration in days, and the beginning and end dates of the short-term engine replacement.

(4) The permittee shall maintain records of a regulatory applicability determination for each replacement engine (including 40CFR60, subparts IIII and JJJJ and 40CFR63, subpart ZZZZ) and shall comply with all associated regulatory requirements.

B. All records required by this section shall be kept according to section B109.

## PART C REGISTRATION PROCEDURE

### C100 Registration Forms

A. General Requirements

(1) The owner or operator of a Facility to be registered under GCP-Oil and Gas shall complete the following steps. All submittals shall be made on the current Registration Form provided by the Department. The owner or operator shall:

(a) Complete the public notice requirements as required in C100.B. Public notice is required for new facilities, and existing, constructed facilities that are registering under Part 72 for the first time.

(b) At a minimum, complete the following sections of the GCP-Oil and Gas Registration Form:

(i) Sections 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. This includes the AECT.

(c) Submit a complete GCP-Oil and Gas Registration Form, including proof of Public Notice and a payment of 10 fee points as required by 20.2.75 NMAC, to the Department.

(2) Within thirty (30) calendar days of receiving a Registration Form for the GCP-Oil and Gas, the Department shall review the Registration Form and shall approve or deny the registration. The Department may not grant approval of a Registration Form until fifteen (15) days after Public Notice has been published and posted. Approval or denial, once effective, of a Registration Form is a determination by the Department of whether or not the source qualifies to register for coverage under GCP-Oil and Gas. The Department shall notify the owner or operator of its decision by certified mail.

B. Public Notification

(1) The applicant's public notice requirements shall be completed and submitted as part of the Registration Form.

(2) In accordance with 20.2.72.220.A(2)(b)ii NMAC, the applicant's public notice requirements include:

(a) a notice published once in the legal notices section of a newspaper in general circulation in the county or counties in which the Facility is proposed to be constructed or operated is located. The applicant's legal notice may include up to ten (10) separate facilities if required location information for each facility is included in the notice; and

(b) a notice posted at the proposed or existing Facility entrance in a publicly accessible and conspicuous place on the property on which the Facility is, or is proposed to be, located, until the general permit registration is granted or denied.

(3) In accordance with 20.2.72.220.C(2) NMAC, the Department shall not grant the registration until at least fifteen (15) days after the date the applicant's public notice was initiated.

## C101 Revision Processes

A. Administrative Changes that Require Notification

(1) Owners or operators shall, at a minimum, submit Sections 1 and 10 of the Registration Form to the Department for the following change(s). The notification shall include all information required by the Department to review the request and shall be submitted within fifteen (15) calendar days of the change(s):

(a) Change of owner/operator,

(b) Adding exempt equipment,

(c) Correcting a typographical error, or

(d) Change of contact information for any person identified in the Registration Form.

(2) No public notification is required.

(3) No permit fees under 20.2.75 NMAC apply.

B. Modifications that Require Notification

(1) Prior to any modification of a source, the owner or operator shall, at a minimum, submit Sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, and the AECT of the Registration Form to the Department.

(2) No construction of a modification shall begin prior to receiving written approval by the Department.

(3) Types of modifications that require notification include construction of any new regulated equipment, changes in the method of operation, or any other physical changes which modifies any requested allowable hourly or annual emission limit.

(4) The owner or operator shall maintain the current Registration Form on-site or at the permittee's local business office.

(5) The revised Registration Form, including the lb/hr and tpy emission limits of new or altered emissions units, becomes part of the registration and is enforceable.

(6) No public notification is required.

(7) General Construction Permit fees under 20.2.75 NMAC **do** apply. A fee of 10 fee points is required to be submitted with the Registration Form. The current value of a fee point can be found on the Department's Permitting website.

C. Changes that Prevent Meeting General Permit Limits

(1) Changes or equipment additions that prevent the Facility from meeting the requirements of GCP-Oil and Gas shall not occur before the owner or operator applies for and is issued an individual construction permit under 20.2.72.200 NMAC. [20.2.72.220.D(2) NMAC]

## PART D MISCELLANEOUS: SUPPORTING ON-LINE DOCUMENTS; DEFINITIONS; ACRONYMS

### D100 Supporting On-Line Documents

A. Copies of the following documents can be downloaded from NMED's website under Compliance and Enforcement or requested from the Bureau:
1) Excess Emission Form (for reporting deviations and emergencies)
2) Universal Stack Test Notification, Protocol and Report Form and Instructions
3) SOP for Use of Portable Analyzers in Performance Tests

### D101 Definitions

A. **"Enclosed Combustion Device"** means a direct, enclosed, ground level combustion device.

B. **"Flare"** means a direct combustion device in which air and all combustible gases react at the burner with the objective of complete and instantaneous oxidation of the combustible gases.

C. **"Malfunction"** means any sudden and unavoidable failure of air pollution control equipment or process equipment beyond the control of the owner or operator, including malfunction during startup or shutdown. A failure that is caused entirely or in part by poor maintenance, careless operation, or any other preventable equipment breakdown shall not be considered a malfunction. (20.2.7 NMAC)

D. **"Monthly Rolling"** is a concept of incorporating the most recent month's emission s data into a 12-month period. To determine the current monthly rolling total (or average), subtract the oldest month's data from the calculation and add the current (most recent) month's data and perform the required calculation.

E. **"Natural Gas Liquids"** means the hydrocarbons, such as ethane, propane, butane, and pentane that are extracted from field gas. (40 CFR 60.631)

F. **"National Ambient Air Quality Standards"** means, unless otherwise modified, the primary (health-related) and secondary (welfare-based) federal ambient air quality standards promulgated by the US EPA pursuant to Section 109 of the Federal Act.

G. "**NOx**" or "Nitrogen dioxide" means the chemical compound containing one atom of nitrogen and two atoms of oxygen, for the purposes of ambient determinations. The term **"nitrogen dioxide,"** for the purposes of stack emissions monitoring, shall include nitrogen dioxide (the chemical compound containing one atom of nitrogen and two atoms of oxygen), nitric oxide (the chemical compound containing one atom of nitrogen and one atom of oxygen), and other oxides of nitrogen which may test as nitrogen dioxide and is sometimes referred to as NOx or NOx. (20.2.2 NMAC)

H. **"Potential Emission Rate"** or "PER" means the emission rate of a source at its maximum capacity to emit a regulated air contaminant under its physical and operational design, provided any physical or operational limitation on the capacity of the source to emit a regulated air contaminant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its physical and operational design only if the limitation or the effect it would have on emissions is enforceable by the department pursuant to the Air Quality Control Act or the federal Act.

I. **"Produced Water"** means water that is extracted from the earth from an oil or natural gas production well, or that is separated from crude oil, condensate, or natural gas after extraction.

J. **"Property Boundary"** means the outside edge of the property, which includes all the equipment, registered under this Permit. The property may consist of one or more continuous and adjacent properties if they are owned, leased, or under direct control of the owner or operator.

K. **"SSM"**, for requirements under 20.2.7 NMAC, means routine or predictable startup, shutdown, or scheduled maintenance.

L. **"Shutdown"**, for requirements under 20.2.7 NMAC, means the cessation of operation of any air pollution control equipment or process equipment.

M. **"Startup"**, for requirements under 20.2.7 NMAC, means the setting into operation of any air pollution control equipment or process equipment.

N. **"Storage Vessel"** means a tank or other vessel that contains an accumulation of crude oil, condensate, intermediate hydrocarbon liquids, or produced water, and that is constructed primarily of nonearthen materials (such as wood, concrete, steel, fiberglass, or plastic) which provide structural support.

O. **"Thermal Oxidizer"** means a combustion device that eliminates VOC, CO, and volatile HAP emissions by combusting them to carbon dioxide (CO2) and water. The device maintains a minimum temperature in the combustion chamber to eliminate pollutants.

P. **"Vapor Recovery Unit (VRU)"** means a unit capable of collecting hydrocarbon vapors and gases and routing such hydrocarbon vapors and gases back into the process or to a sales pipeline.

## D102 Acronyms

2SLB ..... 2-stroke lean burn
4SLB ..... 4-stroke lean burn
4SRB ..... 4-stroke rich burn
acfm ..... actual cubic feet per minute
AFR ..... air fuel ratio
AP-42 ..... EPA Air Pollutant Emission Factors
AQB ..... Air Quality Bureau
AQCR ..... Air Quality Control Region
ASTM ..... American Society for Testing and Materials
BTU ..... British ThermalUnit
CAA ..... Clean Air Act of 1970 and 1990 Amendments
CEM ..... continuous emissions monitoring
cfh ..... cubic feet per hour
cfm ..... cubic feet per minute
CFR ..... Code of Federal Regulation
CI ..... compression ignition
CO ..... carbon monoxides
COMS ..... continuous opacity monitoring system
EIB ..... Environmental Improvement Board
EPA ..... United States Environmental Protection Agency
gr./100 cf ..... grains per one hundred cubic feet
gr./dscf ..... grains per dry standard cubic foot
GRI ..... Gas Research Institute
HAP ..... hazardous air pollutant
hp ..... horsepower
$H_2S$ ..... hydrogen sulfide
IC ..... internal combustion
KW/hr ..... kilowatts per hour
lb/hr ..... pounds per hour
lb/MMBtu ..... pounds per million British Thermal Unit
MACT ..... Maximum Achievable Control Technology
MMcf/hr ..... million cubic feet per hour
MMscf ..... million standard cubic feet
N/A ..... not applicable
NAAQS ..... National Ambient Air Quality Standards
NESHAP ..... National Emission Standards for Hazardous Air Pollutants
NG ..... natural gas

NGL ..... natural gas liquids
NMAAQS .....New Mexico Ambient Air Quality Standards
NMAC..... New Mexico Administrative Code
NMED.....New Mexico Environment Department
NMSA.....New Mexico Statues Annotated
NOx.....nitrogen oxides
NSCR.....non-selective catalytic reduction
NSPS..... New Source Performance Standard
NSR.....New Source Review
PEM .....parametric emissions monitoring
PM..... particulate matter (equivalent to TSP, total suspended particulate)
$PM_{10}$ .....particulate matter 10 microns and less in diameter
$PM_{2.5}$ .....particulate matter 2.5 microns and less in diameter
pph.....pounds per hour
ppmv ..... parts per million by volume
PSD .....Prevention of Significant Deterioration
RATA.....Relative Accuracy Test Assessment
RICE .....reciprocating internal combustion engine
rpm ..... revolutions per minute
scfm.....standard cubic feet per minute
SI ..... spark ignition
$SO_2$ ..... sulfur dioxide
SSM.....Startup Shutdown Maintenance (see SSM definition)
TAP ..... Toxic Air Pollutant
TBD.....to be determined
THC.....total hydrocarbons
TSP..... Total Suspended Particulates
tpy .....tons per year
ULPS..... ultra low pressure separator
ULSD .....ultra low sulfur diesel
USEPA..... United States Environmental Protection Agency
UTM.....Universal Transverse Mercator Coordinate system
UTMH.....Universal Transverse Mercator Horizontal
UTMV.....Universal Transverse Mercator Vertical
VHAP.....volatile hazardous air pollutant
VOC ..... volatile organic compounds
VRT..... vapor recovery tower
VRU ..... vapor recovery unit

# APPENDIX M. GCP-O&G # 8851

**Acknowledgements Section - EOG - Bandit Compressor Station**

**Construction Status** Existing Permitted (or NOI) Facility

☑ I acknowledge that a pre-application meeting is available to me upon request.

☑ For new registrations or modifications, a check for the registration fee will be sent to the Department for ten fee points for GCP-O&G or $500 for NOIs. We cannot begin processing your action until the full fee is received by the Department. You will receive an email when your action is assigned for review.

☑ There is an annual fee for GCP-O&G in addition to the registration fee: www.env.nm.gov/air-quality/permit-fees-2/ (No annual fee for NOIs. (Facilities qualifying as a 'small business' under 20.2.75.7.F NMAC qualify for reduced fees, provided that NMED has a Small Business Certification Form from your company on file. This form can be found at: www.env.nm.gov/aqb/sbap/Small_Business_Forms.html)

☑ There are required attachments in addition to inputting data in the program. I will include the required attachments.

**1.** Is the facility located in Bernalillo County, on tribal lands, or in a nonattainment area?
○ Yes ◉ No

**2.** Is the facility's SIC code 1311, 1321, 4619, 4612 or 4922? (Other SIC codes may be approved provided that all the equipment at the facility is allowed in the GCP-Oil & Gas Permit. Non-Oil and Gas NOIs should use the paper Universal Application.
◉ Yes ○ No

**GCP-O&G Acknowledgements and Applicability**

Do not use Portal for administrative changes identified in the GCP O&G Permit Condition C101.A. Please use the Permitting Administrative Multiform to submit these requests to the department by mail. www.env.nm.gov/air-quality/air-quality-permit-applications-forms-and-related-information/

☑ The emissions specified in this Registration Form will establish the emission limits in the GCP-Oil and Gas.

**1.** This is a GCP-Oil and Gas Registration Form for an existing facility currently operating under GCP-1 or GCP-4? (No fee required)
◉ No ○ Yes

**2.** Does the regulated equipment under this GCP-Oil and Gas Registration include any combination of Allowable Equipment listed in Table 104 of the GCP Oil & Gas Permit, and no others?
◉ Yes ○ No

**3.** Will the regulated equipment as specified in this GCP-Oil and Gas Registration emit less than the total emissions in Table 106 of the GCP-Oil and Gas permit?
◉ Yes ○ No

**4.** Does all equipment comply with the stack parameter requirements as established in the GCP-Oil and Gas Permit?
◉ Yes ○ No

**5.** Equipment shall be at least 100 meters (m) from any stack to terrain that is five (5) or more meters above the top of the stack. Will the equipment at the facility meet this terrain requirement?
◉ Yes ○ No

**6.** Is the facility at least 150 m from any source that emits over 25 tons/year of NOx? This is the distance between the two nearest stacks that emit NOx at each of the facilities. Not the facility boundaries or the center to center distances.
◉ Yes ○ No

**7.** Is the facility at least 3 miles from any Class I area? This is the distance from the nearest facility boundary to the nearest boundary of the Class I area.
◉ Yes ○ No

| Mail Application To: | | For Department use only: |
|---|---|---|
| New Mexico Environment Department<br>Air Quality Bureau<br>Permitting Section<br>525 Camino de los Marquez, Suite 1<br>Santa Fe, NM 87505-1816<br><br>Phone: (505) 476-4300<br>Fax: (505) 476-4375<br>www.nmenv.state.nm.us/aqb | | AIRS No.:_____ |

# Electronic Permitting Application

**Use this application for NOI and GCP-Oil and Gas Permits.**

Use this application for: the initial application, modifications, revisions and when converting from another permit type. Please fill out all sections so that they have check marks and attach all required documents for review. Coordination with AQB is encouraged for first time users. Please use the Request NMED Support button if you would like to set up a walk through.

## Section 1 - Facility Information

**Section 1-A: Company Information - EOG - Bandit Compressor Station**
**Last modified by Espinoza, Cynthia on 01-AUG-22.**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | **Facility Name:** EOG - Bandit Compressor Station | | | | AI # (if known): 39575 | Updating permit #: |
| a | SIC Code: 1311 - Crude petroleum and natural gas<br>NAICS Code: 21113 - Natural Gas Extraction<br>Facility Type: Select One  Secondary Facility Type: Select One | | | | Reset Selections | |
| 2 | **Company Name (Owns facility):** EOG Resources Inc - Midland Division | | | | Phone: 432-231-2471 | Fax: |
| a | Mailing Address: 5509 Champions Drive | Address 2: | City: Midland | State: Texas | ZIP Code: 79706 | |
| 3 | **Billing Party:** EOG Resources Inc - Midland Division<br>Select an organization | | | | Phone: 432-231-2471 | Fax: |
| a | Mailing Address: 5509 Champions Drive | Address 2: | City: Midland | State: Texas | ZIP Code: 79706 | |
| 4 | **Consultant Company:** Select an organization | | | | Phone: | Fax: |
| a | Mailing Address: | Address 2: | City: | State: | ZIP Code: | |
| 5 | **Consultant Contact:**<br>First Name: M.I.: Last Name: Title: | | | | Phone: Fax:<br>Email: | |
| a | Mailing Address: | Address 2: | City: | State: | ZIP Code: | |
| 6 | **Plant Operator Company:** EOG Resources Inc - Midland Division<br>Select an organization | | | | | |
| a | Plant Operator Company Address: 5509 Champions Drive | Address 2: | City: Midland | State: Texas | ZIP Code: 79706 | |
| b | **Plant Operator Contact:**<br>First Name: Cynthia M.I.: Last Name: Espinoza Title: Engineer | | | | Phone: 432-231-2471 Fax:<br>Email: cynthia_espinoza@eogresources.com | |
| c | Mailing Address: 5509 Champions Drive | Address 2: | City: Midland | State: Texas | ZIP Code: 79706 | |
| 7 | **Air Permit:** Select a person | | | | | |
| a | **Air Permit Contact:**<br>First Name: Cynthia M.I.: Last Name: Espinoza Title: Engineer | | | | Phone: 432-231-2471 Fax:<br>Email: cynthia_espinoza@eogresources.com | |
| b | Mailing Address: 5509 Champions Drive | Address 2: | City: Midland | State: Texas | ZIP Code: 79706 | |

**Comments** (2000 character maximum)

**Section 1-C: Facility Input Capacity & Production Rate - EOG - Bandit Compressor Station**
**Last modified by Espinoza, Cynthia on 01-AUG-22.**

Enter the maximum hourly, daily, and annual throughput of oil, gas, natural gas liquids (NGL), and produced water.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **OIL** | | | | | | | |
| a | Current: | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | 10.90 bbl/h | Daily: | 262 bbl/d | Annually: | 95630 | bbl/y |
| 2 | **Natural Gas** | | | | | | | |
| a | Current | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | 4.17 MM SCF/h | Daily: | 100 MM SCF/d | Annually: | 36500 | MM SCF/y |
| 3 | **Natural Gas Liquids** | | | | | | | |
| a | Current | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | | Daily: | | Annually: | | |
| 4 | **Produced Water** | | | | | | | |
| a | Current | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | 2.21 bbl/h | Daily: | 53 bbl/d | Annually: | 19345 | bbl/y |

**Comments** (2000 character maximum)

**Section 1-D: Facility Location Information - EOG - Bandit Compressor Station**
**Last modified by Espinoza, Cynthia on 01-AUG-22.**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Section: | Range: | Township: | County: Lea | Elevation (ft): 3550 |
| 2 | UTM Zone: ○ 12 or ◉ 13 | | | Datum: ○ NAD 27 ○ NAD 83 ◉ WGS 84 | |
| a | UTM E (in meters, to nearest 10 meters): 630460 | | | UTM N (in meters, to nearest 10 meters): 3560710 | |
| b | Latitude: 32.1753 dec deg. N | | | Longitude: -103.6162 dec deg. W | |
| 3 | Facility/Plant Address: 24.4 mi W of Jal (If no facility street address, leave blank) | City: Jal | State: New Mexico | ZIP Code: 88252 | District: 004 / Field Office: Select one |
| 4 | The facility is 24.4 miles W of Jal (nearest town). | | | | |
| 5 | Detailed Driving Instructions from nearest NM town (attach a road map if necessary): The facility is 24.4 miles west of Jal, New Mexico, Lea County | | | | |
| 6 | Status of land at facility: State | | | | |
| 7 | Select nearest Class I area: Class I - Carlsbad Caverns National Park | | | | |
| 8 | Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 44.2 km | | | | |
| 9 | Is this a portable stationary source as defined in 20.2.72.7.X NMAC? ○ Yes ◉ No | | | | |
| 10 | Will this facility operate in conjunction with other air regulated parties on the same property? ○ Yes ◉ No<br>If yes, what is the name and permit number (if known) of the other facility? | | | | |

**Comments** (2000 character maximum)

## Section 1-E: Proposed Operating Schedule - EOG - Bandit Compressor Station

**Last modified by Espinoza, Cynthia on 01-AUG-22.**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Facility **maximum** operating (hours/day): 24 | days/week: 7 | weeks/year: 52 | hours/year: 8760 | |
| 2 | Facility's maximum daily operating schedule (if less than 24 hours/day)? Start Time: | | End Time: | | |
| 3 | Month and year of anticipated start of construction (mm/yyyy): | | | | |
| 4 | Month and year of anticipated construction completion (mm/yyyy): | | | | |
| 5 | Month and year of anticipated startup of new or modified facility (mm/yyyy): | | | | |
| 6 | Will this facility operate at this site for more than one year? ◉ Yes ○ No | | | | |

The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.

**Comments** (2000 character maximum)

**Last modified by Espinoza, Cynthia on 01-AUG-22.**

| **Section 1-F - Current Facility Status - EOG - Bandit Compressor Station** | | | |
|---|---|---|---|
| 1 | Has this Facility already been constructed?<br>(•) Yes ( ) No | If yes, is it currently operating in New Mexico?<br>(•) Yes ( ) No | |
| 2 | Does this facility currently have a construction permit or Notice of Intent (NOI) (20.2.72 NMAC or 20.2.73 NMAC)?<br>(•) Yes ( ) No | If yes, the permit No or NOI No:<br>8851 | Will it remain active or not:<br>(•) Yes ( ) No |
| 3 | Is this Registration in response to a Notice of Violation (NOV)?<br>( ) Yes (•) No<br>If so, provide current permit #: | If yes,NOV date: | NOV tracking No: |
| 4 | Facility is Synthetic Minor greater than 80% (SM80) i.e, Controlled Emissions > 80 TPY of any regulated air pollutant) | | |

**Comments** (2000 character maximum)

## Table 2-A: Regulated Emission Sources

| Edit | NMED SI ID | Category Type | NMED SI Status | Unit Number[1] | Source Description | Manufacturer | Model # | Serial # | Rated Capacity[3] | Permitted Capacity[3] | Date[2] of Manufacture or Reconstruction / Date[2] of Installation /Construction | Controlled by Unit # Emissions vented to Stack # | Source Classification Code (SCC) | Disposition | Applicable State & Federal Regulation(s) (i.3. 20.x.x, JJJJ, ...) | Complete | Replicate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | EQPT-18 | Equipment Glycol Dehy Still Vent/Flash Tank | Active 06/25/2020 | DEHY | Glycol Dehydrator/100 MMSCFD | TBD | TBD | TBD | 100.00 MM SCF/d | 100.00 MM SCF/d | | | 3-10-003-01 | Existing (unchanged) | 40 CFR 63 Subpart HH | ☑ | Replicate |
| Edit | EQPT-1 | Equipment Internal combustion engine | Active 06/25/2020 | ENG-1 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | XH701515 | 2500.00 hp | 2500.00 hp | 03/01/20 12/10/20 | | 2-02-002-54 | Existing (unchanged) | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-2 | Equipment Internal combustion engine | Active 06/25/2020 | ENG-2 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | TBD | 2500.00 hp | 2500.00 hp | | | 2-02-002-54 | To Be Removed | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ, 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-3 | Equipment Internal combustion engine | Active 06/25/2020 | ENG-3 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | TBD | 2500.00 hp | 2500.00 hp | | | 2-02-002-54 | To Be Removed | 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-4 | Equipment Internal combustion engine | Active 06/25/2020 | ENG-4 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | TBD | 2500.00 hp | 2500.00 hp | | | 2-02-002-54 | To Be Removed | 40 CFR 60 Subpart JJJJ, 40 CFR 60 Subpart OOOOa, 40 CFR 63 Subpart ZZZZ | ☑ | Replicate |
| Edit | EQPT-5 | Equipment Internal combustion engine | Active 06/25/2020 | ENG-5 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | TBD | 2500.00 hp | 2500.00 hp | | | 2-02-002-54 | To Be Removed | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ, 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-6 | Equipment Internal combustion engine | Active 06/25/2020 | ENG-6 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | TBD | 2500.00 hp | 2500.00 hp | | | 2-02-002-54 | To Be Removed | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ, 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-7 | Equipment Internal combustion engine | Active 06/25/2020 | ENG-7 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | TBD | 2500.00 hp | 2500.00 hp | | | 2-02-002-54 | To Be Removed | 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-8 | Equipment Internal combustion engine | Active 06/25/2020 | ENG-8 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | TBD | 2500.00 hp | 2500.00 hp | | | 2-02-002-54 | To Be Removed | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ, 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-9 | Equipment Internal combustion engine | Active 06/25/2020 | ENG-9 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | TBD | 2500.00 hp | 2500.00 hp | | | 2-02-002-54 | To Be Removed | 40 CFR 60 Subpart JJJJ, 40 CFR 60 Subpart OOOOa, 40 CFR 63 Subpart ZZZZ | ☑ | Replicate |
| Edit | EQPT-17 | Equipment Process Flare | Active 06/25/2020 | FL-1 | Process Flare | Zeeco | TBD | TBD | 3.00 MM SCF/d | 3.00 MM SCF/d | | | 3-10-002-05 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | RPNT-1 | Release Point Fugitives | Active 06/25/2020 | FUG | Fugitive Emissions | N/A | N/A | N/A | | | | | 3-10-888-11 | Existing (unchanged) | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-20 | Equipment Process Heater | Active 06/25/2020 | HTR-1 | Heater Treater | TBD | TBD | TBD | 2 MM BTU/h | 2 MM BTU/h | | | 3-10-004-04 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-16 | Equipment Loading/Unloading Rack | Active 06/25/2020 | Load | Condensate and Water Loading | N/A | N/A | N/A | 316 bbl/d | 316 bbl/d | | | 4-04-002-50 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | RPNT-3 | Release Point Fugitives | Active 06/25/2020 | MALF | Malfunction | NA | NA | NA | | | | | 3-10-888-11 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-19 | Equipment Glycol Dehy Reboiler Burner | Active 06/25/2020 | RBL-1 | Dehy Reboiler 2.0 MM BTU/h | TBD | TBD | TBD | 2.00 MM BTU/h | 2.00 MM BTU/h | | | 3-10-003-02 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | RPNT-2 | Release Point Fugitives | Active 06/25/2020 | SSM | Start-up, Shutdown, & Maintenance | NA | NA | NA | | | | | 3-10-888-11 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-10 | Equipment Tank - Above Ground | Active 06/25/2020 | TK-1 | Condensate Tank | TBD | TBD | TBD | 750.00 bbl | 750.00 bbl | | | 4-04-003-12 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-11 | Equipment Tank - Above Ground | Active 06/25/2020 | Tank-2 | Condensate Tank, 400-bbl | N/A | N/A | N/A | 400.00 bbl | 114605.24 gal/y | | | 4-04-003-12 | To Be Removed | NA | ☑ | Replicate |
| Edit | EQPT-12 | Equipment Tank - Above Ground | Active 06/25/2020 | Tank-3 | Condensate Tank, 400-bbl | N/A | N/A | N/A | 400.00 bbl | 114605.24 gal/y | | | 4-04-003-12 | To Be Removed | NA | ☑ | Replicate |
| Edit | EQPT-13 | Equipment Tank - Above Ground | Active 06/25/2020 | Tank-4 | Condensate Tank, 400-bbl | N/A | N/A | N/A | 400.00 bbl | 114605.24 gal/y | | | 4-04-003-12 | To Be Removed | NA | ☑ | Replicate |
| Edit | EQPT-14 | Equipment Tank - Above Ground | Active 06/25/2020 | Tank-5 | Produced water Tank, 400-bbl | N/A | N/A | N/A | 400.00 bbl | 1020696.80 gal/y | | | 4-04-003-15 | To Be Removed | NA | ☑ | Replicate |
| Edit | EQPT-15 | Equipment Tank - Above Ground | Active 06/25/2020 | Tank-6 | Produced water Tank, 400-bbl | N/A | N/A | N/A | 400.00 bbl | 1020696.80 gal/y | | | 4-04-003-15 | To Be Removed | NA | ☑ | Replicate |
| Edit | EQPT-0 | Equipment Internal combustion engine | New | ENG-2 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | XH701514 | 2500.00 hp | 2500.00 hp | 03/01/20 12/10/20 | | 2-02-002-54 | New/Additional | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-0 | Equipment Internal combustion engine | New | ENG-3 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | XH701513 | 2500.00 hp | 2500.00 hp | 03/01/20 12/10/20 | | 2-02-002-54 | New/Additional | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-0 | Equipment Internal combustion engine | New | ENG-4 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | XH701435 | 2500.00 hp | 2500.00 hp | 10/01/19 10/20/20 | | 2-02-002-54 | New/Additional | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-0 | Equipment Internal combustion engine | New | ENG-5 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | XH701429 | 2500.00 hp | 2500.00 hp | 10/01/19 10/20/20 | | 2-02-002-54 | New/Additional | 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ | ☑ | Replicate |
| Edit | EQPT-0 | Equipment Internal combustion engine | New | ENG-6 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | XH701446 | 2500.00 hp | 2500.00 hp | 10/01/19 10/21/20 | | 2-02-002-54 | New/Additional | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | EQPT-0 | Equipment<br>Internal combustion engine | New | ENG-7 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | XH701462 | 2500.00 hp | 2500.00 hp | 11/01/19<br>10/21/20 | | 2-02-002-54 | New/Additional | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-0 | Equipment<br>Internal combustion engine | New | ENG-8 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | XH701486 | 2500.00 hp | 2500.00 hp | 12/01/19<br>10/22/20 | | 2-02-002-54 | New/Additional | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-0 | Equipment<br>Internal combustion engine | New | ENG-9 | Caterpillar G3608LE 2500hp | Caterpillar | G3608 LE | XH701237 | 2500.00 hp | 2500.00 hp | 03/01/19<br>10/22/20 | | 2-02-002-54 | New/Additional | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-0 | Equipment<br>Tank - Above Ground | New | TK-2 | Condensate Tank | TBD | TBD | TBD | 750.00 bbl | 750.00 bbl | | | 4-04-003-12 | New/Additional | NA | ☑ | Replicate |
| Edit | EQPT-0 | Equipment<br>Tank - Above Ground | New | TK-3 | Condensate Tank | TBD | TBD | TBD | 750.00 bbl | 750.00 bbl | | | 4-04-003-12 | New/Additional | NA | ☑ | Replicate |
| Edit | EQPT-0 | Equipment<br>Tank - Above Ground | New | TK-4 | Produced Water Tank | TBD | TBD | TBD | 750.00 bbl | 750.00 bbl | | | 4-04-003-15 | New/Additional | NA | ☑ | Replicate |

Add a New Regulated Source

[1] Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.
[2] Specify dates required to determine regulatory applicability. If only year or month is known use 01/01/yyyy or mm/01/yyyy.
[3] To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

## Table 2C - Emissions Reduction Equipment

☐ **This Table was intentionally left blank.**

In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions. **Also include reductions from process equipment in this table. Entering process equipment in this table is for data entry purposes only, the process vs control analysis will be used to determine process or control status for VRUs.** Only list control equipment for TAPs if the TAPs maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B.

| Edit | Reduction Equipment Unit No. | Reduction Equipment Description | Date Installed (mm/dd/yyyy). | Reduced Pollutants | Reducing Emissions for Unit Numbers | Efficiency (% Reduction by Weight) | Method used to estimate reduction | Reduction Type | Complete |
|---|---|---|---|---|---|---|---|---|---|
| Edit | FL-1 | Flare | | Total HAP | DEHY | 98 | Design calculation | SECONDARY | ☑ |
| Edit | Cond | BTEX Condenser/Incinerator | | Volatile Organic Compounds (VOC) | DEHY | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Volatile Organic Compounds (VOC) | DEHY | 98 | Design calculation | SECONDARY | ☑ |
| Edit | Cond | BTEX Condenser/Incinerator | | Total HAP | DEHY | 98 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Carbon Monoxide | ENG-1 | 93 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Formaldehyde | ENG-1 | 80 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-1 | 70 | Design calculation | PRIMARY | ☑ |
| Edit | | Catalytic Oxidation | | Total HAP | ENG-1 | | Design calculation | PRIMARY | |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | Load | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Total HAP | Load | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Hydrogen sulfide (NMAAQ) | Load | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Volatile Organic Compounds (VOC) | TK-1 | 98 | Process Simulator | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Total HAP | TK-1 | 98 | Process Simulator | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Hydrogen sulfide (NMAAQ) | TK-1 | 98 | Process Simulator | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Carbon Monoxide | ENG-2 | 93 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Formaldehyde | ENG-2 | 80 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-2 | 70 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Formaldehyde | ENG-3 | 80 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-3 | 70 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Carbon Monoxide | ENG-3 | 93 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Formaldehyde | ENG-4 | 80 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-4 | 70 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Carbon Monoxide | ENG-4 | 93 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Carbon Monoxide | ENG-5 | 93 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Formaldehyde | ENG-5 | 80 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-5 | 70 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Carbon Monoxide | ENG-6 | 93 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Formaldehyde | ENG-6 | 80 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-6 | 70 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-7 | 70 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Carbon Monoxide | ENG-7 | 93 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Formaldehyde | ENG-7 | 80 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Carbon Monoxide | ENG-8 | 93 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Formaldehyde | ENG-8 | 80 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-8 | 70 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Carbon Monoxide | ENG-9 | 93 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Formaldehyde | ENG-9 | 80 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-9 | 70 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Total HAP | TK-2 | 98 | Process Simulator | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Hydrogen sulfide (NMAAQ) | TK-2 | 98 | Process Simulator | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Volatile Organic Compounds (VOC) | TK-2 | 98 | Process Simulator | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Volatile Organic Compounds (VOC) | TK-3 | 98 | Process Simulator | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Total HAP | TK-3 | 98 | Process Simulator | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Hydrogen sulfide (NMAAQ) | TK-3 | 98 | Process Simulator | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Volatile Organic Compounds (VOC) | TK-4 | 98 | Process Simulator | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Total HAP | TK-4 | 98 | Process Simulator | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Hydrogen sulfide (NMAAQ) | TK-4 | 98 | Process Simulator | PRIMARY | ☑ |

Add Reduction Equipment for Unit [Select one] Add

How to complete the table: In the drop down, select regulated sources from Table 2A where emissions are reduced and click "Add." Then add reduced pollutants and associated reduction devices for each. If a pollutant has emissions reduced by more than one device please add a line for each device and label them as primary, secondary, tertiary. Click "Edit" to update reduced pollutants and devices for each regulated source.

Comments (4000 character maximum)

**List each reduction device and all sources they serve, e.g. FL-1: Oil tanks 1-4, loading, VRU downtime. FL-2: compressor and sales downtime. For NOIs, indicate the enforceability behind each device or clarify if it is voluntary and no credit is being claimed for the reduction, e.g., FL-1: Oil tanks 1-8 (OOOOa). FL-1: Loading (voluntary, no emissions reduction credit claimed.)**

FL-1: TK-1 thru TK-4, DEHY, VRU downtime, LOAD
Cat: ENG-1 thru ENG-9

## *Table 2-D: Maximum Emissions* (under normal operating conditions)

**This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | **EQPT-18** | **Active 06/25/2020** | DEHY | - | - | - | - | 67.5 | 296 | - | - | - | - | - | - | 0.030 | 0.13 | - | - | ☑ |
| Edit | **EQPT-1** | **Active 06/25/2020** | ENG-1 | 1.65 | 7.24 | 19.04 | 85.1 | 6.44 | 28.2 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | **EQPT-17** | **Active 06/25/2020** | FL-1 | 0.017 | 0.076 | 0.035 | 015 | 0.033 | 0.15 | 0.0002 | 0.001 | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | **RPNT-1** | **Active 06/25/2020** | FUG | - | - | - | - | 1.02 | 4.46 | - | - | - | - | - | - | 0 | 0.0001 | - | - | ☑ |
| Edit | **EQPT-20** | **Active 06/25/2020** | HTR-1 | 0.20 | 0.86 | 0.17 | 0.72 | 0.011 | 0.047 | 0.003 | 0.015 | 0.015 | 0.065 | 0.015 | 0.065 | 0 | 0.0001 | - | - | ☑ |
| Edit | **EQPT-16** | **Active 06/25/2020** | Load | - | - | - | - | 2.74 | 12 | - | - | - | - | - | - | 0.0001 | 0.0006 | - | - | ☑ |
| Edit | **RPNT-3** | **Active 06/25/2020** | MALF | - | - | - | - | - | 1 | - | - | - | - | - | - | 3 | 2 | - | - | ☑ |
| Edit | **EQPT-19** | **Active 06/25/2020** | RBL-1 | 0.20 | 0.86 | 0.17 | 0.72 | 0.011 | 0.047 | 0.003 | 0.015 | 0.015 | 0.065 | 0.015 | 0.065 | 0 | 0.0001 | - | - | ☑ |
| Edit | **RPNT-2** | **Active 06/25/2020** | SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-10** | **Active 06/25/2020** | TK-1 | - | - | - | - | 15.7 | 68.8 | - | - | - | - | - | - | 0.0004 | 0.002 | - | - | ☑ |
| Edit | **new** | **New** | ENG-2 | 1.65 | 7.24 | 19.04 | 85.1 | 6.44 | 28.2 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | **new** | **New** | ENG-3 | 1.65 | 7.24 | 19.04 | 85.1 | 6.44 | 28.2 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | **new** | **New** | ENG-4 | 1.65 | 7.24 | 19.04 | 85.1 | 6.44 | 28.2 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | **new** | **New** | ENG-5 | 1.65 | 7.24 | 19.04 | 85.1 | 6.44 | 28.2 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | **new** | **New** | ENG-6 | 1.65 | 7.24 | 19.04 | 85.1 | 6.44 | 28.2 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | **new** | **New** | ENG-7 | 1.65 | 7.24 | 19.04 | 85.1 | 6.44 | 28.2 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | **new** | **New** | ENG-8 | 1.65 | 7.24 | 19.04 | 85.1 | 6.44 | 28.2 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | **new** | **New** | ENG-9 | 1.65 | 7.24 | 19.04 | 85.1 | 6.44 | 28.2 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | **new** | **New** | TK-2 | - | - | - | - | 15.7 | 68.8 | - | - | - | - | - | - | 0.0004 | 0.002 | - | - | ☑ |
| Edit | **new** | **New** | TK-3 | - | - | - | - | 15.7 | 68.8 | - | - | - | - | - | - | 0.0004 | 0.002 | - | - | ☑ |
| Edit | **new** | **New** | TK-4 | - | - | - | - | 0.70 | 3.05 | - | - | - | - | - | - | 0.0004 | 0.002 | - | - | ☑ |
| | | | **Totals** | 15.27 | 66.96 | 171.73 | 782.34 | 177.07 | 776.95 | 0.23 | 1.02 | 1.56 | 6.88 | 1.56 | 6.88 | 3.03 | 2.14 | 0.0 | 0.0 | |

**[1] Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**Comments** (2000 character maximum)

## Table 2-E: Requested Allowable Emissions

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Facility totals are a summation of all the emissions entered for equipment in this table plus total tpy SSM emissions from Table 2F.
**GCP-O&G:** Combustion emissions from malfunction events are not allowed under this permit.

**NOI:** Malfunction emissions are not allowed under a Notice of Intent.

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | EQPT-18 | Active 06/25/2020 | DEHY | - | - | - | - | 0 | 0 | - | - | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | EQPT-1 | Active 06/25/2020 | ENG-1 | 1.65 | 7.24 | 1.70 | 7.45 | 1.93 | 8.47 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | EQPT-17 | Active 06/25/2020 | FL-1 | 0.28 | 1.23 | 0.56 | 2.45 | 1.58 | 6.93 | 0.040 | 0.17 | - | - | - | - | 0.0004 | 0.002 | - | - | ☑ |
| Edit | RPNT-1 | Active 06/25/2020 | FUG | - | - | - | - | 1.02 | 4.46 | - | - | - | - | - | - | 0 | 0.0001 | - | - | ☑ |
| Edit | EQPT-20 | Active 06/25/2020 | HTR-1 | 0.20 | 0.86 | 0.17 | 0.72 | 0.011 | 0.047 | 0.003 | 0.015 | 0.015 | 0.065 | 0.015 | 0.065 | 0 | 0.0001 | - | - | ☑ |
| Edit | EQPT-16 | Active 06/25/2020 | Load | - | - | - | - | 0 | 0 | - | - | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | RPNT-3 | Active 06/25/2020 | MALF | - | - | - | - | - | 1 | - | - | - | - | - | - | 3 | 2 | - | - | ☑ |
| Edit | EQPT-19 | Active 06/25/2020 | RBL-1 | 0.20 | 0.86 | 0.21 | 0.72 | 0.011 | 0.047 | 0.003 | 0.015 | 0.015 | 0.065 | 0.015 | 0.065 | 0 | 0.0001 | - | - | ☑ |
| Edit | RPNT-2 | Active 06/25/2020 | SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-10 | Active 06/25/2020 | TK-1 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | new | New | ENG-2 | 1.65 | 7.24 | 1.70 | 7.45 | 1.93 | 8.47 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | new | New | ENG-3 | 1.65 | 7.24 | 1.70 | 7.45 | 1.93 | 8.47 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | new | New | ENG-4 | 1.65 | 7.24 | 1.70 | 7.45 | 1.93 | 8.47 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | new | New | ENG-5 | 1.65 | 7.24 | 1.70 | 7.45 | 1.93 | 8.47 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | new | New | ENG-6 | 1.65 | 7.24 | 1.70 | 7.45 | 1.93 | 8.47 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | new | New | ENG-7 | 1.65 | 7.24 | 1.70 | 7.45 | 1.93 | 8.47 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | new | New | ENG-8 | 1.65 | 7.24 | 1.70 | 7.45 | 1.93 | 8.47 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | new | New | ENG-9 | 1.65 | 7.24 | 1.70 | 7.45 | 1.93 | 8.47 | 0.025 | 0.11 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | new | New | TK-2 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | new | New | TK-3 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | new | New | TK-4 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | 0 | 0 | - | - | ☑ |
| | | | SSM Totals | 0.02 | 0.08 | 0.04 | 0.16 | 0.07 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 2.0 | 0.0 | 0.0 | |
| | | | Totals | 15.55 | 68.19 | 16.28 | 71.1 | 20.06 | 92.01 | 0.27 | 1.19 | 1.56 | 6.88 | 1.56 | 6.88 | 6.0 | 4.0 | 0.0 | 0.0 | |

[1]**Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**Comments** (2000 character maximum)

## Table 2-F: Startup, Shutdown, and Routine Maintenance (SSM) Emissions

☐ **This table is intentionally left blank as all SSM emissions at this facility do not require an increase in Requested Allowables greater than those listed in Table 2-E.**

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)2, including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). Provide emissions calculations for all SSM emissions reported in this table. Refer to the guidance "Startup, Shutdown, Maintenance Emissions in Permits" (www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | EQPT-18 | Active 06/25/2020 | DEHY | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-1 | Active 06/25/2020 | ENG-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-17 | Active 06/25/2020 | FL-1 | 0.018 | 0.079 | 0.036 | 0.16 | 0.068 | 0.30 | 0.0007 | 0.003 | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | RPNT-1 | Active 06/25/2020 | FUG | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-20 | Active 06/25/2020 | HTR-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-16 | Active 06/25/2020 | Load | | | | | | | | | | | | | | | | | ☑ |
| Edit | RPNT-3 | Active 06/25/2020 | MALF | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-19 | Active 06/25/2020 | RBL-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | RPNT-2 | Active 06/25/2020 | SSM | - | - | - | - | - | 3 | - | - | - | - | - | - | 3 | 2 | - | - | ☑ |
| Edit | EQPT-10 | Active 06/25/2020 | TK-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | new | New | ENG-2 | | | | | | | | | | | | | | | | | ☑ |
| Edit | new | New | ENG-3 | | | | | | | | | | | | | | | | | ☑ |
| | new | New | ENG-4 | | | | | | | | | | | | | | | | | ☑ |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | **new** | **New** | ENG-5 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **new** | **New** | ENG-6 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **new** | **New** | ENG-7 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **new** | **New** | ENG-8 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **new** | **New** | ENG-9 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **new** | **New** | TK-2 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **new** | **New** | TK-3 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **new** | **New** | TK-4 | | | | | | | | | | | | | | | | | ☑ |
| | | | **Totals** | 0.018 | 0.079 | 0.036 | 0.16 | 0.068 | 3.3 | 0.001 | 0.003 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 2.0 | 0.0 | 0.0 | |

**[1]Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**[2]For instance, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in the table below. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.**

**Comments** (2000 character maximum)

## Table 2-H: Stack Exit Conditions

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Please enter the stack information for the original source, not the control or reduction equipment.

For equipment that doesn't have an actual stack or fugitive stack please just list it as having a default fugitive stack with a height of 10 ft. This field is required by our database.

| Edit | Stack Description | Serving Unit Number(s) from Table 2-A | Orientation (H=Horizontal V=Vertical) | Rain Caps (Yes or No) | Height Above Ground (ft) | Temp. (F) | Flow Rate (acfs) | Flow Rate (dscfs) | Moisture by Volume (%) | Velocity (ft/sec) | Inside Diameter (ft) | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | DEHY 100 MMSCFD | DEHY | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | ENG-1 Cat G3608 2500hp | ENG-1 | Vertical | No | 29 | 808 | 268 | | | 85.5 | 2 | ☑ |
| Edit | FL-1 | FL-1 | Vertical | No | 40 | 1832 | 56 | | | 25.8 | 1.67 | ☑ |
| Edit | FUG | FUG | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | HTR-1 | HTR-1 | Vertical | No | 20 | 600 | 13.7 | | | 0.48 | 6 | ☑ |
| Edit | LOAD | Load | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | MALF | MALF | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | RBL-1 | RBL-1 | Vertical | No | 20 | 600 | 13.7 | | | 0.48 | 6 | ☑ |
| Edit | SSM | SSM | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | TK-1 | TK-1 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | ENG-2 | ENG-2 | Vertical | No | 29 | 808 | 268 | | | 85.5 | 2 | ☑ |
| Edit | ENG-3 | ENG-3 | Vertical | No | 29 | 808 | 268 | | | 85.5 | 2 | ☑ |
| Edit | ENG-4 | ENG-4 | Vertical | No | 29 | 808 | 268 | | | 85.5 | 2 | ☑ |
| Edit | ENG-5 | ENG-5 | Vertical | No | 29 | 808 | 268 | | | 85.5 | 2 | ☑ |
| Edit | ENG-6 | ENG-6 | Vertical | No | 29 | 808 | 268 | | | 85.5 | 2 | ☑ |
| Edit | ENG-7 | ENG-7 | Vertical | No | 29 | 808 | 268 | | | 85.5 | 2 | ☑ |
| Edit | ENG-8 | ENG-8 | Vertical | No | 29 | 808 | 268 | | | 85.5 | 2 | ☑ |
| Edit | ENG-9 | ENG-9 | Vertical | No | 29 | 808 | 268 | | | 85.5 | 2 | ☑ |
| Edit | TK-2 | TK-2 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | TK-3 | TK-3 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | TK-4 | TK-4 | Fugitive | No | 24 | | | | | | | ☑ |

Add Stack Conditions to Select one Add

**Comments** (2000 character maximum)

## Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

☐ **By marking this table as intentionally left blank, you certify that the Total and individual HAPs for this facility are less than 1 ton per year.**

Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.

**GCPs:** Report the potential emission rate for each HAP from each HAP emitting emission unit listed in Table 2A. For each emission unit, HAPs shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Emissions less than 0.0001 lb/hr or 0.0001 tpy and emission units that do not emit HAPs shall be omitted from the table. Each facility-wide Individual HAP total and the facility-wide Total HAPs is the sum of all HAP sources entered in the Table. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAA. Include tank-flashing emission estimates of HAP in this table.

**NOIs:** Report the individual and/or Total HAPs for each piece of equipment in Table 2A, only if the facility total for that pollutant is greater than or equal to 1 tpy.

| Edit | Unit No. | Total HAPs | | Formaldehyde HAP | | Acetaldehyde; (Ethyl aldehyde) HAP | | Acrolein HAP | | Hexane HAP | | Benzene HAP | | Toluene; (Methyl benzene) HAP | | Ethylbenzene HAP | | Xylenes (total); (Xylol) HAP | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | DEHY | | 0 | | | | | | | | | | | | | | | | | ☑ |
| Edit | ENG-1 | 0.41 | 1.79 | 0.18 | 0.77 | 0.14 | 0.63 | 0.088 | 0.63 | | | | | | | | | | | ☑ |
| Edit | FL-1 | 0.002 | 0.008 | | | | | | | 0.002 | 0.007 | | | | | | | | | ☑ |
| Edit | FUG | 0.002 | 0.009 | | | | | | | | 0.002 | | 0.002 | | 0.002 | | 0.002 | | 0.002 | ☑ |
| Edit | MALF | | 1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | SSM | | 1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | TK-1 | 0.001 | 0.006 | | | | | | | | | | | 0.001 | 0.006 | | | | | ☑ |
| Edit | ENG-2 | 0.41 | 1.79 | 0.18 | 0.77 | 0.14 | 0.63 | 0.088 | 0.63 | | | | | | | | | | | ☑ |
| Edit | ENG-3 | 0.41 | 1.79 | 0.18 | 0.77 | 0.14 | 0.63 | 0.088 | 0.63 | | | | | | | | | | | ☑ |
| Edit | ENG-4 | 0.41 | 1.79 | 0.18 | 0.77 | 0.14 | 0.63 | 0.088 | 0.63 | | | | | | | | | | | ☑ |
| Edit | ENG-5 | 0.41 | 1.79 | 0.18 | 0.77 | 0.14 | 0.63 | 0.088 | 0.63 | | | | | | | | | | | ☑ |
| Edit | ENG-6 | 0.41 | 1.79 | 0.18 | 0.77 | 0.14 | 0.63 | 0.088 | 0.63 | | | | | | | | | | | ☑ |
| Edit | ENG-7 | 0.41 | 1.79 | 0.18 | 0.77 | 0.14 | 0.63 | 0.088 | 0.63 | | | | | | | | | | | ☑ |
| Edit | ENG-8 | 0.41 | 1.79 | 0.18 | 0.77 | 0.14 | 0.63 | 0.088 | 0.63 | | | | | | | | | | | ☑ |
| Edit | ENG-9 | 0.41 | 1.79 | 0.18 | 0.77 | 0.14 | 0.63 | 0.088 | 0.63 | | | | | | | | | | | ☑ |
| Edit | TK-2 | 0.001 | 0.006 | | | | | | | | | | | 0.001 | 0.006 | | | | | ☑ |
| Edit | TK-3 | 0.001 | 0.006 | | | | | | | | | | | 0.001 | 0.006 | | | | | ☑ |
| Edit | TK-4 | 0.001 | 0.004 | | | | | | | | | | 0.002 | 0.001 | 0.003 | | | | | ☑ |
| | **Totals** | 3.7 | 18.15 | 1.62 | 6.93 | 1.26 | 5.67 | 0.79 | 5.67 | 0.0 | 0.01 | 0.0 | 0.0 | 0.0 | 0.02 | 0.0 | 0.0 | 0.0 | 0.0 | |

Add Stack Emissions to Select one Add

**Comments** (2000 character maximum)

## Table 2-J: Fuel Usage

☐ **This Table was intentionally left blank.**

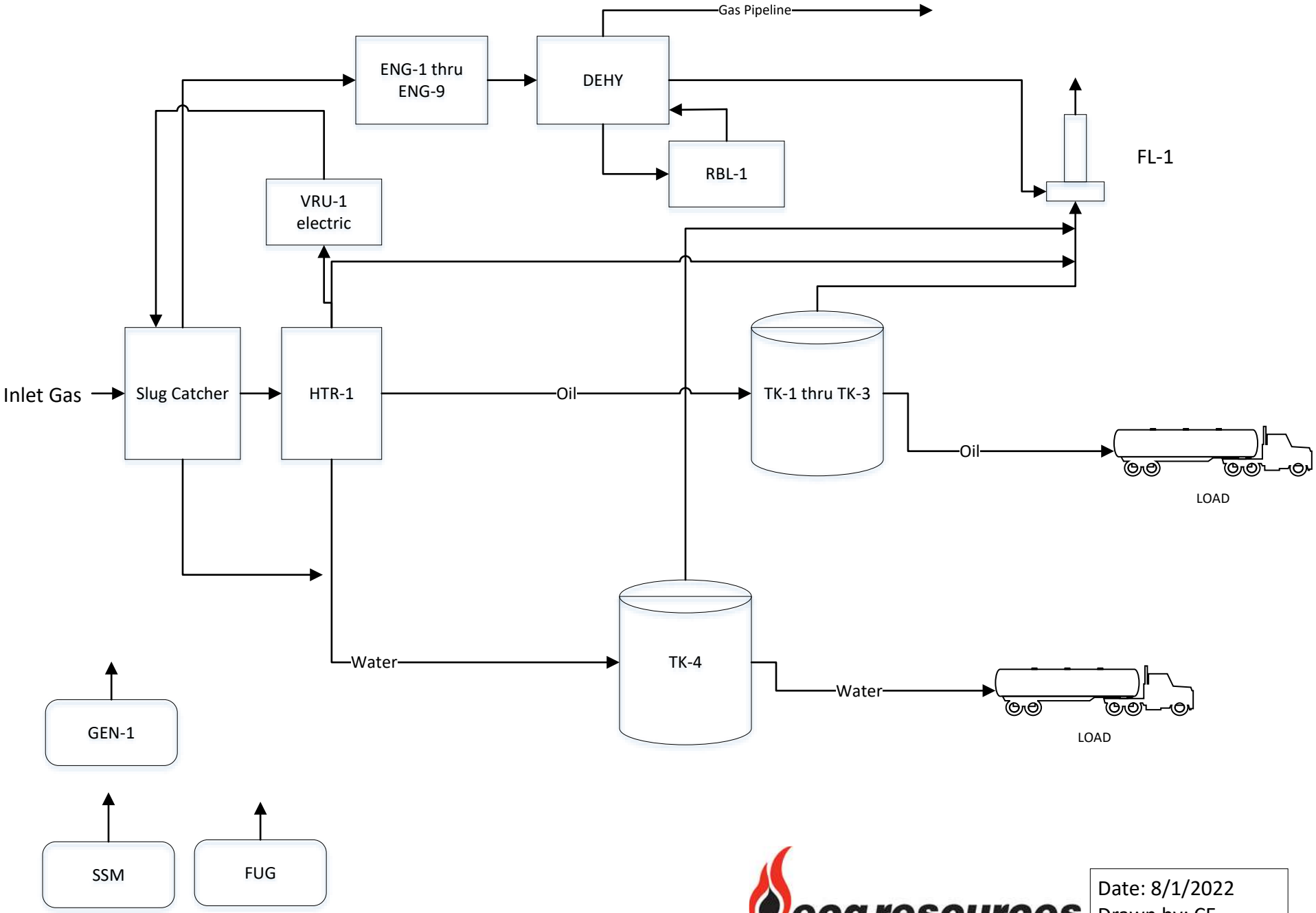
**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Specify fuel characteristics and usage. This information should be for fuel used to operate the equipment (e.g. the pilot) not the amount of gas or fuel processed.

| Edit | Unit No. | Fuel Type (No. 2 Diesel, Natural Gas, Coal, ...) | Specify Units | | | | | Complete |
|---|---|---|---|---|---|---|---|---|
| | | | Lower Heating Value | Hourly Usage | Annual Usage (maximum) | % Sulfur | % Ash | |
| Edit | ENG-1 | Natural Gas | 1192 BTU/SCF | | 23 MM SCF/y | | | ☑ |
| Edit | FL-1 | Natural Gas | 2319 BTU/SCF | | 0.92 MM SCF/y | | | ☑ |
| Edit | HTR-1 | Natural Gas | 1192 BTU/SCF | | 23 MM SCF/y | | | ☑ |
| Edit | RBL-1 | Natural Gas | 1192 BTU/SCF | | 23 MM SCF/y | | | ☑ |
| Edit | ENG-2 | Natural Gas | 1192 BTU/SCF | | 23 MM SCF/y | | | ☑ |
| Edit | ENG-3 | Natural Gas | 1192 BTU/SCF | | 23 MM SCF/y | | | ☑ |
| Edit | ENG-4 | Natural Gas | 1192 BTU/SCF | | 23 MM SCF/y | | | ☑ |
| Edit | ENG-5 | Natural Gas | 1192 BTU/SCF | | 23 MM SCF/y | | | ☑ |
| Edit | ENG-6 | Natural Gas | 1192 BTU/SCF | | 23 MM SCF/y | | | ☑ |
| Edit | ENG-7 | Natural Gas | 1192 BTU/SCF | | 23 MM SCF/y | | | ☑ |
| Edit | ENG-8 | Natural Gas | 1192 BTU/SCF | | 23 MM SCF/y | | | ☑ |
| Edit | ENG-9 | Natural Gas | 1192 BTU/SCF | | 23 MM SCF/y | | | ☑ |

**Comments** (2000 character maximum)

# PROCESS FLOW DIAGRAM




Date: 8/1/2022
Drawn by: CE

New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico, 87505

Phone (505) 476-4300
Fax (505) 476-4375
www.env.nm.gov/aqb

**AQB ePermitting Portal**

# Abbreviated Application (GCP-Oil and Gas)

☒ 1. I understand that I must submit the hard copy check and required Payment Information form for all AQB ePermitting Portal Submittals before it will be assigned, and the 30-day review period begins. (Does not apply if you are converting from a GCP-1 or GCP-4 Permit)

☒ 2. I understand the AQB ePermitting Portal is currently in Beta Testing and I will use the Request NMED Support function in the Portal to: request help, report issues (bugs), and to provide my constructive feedback for improving the Portal.

# Section 1
## Facility Name or Facility Type Change for Modifications

---

Fill out this section if requesting a change to the facility name or facility type that appears in the ePermitting Portal. These items cannot be updated through the Portal and will be corrected as part of the review of your permit.

---

Check the appropriate box(es) and provide complete information in the table.
☒ **Not applicable**
☐ 1. Changing facility name.
☐ 2. Changing facility type.

| | | | |
|---|---|---|---|
| **1a** | **Current Facility Name:**<br>Bandit Compressor Station | **1b** | **New Facility Name:** |
| **2a** | **Current Facility Type:**<br>☐ Production Site<br>☐ Tank Battery<br>☐ Compressor Station<br>☐ Natural Gas Plant<br>☐ Reinjection facility<br>☐ Well head<br>☐ Misc Oil and Gas<br>☐ Amine Plant<br>☐ Energy Support Facility<br>☐ Other, please specify:_____ | **2b** | **New Facility Type:**<br>☐ Production Site<br>☐ Tank Battery<br>☐ Compressor Station<br>☐ Natural Gas Plant<br>☐ Reinjection facility<br>☐ Well head<br>☐ Misc Oil and Gas<br>☐ Amine Plant<br>☐ Energy Support Facility |

# Table 2-B: Exempted Equipment (20.2.72 NMAC)

All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 202.B.5 "similar functions" units, operations, and activities in Section 5, Calculations. Unit & stack numbering must be consistent throughout the application package.

| Unit Number | Source Description | Manufacturer | Model No / Serial No | Max Capacity / Capacity Units | List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) | Date of Manufacture /Reconstruction1 / Date of Installation /Construction | For Each Piece of Equipment, Check One | |
|---|---|---|---|---|---|---|---|---|
| Haul | Unpaved Haul Roads | N/A | N/A<br>N/A | N/A<br>N/A | 20.2.72.202.B(5) NMAC | N/A<br>N/A | ■ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| G-TK | Glycol Tank | TBD | TBD<br>TBD | 500<br>gallons | 20.2.72.202.B(5) NMAC | TBD<br>TBD | ■ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| LO-TK | Lube Oil Tank | TBD | TBD<br>TBD | 500<br>gallons | 20.2.72.202.B(5) NMAC | TBD<br>TBD | ■ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| GEN-1 | Emergency Generator | Kohler | 250REZXB<br> | 340<br>Horsepower | 20.2.72.202.B.3 | TBD<br>TBD | ■ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |

# Section 3
## Registration Summary

---

**The Registration Summary:** Provide information about the registration submittal. The Registration Summary shall include a brief description of the facility and its process. In case of a modification to a facility, please describe the proposed changes.

---

**Registration Summary:** EOG Resources, Inc. (EOG) is submitting this application pursuant to 20.2.72.200.A for the Bandit Compressor Station (Bandit) to revise its existing permit. The revision is to update the Caterpillar engine emission factors for CO, VOC, and formaldehyde, and to add a Waukesha engine. The facility dehydrates and compresses natural gas to enable transport via pipeline. Bandit is located approximately 23.5 miles west of Jal in Lea County, New Mexico. This facility has already been public noticed for a GCP O&G.

The facility includes the following regulated emission sources:

- (9) Caterpillar G3608 A4 natural gas fired engines (ENG-1 through ENG-9)
- (1) Waukesha P9394GSI S5 natural gas fired engine (ENG-10)
- (1) Process flare with a maximum volumetric flow rate of 5 MMSCFD (FL-1)
- (1) 150 MMSCFD TEG (triethylene glycol) dehydrator with associated 3.0 MMBtu/hr reboiler (DEHY and RBL-1)
- (1) 2.0 MMBtu/hr heated separator (HTR-1)
- (3) 750 bbl condensate storage tanks (TK-1 thru TK-3)
- (1) 750 bbl produced water storage tanks (TK-4)
- Condensate and water loading emissions (LOAD)
- Facility-wide fugitive emissions (FUG)
- Startup, shutdown, and maintenance emissions (SSM)
- Malfunction emissions (MALF)

**Written description of the routine operations of the facility:**
The Bandit facility is a compressor station and dehydrates natural gas and compresses the gas to transport via pipeline. The inlet gas stream is separated into two phases (liquid and gas) as it passes through a slug catcher.

The water and hydrocarbon liquids are sent to a 3-phase heated separator where condensate and produced water are separated from gaseous hydrocarbons. The condensate and produced water are sent to their respective storage tanks. Flash gas and working and breathing emissions from the tanks are controlled by the process flare. The gas from the 3-phase heated separator is sent to a VRU where it is compressed and routed back to the slug catcher as a recycle stream. In the event of VRU downtime, the gas from the heated separator is routed to the process flare.

The gas from the slug catcher is sent to the engines for compression, and the compressed gas is then sent to a filter separator where gas is separated from the liquids. These liquids are routed back as a recycle stream to the initial stream entering the slug catcher. The gas from the filter separator (dehydrator inlet separator) is routed to the glycol contactor.

The TEG dehydrator removes water from the gas stream entering the glycol contactor. Dehydrated gas leaves, passes through a heat exchanger and is sent to oil wells and is used for fuel. Once lean TEG absorbs the water from the gas stream, it leaves as a rich stream from the bottom of the contactor which is then sent to a flash tank where gaseous hydrocarbons are routed to the VRU (or flare in event of VRU downtime). The TEG is then sent to the glycol regenerator (and associated reboiler) where the TEG is reconcentrated by removal of the water. The water vapor is sent to a BTEX condenser and subsequent water knockout vessel. The BTEX vapors are routed to the flare and the separated water is routed to the produced water tank. The lean TEG leaving the regenerator passes through a heat exchanger where it is cooled and then recycled and reintroduced to the glycol contactor where the dehydration process begins again.

The vapor recovery unit (VRU) is designed to minimize economic losses by stabilizing vapors before entering storage in the oil tanks and recovering salable vapors to send to the sales gas line. The VRU is part of the physical and operational design of the facility. This is consistent with the discussions of the use of VRUs to route vapors to a sales gas line in the September 28, 2012 EPA response letter to API regarding NSPS OOOO.

**Routine or predictable emissions during Startup, Shutdown and Maintenance (SSM):** EOG is requesting 3 tpy VOC, 1 tpy HAP, and 3 lb/hr and 2 tpy $H_2S$ for SSM activities.

☐ No SSM emissions are expected for this facility.

SSM Activities that are being controlled:

**Malfunction Emissions (M):** EOG is requesting 1 tpy VOC, 1 tpy HAP, and 3 lb/hr and 2 tpy $H_2S$ for malfunction emissions.

The permit does not authorize combustion emissions for malfunctions. The permit does not authorize emissions from SSM and Malfunction to be combined as 10 TPY VOC. However, they may be permitted separately. In the allowable emissions table in Section 2, these two events are separate line items and must be kept separate.

☐ No Malfunction emissions are requested for this permit.

**Allowable Operations:** Check the appropriate box below:

☒ Facility operates continuously (8760 hours per year)

☐ The following regulated equipment will operate less than 8760 hours per year. Add additional rows as necessary. These units are subject to Condition A108.C of the Permit.

## Verification of Compliance with Stack Parameter Requirements:

**Please use the Stack Calculator and Stack Requirements Explained Guidance on our website: All of the verification information below is required to be filled out.**

www.env.nm.gov/air-quality/air-quality-oil-and-gas-gcp-application-forms/

Check the box for each type of equipment at this facility:

☒ Engine(s)
☐ Turbine(s)
☒ Flares(s)
☐ Enclosed Combustion Device (s)
☒ Heater(s)
☒ Reboiler(s)

For each type of equipment checked above, complete the applicable section below.

### Engines

1. Calculate the pound per hour (lb/hr) $NO_x$ emission rate according to GCP O&G Condition A202.I Step 1 on page 15 of the GCP O&G. Enter this value in the top row of the table below.
2. Based on the calculated facility total $NO_x$ emission rate, determine the minimum stack parameter requirements for engines and heaters from Table 1: Engines (page 17) of the GCP O&G and enter the minimum parameters from Table 1 (page 17) of the GCP O&G in the bottom row of the table below.
3. Enter the stack parameters from each engine and heater in the blank rows of the table below. Add rows as necessary.

**Table B: Engine/Generator/Heater/Reboiler Stack Parameter Verification:**

| **Calculated Facility Total NOx Emission Rate: 16.4 lb/hr** | | | | |
|---|---|---|---|---|
| **Engine/Generator/Heater/Reboiler Unit Number** | **Height (ft)** | **Temperature (°F)** | **Velocity (ft/s)** | **Diameter (ft)** |
| HTR-1 | 20 | 600 | 0.48 | 6 |
| RBL-1 | 20 | 600 | 0.72 | 6 |
| ENG-1 thru ENG-9 | 29 | 779 | 82.3 | 2 |
| ENG-10 | 29 | 1069 | 52.1 | 2 |

| **Calculated Facility Total NOx Emission Rate: 16.4 lb/hr** | | | | |
|---|---|---|---|---|
| **Engine/Generator/Heater/Reboiler Unit Number** | **Height (ft)** | **Temperature (°F)** | **Velocity (ft/s)** | **Diameter (ft)** |
| **Table 1 Minimum Parameters:** For verification, list the minimum parameters based on the NOx lb/hr emission rate from the GCP O&G Table 1. | 14.8 | 854 | 88.6 | 0.8 |

4. Do all engines and heaters comply with the minimum stack parameters from Table 1 (page 17) of the GCP O&G?

☐ Yes. Skip step 5 below.

☒ No. Go to step 5 below.

5. For engines and heaters that do not comply with the minimum stack parameters in Table 1 of the GCP O&G, explain and demonstrate in detail how the engines and heaters will be authorized according to the steps on page 16 of the GCP O&G or Condition A203.C of the GCP O&G. Show all calculations.

The heater and reboiler (HTR-1, RBL-1) do not meet the minimum height, temperature or velocity requirements listed in Table 1. However, these units are authorized pursuant to GCP-O&G condition A203.C since the total hourly NOX emissions rate is less than 1.23 lb/hr. The engines (ENG-1 thru ENG-10) do not meet the minimum temperature or velocity requirement but are at least 6.6 ft taller than the minimum height and are therefore in compliance.

**Turbines**

1. Calculate the pound per hour (lb/hr) $NO_x$ emission rate according to GCP O&G Condition A202.I Step 1 on page 17 of the GCP O&G. Enter this value in the top row of the table below.
2. Based on the calculated facility total $NO_x$ emission rate, determine the minimum stack parameter requirements for turbines and heaters from Table 2: Turbines (page 18) of the GCP O&G. Enter the minimum parameters from Table 2 (page 18) of the GCP O&G in the bottom row of the table below.
3. Enter the stack parameters from each turbine and heater in the blank rows of the table below. Add rows as necessary.

**Table C: Turbine/Heater/Reboiler Stack Parameter Verification:**

| **Calculated Facility Total NOx Emission Rate: _____lb/hr** | | | | |
|---|---|---|---|---|
| **Turbine/Heater/Reboiler Unit Number** | **Height (ft)** | **Temperature (°F)** | **Velocity (ft/s)** | **Diameter (ft)** |
| | | | | |
| | | | | |
| | | | | |
| **Table 2 Minimum Parameters:** For verification, list the minimum parameters based on the NOx lb/hr emission rate from the GCP O&G Table 2. | | | | |

4. Do all turbines and heaters comply with the minimum stack parameters from Table 2 (page 18) of the GCP O&G?

☐ Yes. Skip step 5 below.

☐ No. Go to step 5 below.

5. For turbines and heaters that do not comply with the minimum stack parameters in Table 2 of the GCP O&G, explain and demonstrate in detail how the turbines and heaters will be authorized according to the steps on page 18 of the GCP O&G or Condition A203.C of the GCP O&G. Show all calculations.

**Flares**

1. Enter $SO_2$ emission rates (lb/hr) for each flare in the second column of the table below.
2. Based on the $SO_2$ emission rates, determine the minimum stack height requirements for flares from Table 3 (page 26) of the GCP O&G and enter the minimum stack height requirements for flares from Table 3 (page 26) of the GCP O&G in the last column of the table below.
3. Enter the stack height of each flare in the third column of the table below. Add rows as necessary.

**Table D: Flare Stack Height Parameter Verification:**

| Flare Unit Number | $SO_2$ Emission Rate (lb/hr) | Height (ft) | **Table 3 Minimum Stack Height:** For verification, list the minimum height parameters based on the SO2 emission rate from the GCP O&G Table 3. |
|---|---|---|---|
| FL-1 | 0.040 | 20 | 6.6 |
| | | | |
| | | | |
| | | | |

4. Do all flares comply with minimum stack height requirements?
   ☒ Yes
   ☐ No

5. Does the flare gas contain 6% $H_2S$ or less by volume (pre-combustion)?
   ☒ Yes. Skip step 6 below.
   ☐ No. Go to step 6 below.

6. Explain in detail how assist gas will be added to reduce the gas composition to 6% $H_2S$ or less by volume.

**Enclosed Combustion Device(s) (ECD) and Vapor Combustion Unit(s) (VCU):**

According to GCP O&G Condition A208.A, the facility must meet one of the following options if an ECD or VCU is installed at the facility:

Option 1:

1. Will the ECD(s) meet the $SO_2$ emission limit of 0.7 lb/hr and operate with a velocity of at least one (1) foot per second?
   ☐ Yes. Skip Option 2 below.
   ☐ No. Go to Option 2 below.

Option 2:

2. Will the ECD(s) meet the $SO_2$ emission limit of 0.9 lb/hr and operate with a velocity of at least two (2) feet per second?
   ☐ Yes
   ☐ No

# Section 5

## Emissions Calculation Forms

The Department has developed the Air Emissions Calculation Tool (AECT), which is required to be used in the GCP-Oil and Gas Registration. If the AECT, for a piece of equipment is under development, provide alternate calculations. **Do not include alternative calculations unless there is an issue being resolved with the AECT. This will delay review of the application.** The AECT and this Registration Form may be updated as needed.

**Tank Emissions Calculations**: Provide the method used to estimate tank-flashing emissions, the input and output summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Pro-Max or Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation. **The inputs must match the gas analyses information submitted. Inputs that don't match may be grounds for denial of the application submittal.**

**SSM Calculations**: In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Table 2, and the rational for why the others are reported as zero (or left blank).

**Control Devices:** Report all control devices and list each pollutant controlled by the control device. Indicate in this section if you chose to not take credit for the reduction in emission rates. Only uncontrolled emission rates can be considered to determine applicability unless the state or federal acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

**Calculation Details:** The AECT is required for all emission calculations. If the AECT is not functioning, alternative calculations may be submitted only for the portions of the AECT with issues being resolved. Utilize this section to explain in detail, on an equipment-by-equipment basis, why alternative calculations are necessary.

**Explain here:**

**Equipment Forms attached for this section (add additional rows as necessary):**

| Equipment Type | Quantity | Check Box to Indicate Units that are Controlled | Enter Control Device Type and Pollutant Controlled |
|---|---|---|---|
| **Engine** | **10** | ☒ | *NOx, CO, VOC, HCHO* |
| **Turbine** | | ☐ | |
| **Tanks** | **4** | ☒ | *Flare (VOC, HAP, H2S)* |
| **Generator** | | ☐ | |
| **VRU** | **1** | ☒ | *Flare (VOC, HAP, H2S)* |
| **VRT** | | ☒ | |
| **ULPS** | | ☐ | |
| **Glycol Dehydrator** | **1** | ☒ | *Flare (VOC, HAP, H2S)* |
| **Flare** | **1** | ☒ | *Tanks, Loading, VRU downtime, Dehydrator* |
| **Amine Unit** | | ☐ | |
| **Cryogenic Unit** | | ☐ | |
| **Fugitive Emissions** | **1** | ☐ | |
| **Heater** | **1** | ☐ | |
| **Truck Loading** | **1** | ☒ | *Vapor capture, Flare (VOC, HAP, H2S)* |
| **Enclosed Combustion Device (ECD)** | | ☐ | |
| **Thermal Oxidizer (TO)** | | ☐ | |
| **Reboiler** | **1** | ☐ | |

| | | | |
|---|---|---|---|
| **Other** | | ☐ | |

**For each scenario below, if there are more than one emissions unit, control device, or gas combustion scenario. Please copy and paste each applicable section and label the unit number(s) if the scenarios vary.**

**Vapor Recovery Tower, Ultra Low-Pressure Separator, or Flash Tower Located Upstream of Storage Vessels:** If the facility contains one of the following units located upstream of the storage vessels and is used to flash and capture flashing emissions, check the appropriate box.
Unit number:
☐ Vapor Recovery Tower and VRU Compressor
☐ ULPS and VRU Compressor
☐ Flash Tower and VRU Compressor

**Vapor Recovery Unit (VRU) located upstream of Storage Vessels:** Check the box below if the facility is using a VRU to capture flashing emissions prior to any storage vessels to limit the PTE of the storage vessels to below applicability thresholds of NSPS OOOO or NSPS OOOOa. A process vs control determination should be prepared for this type of VRU application.
Unit number:
☐ VRU capturing emissions prior to any storage vessel and routing directly to the sales pipeline

**Vapor Recovery Unit (VRU) attached to Storage Vessels:** Check the box below if this facility is using a VRU to reduce storage vessel emissions to limit the PTE to below NSPS OOOO or NSPS OOOOa applicability thresholds:
Unit number:
☐ VRU controlling Storage Vessel emissions and the facility is subject to the requirements under NSPS OOOO, 40 CFR 60.5411
☐ VRU controlling Storage Vessel emissions and the facility is subject to the requirements under NSPS OOOOa, 40 CFR 60.5411a

**Gas Combustion Scenarios:** Read through the scenarios below and check the boxes next to any appropriate facility operating scenarios. Flares shall assume a destruction efficiency of 95%, unless the facility is subject to requirements for flares under 40 CFR 60.18, or a higher destruction efficiency (up to 98%) is supported by a manufacturer specification sheet (MSS) for that unit. If so, include the MSS.

A flare, vapor combustion unit (VCU), enclosed combustion device (ECD), thermal oxidizer (TO):
Unit number: FL-1
☐ Controls storage vessels in accordance with 40 CFR 60, Subpart OOOO or OOOOa.
☒ Provides a federally enforceable control for the storage vessels to limit the PTE to below applicability thresholds of 40 CFR 60, Subpart OOOO or OOOOa.
☒ Controls the glycol dehydrator
☐ Controls the amine unit
☒ Controls truck loading
☒ Operates only during maintenance events, such as VRU downtime, check one below:
  ☐ The emissions during VRU downtime are represented as uncontrolled VOC emissions from the compressor
  ☒ The combustion emissions during VRU downtime are represented as controlled emissions from the combustion device

☐ Controls the facility during plant turnaround

**Amine Unit:** Provide the following information for each amine unit.

| | |
|---|---|
| Design Capacity in MMscf/day | |
| Rich Amine Flowrate in gal/min | |
| Lean Amine Flowrate in gal/min | |
| Mole Loading $H_2S$ | |
| Sour Gas Input in MMscf/day | |

**Glycol Dehydration Unit(s):** Provide the following information for each glycol dehydration unit:
Please include an extended gas analysis in Section 6 of this application.

| Unit # | Glycol Pump Circulation Rate |
|---|---|
| DEHY | 10 gpm |

**Voluntary Monitoring in Accordance with §40 CFR 60.5416(a):** Check the box(s) to implement a program that meets the requirements of 40 CFR 60.5416(a). This monitoring program will be conducted in lieu of the monitoring requirements established in the GCP-Oil and Gas for individual equipment. Ceasing to implement this alternative monitoring must be reported in an updated Registration Form to the Department.

☐ Condition A205.B Control Device Options, Requirements, and Inspections for Tanks
☐ Condition A206.B Truck Loading Control Device Inspection
☐ Condition A206.C Vapor Balancing During Truck Loading
☐ Condition A209.A Vapor Recovery Unit or Department-approved Equivalent
☐ Condition A210.B Amine Unit Control Device Inspection

**Fugitive $H_2S$ Screening Threshold and Monitoring in accordance with Condition A212:** Check the box that applies.

☒ Condition A212.A does not apply because the facility is below the fugitive $H_2S$ screening threshold in Condition A212, or

☐ Condition A212.A applies. Because the facility is above the fugitive $H_2S$ screening threshold in Condition A212, or the facility is voluntarily complying with Condition A212.A, and Condition A212.A applies

# Section 6

## Information Used to Determine Emissions

Check the box for each type of information submitted in the required attachments. This documentation is required if applicable to the facility.

**Failure to include applicable supporting documentation may result in application denial.**

☒ Specifications for control equipment, including control efficiency specifications and sufficient engineering data for verification of control equipment operation, including design drawings, test reports, and design parameters that affect normal operation.

- ☒ Engine or Generator Manufacturer specifications
- ☒ Catalyst Manufacturer specifications (If a catalyst is being utilized to reduce emissions, the catalyst manufacturer emission factors must be used in all emission calculations. A 25% safety factor may be applied to each pollutant.
- ☒ NSPS JJJJ emission factors **may not** be utilized in lieu of catalyst manufacture specifications when a catalyst is installed, and the catalysts manufacturer achieves higher control efficiency.
- ☒ Flare Manufacturer specifications
- ☐ Oil/Liquid Analysis: This data is required to match the inputs in all applicable emission calculations. For facilities that have not been constructed and a representative analysis is used it cannot be older than 1 year. For existing facilities, the gas analyses required by Condition A201.A (must be 1 year old or less).
- ☐ Gas Analysis (must be 1 year old or less) This data is required to match the inputs in all applicable emission calculations.

- ☐ Extended Gas Analysis (must be 1 year old or less) This data is required to match the inputs in all applicable emission calculations.

- ☒ If requesting to use a representative gas sample, include a discussion of why the sample is representative for this facility and an explanation of how it is representative (e.g., same reservoir, same similar API gravity, similar composition).

☐ If test data are used, to support emissions calculations or to establish allowable emission limits, include a copy of the complete test report. If the test data are for an emissions unit other than the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly effect emission rates.

☐ Fuel specifications sheet.

☒ If computer models are used to estimate emissions, include an input summary and a detailed report, and a disk containing the input file used to run the model.

☒ For tank-flashing emissions, include a discussion of the method used to estimate tank-flashing emissions, accuracy of the model, the **input and output** summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.

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**Representative Gas Analysis Justification:** The representative analysis is from a site that processes gas from the same producing reservoir/formation as the actual site stream; the gas being handled at the representative site and the actual site have very similar components and properties; and the representative analysis is taken from a site that processes the stream in a similar manner as the actual site.

# Section 8A

## Applicable State & Federal Regulations

**Provide a discussion demonstrating compliance with each applicable state & federal regulation**. All input cells should be filled in, even if the response is 'No' or 'N/A'.

In the "Justification" column, identify the criteria that are critical to the applicability determination, numbering each. For each unit listed in the "Applies to Unit No(s)" column, after each listed unit, include the lowest level citation of the applicable regulation. For each unit, list the information necessary to verify the applicability of the regulation, including date of manufacture, date of construction, size (hp), and combustion type. Doing so will provide the applicability criteria for each unit.

### Applicable STATE REGULATIONS:

| STATE REGU-LATIONS CITATION | Title | Federally Enforceable | Overview of Regulation | Unit(s) or Facility | Applies? (Yes or No) | JUSTIFICATION: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|
| 20.2.1 NMAC | General Provisions | Yes | General Provisions apply to Notice of Intent, Construction, and Title V permit applications. | Facility | Yes | EOG Resources, Inc. will comply with the applicable requirements for the entire facility. |
| 20.2.3 NMAC | Ambient Air Quality Standards NMAAQS | Yes | 20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of Sulfur Compounds, Carbon Monoxide, and Nitrogen Dioxide. | Facility | Yes | NAAQS is applicable. Per NMED guidance, documentation of compliance with GCP requirements constitutes documentation of compliance with NAAQS. |
| 20.2.7 NMAC | Excess Emissions | Yes | If your entire facility or individual pieces of equipment are subject to emissions limits in a permit or numerical emissions standards in a federal or state regulation, this applies. | Facility | Yes | EOG Resources, Inc. will comply with the applicable requirements for the entire facility. |
| 20.2.38 NMAC | Hydrocarbon Storage Facility | No | Use the regulation link (left) then cut & paste applicable sections. | N/A | No | The facility is not subject to this regulation for the following reasons:<br>(a) This facility does not store hydrocarbons containing hydrogen sulfide in a container associated with a petroleum production facility of petroleum processing facility having a capacity of 20,000 gallons or greater with a throughput of at least 30,000 gallons per week (20.2.38.109);<br>(b)The tank battery or storage facility is not within a municipality (20.2.38.110) or within five miles of a municipality (20.2.38.111);<br>(c) This facility is not a new tank battery with a |

| STATE REGU-LATIONS CITATION | Title | Federally Enforceable | Overview of Regulation | Unit(s) or Facility | Applies? (Yes or No) | JUSTIFICATION: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|
| | | | | | | capacity of 65,000 gallons or greater (20.2.38.112); (d) The facility is not located outside of the Pecos-Permian intrastate air quality control region, located within the corporate limits of any municipality within the state or located within five miles of the corporate limits of any municipality within the state that has a population of 20,000 or greater (20.2.38.113) |
| 20.2.61.109 NMAC | Smoke & Visible Emissions | No | Engines and heaters are Stationary Combustion Equipment. Specify units subject to this regulation. | HTR-1, RBL-1, ENG-1 thru ENG-10, FL-1 | Yes | EOG Resources, Inc. does not expect visible emissions from the gas fired heater, reboiler, engines, or flare to equal or exceed 20% opacity. |
| 20.2.73 NMAC | NOI & Emissions Inventory Requirements | Yes | NOI: 20.2.73.200 NMAC applies to all facilities emitting over 10 TPY of any regulated air contaminate. Thus, permitted facilities are also subject to this rule. This GCP-O&G registration also serves the purpose of meeting 20.2.73 the NMAC notification requirements.)<br><br>Emissions Inventory: 20.2.73.300.A(1) NMAC applies to facilities registering under the GCP. Emission Inventory reporting is required upon request by the department per 20.2.73.300.B(4) NMAC. | Facility | Yes | Under 20.2.73.300.B(4) NMAC, the NMED is requesting emissions inventory reporting from minor sources for **calendar year 2020**. |
| 20.2.77 NMAC | New Source Performance | Yes | This is a stationary source which is subject to the requirements of 40 CFR Part 60, as amended on the date of certification. | ENG-1 thru ENG-10, FUG | Yes | This is a stationary source, which is subject to the requirements of 40 CFR Part 60, therefore, this regulation applies to the facility. |
| 20.2.78 NMAC | Emission Standards for HAPS | Yes | This facility emits hazardous air pollutants which are subject to the requirements of 40 CFR Part 61, as amended on the date of certification. | N/A | No | Does not apply. There are no applicable NESHAP standards. |

| STATE REGU-LATIONS CITATION | Title | Federally Enforceable | Overview of Regulation | Unit(s) or Facility | Applies? (Yes or No) | JUSTIFICATION: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|
| 20.2.82 NMAC | MACT Standards for source categories of HAPS | Yes | This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63, as amended on the date of certification. | ENG-1 thru ENG-10, DEHY | Yes | This facility has sources which are subject to 40 CFR 63 and therefore, this regulation applies to this facility. |

**Applicable FEDERAL REGULATIONS (This is not an exhaustive list; add applicable regulations such as NSPS GG and KKKK):**

| FEDERAL REGU-LATIONS CITATION | Title | Overview of Regulation | Units(s) or Facility | Applies? (Yes or No) | JUSTIFICATION: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m3, 3. VOL) |
|---|---|---|---|---|---|
| 40 CFR 50 | NAAQS | Defined as applicable at 20.2.70.7.E.11, Any national ambient air quality standard | Facility | Yes | NAAQS is applicable. Per NMED guidance, documentation of compliance with GCP-Oil and Gas requirements constitutes documentation of compliance with NAAQS. |
| 40 CFR 60, Subpart A | General Provisions | Applies if any other NSPS subpart applies. | ENG-1 thru ENG-10, FUG | Yes | This facility is subject to 40 CFR 60 Subparts OOOOa and JJJJ and therefore, the general provisions apply. |
| 40 CFR 60, Subpart OOOO | Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015 | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375); centrifugal compressors (60.5380); reciprocating compressors (60.5385): controllers (60.5390); storage vessels (60.5395); equipment leaks (60.5400); sweetening units (60.5405).<br><br>**If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. Centrifugal Compressors 1a-3a are subject to the standards at 60.5380(a)(1) and (2) since we use a control device to reduce emissions)** | N/A | No | Facility was constructed after September 18, 2015. Does not apply. |
| 40 CFR 60, Subpart OOOOa | Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375a); centrifugal | COMP-1 (ENG-1) thru COMP-10 | Yes | This subpart applies to fugitive emissions and to the reciprocating compressors which are located a compressor station. |

| FEDERAL REGULATIONS CITATION | Title | Overview of Regulation | Units(s) or Facility | Applies? (Yes or No) | JUSTIFICATION: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m3, 3. VOL) |
|---|---|---|---|---|---|
| | Commenced After September 18, 2015 | compressors (60.5380a); reciprocating compressors (60.5385a): controllers (60.5390a); storage vessels (60.5395a); fugitive emissions at well sites and compressor stations (60.5397a); equipment leaks at gas plants (60.5400a); sweetening units (60.5405a). | (ENG-10), FUG | | |
| 40 CFR 60, Subpart IIII | Standards of performance for Stationary Compression Ignition Internal Combustion Engines | See 40 CFR 60.4200(a) 1 through 4 to determine applicable category and state engine size, fuel type, and date of manufacture. | N/A | No | Does not apply. |
| 40 CFR 60, Subpart JJJJ | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines | See 40 CFR 60.4230(a), 1 through 5 to determine applicable category and state engine size, fuel type, and date of manufacture. | ENG-1 thru ENG-10 | Yes | The engines are subject to Subpart JJJJ. |
| 40 CFR 63, Subpart A | General Provisions | Applies if any other subpart applies. | ENG-1 thru ENG-10, DEHY | Yes | The engines are subject to Subpart ZZZZ. The dehydrator is subject to Subpart HH. |
| 40 CFR 63, Subpart HH | NESHAP for Glycol Dehydrators | See 40 CFR 63, Subpart HH | DEHY | Yes | This facility is subject to 40 CFR 63 Subpart HH, which includes requirements applicable to area sources with TEG dehydrators. Although the site is not a major source of hazardous air pollutants (HAPs) it is still an area source and therefore this subpart applies. However, since Benzene emissions from the unit are less than 0.90 Mg/yr, the unit is exempt from multiple requirements of 40 CFR 63 pursuant to 40 CFR 63.764(e)(1)(ii).<br>Records will be maintained to demonstrate that the exemption criteria are being met in accordance with 40 CFR 63.774(d)(1). |
| 40 CFR 63, Subpart ZZZZ | NESHAP for Stationary Reciprocating Internal Combustion Engines (**RICE MACT**) | Facilities are subject to this subpart if they own or operate a stationary RICE, except if the stationary RICE is being tested at a stationary RICE test cell/stand. | ENG-1 thru ENG-10 | Yes | The engines are subject to Subpart ZZZZ. |

# Section 8B
# Compliance Test History

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To evaluate the requirement for compliance tests, you must submit a compliance test history. The table below provides an example.

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No compliance history to report.

# Section 9 Proof of Public Notice

## General Posting of Notice

I, _____, the undersigned, certify that on _____ **(DATE),** I posted a true and correct copy of the attached Public Notice in a publicly accessible and conspicuous place, visible from the nearest public road, at the entrance of the property on which the facility is, or is proposed to be, located.

Signed this _____ day of _____, _____,

_____ _____
Signature Date

_____
Printed Name Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

## Newspaper Publication of Notice

☐ An original or copy of the actual newspaper advertisement posted in a newspaper in general circulation in the applicable county is attached. The original or copy of the advertisement includes the header showing the date and newspaper or publication title.

**OR**

☐ An affidavit from the newspaper or publication in general circulation in the applicable county stating that the advertisement was published is attached. The affidavit includes the date of the advertisement's publication, and a legible photocopy of the entire ad.

_____ _____
Signature Date

Cynthia Espinoza Sr. Environmental Engineer
Printed Name Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

# GCP-Oil and Gas PUBLIC NOTICE EXAMPLE

*20.2.72 NMAC – General Permits, Section 220.A(2)(b)ii*

**Use this example for all public notices for GCP-Oil and Gas permits (newspaper notice and site posting notice). Customize this document by modifying or deleting, all bracketed and bold text below. Posting of Public Notice is required at the facility entrance and in the newspaper in general circulation as described in Condition C100.B of the GCP-Oil and Gas Permit. Before printing the final notice, delete this sentence and all preceding and subsequent text in red.**

# NOTICE

**[Name of Company]** announces its intent to apply to the New Mexico Environment Department for an air quality General Construction Permit, **(GCP-Oil and Gas).** The name of this facility is **[Name of Facility]**. The expected date of the submittal of our Registration for an air quality permit to the Air Quality Bureau is **[date].** This notice is a requirement according to New Mexico air quality regulations.

The exact initial location of the facility is/will be **["UTM Zone 12/13, UTM Easting XXX, UTM Northing XXX"** The approximate location of this site is **XX.X** miles **[direction]** of **[town name (preferred) or, if no town within 30 miles, a reasonably close, well known point, such as the intersection of two roads, a well-known landmark, or road mile marker]** in **[county name]** county]. The standard operating schedule of this facility will be continuous.

Air emissions of any regulated air contaminant will be less than or equal to **[do not change the TPY values listed below]**:

| | | Tons per year (TPY) |
|---|---|---|
| 1. | Nitrogen Oxides ($NO_x$) | 95 |
| 2. | Carbon Monoxide (CO) | 95 |
| 3. | Volatile Organic Compounds (VOC) (stack) | 95 |
| 4. | Particulate Matter (PM10) | 25 |
| 5. | Particulate Matter (PM2.5) | 25 |
| 6. | Sulfur Dioxide ($SO_2$) | 95 |
| 7. | Hydrogen Sulfide (H2S) | 25 |
| 8. | Any one (1) Hazardous Air Pollutant (HAP) | <10 |
| 9. | Sum of all Hazardous Air Pollutants (HAPs) | < 25 |

The owner and/or operator of the Plant is:
**[Name, company, street address, city, state, zip code]**

If you have any questions or comments about construction or operation of above facility, and want your comments to be made as a part of the permit review process, you must submit your comments in writing to the address below:

New Mexico Environment Department
Air Quality Bureau Permit Section
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico, 87505
Phone (505) 476-4300
Fax (505) 476-4375

Other comments and questions may be submitted verbally.

**Please refer to the company name and site name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit Registration at the time of this notice.**

**Attención**

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

**Notice of Non-Discrimination**

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kathryn Becker, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.

# APPENDIX N. GCP-O&G # 9177

**Acknowledgements Section - Bald Eagle LGL Station**

**Construction Status** Existing Permitted (or NOI) Facility

☑ I acknowledge that a pre-application meeting is available to me upon request.

☑ For new registrations or modifications, a check for the registration fee will be sent to the Department for ten fee points for GCP-O&G or $500 for NOIs. We cannot begin processing your action until the full fee is received by the Department. You will receive an email when your action is assigned for review.

☑ There is an annual fee for GCP-O&G in addition to the registration fee: www.env.nm.gov/air-quality/permit-fees-2/ (No annual fee for NOIs. (Facilities qualifying as a 'small business' under 20.2.75.7.F NMAC qualify for reduced fees, provided that NMED has a Small Business Certification Form from your company on file. This form can be found at: www.env.nm.gov/aqb/sbap/Small_Business_Forms.html)

☑ There are required attachments in addition to inputting data in the program. I will include the required attachments.

**1.** Is the facility located in Bernalillo County, on tribal lands, or in a nonattainment area?
○ Yes ◉ No

**2.** Is the facility's SIC code 1311, 1321, 4619, 4612 or 4922? (Other SIC codes may be approved provided that all the equipment at the facility is allowed in the GCP-Oil & Gas Permit. Non-Oil and Gas NOIs should use the paper Universal Application.
◉ Yes ○ No

**GCP-O&G Acknowledgements and Applicability**

Do not use Portal for administrative changes identified in the GCP O&G Permit Condition C101.A. Please use the Permitting Administrative Multiform to submit these requests to the department by mail. www.env.nm.gov/air-quality/air-quality-permit-applications-forms-and-related-information/

☑ The emissions specified in this Registration Form will establish the emission limits in the GCP-Oil and Gas.

**1.** This is a GCP-Oil and Gas Registration Form for an existing facility currently operating under GCP-1 or GCP-4? (No fee required)
◉ No ○ Yes

**2.** Does the regulated equipment under this GCP-Oil and Gas Registration include any combination of Allowable Equipment listed in Table 104 of the GCP Oil & Gas Permit, and no others?
◉ Yes ○ No

**3.** Will the regulated equipment as specified in this GCP-Oil and Gas Registration emit less than the total emissions in Table 106 of the GCP-Oil and Gas permit?
◉ Yes ○ No

**4.** Does all equipment comply with the stack parameter requirements as established in the GCP-Oil and Gas Permit?
◉ Yes ○ No

**5.** Equipment shall be at least 100 meters (m) from any stack to terrain that is five (5) or more meters above the top of the stack. Will the equipment at the facility meet this terrain requirement?
◉ Yes ○ No

**6.** Is the facility at least 150 m from any source that emits over 25 tons/year of NOx? This is the distance between the two nearest stacks that emit NOx at each of the facilities. Not the facility boundaries or the center to center distances.
◉ Yes ○ No

**7.** Is the facility at least 3 miles from any Class I area? This is the distance from the nearest facility boundary to the nearest boundary of the Class I area.
◉ Yes ○ No

| Mail Application To: | | For Department use only: |
|---|---|---|
| New Mexico Environment Department<br>Air Quality Bureau<br>Permitting Section<br>525 Camino de los Marquez, Suite 1<br>Santa Fe, NM 87505-1816<br><br>Phone: (505) 476-4300<br>Fax: (505) 476-4375<br>www.nmenv.state.nm.us/aqb | | AIRS No.:_____ |

# Electronic Permitting Application

**Use this application for NOI and GCP-Oil and Gas Permits.**

Use this application for: the initial application, modifications, revisions and when converting from another permit type. Please fill out all sections so that they have check marks and attach all required documents for review. Coordination with AQB is encouraged for first time users. Please use the Request NMED Support button if you would like to set up a walk through.

## Section 1 - Facility Information

**Section 1-A: Company Information - Bald Eagle LGL Station**
**Last modified by Espinoza, Cynthia on 23-JUN-22.**

| | | | |
|---|---|---|---|
| 1 | **Facility Name:** EOG - Bald Eagle LGL Station | AI # (if known): 39956 | Updating permit #: |
| a | SIC Code: 1311 - Crude petroleum and natural gas<br>NAICS Code: 21112 - Crude Petroleum Extraction<br>Facility Type: Select One  Secondary Facility Type: Select One | Reset Selections | |
| 2 | **Company Name (Owns facility):** EOG Resources Inc - Midland Division | Phone: 432-272-9572 | Fax: |
| a | Mailing Address: 5509 Champions Drive  Address 2:  City: Midland  State: Texas  ZIP Code: 79706 | | |
| 3 | **Billing Party:** EOG Resources Inc - Midland Division<br>Select an organization | Phone: 432-272-9572 | Fax: |
| a | Mailing Address: 5509 Champions Drive  Address 2:  City: Midland  State: Texas  ZIP Code: 79706 | | |
| 4 | **Consultant Company:** Select an organization | Phone: 432-272-9572 | Fax: |
| a | Mailing Address: 5509 Champions Drive  Address 2:  City: Midland  State: Texas  ZIP Code: 79706 | | |
| 5 | **Consultant Contact:**<br>First Name:  M.I.:  Last Name:  Title: | Phone:  Fax:<br>Email: | |
| a | Mailing Address:  Address 2:  City:  State:  ZIP Code: | | |
| 6 | **Plant Operator Company:** EOG Resources Inc - Midland Division<br>Select an organization | | |
| a | Plant Operator Company Address: 5509 Champions Drive  Address 2:  City: Midland  State: Texas  ZIP Code: 79706 | | |
| b | **Plant Operator Contact:**<br>First Name: Cynthia  M.I.:  Last Name: Espinoza  Title: Engineer | Phone: 432-231-2471  Fax:<br>Email: cynthia_espinoza@eogresources.com | |
| c | Mailing Address: 5509 Champions Drive  Address 2:  City: Midland  State: Texas  ZIP Code: 79706 | | |
| 7 | **Air Permit:** Select a person | | |
| a | **Air Permit Contact:**<br>First Name: Cynthia  M.I.:  Last Name: Espinoza  Title: Engineer | Phone: 432-231-2471  Fax:<br>Email: cynthia_espinoza@eogresources.com | |
| b | Mailing Address: 5509 Champions Drive  Address 2:  City: Midland  State: Texas  ZIP Code: 79706 | | |

**Comments** (2000 character maximum)

**Section 1-C: Facility Input Capacity & Production Rate - Bald Eagle LGL Station**
**Last modified by Espinoza, Cynthia on 23-JUN-22.**

Enter the maximum hourly, daily, and annual throughput of oil, gas, natural gas liquids (NGL), and produced water.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **OIL** | | | | | | | |
| a | Current: | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | 6.46 bbl/h | Daily: | 155 bbl/d | Annually: | 56575 | bbl/y |
| 2 | **Natural Gas** | | | | | | | |
| a | Current | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | 3.13 MM SCF/h | Daily: | 75 MM SCF/d | Annually: | 27375 | bbl/y |
| 3 | **Natural Gas Liquids** | | | | | | | |
| a | Current | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | | Daily: | | Annually: | | |
| 4 | **Produced Water** | | | | | | | |
| a | Current | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | | Daily: | | Annually: | | |

**Comments** (2000 character maximum)

**Section 1-D: Facility Location Information - Bald Eagle LGL Station**
**Last modified by Espinoza, Cynthia on 23-JUN-22.**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Section: | Range: | Township: | County: Lea | Elevation (ft): 3471 |
| 2 | UTM Zone: ○ 12 or ◉ 13 | | | Datum: ○ NAD 27 ○ NAD 83 ◉ WGS 84 | |
| a | UTM E (in meters, to nearest 10 meters): 643481 | | | UTM N (in meters, to nearest 10 meters): 3561835 | |
| b | Latitude: 32.1839 dec deg. N | | | Longitude: -103.4781 dec deg. W | |
| 3 | Facility/Plant Address: 17.3 mi NW of Jal (If no facility street address, leave blank) | City: Jal | State: New Mexico | ZIP Code: 88252 | District: 004 / Field Office: Select one |
| 4 | The facility is 17.3 miles NW of Jal (nearest town). | | | | |
| 5 | Detailed Driving Instructions from nearest NM town (attach a road map if necessary): From the intersection of NM-128 and N 3rd street head west on NM-128 until reaching Battle Axe Rd. At this point turn onto this road until roads merges with J-2. Continue driving on J-2 for approximately 0.3 miles and turn left onto Dinwiddie Rd. Continue driving on this road for approximately 1.5 miles and the will be located on the left, toward the north of an unnamed dirt road. | | | | |
| 6 | Status of land at facility: Government - Not Specified | | | | |
| 7 | Select nearest Class I area: Class I - Carlsbad Caverns National Park | | | | |
| 8 | Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 101.6 km | | | | |
| 9 | Is this a portable stationary source as defined in 20.2.72.7.X NMAC? ○ Yes ◉ No | | | | |
| 10 | Will this facility operate in conjunction with other air regulated parties on the same property? ○ Yes ◉ No<br>If yes, what is the name and permit number (if known) of the other facility? | | | | |

**Comments** (2000 character maximum)

## Section 1-E: Proposed Operating Schedule - Bald Eagle LGL Station

**Last modified by Espinoza, Cynthia on 23-JUN-22.**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Facility **maximum** operating (hours/day): 24 | days/week: 7 | weeks/year: 52 | hours/year: 8760 | |
| 2 | Facility's maximum daily operating schedule (if less than 24 hours/day)? Start Time: | | End Time: | | |
| 3 | Month and year of anticipated start of construction (mm/yyyy): | | | | |
| 4 | Month and year of anticipated construction completion (mm/yyyy): | | | | |
| 5 | Month and year of anticipated startup of new or modified facility (mm/yyyy): | | | | |
| 6 | Will this facility operate at this site for more than one year? (•) Yes ( ) No | | | | |

The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.

**Comments** (2000 character maximum)

**Last modified by Espinoza, Cynthia on 23-JUN-22.**

| **Section 1-F - Current Facility Status - Bald Eagle LGL Station** | | | |
|---|---|---|---|
| 1 | Has this Facility already been constructed?<br>(•) Yes ( ) No | If yes, is it currently operating in New Mexico?<br>(•) Yes ( ) No | |
| 2 | Does this facility currently have a construction permit or Notice of Intent (NOI) (20.2.72 NMAC or 20.2.73 NMAC)?<br>(•) Yes ( ) No | If yes, the permit No or NOI No:<br>9177 | Will it remain active or not:<br>(•) Yes ( ) No |
| 3 | Is this Registration in response to a Notice of Violation (NOV)?<br>( ) Yes (•) No<br>If so, provide current permit #: | If yes,NOV date: | NOV tracking No: |
| 4 | Facility is Synthetic Minor greater than 80% (SM80) i.e, Controlled Emissions > 80 TPY of any regulated air pollutant) | | |

**Comments** (2000 character maximum)

## Table 2-A: Regulated Emission Sources

| Edit | NMED SI ID | Category Type | NMED SI Status | Unit Number[1] | Source Description | Manufacturer | Model # | Serial # | Rated Capacity[3] | Permitted Capacity[3] | Date[2] of Manufacture or Reconstruction Date[2] of Installation /Construction | Controlled by Unit # Emissions vented to Stack # | Source Classification Code (SCC) | Disposition | Applicable State & Federal Regulation(s) (i.3. 20.x.x, JJJJ, ...) | Complete | Replicate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | EQPT-1 | Equipment Glycol Dehy Still Vent/Flash Tank | Active 05/04/2021 | DEHY | Dehydrator | NA | NA | NA | | | | | 3-10-002-27 | Existing (unchanged) | 40 CFR 60 Subpart HH | ☑ | Replicate |
| Edit | EQPT-2 | Equipment Internal combustion engine | Active 05/04/2021 | ENG-1 | Compressor Engine CAT G3606 | Caterpillar | Cat G3606 | NA | 1875.00 hp | 1875.00 hp | | | 2-02-002-54 | Existing (unchanged) | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-3 | Equipment Internal combustion engine | Active 05/04/2021 | ENG-2 | Compressor Engine CAT G3608 | Caterpillar | Cat G3608 | NA | 2500.00 hp | 2500.00 null | | | 2-02-002-54 | To Be Removed | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-4 | Equipment Internal combustion engine | Active 05/04/2021 | ENG-3 | Compressor Engine CAT G3608 | Caterpillar | Cat G3608 | NA | 2500.00 hp | 2500.00 null | | | 2-02-002-54 | To Be Removed | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-5 | Equipment Internal combustion engine | Active 05/04/2021 | ENG-4 | Compressor Engine CAT G3608 | Caterpillar | Cat G3608 | NA | 2500.00 hp | 2500.00 null | | | 2-02-002-54 | To Be Removed | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-6 | Equipment Internal combustion engine | Active 05/04/2021 | ENG-5 | Compressor Engine CAT G3608 | Caterpillar | Cat G3608 | NA | 2500.00 hp | 2500.00 null | | | 2-02-002-54 | To Be Removed | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-7 | Equipment Internal combustion engine | Active 05/04/2021 | ENG-6 | Compressor Engine CAT G3608 | Caterpillar | Cat G3608 | NA | 2500.00 hp | 2500.00 null | | | 2-02-002-54 | To Be Removed | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-8 | Equipment Process Flare | Active 05/04/2021 | FL-1 | Flare | Encore | ENV-0618 | NA | 3 MM SCFD | 3 MM SCFD | | | 3-10-001-60 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | RPNT-1 | Release Point Fugitives | Active 05/04/2021 | FUG | Fugitives | NA | NA | NA | | | | | 3-10-002-20 | Existing (unchanged) | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-9 | Equipment Heater | Active 05/04/2021 | HTR-1 | Seperator Heater | TBD | NA | NA | 1.50 MM BTU/h | 1.50 MM BTU/h | | | 3-10-004-04 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-10 | Equipment Loading/Unloading Rack | Active 05/04/2021 | LOAD | Truck Loading | NA | NA | NA | 2839116 gal/y | | | | 4-06-001-32 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | RPNT-2 | Release Point Fugitives | Active 05/04/2021 | MALF | Malfunctions | NA | NA | NA | | | | | 3-10-888-11 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-11 | Equipment Glycol Dehy Reboiler Burner | Active 05/04/2021 | RBL-1 | Dehy Reboiler | TBD | NA | NA | 1.00 MM BTU/h | 1.00 MM BTU/h | | | 3-10-002-28 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | RPNT-3 | Release Point Fugitives | Active 05/04/2021 | SSM | Startup, Shutdown, and Maintenance | NA | NA | NA | | | | | 3-10-888-11 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-12 | Equipment Tank - Above Ground | Active 05/04/2021 | TK-1 | Oil Tank | NA | NA | NA | 400.00 bbl | 400 bbl | | | 4-04-003-12 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-13 | Equipment Tank - Above Ground | Active 05/04/2021 | TK-2 | Oil Tank | NA | NA | NA | 400.00 bbl | 183.96 M gal/y | | | 4-04-003-12 | To Be Removed | NA | ☑ | Replicate |
| Edit | EQPT-14 | Equipment Tank - Above Ground | Active 05/04/2021 | TK-3 | Water Tank | NA | NA | NA | 400.00 bbl | 400 bbl | | | 4-04-003-15 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-15 | Equipment Internal combustion engine | | E-3 | Compressor Engine CAT G3608 | Caterpillar | Cat G3608 | NA | 2500.00 hp | 2500.00 hp | | | 2-02-002-54 | To Be Removed | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-16 | Equipment Internal combustion engine | | ENG-2 | Compressor Engine CAT G3608 | Caterpillar | Cat G3608 | NA | 2500.00 hp | 2500.00 hp | 12/02/19 06/18/21 | | 2-02-002-54 | New/Additional | 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ | ☑ | Replicate |
| Edit | EQPT-17 | Equipment Internal combustion engine | | ENG-3 | Compressor Engine CAT G3608 | Caterpillar | Cat G3608 | NA | 2500.00 hp | 2500.00 hp | 12/22/19 06/18/21 | | 2-02-002-54 | New/Additional | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-18 | Equipment Internal combustion engine | | ENG-4 | Compressor Engine CAT G3608 | Caterpillar | Cat G3608 | NA | 2500.00 hp | 2500.00 hp | 01/07/21 06/18/21 | | 2-02-002-54 | New/Additional | 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ | ☑ | Replicate |
| Edit | EQPT-19 | Equipment Internal combustion engine | | ENG-5 | Compressor Engine CAT G3608 | Caterpillar | Cat G3608 | NA | 2500.00 hp | 2500.00 hp | 05/01/21 08/16/21 | | 2-02-002-54 | New/Additional | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-20 | Equipment Internal combustion engine | | ENG-6 | Compressor Engine CAT G3608 | Caterpillar | Cat G3608 | NA | 2500.00 hp | 2500.00 hp | 05/01/21 08/16/21 | | 2-02-002-54 | New/Additional | 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ | ☑ | Replicate |
| Edit | EQPT-21 | Equipment Tank - Above Ground | | TK-2 | Oil Tank | NA | NA | NA | 400.00 bbl | 400.00 bbl | | | 4-04-003-12 | New/Additional | NA | ☑ | Replicate |

Add a New Regulated Source

[1] Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.

[2] Specify dates required to determine regulatory applicability. If only year or month is known use 01/01/yyyy or mm/01/yyyy.

[3] To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

## Table 2C - Emissions Reduction Equipment

☐ **This Table was intentionally left blank.**

In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions. **Also include reductions from process equipment in this table. Entering process equipment in this table is for data entry purposes only, the process vs control analysis will be used to determine process or control status for VRUs.** Only list control equipment for TAPs if the TAPs maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B.

| Edit | Reduction Equipment Unit No. | Reduction Equipment Description | Date Installed (mm/dd/yyyy). | Reduced Pollutants | Reducing Emissions for Unit Numbers | Efficiency (% Reduction by Weight) | Method used to estimate reduction | Reduction Type | Complete |
|---|---|---|---|---|---|---|---|---|---|
| Edit | FL-1 | Flare | | Volatile Organic Compounds (VOC) | DEHY | 98 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Total HAP | DEHY | 98 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Hydrogen sulfide (NMAAQ) | DEHY | 98 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | Cat-1 | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-1 | 52 | Design calculation | PRIMARY | ☑ |
| Edit | Cat-1 | Catalytic Oxidation | | Carbon Monoxide | ENG-1 | 91 | Design calculation | PRIMARY | ☑ |
| Edit | Cat-1 | Catalytic Oxidation | | Formaldehyde | ENG-1 | 70 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Volatile Organic Compounds (VOC) | TK-1 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Total HAP | TK-1 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Hydrogen sulfide (NMAAQ) | TK-1 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Volatile Organic Compounds (VOC) | TK-3 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Total HAP | TK-3 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Hydrogen sulfide (NMAAQ) | TK-3 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | Cat-2 | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-2 | 70 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | Cat-2 | Catalytic Oxidation | | Carbon Monoxide | ENG-2 | 93 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | Cat-2 | Catalytic Oxidation | | Formaldehyde | ENG-2 | 80 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | Cat-3 | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-3 | 70 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | Cat-3 | Catalytic Oxidation | | Carbon Monoxide | ENG-3 | 93 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | Cat-3 | Catalytic Oxidation | | Formaldehyde | ENG-3 | 80 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | Cat-4 | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-4 | 70 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | Cat-4 | Catalytic Oxidation | | Carbon Monoxide | ENG-4 | 93 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | Cat-4 | Catalytic Oxidation | | Formaldehyde | ENG-4 | 80 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | Cat-5 | Catalytic Oxidation | | Carbon Monoxide | ENG-5 | 93 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | Cat-5 | Catalytic Oxidation | | Formaldehyde | ENG-5 | 80 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | Cat-5 | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-5 | 70 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | Cat-6 | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-6 | 70 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | Cat-6 | Catalytic Oxidation | | Carbon Monoxide | ENG-6 | 93 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | Cat-6 | Catalytic Oxidation | | Formaldehyde | ENG-6 | 80 | Manufacturer Specification | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Volatile Organic Compounds (VOC) | TK-2 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Total HAP | TK-2 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Hydrogen sulfide (NMAAQ) | TK-2 | 98 | Design calculation | PRIMARY | ☑ |

Add Reduction Equipment for Unit [Select one] Add

How to complete the table: In the drop down, select regulated sources from Table 2A where emissions are reduced and click "Add." Then add reduced pollutants and associated reduction devices for each. If a pollutant has emissions reduced by more than one device please add a line for each device and label them as primary, secondary, tertiary. Click "Edit" to update reduced pollutants and devices for each regulated source.

Comments (4000 character maximum)

**List each reduction device and all sources they serve, e.g. FL-1: Oil tanks 1-4, loading, VRU downtime. FL-2: compressor and sales downtime. For NOIs, indicate the enforceability behind each device or clarify if it is voluntary and no credit is being claimed for the reduction, e.g., FL-1: Oil tanks 1-8 (OOOOa). FL-1: Loading (voluntary, no emissions reduction credit claimed.)**

FL-1: TK-1 thru TK-3, DEHY, VRU downtime

## *Table 2-D: Maximum Emissions* (under normal operating conditions)

**This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | **EQPT-1** | **Active 05/04/2021** | DEHY | - | - | - | - | 69.1 | 303 | - | - | - | - | - | - | 0.030 | 0.13 | - | - | ☑ |
| Edit | **EQPT-2** | **Active 05/04/2021** | ENG-1 | 2.06 | 9.04 | 9.09 | 39.8 | 2.03 | 8.87 | 0.017 | 0.076 | 0.13 | 0.55 | 0.13 | 0.55 | - | - | - | - | ☑ |
| Edit | **EQPT-8** | **Active 05/04/2021** | FL-1 | 0.017 | 0.074 | 0.034 | 0.15 | 0.036 | 0.16 | 0.0002 | 0.001 | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | **RPNT-1** | **Active 05/04/2021** | FUG | - | - | - | - | 1.21 | 5.30 | - | - | - | - | - | - | 0 | 0.0001 | - | - | ☑ |
| Edit | **EQPT-9** | **Active 05/04/2021** | HTR-1 | 0.15 | 0.64 | 0.12 | 0.54 | 0.008 | 0.035 | 0.003 | 0.011 | 0.011 | 0.049 | 0.011 | 0.049 | 0 | 0.0001 | - | - | ☑ |
| Edit | **EQPT-10** | **Active 05/04/2021** | LOAD | - | - | - | - | 95 | 9.58 | - | - | - | - | - | - | 0.002 | 0.0002 | - | - | ☑ |
| Edit | **RPNT-2** | **Active 05/04/2021** | MALF | - | - | - | - | - | 10 | - | - | - | - | - | - | 3 | 2 | - | - | ☑ |
| Edit | **EQPT-11** | **Active 05/04/2021** | RBL-1 | 0.10 | 0.43 | 0.082 | 0.36 | 0.005 | 0.024 | 0.002 | 0.008 | 0.007 | 0.033 | 0.007 | 0.033 | 0 | 0 | - | - | ☑ |
| Edit | **RPNT-3** | **Active 05/04/2021** | SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-12** | **Active 05/04/2021** | TK-1 | - | - | - | - | 17.5 | 76.5 | - | - | - | - | - | - | 0.0003 | 0.001 | - | - | ☑ |
| Edit | **EQPT-14** | **Active 05/04/2021** | TK-3 | - | - | - | - | 0.51 | 2.25 | - | - | - | - | - | - | 0.0003 | 0.001 | - | - | ☑ |
| Edit | **EQPT-16** | | ENG-2 | 1.65 | 7.24 | 19.4 | 85.1 | 7.32 | 32.1 | 0.024 | 0.10 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | **EQPT-17** | | ENG-3 | 1.65 | 7.24 | 19.4 | 85.1 | 7.32 | 32.1 | 0.024 | 0.10 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | **EQPT-18** | | ENG-4 | 1.65 | 7.24 | 19.4 | 85.1 | 7.32 | 32.1 | 0.024 | 0.10 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | **EQPT-19** | | ENG-5 | 1.65 | 7.24 | 19.4 | 85.1 | 7.32 | 32.1 | 0.024 | 0.10 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | **EQPT-20** | | ENG-6 | 1.65 | 7.24 | 19.4 | 85.1 | 7.32 | 32.1 | 0.024 | 0.10 | 0.17 | 0.75 | 0.17 | 0.75 | - | - | - | - | ☑ |
| Edit | **EQPT-21** | | TK-2 | - | - | - | - | 17.5 | 76.5 | - | - | - | - | - | - | 0.0003 | 0.001 | - | - | ☑ |
| | | | **Totals** | 10.58 | 46.38 | 106.33 | 466.35 | 239.5 | 652.72 | 0.14 | 0.6 | 1.0 | 4.38 | 1.0 | 4.38 | 3.03 | 2.13 | 0.0 | 0.0 | |

**[1] Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**Comments** (2000 character maximum)

## Table 2-E: Requested Allowable Emissions

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Facility totals are a summation of all the emissions entered for equipment in this table plus total tpy SSM emissions from Table 2F.
**GCP-O&G:** Combustion emissions from malfunction events are not allowed under this permit.

**NOI:** Malfunction emissions are not allowed under a Notice of Intent.

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | EQPT-1 | Active 05/04/2021 | DEHY | - | - | - | - | 0 | 0 | - | - | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | EQPT-2 | Active 05/04/2021 | ENG-1 | 2.58 | 11.3 | 1.03 | 4.52 | 0.72 | 3.17 | 0.017 | 0.076 | 0.13 | 0.55 | 0.13 | 0.55 | - | - | - | - | ☑ |
| Edit | EQPT-8 | Active 05/04/2021 | FL-1 | 0.22 | 0.98 | 0.45 | 1.96 | 1.29 | 5.66 | 0.038 | 0.017 | - | - | - | - | 0.0004 | 0.002 | - | - | ☑ |
| Edit | RPNT-1 | Active 05/04/2021 | FUG | - | - | - | - | 1.21 | 5.30 | - | - | - | - | - | - | 0 | 0.0001 | - | - | ☑ |
| Edit | EQPT-9 | Active 05/04/2021 | HTR-1 | 0.15 | 0.64 | 0.12 | 0.54 | 0.008 | 0.035 | 0.003 | 0.011 | 0.011 | 0.049 | 0.011 | 0.049 | 0 | 0.0001 | - | - | ☑ |
| Edit | EQPT-10 | Active 05/04/2021 | LOAD | - | - | - | - | 1.80 | 0.14 | - | - | - | - | - | - | 0.001 | 0 | - | - | ☑ |
| Edit | RPNT-2 | Active 05/04/2021 | MALF | - | - | - | - | - | 10 | - | - | - | - | - | - | 3 | 2 | - | - | ☑ |
| Edit | EQPT-11 | Active 05/04/2021 | RBL-1 | 0.10 | 0.43 | 0.082 | 0.36 | 0.005 | 0.024 | 0.002 | 0.008 | 0.007 | 0.033 | 0.007 | 0.033 | 0 | 0 | - | - | ☑ |
| Edit | RPNT-3 | Active 05/04/2021 | SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-12 | Active 05/04/2021 | TK-1 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | EQPT-14 | Active 05/04/2021 | TK-3 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | EQPT-16 | | ENG-2 | 2.06 | 9.05 | 3.15 | 13.8 | 2.18 | 9.51 | 0.023 | 0.99 | 0.17 | 0.73 | 0.17 | 0.73 | - | - | - | - | ☑ |
| Edit | EQPT-17 | | ENG-3 | 2.06 | 9.05 | 3.15 | 13.8 | 2.18 | 9.51 | 0.023 | 0.99 | 0.17 | 0.73 | 0.17 | 0.73 | - | - | - | - | ☑ |
| Edit | EQPT-18 | | ENG-4 | 2.06 | 9.05 | 3.15 | 13.8 | 2.18 | 9.51 | 0.023 | 0.99 | 0.17 | 0.73 | 0.17 | 0.73 | - | - | - | - | ☑ |
| Edit | EQPT-19 | | ENG-5 | 2.06 | 9.05 | 3.15 | 13.8 | 2.18 | 9.51 | 0.023 | 0.99 | 0.17 | 0.73 | 0.17 | 0.73 | - | - | - | - | ☑ |
| Edit | EQPT-20 | | ENG-6 | 2.06 | 9.05 | 3.15 | 13.8 | 2.18 | 9.51 | 0.023 | 0.99 | 0.17 | 0.73 | 0.17 | 0.73 | - | - | - | - | ☑ |
| Edit | EQPT-21 | | TK-2 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | 0 | 0 | - | - | ☑ |
| | | | **SSM Totals** | 0.02 | 0.07 | 0.03 | 0.14 | 0.06 | 10.27 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 2.0 | 0.0 | 0.0 | |
| | | | **Totals** | 13.37 | 58.67 | 17.46 | 76.52 | 15.99 | 82.15 | 0.18 | 5.07 | 1.0 | 4.28 | 1.0 | 4.28 | 6.0 | 4.0 | 0.0 | 0.0 | |

**[1]Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**Comments** (2000 character maximum)

## Table 2-F: Startup, Shutdown, and Routine Maintenance (SSM) Emissions

☐ **This table is intentionally left blank as all SSM emissions at this facility do not require an increase in Requested Allowables greater than those listed in Table 2-E.**

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)2, including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). Provide emissions calculations for all SSM emissions reported in this table. Refer to the guidance "Startup, Shutdown, Maintenance Emissions in Permits" (www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | EQPT-1 | Active 05/04/2021 | DEHY | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-2 | Active 05/04/2021 | ENG-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-8 | Active 05/04/2021 | FL-1 | 0.016 | 0.070 | 0.032 | 0.14 | 0.061 | 0.27 | 0.0007 | 0.003 | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | RPNT-1 | Active 05/04/2021 | FUG | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-9 | Active 05/04/2021 | HTR-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-10 | Active 05/04/2021 | LOAD | | | | | | | | | | | | | | | | | ☑ |
| Edit | RPNT-2 | Active 05/04/2021 | MALF | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-11 | Active 05/04/2021 | RBL-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | RPNT-3 | Active 05/04/2021 | SSM | - | - | - | - | - | 10 | - | - | - | - | - | - | 3 | 2 | - | - | ☑ |
| Edit | EQPT-12 | Active 05/04/2021 | TK-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-14 | Active 05/04/2021 | TK-3 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-16 | | ENG-2 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-17 | | ENG-3 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-18 | | ENG-4 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-19 | | ENG-5 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-20 | | ENG-6 | | | | | | | | | | | | | | | | | ☑ |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | **EQPT-21** | | TK-2 | | | | | | | | | | | | | | | | | ☑ |
| | | | **Totals** | 0.016 | 0.07 | 0.032 | 0.14 | 0.061 | 10.27 | 0.001 | 0.003 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 2.0 | 0.0 | 0.0 | |

**[1]Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**[2]For instance, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in the table below. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.**

**Comments** (2000 character maximum)

## Table 2-H: Stack Exit Conditions

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Please enter the stack information for the original source, not the control or reduction equipment.

For equipment that doesn't have an actual stack or fugitive stack please just list it as having a default fugitive stack with a height of 10 ft. This field is required by our database.

| Edit | Stack Description | Serving Unit Number(s) from Table 2-A | Orientation (H=Horizontal V=Vertical) | Rain Caps (Yes or No) | Height Above Ground (ft) | Temp. (F) | Flow Rate (acfs) | Flow Rate (dscfs) | Moisture by Volume (%) | Velocity (ft/sec) | Inside Diameter (ft) | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | DEHY | DEHY | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | ENG-1 | ENG-1 | Vertical | No | 28 | 835 | 197 | | | 90.2 | 1.67 | ☑ |
| Edit | FL-1 | FL-1 | Vertical | No | 40 | 1832 | 45 | | | 25.6 | 1.5 | ☑ |
| Edit | FUG | FUG | Fugitive | No | 3 | | | | | | | ☑ |
| Edit | HTR-1 | HTR-1 | Vertical | No | 20 | 600 | 10.2 | | | 0.36 | 6 | ☑ |
| Edit | LOAD | LOAD | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | MALF | MALF | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | RBL-1 | RBL-1 | Vertical | No | 8 | 600 | 6.82 | | | 0.71 | 3.50 | ☑ |
| Edit | SSM | SSM | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | TK-1 | TK-1 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | TK-3 | TK-3 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | ENG-2 | ENG-2 | Vertical | No | 29 | 779 | 258 | | | 82.3 | 2 | ☑ |
| Edit | ENG-3 | ENG-3 | Vertical | No | 29 | 779 | 258 | | | 82.3 | 2 | ☑ |
| Edit | ENG-4 | ENG-4 | Vertical | No | 29 | 779 | 258 | | | 82.3 | 2 | ☑ |
| Edit | ENG-5 | ENG-5 | Vertical | No | 29 | 779 | 258 | | | 82.3 | 2 | ☑ |
| Edit | ENG-6 | ENG-6 | Vertical | No | 29 | 779 | 258 | | | 82.3 | 2 | ☑ |
| Edit | TK-2 | TK-2 | Fugitive | No | 24 | | | | | | | ☑ |

Add Stack Conditions to Select one Add

**Comments** (2000 character maximum)

## Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

☐ **By marking this table as intentionally left blank, you certify that the Total and individual HAPs for this facility are less than 1 ton per year.**

Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.

**GCPs:** Report the potential emission rate for each HAP from each HAP emitting emission unit listed in Table 2A. For each emission unit, HAPs shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Emissions less than 0.0001 lb/hr or 0.0001 tpy and emission units that do not emit HAPs shall be omitted from the table. Each facility-wide Individual HAP total and the facility-wide Total HAPs is the sum of all HAP sources entered in the Table. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAA. Include tank-flashing emission estimates of HAP in this table.

**NOIs:** Report the individual and/or Total HAPs for each piece of equipment in Table 2A, only if the facility total for that pollutant is greater than or equal to 1 tpy.

| Edit | Unit No. | Total HAPs | | Formaldehyde HAP | | Acetaldehyde; (Ethyl aldehyde) HAP | | Acrolein HAP | | Hexane HAP | | Benzene HAP | | Toluene; (Methyl benzene) HAP | | Ethylbenzene HAP | | Xylenes (total); (Xylol) HAP | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | ENG-1 | 0.48 | 2.10 | 0.31 | 1.36 | 0.10 | 0.46 | 0.064 | 0.46 | | | | | | | | | | | ☑ |
| Edit | FL-1 | 0.001 | 0.002 | | | | | | | | 0.002 | | | | | | | | | ☑ |
| Edit | FUG | 0.005 | 0.021 | | | | | | | 0.001 | 0.004 | 0.001 | 0.004 | 0.001 | 0.004 | 0.001 | 0.004 | 0.001 | 0.004 | ☑ |
| Edit | LOAD | 0.001 | | | | | | | | | | 0.001 | | | | | | | | ☑ |
| Edit | MALF | | 1.0 | | | | | | | | | | | | | | | | | ☑ |
| Edit | SSM | | 1.0 | | | | | | | | | | | | | | | | | ☑ |
| Edit | TK-1 | | 0.001 | | | | | | | | | | 0.001 | | | | | | | ☑ |
| Edit | TK-3 | | 0.002 | | | | | | | | | | 0.001 | | | | | | | ☑ |
| Edit | ENG-2 | 0.45 | 1.98 | 0.22 | 0.97 | 0.14 | 0.63 | 0.088 | 0.63 | | | | | | | | | | | ☑ |
| Edit | ENG-3 | 0.45 | 1.98 | 0.22 | 0.97 | 0.14 | 0.63 | 0.088 | 0.63 | | | | | | | | | | | ☑ |
| Edit | ENG-4 | 0.45 | 1.98 | 0.22 | 0.97 | 0.14 | 0.63 | 0.088 | 0.63 | | | | | | | | | | | ☑ |
| Edit | ENG-5 | 0.45 | 1.98 | 0.22 | 0.97 | 0.14 | 0.63 | 0.088 | 0.63 | | | | | | | | | | | ☑ |
| Edit | ENG-6 | 0.45 | 1.98 | 0.22 | 0.97 | 0.14 | 0.63 | 0.088 | 0.63 | | | | | | | | | | | ☑ |
| Edit | TK-2 | | 0.001 | | | | | | | | | | 0.001 | | | | | | | ☑ |
| | **Totals** | 2.74 | 14.03 | 1.41 | 6.21 | 0.8 | 3.61 | 0.5 | 3.61 | 0.0 | 0.01 | 0.0 | 0.01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

Add Stack Emissions to Select one Add

**Comments** (2000 character maximum)

## Table 2-J: Fuel Usage

☐ **This Table was intentionally left blank.**

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Specify fuel characteristics and usage. This information should be for fuel used to operate the equipment (e.g. the pilot) not the amount of gas or fuel processed.

| Edit | Unit No. | Fuel Type (No. 2 Diesel, Natural Gas, Coal, ...) | Specify Units | | | | | Complete |
|---|---|---|---|---|---|---|---|---|
| | | | Lower Heating Value | Hourly Usage | Annual Usage (maximum) | % Sulfur | % Ash | |
| Edit | ENG-1 | Natural Gas | 1233 BTU/SCF | | 122 MM SCF/y | | | ☑ |
| Edit | FL-1 | Natural Gas | 2309 BTU/SCF | | 0.88 MM SCF/y | | | ☑ |
| Edit | HTR-1 | Natural Gas | 1232 BTU/SCF | | 17.8 MM SCF/y | | | ☑ |
| Edit | RBL-1 | Natural Gas | 1232 BTU/SCF | | 11.9 MM SCF/y | | | ☑ |
| Edit | ENG-2 | Natural Gas | 1233 BTU/SCF | | 122 MM SCF/y | | | ☑ |
| Edit | ENG-3 | Natural Gas | 1233 BTU/SCF | | 122 MM SCF/y | | | ☑ |
| Edit | ENG-4 | Natural Gas | 1233 BTU/SCF | | 122 MM SCF/y | | | ☑ |
| Edit | ENG-5 | Natural Gas | 1233 BTU/SCF | | 122 MM SCF/y | | | ☑ |
| Edit | ENG-6 | Natural Gas | 1233 BTU/SCF | | 122 MM SCF/y | | | ☑ |

**Comments** (2000 character maximum)

## Table 2-L: Tank Data

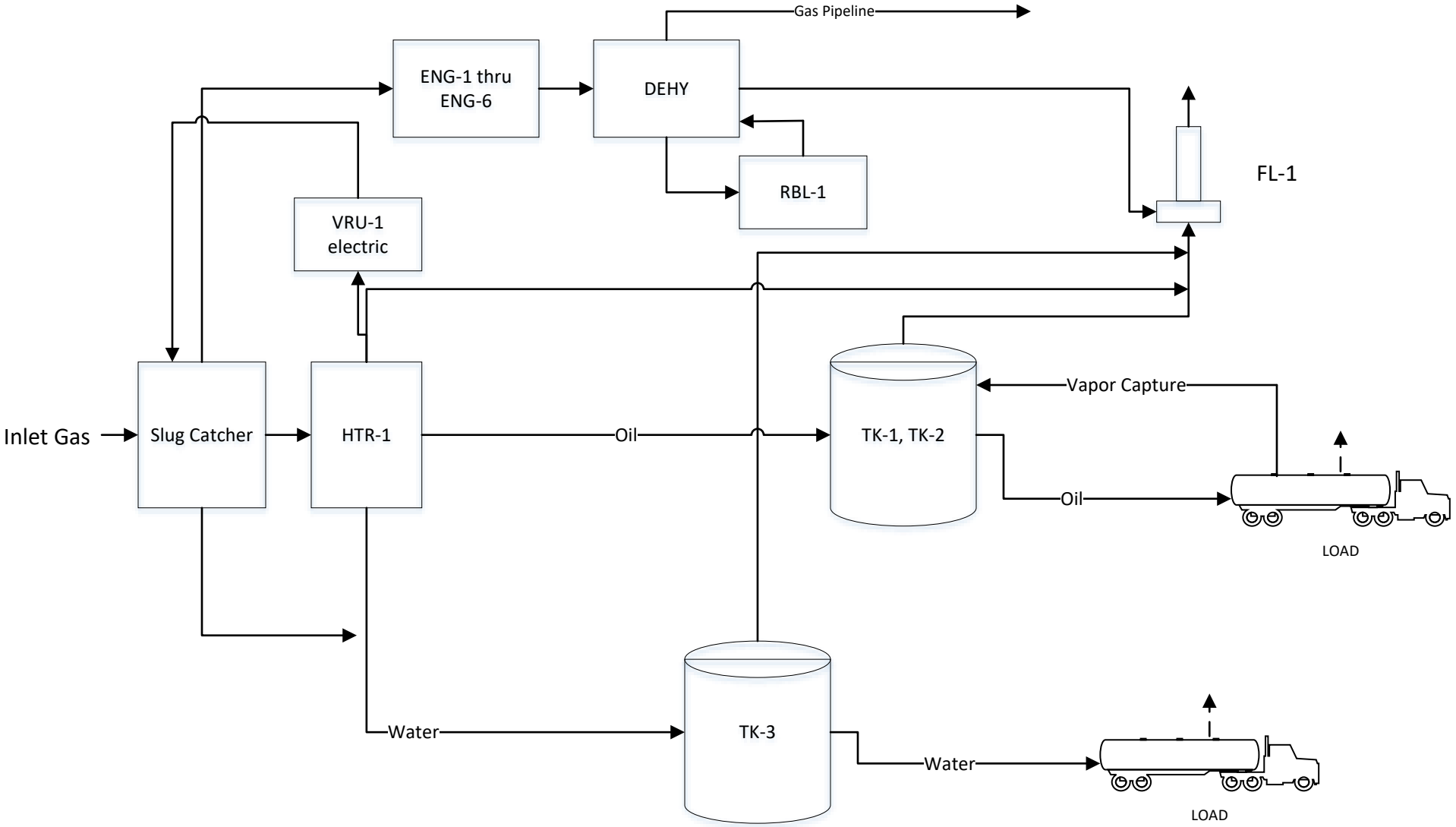
**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Include appropriate tank-flashing modeling input data. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

| Edit | Unit No. | Date Installed | Materials Stored | Seal Type (refer to Table 2-LR) | Roof Type (refer to Table 2-LR) | Capacity | | Diameter (M) | Vapor Space (M) | Color (from Table VI-C) | | Paint Condition (from Table VI-C) | Annual Throughput (gal/yr) | Turn-overs (per year) | Completed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | (bbl) | ($M^3$) | | | Roof | Shell | | | | |
| Edit | TK-1 | | Condensate | | Vertical - Fixed Roof | 400.00 bbl | | | | | | | 1188842 | 70.80 | ☑ |
| Edit | TK-3 | | Produced Water | | Vertical - Fixed Roof | 400.00 bbl | | | | | | | 461433 | 27.50 | ☑ |
| Edit | TK-2 | | Condensate | | Vertical - Fixed Roof | 400.00 bbl | | | | | | | 1188842 | 70.80 | ☑ |

**Comments** (2000 character maximum)

# PROCESS FLOW DIAGRAM




eog resources

Date: 6/24/2022
Drawn by: CE

New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico, 87505

Phone (505) 476-4300
Fax (505) 476-4375
www.env.nm.gov/aqb

**AQB ePermitting Portal**

# Abbreviated Application (GCP-Oil and Gas)

☒ 1. I understand that I must submit the hard copy check and required Payment Information form for all AQB ePermitting Portal Submittals before it will be assigned, and the 30-day review period begins. (Does not apply if you are converting from a GCP-1 or GCP-4 Permit)

☒ 2. I understand the AQB ePermitting Portal is currently in Beta Testing and I will use the Request NMED Support function in the Portal to: request help, report issues (bugs), and to provide my constructive feedback for improving the Portal.

# Section 1
## Facility Name or Facility Type Change for Modifications

---

Fill out this section if requesting a change to the facility name or facility type that appears in the ePermitting Portal. These items cannot be updated through the Portal and will be corrected as part of the review of your permit.

---

Check the appropriate box(es) and provide complete information in the table.
☒ **Not applicable**
☐ 1. Changing facility name.
☐ 2. Changing facility type.

| | | | |
|---|---|---|---|
| **1a** | **Current Facility Name:** | **1b** | **New Facility Name:** |
| **2a** | **Current Facility Type:**<br>☐ Production Site<br>☐ Tank Battery<br>☐ Compressor Station<br>☐ Natural Gas Plant<br>☐ Reinjection facility<br>☐ Well head<br>☐ Misc Oil and Gas<br>☐ Amine Plant<br>☐ Energy Support Facility<br>☐ Other, please specify:_____ | **2b** | **New Facility Type:**<br>☐ Production Site<br>☐ Tank Battery<br>☐ Compressor Station<br>☐ Natural Gas Plant<br>☐ Reinjection facility<br>☐ Well head<br>☐ Misc Oil and Gas<br>☐ Amine Plant<br>☐ Energy Support Facility |

# Table 2-B: Exempted Equipment (20.2.72 NMAC)

All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 202.B.5 "similar functions" units, operations, and activities in Section 5, Calculations. Unit & stack numbering must be consistent throughout the application package.

| Unit Number | Source Description | Manufacturer | Model No / Serial No | Max Capacity / Capacity Units | List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) | Date of Manufacture /Reconstruction1 / Date of Installation /Construction | For Each Piece of Equipment, Check One | |
|---|---|---|---|---|---|---|---|---|
| Haul | Unpaved Haul Roads | N/A | N/A<br>N/A | N/A<br>N/A | 20.2.72.202.B(5) NMAC | N/A<br>N/A | ■ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| G-TK | Glycol Tank | TBD | TBD<br>TBD | 500<br>gallons | 20.2.72.202.B(5) NMAC | TBD<br>TBD | ■ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| LO-TK | Lube Oil Tank | TBD | TBD<br>TBD | 500<br>gallons | 20.2.72.202.B(5) NMAC | TBD<br>TBD | ■ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |
| | | | | | | | □ Existing (unchanged)<br>□ New/Additional<br>□ To Be Modified | □ To be Removed<br>□ Replacement Unit<br>□ To be Replaced |

# Section 3
## Registration Summary

---

**The Registration Summary:** Provide information about the registration submittal. The Registration Summary shall include a brief description of the facility and its process. In case of a modification to a facility, please describe the proposed changes.

---

**Registration Summary:** EOG Resources, Inc. (EOG) is submitting this application pursuant to 20.2.72.200.A NMAC for the Bald Eagle LGL (Localized Gas Lift) Station (Bald Eagle) to revise its existing permit. This revision is to update The Caterpillar engines emission factors. The facility compresses and dehydrates natural gas that is injected into oil wells to stimulate oil production. Bald Eagle is located approximately 17.3 miles northwest of Jal in Lea County, New Mexico. This facility has already been public noticed for a GCP O&G.

**Written description of the routine operations of the facility:**
The Bald Eagle LGL Station is a localized gas lift station and will compress and dehydrate natural gas that is then injected into oil wells to stimulate oil production. The inlet gas stream is separated into two phases (liquid and gas) as it passes through a slug catcher.

The water and hydrocarbon liquids are sent to a 3-phase heated separator where condensate and produced water are separated from gaseous hydrocarbons. The condensate and produced water are sent to their respective storage tanks. Flash gas and working and breathing emissions from the tanks are controlled by the process flare. The gas from the 3-phase heated separator is sent to a VRU where it is compressed and routed back to the slug catcher as a recycle stream. In the event of VRU downtime, the gas from the heated separator is routed to the process flare.

The gas from the slug catcher is sent to the engines for compression, and the compressed gas is then sent to a filter separator where gas is separated from the liquids. These liquids are routed back as a recycle stream to the initial stream entering the slug catcher. The gas from the filter separator (dehydrator inlet separator) is routed to the glycol contactor.

The TEG dehydrator removes water from the gas stream entering the glycol contactor. Dehydrated gas leaves, passes through a heat exchanger and is sent to oil wells and is used for fuel. Once lean TEG absorbs the water from the gas stream, it leaves as a rich stream from the bottom of the contactor which is then sent to a flash tank where gaseous hydrocarbons are routed to the VRU (or flare in event of VRU downtime). The TEG is then sent to the glycol regenerator (and associated reboiler) where the TEG is reconcentrated by removal of the water. The water vapor is sent to a BTEX condenser and subsequent water knockout vessel. The BTEX vapors are routed to the flare and the separated water is routed to the produced water tank. The lean TEG leaving the regenerator passes through a heat exchanger where it is cooled and then recycled and reintroduced to the glycol contactor where the dehydration process begins again.

The vapor recovery unit (VRU) is designed to minimize economic losses by stabilizing vapors before entering storage in the oil tanks and recovering salable vapors to send to the sales gas line. The VRU is part of the physical and operational design of the facility. This is consistent with the discussions of the use of VRUs to route vapors to a sales gas line in the September 28, 2012 EPA response letter to API regarding NSPS OOOO.

**Routine or predictable emissions during Startup, Shutdown and Maintenance (SSM):** EOG is requesting 10 tpy VOC, 1 tpy HAP, and 3 lb/hr and 2 tpy $H_2S$ for SSM activities.

☐ No SSM emissions are expected for this facility.

SSM Activities that are being controlled:

**Malfunction Emissions (M):** EOG is requesting 10 tpy VOC, 1 tpy HAP, and 3 lb/hr and 2 tpy $H_2S$ for malfunction emissions.

The permit does not authorize combustion emissions for malfunctions. The permit does not authorize emissions from SSM and Malfunction to be combined as 10 TPY VOC. However, they may be permitted separately. In the allowable emissions table in Section 2, these two events are separate line items and must be kept separate.

☐ No Malfunction emissions are requested for this permit.

**Allowable Operations:** Check the appropriate box below:

☒ Facility operates continuously (8760 hours per year)

☐ The following regulated equipment will operate less than 8760 hours per year. Add additional rows as necessary. These units are subject to Condition A108.C of the Permit.

## Verification of Compliance with Stack Parameter Requirements:

**Please use the Stack Calculator and Stack Requirements Explained Guidance on our website: All of the verification information below is required to be filled out.**

www.env.nm.gov/air-quality/air-quality-oil-and-gas-gcp-application-forms/

Check the box for each type of equipment at this facility:

☒ Engine(s)
☐ Turbine(s)
☒ Flares(s)
☐ Enclosed Combustion Device (s)
☒ Heater(s)
☒ Reboiler(s)

For each type of equipment checked above, complete the applicable section below.

**Engines**

1. Calculate the pound per hour (lb/hr) $NO_x$ emission rate according to GCP O&G Condition A202.I Step 1 on page 15 of the GCP O&G. Enter this value in the top row of the table below.
2. Based on the calculated facility total $NO_x$ emission rate, determine the minimum stack parameter requirements for engines and heaters from Table 1: Engines (page 17) of the GCP O&G and enter the minimum parameters from Table 1 (page 17) of the GCP O&G in the bottom row of the table below.
3. Enter the stack parameters from each engine and heater in the blank rows of the table below. Add rows as necessary.

**Table B: Engine/Generator/Heater/Reboiler Stack Parameter Verification:**

| **Calculated Facility Total NOx Emission Rate: 13.1 lb/hr** | | | | |
|---|---|---|---|---|
| **Engine/Generator/Heater/Reboiler Unit Number** | **Height (ft)** | **Temperature (°F)** | **Velocity (ft/s)** | **Diameter (ft)** |
| HTR-1 | 20 | 600 | 0.36 | 6 |
| RBL-1 | 8 | 600 | 0.71 | 3.5 |
| ENG-1 | 28 | 835 | 90.2 | 1.67 |
| ENG-2 thru ENG-6 | 29 | 779 | 82.3 | 2 |
| **Table 1 Minimum Parameters:** For verification, list the minimum parameters based on the NOx lb/hr emission rate from the GCP O&G Table 1. | 14.8 | 782 | 72.2 | 0.8 |

4. Do all engines and heaters comply with the minimum stack parameters from Table 1 (page 17) of the GCP O&G?

☐ Yes. Skip step 5 below.
☒ No. Go to step 5 below.

5. For engines and heaters that do not comply with the minimum stack parameters in Table 1 of the GCP O&G, explain and demonstrate in detail how the engines and heaters will be authorized according to the steps on page 16 of the GCP O&G or Condition A203.C of the GCP O&G. Show all calculations.

The heater and reboiler (HTR-1, RBL-1) do not meet the minimum height, temperature or velocity requirements listed in Table 1. However, these units are authorized pursuant to GCP-O&G condition A203.C since the total hourly NOX emissions rate is less than 1.23 lb/hr. The engines (ENG-2 thru ENG-6) do not meet the minimum temperature requirement but are at least 6.6 ft taller than the minimum height and are therefore in compliance.

**Turbines**

1. Calculate the pound per hour (lb/hr) $NO_x$ emission rate according to GCP O&G Condition A202.I Step 1 on page 17 of the GCP O&G. Enter this value in the top row of the table below.
2. Based on the calculated facility total $NO_x$ emission rate, determine the minimum stack parameter requirements for turbines and heaters from Table 2: Turbines (page 18) of the GCP O&G. Enter the minimum parameters from Table 2 (page 18) of the GCP O&G in the bottom row of the table below.
3. Enter the stack parameters from each turbine and heater in the blank rows of the table below. Add rows as necessary.

**Table C: Turbine/Heater/Reboiler Stack Parameter Verification:**

| **Calculated Facility Total NOx Emission Rate: _____lb/hr** | | | | |
|---|---|---|---|---|
| **Turbine/Heater/Reboiler Unit Number** | **Height (ft)** | **Temperature (°F)** | **Velocity (ft/s)** | **Diameter (ft)** |
| | | | | |
| | | | | |
| | | | | |
| **Table 2 Minimum Parameters:** For verification, list the minimum parameters based on the NOx lb/hr emission rate from the GCP O&G Table 2. | | | | |

4. Do all turbines and heaters comply with the minimum stack parameters from Table 2 (page 18) of the GCP O&G?

☐ Yes. Skip step 5 below.

☐ No. Go to step 5 below.

5. For turbines and heaters that do not comply with the minimum stack parameters in Table 2 of the GCP O&G, explain and demonstrate in detail how the turbines and heaters will be authorized according to the steps on page 18 of the GCP O&G or Condition A203.C of the GCP O&G. Show all calculations.

**Flares**

1. Enter $SO_2$ emission rates (lb/hr) for each flare in the second column of the table below.
2. Based on the $SO_2$ emission rates, determine the minimum stack height requirements for flares from Table 3 (page 26) of the GCP O&G and enter the minimum stack height requirements for flares from Table 3 (page 26) of the GCP O&G in the last column of the table below.
3. Enter the stack height of each flare in the third column of the table below. Add rows as necessary.

**Table D: Flare Stack Height Parameter Verification:**

| Flare Unit Number | $SO_2$ Emission Rate (lb/hr) | Height (ft) | **Table 3 Minimum Stack Height:** For verification, list the minimum height parameters based on the SO2 emission rate from the GCP O&G Table 3. |
|---|---|---|---|
| FL-1 | 0.038 | 40 | 6.6 |
| | | | |
| | | | |
| | | | |

4. Do all flares comply with minimum stack height requirements?
   ☒ Yes
   ☐ No

5. Does the flare gas contain 6% $H_2S$ or less by volume (pre-combustion)?
   ☒ Yes. Skip step 6 below.
   ☐ No. Go to step 6 below.

6. Explain in detail how assist gas will be added to reduce the gas composition to 6% $H_2S$ or less by volume.

**Enclosed Combustion Device(s) (ECD) and Vapor Combustion Unit(s) (VCU):**

According to GCP O&G Condition A208.A, the facility must meet one of the following options if an ECD or VCU is installed at the facility:

Option 1:

1. Will the ECD(s) meet the $SO_2$ emission limit of 0.7 lb/hr and operate with a velocity of at least one (1) foot per second?
   ☐ Yes. Skip Option 2 below.
   ☐ No. Go to Option 2 below.

Option 2:

2. Will the ECD(s) meet the $SO_2$ emission limit of 0.9 lb/hr and operate with a velocity of at least two (2) feet per second?
   ☐ Yes
   ☐ No

# Section 5

## Emissions Calculation Forms

The Department has developed the Air Emissions Calculation Tool (AECT), which is required to be used in the GCP-Oil and Gas Registration. If the AECT, for a piece of equipment is under development, provide alternate calculations. **Do not include alternative calculations unless there is an issue being resolved with the AECT. This will delay review of the application.** The AECT and this Registration Form may be updated as needed.

**Tank Emissions Calculations**: Provide the method used to estimate tank-flashing emissions, the input and output summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Pro-Max or Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation. **The inputs must match the gas analyses information submitted. Inputs that don't match may be grounds for denial of the application submittal.**

**SSM Calculations**: In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Table 2, and the rational for why the others are reported as zero (or left blank).

**Control Devices:** Report all control devices and list each pollutant controlled by the control device. Indicate in this section if you chose to not take credit for the reduction in emission rates. Only uncontrolled emission rates can be considered to determine applicability unless the state or federal acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

**Calculation Details:** The AECT is required for all emission calculations. If the AECT is not functioning, alternative calculations may be submitted only for the portions of the AECT with issues being resolved. Utilize this section to explain in detail, on an equipment-by-equipment basis, why alternative calculations are necessary.

**Explain here:**

---

**Equipment Forms attached for this section (add additional rows as necessary):**

| Equipment Type | Quantity | Check Box to Indicate Units that are Controlled | Enter Control Device Type and Pollutant Controlled |
|---|---|---|---|
| **Engine** | **6** | ☒ | *CO, VOC, HCHO* |
| **Turbine** | | ☐ | |
| **Tanks** | **3** | ☒ | *Flare (VOC, HAP, H2S)* |
| **Generator** | | ☐ | |
| **VRU** | **1** | ☒ | *Flare (VOC, HAP, H2S)* |
| **VRT** | | ☐ | |
| **ULPS** | | ☐ | |
| **Glycol Dehydrator** | **1** | ☒ | *Flare (VOC, HAP, H2S)* |
| **Flare** | **1** | ☐ | *Tanks, Loading, VRU downtime, Dehydrator* |
| **Amine Unit** | | ☐ | |
| **Cryogenic Unit** | | ☐ | |
| **Fugitive Emissions** | **1** | ☐ | |
| **Heater** | **1** | ☐ | |
| **Truck Loading** | **1** | ☒ | *Vapor capture, Flare (VOC, HAP, H2S)* |
| **Enclosed Combustion Device (ECD)** | | ☐ | |
| **Thermal Oxidizer (TO)** | | ☐ | |
| **Reboiler** | **1** | ☐ | |

| | | | |
|---|---|---|---|
| **Other** | | ☐ | |

**For each scenario below, if there are more than one emissions unit, control device, or gas combustion scenario. Please copy and paste each applicable section and label the unit number(s) if the scenarios vary.**

**Vapor Recovery Tower, Ultra Low-Pressure Separator, or Flash Tower Located Upstream of Storage Vessels:** If the facility contains one of the following units located upstream of the storage vessels and is used to flash and capture flashing emissions, check the appropriate box.
Unit number:
☐ Vapor Recovery Tower and VRU Compressor
☐ ULPS and VRU Compressor
☐ Flash Tower and VRU Compressor

**Vapor Recovery Unit (VRU) located upstream of Storage Vessels:** Check the box below if the facility is using a VRU to capture flashing emissions prior to any storage vessels to limit the PTE of the storage vessels to below applicability thresholds of NSPS OOOO or NSPS OOOOa. A process vs control determination should be prepared for this type of VRU application.
Unit number:
☐ VRU capturing emissions prior to any storage vessel and routing directly to the sales pipeline

**Vapor Recovery Unit (VRU) attached to Storage Vessels:** Check the box below if this facility is using a VRU to reduce storage vessel emissions to limit the PTE to below NSPS OOOO or NSPS OOOOa applicability thresholds:
Unit number:
☐ VRU controlling Storage Vessel emissions and the facility is subject to the requirements under NSPS OOOO, 40 CFR 60.5411
☐ VRU controlling Storage Vessel emissions and the facility is subject to the requirements under NSPS OOOOa, 40 CFR 60.5411a

**Gas Combustion Scenarios:** Read through the scenarios below and check the boxes next to any appropriate facility operating scenarios. Flares shall assume a destruction efficiency of 95%, unless the facility is subject to requirements for flares under 40 CFR 60.18, or a higher destruction efficiency (up to 98%) is supported by a manufacturer specification sheet (MSS) for that unit. If so, include the MSS.

A flare, vapor combustion unit (VCU), enclosed combustion device (ECD), thermal oxidizer (TO):
Unit number: FL-1
☐ Controls storage vessels in accordance with 40 CFR 60, Subpart OOOO or OOOOa.
☒ Provides a federally enforceable control for the storage vessels to limit the PTE to below applicability thresholds of 40 CFR 60, Subpart OOOO or OOOOa.
☒ Controls the glycol dehydrator
☐ Controls the amine unit
☒ Controls truck loading
☒ Operates only during maintenance events, such as VRU downtime, check one below:
  ☐ The emissions during VRU downtime are represented as uncontrolled VOC emissions from the compressor
  ☒ The combustion emissions during VRU downtime are represented as controlled emissions from the combustion device

☐ Controls the facility during plant turnaround

**Amine Unit:** Provide the following information for each amine unit.

| | |
|---|---|
| Design Capacity in MMscf/day | |
| Rich Amine Flowrate in gal/min | |
| Lean Amine Flowrate in gal/min | |
| Mole Loading $H_2S$ | |
| Sour Gas Input in MMscf/day | |

**Glycol Dehydration Unit(s):** Provide the following information for each glycol dehydration unit:
Please include an extended gas analysis in Section 6 of this application.

| Unit # | Glycol Pump Circulation Rate |
|---|---|
| DEHY | 10 gpm |

**Voluntary Monitoring in Accordance with §40 CFR 60.5416(a):** Check the box(s) to implement a program that meets the requirements of 40 CFR 60.5416(a). This monitoring program will be conducted in lieu of the monitoring requirements established in the GCP-Oil and Gas for individual equipment. Ceasing to implement this alternative monitoring must be reported in an updated Registration Form to the Department.

☐ Condition A205.B Control Device Options, Requirements, and Inspections for Tanks
☐ Condition A206.B Truck Loading Control Device Inspection
☐ Condition A206.C Vapor Balancing During Truck Loading
☐ Condition A209.A Vapor Recovery Unit or Department-approved Equivalent
☐ Condition A210.B Amine Unit Control Device Inspection

**Fugitive $H_2S$ Screening Threshold and Monitoring in accordance with Condition A212:** Check the box that applies.

☒ Condition A212.A does not apply because the facility is below the fugitive $H_2S$ screening threshold in Condition A212, or

☐ Condition A212.A applies. Because the facility is above the fugitive $H_2S$ screening threshold in Condition A212, or the facility is voluntarily complying with Condition A212.A, and Condition A212.A applies

# Section 6

## Information Used to Determine Emissions

Check the box for each type of information submitted in the required attachments. This documentation is required if applicable to the facility.

**Failure to include applicable supporting documentation may result in application denial.**

☒ Specifications for control equipment, including control efficiency specifications and sufficient engineering data for verification of control equipment operation, including design drawings, test reports, and design parameters that affect normal operation.

☒ Engine or Generator Manufacturer specifications

☒ Catalyst Manufacturer specifications (If a catalyst is being utilized to reduce emissions, the catalyst manufacturer emission factors must be used in all emission calculations. A 25% safety factor may be applied to each pollutant.

☒ NSPS JJJJ emission factors **may not** be utilized in lieu of catalyst manufacture specifications when a catalyst is installed, and the catalysts manufacturer achieves higher control efficiency.

☒ Flare Manufacturer specifications

☐ Oil/Liquid Analysis: This data is required to match the inputs in all applicable emission calculations. For facilities that have not been constructed and a representative analysis is used it cannot be older than 1 year. For existing facilities, the gas analyses required by Condition A201.A (must be 1 year old or less).

☐ Gas Analysis (must be 1 year old or less) This data is required to match the inputs in all applicable emission calculations.

☐ Extended Gas Analysis (must be 1 year old or less) This data is required to match the inputs in all applicable emission calculations.

☒ If requesting to use a representative gas sample, include a discussion of why the sample is representative for this facility and an explanation of how it is representative (e.g., same reservoir, same similar API gravity, similar composition).

☐ If test data are used, to support emissions calculations or to establish allowable emission limits, include a copy of the complete test report. If the test data are for an emissions unit other than the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly effect emission rates.

☐ Fuel specifications sheet.

☒ If computer models are used to estimate emissions, include an input summary and a detailed report, and a disk containing the input file used to run the model.

☒ For tank-flashing emissions, include a discussion of the method used to estimate tank-flashing emissions, accuracy of the model, the **input and output** summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.

---

**Representative Gas Analysis Justification:** The representative analysis is from a site that processes gas from the same producing reservoir/formation as the actual site stream; the gas being handled at the representative site and the actual site have very similar components and properties; and the representative analysis is taken from a site that processes the stream in a similar manner as the actual site.

# Section 8A

## Applicable State & Federal Regulations

**Provide a discussion demonstrating compliance with each applicable state & federal regulation**. All input cells should be filled in, even if the response is 'No' or 'N/A'.

In the "Justification" column, identify the criteria that are critical to the applicability determination, numbering each. For each unit listed in the "Applies to Unit No(s)" column, after each listed unit, include the lowest level citation of the applicable regulation. For each unit, list the information necessary to verify the applicability of the regulation, including date of manufacture, date of construction, size (hp), and combustion type. Doing so will provide the applicability criteria for each unit.

### Applicable STATE REGULATIONS:

| STATE REGU-LATIONS CITATION | Title | Federally Enforceable | Overview of Regulation | Unit(s) or Facility | Applies? (Yes or No) | JUSTIFICATION: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|
| 20.2.1 NMAC | General Provisions | Yes | General Provisions apply to Notice of Intent, Construction, and Title V permit applications. | Facility | Yes | EOG Resources, Inc. will comply with the applicable requirements for the entire facility. |
| 20.2.3 NMAC | Ambient Air Quality Standards NMAAQS | Yes | 20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of Sulfur Compounds, Carbon Monoxide, and Nitrogen Dioxide. | Facility | Yes | NAAQS is applicable. Per NMED guidance, documentation of compliance with GCP requirements constitutes documentation of compliance with NAAQS. |
| 20.2.7 NMAC | Excess Emissions | Yes | If your entire facility or individual pieces of equipment are subject to emissions limits in a permit or numerical emissions standards in a federal or state regulation, this applies. | Facility | Yes | EOG Resources, Inc. will comply with the applicable requirements for the entire facility. |
| 20.2.38 NMAC | Hydrocarbon Storage Facility | No | Use the regulation link (left) then cut & paste applicable sections. | N/A | No | The facility is not subject to this regulation for the following reasons:<br>(a) This facility does not store hydrocarbons containing hydrogen sulfide in a container associated with a petroleum production facility of petroleum processing facility having a capacity of 20,000 gallons or greater with a throughput of at least 30,000 gallons per week (20.2.38.109);<br>(b)The tank battery or storage facility is not within a municipality (20.2.38.110) or within five miles of a municipality (20.2.38.111);<br>(c) This facility is not a new tank battery with a |

| STATE REGU-LATIONS CITATION | Title | Federally Enforceable | Overview of Regulation | Unit(s) or Facility | Applies? (Yes or No) | JUSTIFICATION: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|
| | | | | | | capacity of 65,000 gallons or greater (20.2.38.112); (d) The facility is not located outside of the Pecos-Permian intrastate air quality control region, located within the corporate limits of any municipality within the state or located within five miles of the corporate limits of any municipality within the state that has a population of 20,000 or greater (20.2.38.113) |
| 20.2.61.109 NMAC | Smoke & Visible Emissions | No | Engines and heaters are Stationary Combustion Equipment. Specify units subject to this regulation. | HTR-1, RBL-1, ENG-1 thru ENG-6, FL-1 | Yes | EOG Resources, Inc. does not expect visible emissions from the gas fired heater, reboiler, engines, or flare to equal or exceed 20% opacity. |
| 20.2.73 NMAC | NOI & Emissions Inventory Requirements | Yes | NOI: 20.2.73.200 NMAC applies to all facilities emitting over 10 TPY of any regulated air contaminate. Thus, permitted facilities are also subject to this rule. This GCP-O&G registration also serves the purpose of meeting 20.2.73 the NMAC notification requirements.)<br><br>Emissions Inventory: 20.2.73.300.A(1) NMAC applies to facilities registering under the GCP. Emission Inventory reporting is required upon request by the department per 20.2.73.300.B(4) NMAC. | Facility | Yes | Under 20.2.73.300.B(4) NMAC, the NMED is requesting emissions inventory reporting from minor sources for **calendar year 2020**. |
| 20.2.77 NMAC | New Source Performance | Yes | This is a stationary source which is subject to the requirements of 40 CFR Part 60, as amended on the date of certification. | ENG-1 thru ENG-6, FUG | Yes | This is a stationary source, which is subject to the requirements of 40 CFR Part 60, therefore, this regulation applies to the facility. |
| 20.2.78 NMAC | Emission Standards for HAPS | Yes | This facility emits hazardous air pollutants which are subject to the requirements of 40 CFR Part 61, as amended on the date of certification. | N/A | No | Does not apply. There are no applicable NESHAP standards. |

| STATE REGU-LATIONS CITATION | Title | Federally Enforceable | Overview of Regulation | Unit(s) or Facility | Applies? (Yes or No) | JUSTIFICATION: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|
| 20.2.82 NMAC | MACT Standards for source categories of HAPS | Yes | This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63, as amended on the date of certification. | ENG-1 thru ENG-6, DEHY | Yes | This facility has sources which are subject to 40 CFR 63 and therefore, this regulation applies to this facility. |

**Applicable FEDERAL REGULATIONS (This is not an exhaustive list; add applicable regulations such as NSPS GG and KKKK):**

| FEDERAL REGU-LATIONS CITATION | Title | Overview of Regulation | Units(s) or Facility | Applies? (Yes or No) | JUSTIFICATION: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m3, 3. VOL) |
|---|---|---|---|---|---|
| 40 CFR 50 | NAAQS | Defined as applicable at 20.2.70.7.E.11, Any national ambient air quality standard | Facility | Yes | NAAQS is applicable. Per NMED guidance, documentation of compliance with GCP-Oil and Gas requirements constitutes documentation of compliance with NAAQS. |
| 40 CFR 60, Subpart A | General Provisions | Applies if any other NSPS subpart applies. | ENG-1 thru ENG-6, FUG | Yes | This facility is subject to 40 CFR 60 Subparts OOOOa and JJJJ and therefore, the general provisions apply. |
| 40 CFR 60, Subpart OOOO | Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015 | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375); centrifugal compressors (60.5380); reciprocating compressors (60.5385): controllers (60.5390); storage vessels (60.5395); equipment leaks (60.5400); sweetening units (60.5405).<br><br>**If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. Centrifugal Compressors 1a-3a are subject to the standards at 60.5380(a)(1) and (2) since we use a control device to reduce emissions)** | N/A | No | Facility was constructed after September 18, 2015. Does not apply. |
| 40 CFR 60, Subpart OOOOa | Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375a); centrifugal compressors (60.5380a); | COMP-1 (ENG-1) thru COMP-6 (ENG-6), FUG | Yes | This subpart applies to fugitive emissions and to the reciprocating compressors which are located a compressor station. |

| FEDERAL REGULATIONS CITATION | Title | Overview of Regulation | Units(s) or Facility | Applies? (Yes or No) | JUSTIFICATION: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m3, 3. VOL) |
|---|---|---|---|---|---|
| | Commenced After September 18, 2015 | reciprocating compressors (60.5385a): controllers (60.5390a); storage vessels (60.5395a); fugitive emissions at well sites and compressor stations (60.5397a); equipment leaks at gas plants (60.5400a); sweetening units (60.5405a). | | | |
| 40 CFR 60, Subpart IIII | Standards of performance for Stationary Compression Ignition Internal Combustion Engines | See 40 CFR 60.4200(a) 1 through 4 to determine applicable category and state engine size, fuel type, and date of manufacture. | N/A | No | Does not apply. |
| 40 CFR 60, Subpart JJJJ | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines | See 40 CFR 60.4230(a), 1 through 5 to determine applicable category and state engine size, fuel type, and date of manufacture. | ENG-1 thru ENG-6 | Yes | The engines are subject to Subpart JJJJ. |
| 40 CFR 63, Subpart A | General Provisions | Applies if any other subpart applies. | ENG-1 thru ENG-6, DEHY | Yes | The engines are subject to Subpart ZZZZ. The dehydrator is subject to Subpart HH. |
| 40 CFR 63, Subpart HH | NESHAP for Glycol Dehydrators | See 40 CFR 63, Subpart HH | DEHY | Yes | This facility is subject to 40 CFR 63 Subpart HH, which includes requirements applicable to area sources with TEG dehydrators. Although the site is not a major source of hazardous air pollutants (HAPs) it is still an area source and therefore this subpart applies. However, since Benzene emissions from the unit are less than 0.90 Mg/yr, the unit is exempt from multiple requirements of 40 CFR 63 pursuant to 40 CFR 63.764(e)(1)(ii).<br>Records will be maintained to demonstrate that the exemption criteria are being met in accordance with 40 CFR 63.774(d)(1). |
| 40 CFR 63, Subpart ZZZZ | NESHAP for Stationary Reciprocating Internal Combustion Engines (**RICE MACT**) | Facilities are subject to this subpart if they own or operate a stationary RICE, except if the stationary RICE is being tested at a stationary RICE test cell/stand. | ENG-1 thru ENG-6 | Yes | The engines are subject to Subpart ZZZZ. |

# Section 8B
# Compliance Test History

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To evaluate the requirement for compliance tests, you must submit a compliance test history. The table below provides an example.

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No compliance history to report.

# Section 9 Proof of Public Notice

## General Posting of Notice

I, _____, the undersigned, certify that on _____ **(DATE),** I posted a true and correct copy of the attached Public Notice in a publicly accessible and conspicuous place, visible from the nearest public road, at the entrance of the property on which the facility is, or is proposed to be, located.

Signed this _____ day of _____, _____,

_____ _____
Signature Date

_____
Printed Name Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

## Newspaper Publication of Notice

☐ An original or copy of the actual newspaper advertisement posted in a newspaper in general circulation in the applicable county is attached. The original or copy of the advertisement includes the header showing the date and newspaper or publication title.

**OR**

☐ An affidavit from the newspaper or publication in general circulation in the applicable county stating that the advertisement was published is attached. The affidavit includes the date of the advertisement's publication, and a legible photocopy of the entire ad.

_____ _____
Signature Date

Cynthia Espinoza Sr. Environmental Engineer
Printed Name Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

# GCP-Oil and Gas PUBLIC NOTICE EXAMPLE

*20.2.72 NMAC – General Permits, Section 220.A(2)(b)ii*

**Use this example for all public notices for GCP-Oil and Gas permits (newspaper notice and site posting notice). Customize this document by modifying or deleting, all bracketed and bold text below. Posting of Public Notice is required at the facility entrance and in the newspaper in general circulation as described in Condition C100.B of the GCP-Oil and Gas Permit. Before printing the final notice, delete this sentence and all preceding and subsequent text in red.**

# NOTICE

**[Name of Company]** announces its intent to apply to the New Mexico Environment Department for an air quality General Construction Permit, **(GCP-Oil and Gas).** The name of this facility is **[Name of Facility]**. The expected date of the submittal of our Registration for an air quality permit to the Air Quality Bureau is **[date].** This notice is a requirement according to New Mexico air quality regulations.

The exact initial location of the facility is/will be **["UTM Zone 12/13, UTM Easting XXX, UTM Northing XXX"** The approximate location of this site is **XX.X** miles **[direction]** of **[town name (preferred) or, if no town within 30 miles, a reasonably close, well known point, such as the intersection of two roads, a well-known landmark, or road mile marker]** in **[county name]** county]. The standard operating schedule of this facility will be continuous.

Air emissions of any regulated air contaminant will be less than or equal to **[do not change the TPY values listed below**]:

| | | Tons per year (TPY) |
|---|---|---|
| 1. | Nitrogen Oxides ($NO_x$) | 95 |
| 2. | Carbon Monoxide (CO) | 95 |
| 3. | Volatile Organic Compounds (VOC) (stack) | 95 |
| 4. | Particulate Matter (PM10) | 25 |
| 5. | Particulate Matter (PM2.5) | 25 |
| 6. | Sulfur Dioxide ($SO_2$) | 95 |
| 7. | Hydrogen Sulfide (H2S) | 25 |
| 8. | Any one (1) Hazardous Air Pollutant (HAP) | <10 |
| 9. | Sum of all Hazardous Air Pollutants (HAPs) | < 25 |

The owner and/or operator of the Plant is:
**[Name, company, street address, city, state, zip code]**

If you have any questions or comments about construction or operation of above facility, and want your comments to be made as a part of the permit review process, you must submit your comments in writing to the address below:

New Mexico Environment Department
Air Quality Bureau Permit Section
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico, 87505
Phone (505) 476-4300
Fax (505) 476-4375

Other comments and questions may be submitted verbally.

**Please refer to the company name and site name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit Registration at the time of this notice.**

**Attención**

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

**Notice of Non-Discrimination**

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kathryn Becker, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.

# APPENDIX O. GCP-O&G # 8932

**Construction Status** Existing Permitted (or NOI) Facility

☑ I acknowledge that a pre-application meeting is available to me upon request.

☑ For new registrations or modifications, a payment for the registration fee will be submitted to the Department for ten fee points for GCP-O&G or $500 for NOIs. We cannot begin processing your action until the full fee is received by the Department in the form of a check or an online ePayment. You will receive an automated email when your action is assigned for review.

☑ There is an annual fee for GCP-O&G in addition to the registration fee: www.env.nm.gov/air-quality/permit-fees-2/ (No annual fee for NOIs. (Facilities qualifying as a 'small business' under 20.2.75.7.F NMAC qualify for reduced fees, provided that NMED has a Small Business Certification Form from your company on file. This form can be found at: www.env.nm.gov/aqb/sbap/Small_Business_Forms.html)

☑ There are required attachments in addition to inputting data in the program. I will include the required attachments.

You have the option to pay your permit application fee electronically or by mailed check. If you opt in for electronic payments, your air permit contact will receive an email notification from the financial provider with an invoice for your fee amount. Please be aware that it may take up to a couple of business days to receive this electronic invoice notification. Please select your payment option bellow.

◉ Check ○ Online Payment

**Send Permit Invoice Email to :**

**Confirm Email :**

Is the facility located in Bernalillo County, on tribal lands, or in a nonattainment area?

○ Yes ◉ No

Is the facility's SIC code 1311, 1321, 4619, 4612 or 4922? (Other SIC codes may be approved provided that all the equipment at the facility is allowed in the GCP-Oil & Gas Permit. Non-Oil and Gas NOIs should use the paper Universal Application.

◉ Yes ○ No

**GCP-O&G Acknowledgements and Applicability**

Do not use Portal for administrative changes identified in the GCP O&G Permit Condition C101.A. Please use the Permitting Administrative Multiform to submit these requests to the department by mail. www.env.nm.gov/air-quality/air-quality-permit-applications-forms-and-related-information/

☑ The emissions specified in this Registration Form will establish the emission limits in the GCP-Oil and Gas.

**1.** This is a GCP-Oil and Gas Registration Form for an existing facility currently operating under GCP-1 or GCP-4? (No fee required)

◉ No ○ Yes

**2.** Does the regulated equipment under this GCP-Oil and Gas Registration include any combination of Allowable Equipment listed in Table 104 of the GCP Oil & Gas Permit, and no others?

◉ Yes ○ No

**3.** Will the regulated equipment as specified in this GCP-Oil and Gas Registration emit less than the total emissions in Table 106 of the GCP-Oil and Gas permit?

◉ Yes ○ No

**4.** Does all equipment comply with the stack parameter requirements as established in the GCP-Oil and Gas Permit?

◉ Yes ○ No

**5.** Equipment shall be at least 100 meters (m) from any stack to terrain that is five (5) or more meters above the top of the stack. Will the equipment at the facility meet this terrain requirement?

◉ Yes ○ No

**6.** Is the facility at least 150 m from any source that emits over 25 tons/year of NOx? This is the distance between the two nearest stacks that emit NOx at each of the facilities. Not the facility boundaries or the center to center distances.

◉ Yes ○ No

**7.** Is the facility at least 3 miles from any Class I area? This is the distance from the nearest facility boundary to the nearest boundary of the Class I area.

◉ Yes ○ No

New Mexico Environment Department
Air Quality Bureau
Permitting Section
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505-1816

Phone: (505) 476-4300
Fax: (505) 476-4375
www.env.nm.gov/air-quality/

**For Department use only:**

# Electronic Permitting Application

**Use this application for NOI and GCP-Oil and Gas Permits.**

Use this application for: the initial application, modifications, revisions and when converting from another permit type. Please fill out all sections so that they have check marks and attach all required documents for review. Coordination with AQB is encouraged for first time users. Please use the Request NMED Support button if you would like to set up a walk through.

## Section 1 - Facility Information

**Section 1-A: Company Information - EOG - Boa Localized Gas Lift Station**
**Last modified by Espinoza, Cynthia on 09-JUL-25.**

| | | | | |
|---|---|---|---|---|
| 1 | **Facility Name:** EOG - Boa Localized Gas Lift Station | | AI # (if known): 39664 | Updating permit #: |
| a | SIC Code: 1311 - Crude petroleum and natural gas<br>NAICS Code: 21113 - Natural Gas Extraction<br>Facility Type: 146 - Oil & Gas  Secondary Facility Type: 272 - O&G-Production Facility | | | Reset Selections |
| 2 | **Company Name (Owns facility):** EOG Resources Inc - Midland Division | | Phone: 432-231-2471 | Fax: |
| a | Mailing Address: 5509 Champions Drive | Address 2: | City: Midland | State: Texas  ZIP Code: 79706 |
| 3 | **Billing Party:** EOG Resources Inc - Midland Division<br>Select an organization | | Phone: 432-231-2471 | Fax: |
| a | Mailing Address: 5509 Champions Drive | Address 2: | City: Midland | State: Texas  ZIP Code: 79706 |
| 4 | **Consultant Company:** Select an organization | | Phone: | Fax: |
| a | Mailing Address: | Address 2: | City: | State:  ZIP Code: |
| 5 | **Consultant / Preparer Contact:**<br>First Name:  M.I.:  Last Name:  Title: | | Phone:  Fax:<br>Email: | |
| a | Mailing Address: | Address 2: | City: | State:  ZIP Code: |
| 6 | **Plant Operator Company:** EOG Resources Inc - Midland Division<br>Select an organization | | | |
| a | Plant Operator Company Address: 5509 Champions Drive | Address 2: | City: Midland | State: Texas  ZIP Code: 79706 |
| b | **Plant Operator Contact:**<br>First Name: Cynthia  M.I.:  Last Name: Espinoza  Title: Engineer | | Phone: 432-231-2471  Fax:<br>Email: cynthia_espinoza@eogresources.com | |
| c | Mailing Address: 5509 Champions Drive | Address 2: | City: Midland | State: Texas  ZIP Code: 79706 |
| 7 | **Air Permit:** Select a person | | | |
| a | **Air Permit Contact:**<br>First Name: Cynthia  M.I.:  Last Name: Espinoza  Title: Engineer | | Phone: 432-231-2471  Fax:<br>Email: cynthia_espinoza@eogresources.com | |
| b | Mailing Address: 5509 Champions Drive | Address 2: | City: Midland | State: Texas  ZIP Code: 79706 |

**Comments** (2000 character maximum)

**Section 1-C: Facility Input Capacity & Production Rate - EOG - Boa Localized Gas Lift Station**
**Last modified by Espinoza, Cynthia on 09-JUL-25.**

Enter the maximum hourly, daily, and annual throughput of oil, gas, natural gas liquids (NGL), and produced water.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **OIL** | | | | | | | |
| a | Current: | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | 7.04 bbl/h | Daily: | 169 bbl/d | Annually: | 61685 | bbl/y |
| 2 | **Natural Gas** | | | | | | | |
| a | Current | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | 2.08 MM SCF/h | Daily: | 50 MM SCF/d | Annually: | 18250 | MM SCF/y |
| 3 | **Natural Gas Liquids** | | | | | | | |
| a | Current | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | | Daily: | | Annually: | | |
| 4 | **Produced Water** | | | | | | | |
| a | Current | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | 0.67 bbl/h | Daily: | 16 bbl/d | Annually: | 5840 | bbl/y |

**Comments** (2000 character maximum)

**Section 1-D: Facility Location Information - EOG - Boa Localized Gas Lift Station**
**Last modified by Espinoza, Cynthia on 09-JUL-25.**

| | | |
|---|---|---|
| 1 | County: Lea | Elevation (ft): 3543 |
| 2 | UTM Zone: ○ 12 or ◉ 13 | Datum: ○ NAD 83 ◉ WGS 84 |
| a | UTM E (in meters, to nearest 10 meters): 631557 | UTM N (in meters, to nearest 10 meters): 3562452 |
| b | Latitude: 32.190928 dec deg. N | Longitude: -103.604355 dec deg. W |
| 3 | Facility/Plant Address: (If no facility street address, leave blank) | City: Jal; State: New Mexico; ZIP Code: 88252; District: 004; Field Office: Select one |
| 4 | The facility is 24.9 miles NW of Jal (nearest town). | |
| 5 | Detailed Driving Instructions from nearest NM town (attach a road map if necessary): From Jal, NM head east toward S 3rd St (46 ft). Turn left onto S 3rd St (0.5 mi). Turn left onto NM-128 W/W Kansas Ave (25.8 mi). | |
| 6 | Status of land at facility: Government - Not Specified | |
| 7 | Select nearest Class I area: Class I - Carlsbad Caverns National Park | |
| 8 | Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 72.2 km | |
| 9 | Is this a portable stationary source as defined in 20.2.72.7.X NMAC? ○ Yes ◉ No | |
| 10 | Will this facility operate in conjunction with other air regulated parties on the same property? ○ Yes ◉ No<br>If yes, what is the name and permit number (if known) of the other facility? | |

**Comments** (2000 character maximum)

**Section 1-E: Proposed Operating Schedule - EOG - Boa Localized Gas Lift Station**
**Last modified by Espinoza, Cynthia on 09-JUL-25.**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Facility **maximum** operating (hours/day): 24 | days/week: 7 | weeks/year: 52 | hours/year: 8760 | |
| 2 | Facility's maximum daily operating schedule (if less than 24 hours/day)? Start Time: | | End Time: | | |
| 3 | Month and year of anticipated start of construction (mm/yyyy): | | | | |
| 4 | Month and year of anticipated construction completion (mm/yyyy): | | | | |
| 5 | Month and year of anticipated startup of new or modified facility (mm/yyyy): | | | | |
| 6 | Will this facility operate at this site for more than one year? ◉ Yes ○ No | | | | |

The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.

**Comments** (2000 character maximum)

**Last modified by Espinoza, Cynthia on 09-JUL-25.**

| **Section 1-F - Current Facility Status - EOG - Boa Localized Gas Lift Station** | | | |
|---|---|---|---|
| 1 | Has this Facility already been constructed?<br>(•) Yes ( ) No | If yes, is it currently operating in New Mexico?<br>(•) Yes ( ) No | |
| 2 | Does this facility currently have a construction permit or Notice of Intent (NOI) (20.2.72 NMAC or 20.2.73 NMAC)?<br>(•) Yes ( ) No | If yes, the permit No or NOI No:<br>8932 | Will it remain active or not:<br>(•) Yes ( ) No |
| 3 | Is this Registration in response to a Notice of Violation (NOV)?<br>( ) Yes (•) No<br>If so, provide current permit #: | If yes,NOV date: | NOV tracking No: |
| 4 | Facility is Synthetic Minor Source | | |

**Comments** (2000 character maximum)

## Table 2-A: Regulated Emission Sources

| Edit | NMED SI ID | Category Type | NMED SI Status | Unit Number[1] | Source Description | Manufacturer | Model # | Serial # | Combustion Type | Rated Capacity[3] | Permitted Capacity[3] | Date[2] of Manufacture or Reconstruction Date[2] of Installation /Construction | Controlled by Unit # Emissions vented to Stack # | Source Classification Code (SCC) | Disposition | Applicable State & Federal Regulation(s) (i.3. 20.x.x, JJJJ, ...) | Complete | Replicate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | EQPT-11 | Equipment Glycol Dehy Still Vent/Flash Tank | Active 09/21/2020 | DEHY | TEG Dehydrator | TBD | TBD | T-1000266-M02 | | 50.00 MM SCFD | 50.00 MM SCFD | 10/01/20 | | 3-10-002-27 | Existing (unchanged) | 40 CFR 63 Subpart HH | ☑ | Replicate |
| Edit | EQPT-2 | Equipment Internal combustion engine | Active 09/21/2020 | ENG-1 | Natural Gas Engine | Caterpillar | G3606 | JFE01701 | | 1875.00 hp | 1875.00 hp | 11/01/19 10/15/20 | Cat | 2-02-002-54 | Existing (unchanged) | 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ | ☑ | Replicate |
| Edit | EQPT-3 | Equipment Internal combustion engine | Active 09/21/2020 | ENG-2 | Natural Gas Engine | Caterpillar | G3606 | JFE01704 | | 1875.00 hp | 1875.00 hp | 11/01/19 10/15/20 | Cat | 2-02-002-54 | Existing (unchanged) | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-4 | Equipment Internal combustion engine | Active 09/21/2020 | ENG-3 | Natural Gas Engine | Caterpillar | G3606 | JFE01697 | | 1875.00 hp | 1875.00 hp | 11/01/19 10/15/20 | Cat | 2-02-002-54 | Existing (unchanged) | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-5 | Equipment Internal combustion engine | Active 09/21/2020 | ENG-4 | Natural Gas Engine | Caterpillar | G3606 | JFE01699 | | 1875 hp | 1875 hp | 11/01/19 10/15/20 | Cat | 2-02-002-54 | Replacement Unit | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-6 | Equipment Internal combustion engine | Active 09/21/2020 | ENG-5 | Natural Gas Engine | Caterpillar | G3608 | XH701517 | | 2500.00 hp | 2500.00 hp | 04/01/20 03/17/21 | Cat | 2-02-002-54 | Existing (unchanged) | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-7 | Equipment Internal combustion engine | Active 09/21/2020 | ENG-6 | Natural Gas Engine | Caterpillar | G3608 | TBD | | 2500.00 hp | 2500.00 hp | | | 2-02-002-54 | To Be Removed | 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ | ☑ | Replicate |
| Edit | EQPT-9 | Equipment Process Flare | Active 09/21/2020 | FL-1 | Process Flare | Aereon | TBD | FS00002344 | Flare | 3.00 MM SCFD | 3.00 MM SCFD | 10/01/20 | | 3-10-001-60 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | RPNT-1 | Release Point Fugitives | Active 09/21/2020 | FUG | Fugitive Emissions | NA | NA | NA | | | | | | 3-10-002-20 | Existing (unchanged) | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-10 | Equipment Separator | Active 09/21/2020 | HTR-1 | Seperator Heater | TBD | TBD | 193361913 | | 0.50 MM BTU/h | 0.50 MM BTU/h | 10/07/20 | | 3-10-004-04 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-8 | Equipment Loading/Unloading Rack | Active 09/21/2020 | LOAD | Condensate Loading | NA | NA | NA | | 2586171 gal/y | 2586171 gal/y | | FL-1 | 4-06-001-32 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | RPNT-2 | Release Point Fugitives | Active 09/21/2020 | MALF | Malfunction | NA | NA | NA | | | | | | 3-10-888-11 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-1 | Equipment Glycol Dehy Reboiler Burner | Active 09/21/2020 | RBL-1 | Deydrator Reboiler | TBD | TBD | 282 | | 1.00 MM BTU/h | 1.00 MM BTU/h | 10/16/20 | | 3-10-002-28 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | RPNT-3 | Release Point Fugitives | Active 09/21/2020 | SSM | Startup, Shutdown, and Maintenance | NA | NA | NA | | | | | | 3-10-888-11 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-12 | Equipment Tank - Above Ground | Active 09/21/2020 | TK-1 | Condensate Tank | TBD | TBD | P000324864000700 | | 400.00 bbl | 400 bbl | 10/07/20 | FL-1 | 4-04-003-12 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-13 | Equipment Tank - Above Ground | Active 09/21/2020 | TK-2 | Condensate Tank | TBD | TBD | P000324864000697 | | 400.00 bbl | 400 bbl/d | 10/07/20 | FL-1 | 4-04-003-12 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-14 | Equipment Tank - Above Ground | Active 09/21/2020 | Tank-3 | Produced Water Tank | TBD | TBD | P000324864000694 | | 400.00 bbl | 1022.65 M gal/y | 10/07/20 | FL-1 | 4-04-003-12 | Existing (unchanged) | NA | ☑ | Replicate |

Add a New Regulated Source

[1] Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.
[2] Specify dates required to determine regulatory applicability. If only year or month is known use 01/01/yyyy or mm/01/yyyy.
[3] To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

## Table 2C - Emissions Reduction Equipment

☐ **This Table was intentionally left blank.**

In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions. **Also include reductions from process equipment in this table. Entering process equipment in this table is for data entry purposes only, the process vs control analysis will be used to determine process or control status for VRUs.** Only list control equipment for TAPs if the TAPs maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B.

| Edit | Reduction Equipment Unit No. | Reduction Equipment Description | Date Installed (mm/dd/yyyy). | Reduced Pollutants | Reducing Emissions for Unit Numbers | Efficiency (% Reduction by Weight) | Method used to estimate reduction | Reduction Type | Complete |
|---|---|---|---|---|---|---|---|---|---|
| Edit | FL-1 | Flare | | Volatile Organic Compounds (VOC) | DEHY | 98 | Design calculation | SECONDARY | ☑ |
| Edit | VRU | Vapor Recovery Unit | | Volatile Organic Compounds (VOC) | DEHY | 95 | Design calculation | PRIMARY | ☑ |
| Edit | VRU | Vapor Recovery Unit | | Hydrogen sulfide (NMAAQ) | DEHY | 95 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Hydrogen sulfide (NMAAQ) | DEHY | 98 | Design calculation | SECONDARY | ☑ |
| Edit | VRU | Vapor Recovery Unit | | Total HAP | DEHY | 95 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Total HAP | DEHY | 98 | Design calculation | SECONDARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Formaldehyde | ENG-1 | 91 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-1 | 66 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Carbon Monoxide | ENG-1 | 91 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Carbon Monoxide | ENG-2 | 91 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Formaldehyde | ENG-2 | 91 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-2 | 66 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Carbon Monoxide | ENG-3 | 91 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Formaldehyde | ENG-3 | 91 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-3 | 66 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Carbon Monoxide | ENG-4 | 91 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Formaldehyde | ENG-4 | 91 | Design calculation | PRIMARY | ☑ |
| Edit | Cat | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-4 | 66 | Design calculation | PRIMARY | ☑ |
| Edit | | Catalytic Oxidation | | Carbon Monoxide | ENG-5 | 91 | Design calculation | PRIMARY | ☑ |
| Edit | | Catalytic Oxidation | | Formaldehyde | ENG-5 | 91 | Design calculation | PRIMARY | ☑ |
| Edit | | Catalytic Oxidation | | Volatile Organic Compounds (VOC) | ENG-5 | 59 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Volatile Organic Compounds (VOC) | LOAD | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Total HAP | LOAD | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Hydrogen sulfide (NMAAQ) | LOAD | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Volatile Organic Compounds (VOC) | TK-1 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Hydrogen sulfide (NMAAQ) | TK-1 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Total HAP | TK-1 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Volatile Organic Compounds (VOC) | TK-2 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Hydrogen sulfide (NMAAQ) | TK-2 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Total HAP | TK-2 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Volatile Organic Compounds (VOC) | Tank-3 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Hydrogen sulfide (NMAAQ) | Tank-3 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 | Flare | | Total HAP | Tank-3 | 98 | Design calculation | PRIMARY | ☑ |

Add Reduction Equipment for Unit [Select one] Add

How to complete the table: In the drop down, select regulated sources from Table 2A where emissions are reduced and click "Add." Then add reduced pollutants and associated reduction devices for each. If a pollutant has emissions reduced by more than one device please add a line for each device and label them as primary, secondary, tertiary. Click "Edit" to update reduced pollutants and devices for each regulated source.

Comments (4000 character maximum)

**List each reduction device and all sources they serve, e.g. FL-1: Oil tanks 1-4, loading, VRU downtime. FL-2: compressor and sales downtime. For NOIs, indicate the enforceability behind each device or clarify if it is voluntary and no credit is being claimed for the reduction, e.g., FL-1: Oil tanks 1-8 (OOOOa). FL-1: Loading (voluntary, no emissions reduction credit claimed.)**

Catalyst: ENG-1, ENG-2
Flare-1: Tank-1 thru Tank-3, Load, Dehy-1, VRU downtime
VRU: Dehy-1

## *Table 2-D: Maximum Emissions* (under normal operating conditions)

**This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | **EQPT-11** | **Active 09/21/2020** | DEHY | - | - | - | - | 72.2 | 316 | - | - | - | - | - | - | 0.004 | 0.020 | - | - | ☑ |
| Edit | **EQPT-2** | **Active 09/21/2020** | ENG-1 | 1.24 | 5.43 | 12.5 | 54.6 | 5.46 | 23.8 | 0.018 | 0.080 | 0.13 | 0.55 | 0.13 | 0.55 | - | - | - | - | ☑ |
| Edit | **EQPT-3** | **Active 09/21/2020** | ENG-2 | 1.24 | 5.43 | 12.5 | 54.6 | 5.46 | 23.8 | 0.018 | 0.080 | 0.13 | 0.55 | 0.13 | 0.55 | - | - | - | - | ☑ |
| Edit | **EQPT-4** | **Active 09/21/2020** | ENG-3 | 1.24 | 5.43 | 12.5 | 54.6 | 5.46 | 23.8 | 0.018 | 0.080 | 0.13 | 0.55 | 0.13 | 0.55 | - | - | - | - | ☑ |
| Edit | **EQPT-5** | **Active 09/21/2020** | ENG-4 | 1.24 | 5.43 | 12.5 | 54.6 | 5.46 | 23.8 | 0.018 | 0.080 | 0.13 | 0.55 | 0.13 | 0.55 | - | - | - | - | ☑ |
| Edit | **EQPT-6** | **Active 09/21/2020** | ENG-5 | 1.65 | 7.24 | 28.0 | 123 | 5.50 | 24.1 | 0.026 | 0.11 | 0.17 | 0.76 | 0.17 | 0.76 | - | - | - | - | ☑ |
| Edit | **EQPT-9** | **Active 09/21/2020** | FL-1 | 0.016 | 0.071 | 0.032 | 0.14 | 0.027 | 0.12 | - | 0.0001 | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | **RPNT-1** | **Active 09/21/2020** | FUG | - | - | - | - | 1.72 | 7.53 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-10** | **Active 09/21/2020** | HTR-1 | 0.054 | 0.24 | 0.045 | 0.20 | 0.003 | 0.013 | 0.0001 | 0.0004 | 0.004 | 0.018 | 0.004 | 0.018 | - | - | - | - | ☑ |
| Edit | **EQPT-8** | **Active 09/21/2020** | LOAD | - | - | - | - | 1.54 | 6.76 | - | - | - | - | - | - | - | 0.0001 | - | - | ☑ |
| Edit | **RPNT-2** | **Active 09/21/2020** | MALF | - | - | - | - | - | 10 | - | - | - | - | - | - | - | 2 | - | - | ☑ |
| Edit | **EQPT-1** | **Active 09/21/2020** | RBL-1 | 0.11 | 0.47 | 0.091 | 0.40 | 0.006 | 0.026 | 0.0002 | 0.001 | 0.008 | 0.036 | 0.008 | 0.036 | - | - | - | - | ☑ |
| Edit | **RPNT-3** | **Active 09/21/2020** | SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-12** | **Active 09/21/2020** | TK-1 | - | - | - | - | 10.6 | 46.6 | - | - | - | - | - | - | - | 0.0001 | - | - | ☑ |
| Edit | **EQPT-13** | **Active 09/21/2020** | TK-2 | - | - | - | - | 10.6 | 46.6 | - | - | - | - | - | - | - | 0.0001 | - | - | ☑ |
| Edit | **EQPT-14** | **Active 09/21/2020** | Tank-3 | - | - | - | - | - | 0.21 | - | - | - | - | - | - | - | - | - | - | ☑ |
| | | | **Totals** | 6.79 | 29.74 | 78.17 | 342.14 | 124.04 | 553.16 | 0.1 | 0.43 | 0.7 | 3.01 | 0.7 | 3.01 | 0.0 | 2.02 | 0.0 | 0.0 | |

[1] **Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**Comments** (2000 character maximum)

## Table 2-E: Requested Allowable Emissions

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Facility totals are a summation of all the emissions entered for equipment in this table plus total tpy SSM emissions from Table 2F.
**GCP-O&G:** Combustion emissions from malfunction events are not allowed under this permit.

**NOI:** Malfunction emissions are not allowed under a Notice of Intent.

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | EQPT-11 | Active 09/21/2020 | DEHY | - | - | - | - | 0 | 0 | - | - | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | EQPT-2 | Active 09/21/2020 | ENG-1 | 1.24 | 5.43 | 1.12 | 4.92 | 1.67 | 7.33 | 0.018 | 0.080 | 0.13 | 0.55 | 0.13 | 0.55 | - | - | - | - | ☑ |
| Edit | EQPT-3 | Active 09/21/2020 | ENG-2 | 1.24 | 5.43 | 1.12 | 4.92 | 1.67 | 7.33 | 0.018 | 0.080 | 0.13 | 0.55 | 0.13 | 0.55 | - | - | - | - | ☑ |
| Edit | EQPT-4 | Active 09/21/2020 | ENG-3 | 1.24 | 5.43 | 1.12 | 4.92 | 1.67 | 7.33 | 0.018 | 0.080 | 0.13 | 0.55 | 0.13 | 0.55 | - | - | - | - | ☑ |
| Edit | EQPT-5 | Active 09/21/2020 | ENG-4 | 1.24 | 5.43 | 1.12 | 4.92 | 1.67 | 7.33 | 0.018 | 0.080 | 0.13 | 0.55 | 0.13 | 0.54 | - | - | - | - | ☑ |
| Edit | EQPT-6 | Active 09/21/2020 | ENG-5 | 1.65 | 7.24 | 2.52 | 11.0 | 1.74 | 7.61 | 0.026 | 0.11 | 0.17 | 0.76 | 0.17 | 0.76 | - | - | - | - | ☑ |
| Edit | EQPT-9 | Active 09/21/2020 | FL-1 | 0.32 | 1.40 | 0.64 | 2.79 | 1.88 | 8.23 | - | 0.0002 | - | - | - | - | 0.0001 | 0.0004 | - | - | ☑ |
| Edit | RPNT-1 | Active 09/21/2020 | FUG | - | - | - | - | 1.72 | 7.53 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-10 | Active 09/21/2020 | HTR-1 | 0.054 | 0.24 | 0.045 | 0.20 | 0.003 | 0.013 | 0.0001 | 0.0004 | 0.004 | 0.018 | 0.004 | 0.018 | - | - | - | - | ☑ |
| Edit | EQPT-8 | Active 09/21/2020 | LOAD | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | 0 | - | - | ☑ |
| Edit | RPNT-2 | Active 09/21/2020 | MALF | - | - | - | - | - | 10 | - | - | - | - | - | - | - | 2 | - | - | ☑ |
| Edit | EQPT-1 | Active 09/21/2020 | RBL-1 | 0.11 | 0.47 | 0.091 | 0.40 | 0.006 | 0.026 | 0.0002 | 0.001 | 0.008 | 0.036 | 0.008 | 0.036 | - | - | - | - | ☑ |
| Edit | RPNT-3 | Active 09/21/2020 | SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-12 | Active 09/21/2020 | TK-1 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | 0 | - | - | ☑ |
| Edit | EQPT-13 | Active 09/21/2020 | TK-2 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | 0 | - | - | ☑ |
| Edit | EQPT-14 | Active 09/21/2020 | Tank-3 | - | - | - | - | - | 0 | - | - | - | - | - | - | - | - | - | - | ☑ |
| | | | **SSM Totals** | 0.02 | 0.11 | 0.05 | 0.21 | 0.08 | 10.33 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | |
| | | | **Totals** | 7.12 | 31.18 | 7.82 | 34.28 | 12.11 | 73.06 | 0.1 | 0.43 | 0.7 | 3.01 | 0.7 | 3.0 | 0.0 | 4.0 | 0.0 | 0.0 | |

**[1]Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**Comments** (2000 character maximum)

## Table 2-F: Startup, Shutdown, and Routine Maintenance (SSM) Emissions

☐ **This table is intentionally left blank as all SSM emissions at this facility do not require an increase in Requested Allowables greater than those listed in Table 2-E.**

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)2, including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). Provide emissions calculations for all SSM emissions reported in this table. Refer to the guidance "Startup, Shutdown, Maintenance Emissions in Permits" (www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | EQPT-11 | Active 09/21/2020 | DEHY | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-2 | Active 09/21/2020 | ENG-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-3 | Active 09/21/2020 | ENG-2 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-4 | Active 09/21/2020 | ENG-3 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-5 | Active 09/21/2020 | ENG-4 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-6 | Active 09/21/2020 | ENG-5 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-9 | Active 09/21/2020 | FL-1 | 0.024 | 0.11 | 0.048 | 0.21 | 0.076 | 0.33 | 0.0001 | 0.001 | - | - | - | - | - | - | - | - | ☑ |
| Edit | RPNT-1 | Active 09/21/2020 | FUG | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-10 | Active 09/21/2020 | HTR-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-8 | Active 09/21/2020 | LOAD | | | | | | | | | | | | | | | | | ☑ |
| Edit | RPNT-2 | Active 09/21/2020 | MALF | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-1 | Active 09/21/2020 | RBL-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | RPNT-3 | Active 09/21/2020 | SSM | - | - | - | - | - | 10 | - | - | - | - | - | - | - | 2 | - | - | ☑ |
| Edit | EQPT-12 | Active 09/21/2020 | TK-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-13 | Active 09/21/2020 | TK-2 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-14 | Active 09/21/2020 | Tank-3 | | | | | | | | | | | | | | | | | ☑ |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **Totals** | 0.024 | 0.11 | 0.048 | 0.21 | 0.076 | 10.33 | 0.0 | 0.001 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | |

**[1]Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**[2]For instance, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in the table below. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.**

**Comments** (2000 character maximum)

## Table 2-H: Stack Exit Conditions

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Please enter the stack information for the original source, not the control or reduction equipment.

For equipment that doesn't have an actual stack or fugitive stack please just list it as having a default fugitive stack with a height of 10 ft. This field is required by our database.

| Edit | Stack Description | Unit number | Orientation (H=Horizontal V=Vertical) | Rain Caps (Yes or No) | Height Above Ground (ft) | Temp. (F) | Flow Rate (acfs) | Flow Rate (dscfs) | Moisture by Volume (%) | Velocity (ft/sec) | Inside Diameter (ft) | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | DEHY | DEHY | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | ENG-1 | ENG-1 | Vertical | No | 28 | 803 | 200 | | | 91.3 | 1.67 | ☑ |
| Edit | ENG-2 | ENG-2 | Vertical | No | 28 | 803 | 200 | | | 91.3 | 1.67 | ☑ |
| Edit | ENG-3 | ENG-3 | Vertical | No | 28 | 803 | 200 | | | 91.3 | 1.67 | ☑ |
| Edit | ENG-4 | ENG-4 | Vertical | No | 28 | 803 | 200 | | | 91.3 | 1.67 | ☑ |
| Edit | ENG-5 | ENG-5 | Vertical | No | 29 | 779 | 263 | | | 83.9 | 2 | ☑ |
| Edit | FL-1 | FL-1 | Vertical | No | 40 | 1832 | 63.8 | | | 117 | 0.83 | ☑ |
| Edit | FUG | FUG | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | HTR-1 | HTR-1 | Vertical | No | 16 | 600 | 3.42 | | | 0.27 | 4 | ☑ |
| Edit | LOAD | LOAD | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | MALF | MALF | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | RBL-1 | RBL-1 | Vertical | No | 20 | 600 | 6.84 | | | 0.24 | 6 | ☑ |
| Edit | SSM | SSM | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | TK-1 | TK-1 | Fugitive | No | 20 | | | | | | | ☑ |
| Edit | TK-2 | TK-2 | Fugitive | No | 20 | | | | | | | ☑ |
| Edit | Tank-3 | Tank-3 | Fugitive | No | 10 | | | | | | | ☑ |

Add Stack Conditions to Select one Add

**Comments** (2000 character maximum)

## Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

☐ **By marking this table as intentionally left blank, you certify that the Total and individual HAPs for this facility are less than 1 ton per year.**

Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.

**GCPs:** Report the potential emission rate for each HAP from each HAP emitting emission unit listed in Table 2A. For each emission unit, HAPs shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Emissions less than 0.0001 lb/hr or 0.0001 tpy and emission units that do not emit HAPs shall be omitted from the table. Each facility-wide Individual HAP total and the facility-wide Total HAPs is the sum of all HAP sources entered in the Table. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAA. Include tank-flashing emission estimates of HAP in this table.

**NOIs:** Report the individual and/or Total HAPs for each piece of equipment in Table 2A, only if the facility total for that pollutant is greater than or equal to 1 tpy.

| Edit | Unit No. | Total HAPs | | Acrolein HAP | | Acetaldehyde; (Ethyl aldehyde) HAP | | Formaldehyde HAP | | Benzene HAP | | Toluene; (Methyl benzene) HAP | | Ethylbenzene HAP | | Xylenes (total); (Xylol) HAP | | Hexane HAP | | | | | | | | | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | ENG-1 | 0.24 | 1.05 | 0.064 | 0.46 | 0.10 | 0.46 | 0.07 | 0.31 | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | ENG-2 | 0.24 | 1.05 | 0.064 | 0.46 | 0.10 | 0.46 | 0.07 | 0.31 | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | ENG-3 | 0.24 | 1.05 | 0.064 | 0.46 | 0.10 | 0.46 | 0.07 | 0.31 | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | ENG-4 | 0.24 | 1.05 | 0.064 | 0.46 | 0.10 | 0.46 | 0.070 | 0.31 | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | ENG-5 | 0.39 | 1.69 | 0.090 | 0.64 | 0.15 | 0.64 | 0.15 | 0.66 | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | FL-1 | 0.57 | 2.47 | | | | | | | 0.25 | 1.10 | 0.10 | 0.42 | 0.001 | 0.005 | 0.010 | 0.022 | 0.21 | 0.92 | | | | | | | | | ☑ |
| Edit | FUG | 0.062 | 0.27 | | | | | | | 0.012 | 0.055 | 0.012 | 0.055 | 0.012 | 0.055 | 0.012 | 0.055 | 0.012 | 0.055 | | | | | | | | | ☑ |
| Edit | MALF | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | SSM | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | ☑ |
| | **Totals** | 1.98 | 10.63 | 0.35 | 2.48 | 0.55 | 2.48 | 0.43 | 1.9 | 0.26 | 1.16 | 0.11 | 0.47 | 0.01 | 0.06 | 0.02 | 0.08 | 0.22 | 0.98 | | | | | | | | | |

Add Stack Emissions to Select one Add

**Comments** (2000 character maximum)

## Table 2-J: Fuel Usage

☐ **This Table was intentionally left blank.**

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Specify fuel characteristics and usage. This information should be for fuel used to operate the equipment (e.g. the pilot) not the amount of gas or fuel processed.

| Edit | Unit No. | Fuel Type (No. 2 Diesel, Natural Gas, Coal, ...) | Specify Units | | | | | Complete |
|---|---|---|---|---|---|---|---|---|
| | | | Lower Heating Value | Hourly Usage | Annual Usage (maximum) | % Sulfur | % Ash | |
| Edit | ENG-1 | Natural Gas | 1171 BTU/SCF | | 93.7 MM SCF/y | | | ☑ |
| Edit | ENG-2 | Natural Gas | 1171 BTU/SCF | | 93.7 MM SCF/y | | | ☑ |
| Edit | ENG-3 | Natural Gas | 1171 BTU/SCF | | 93.7 MM SCF/y | | | ☑ |
| Edit | ENG-4 | Natural Gas | 1171 BTU/SCF | | 93.7 MM SCF/y | | | ☑ |
| Edit | ENG-5 | Natural Gas | 1171 BTU/SCF | | 131 MM SCF/y | | | ☑ |
| Edit | FL-1 | Natural Gas | 2628 BTU/SCF | | 0.88 MM SCF/y | | | ☑ |
| Edit | HTR-1 | Natural Gas | 1170 BTU/SCF | | 5.65 MM SCF/y | | | ☑ |
| Edit | RBL-1 | Natural Gas | 1170 BTU/SCF | | 11.3 MM SCF/y | | | ☑ |

**Comments** (2000 character maximum)

## Table 2-L: Tank Data

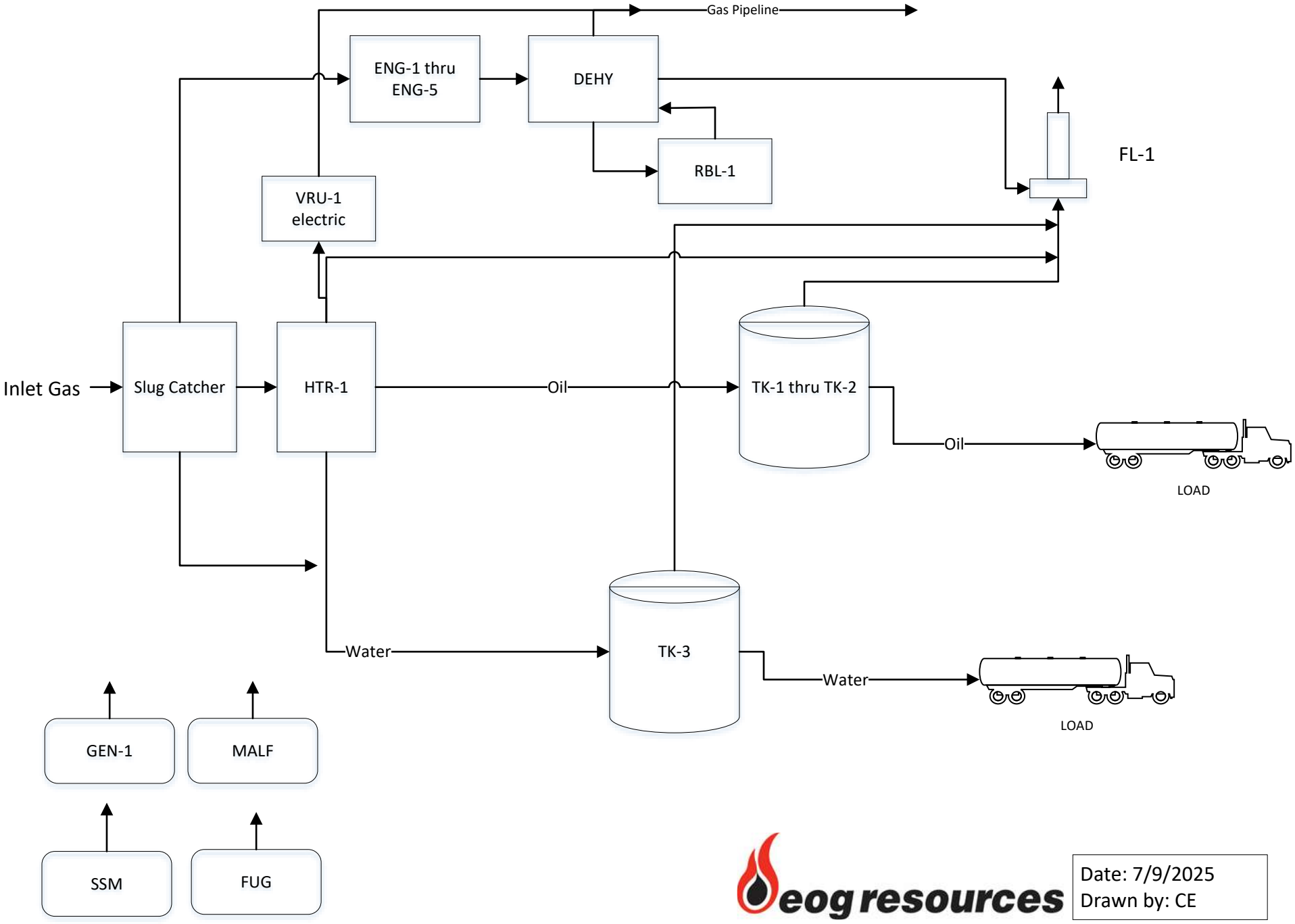
**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Include appropriate tank-flashing modeling input data. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

| Edit | Unit No. | Date Installed | Materials Stored | Seal Type (refer to Table 2-LR) | Roof Type (refer to Table 2-LR) | Capacity | | Diameter (M) | Vapor Space (M) | Color (from Table VI-C) | | Paint Condition (from Table VI-C) | Annual Throughput (gal/yr) | Turn-overs (per year) | Completed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | (bbl) | ($M^3$) | | | Roof | Shell | | | | |
| Edit | TK-1 | 10/07/2020 | Condensate | | Vertical - Fixed Roof | 400.00 bbl | | | | | | | 1293086 | 77 | ☑ |
| Edit | TK-2 | 10/07/2020 | Condensate | | Vertical - Fixed Roof | 400.00 bbl | | | | | | | 1293086 | 77 | ☑ |
| Edit | Tank-3 | 10/07/2020 | Produced Water | | Vertical - Fixed Roof | 400.00 bbl | | | | | | | 1022650 | 61 | ☑ |

**Comments** (2000 character maximum)

# PROCESS FLOW DIAGRAM




eog resources

Date: 7/9/2025
Drawn by: CE

# GCP-Oil and Gas AQB ePermitting Portal Registration Form
# Section 1- (ePermitting Portal submittals)

**Portal submittals - delete all pages before this page.**
**Hardcopy submittals may delete this page.**

☒ I understand that I must submit the hard copy check with the required Payment Form for all AQB ePermitting Portal submittals. The 30-day review period will not begin until the check is received. (Does not apply if you are converting from a GCP-1 or GCP-4.) Form available: www.env.nm.gov/air-quality/aqb-epermitting-portal/

☒ I will upload this form to submit via the Portal. I understand that certain pages may be deleted by following instructions on this form, to avoid repeating information I entered directly into the Portal or uploaded separately.

☒ Attach only the electronic copy of the permit with the Department response, do not mail a paper copy. (If box is not checked, a paper copy of the permit will be sent with your response letter.)

**Facility Name or Facility Type Change for Modifications**
Fill out this section if requesting a change to the facility name or facility type that appears in the ePermitting Portal. These items cannot be updated through the Portal and will be corrected as part of the review of your permit. Check the appropriate box(es) and provide complete information in the table.

☒ **Not applicable**

☐ 1. Changing facility name. (Punctuation and special characters not allowed. Use “No123” instead of #123)

☐ 2. Changing facility type.

| | | | |
|---|---|---|---|
| **1a** | **Current Facility Nam** | **1b** | **New Facility Name:** |
| **2a** | **Current Facility Type:**<br>☐ Production Site<br>☐ Tank Battery<br>☐ Compressor Station<br>☐ Natural Gas Plant<br>☐ Reinjection facility<br>☐ Well head<br>☐ Misc Oil and Gas<br>☐ Amine Plant<br>☐ Energy Support Facility<br>☐ Other, please specify:_____ | **2b** | **New Facility Type:**<br>☐ Production Site<br>☐ Tank Battery<br>☐ Compressor Station<br>☐ Natural Gas Plant<br>☐ Reinjection facility<br>☐ Well head<br>☐ Misc Oil and Gas<br>☐ Amine Plant<br>☐ Energy Support Facility |

# Section 2- (ePermitting Portal submittals)

**Hardcopy submittals - delete this page as this table is in the required excel portion of the hardcopy forms.**

## Table 2-B: Exempted Equipment (20.2.72 NMAC)

All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 202.B.5 "similar functions" units, operations, and activities in Section 5, Calculations. Unit & stack numbering must be consistent throughout the application package.

| Unit Number | Source Description | Manufacturer | Model No / Serial No | Max Capacity / Capacity Units | List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) | Date of Manufacture /Reconstruction1 / Date of Installation /Construction | For Each Piece of Equipment, Check One | |
|---|---|---|---|---|---|---|---|---|
| GEN-1 | Emergency Generator | Kohler | 125REZGC | 190 | 20.2.72.202.B.3 | | ☒ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | Horsepower | | | | |
| Haul | Unpaved Haul Roads | N/A | N/A | N/A | 20.2.72.202.B(5) NMAC | | ☒ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | N/A | N/A | | | | |
| TK-GLY | Glycol Tank | TBD | TBD | 500 | 20.2.72.202.B(2) NMAC | | ☒ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | TBD | gal | | | | |
| TK-LO | Lube Oil Tank | TBD | TBD | 500 | 20.2.72.202.B(2) NMAC | | ☒ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | TBD | gal | | | | |
| PW Load | Produced Water Loading | N/A | N/A | N/A | 20.2.72.202.B(5) NMAC | | ☒ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | N/A | N/A | | | | |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | | |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | | |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | | |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | | |

# Section 3
## Registration Summary

**Hardcopy and Portal Submittals – complete this section**

**Registration Summary:** EOG Resources, Inc. (EOG) is submitting this application pursuant to 20.2.72.200.A NMAC for the changes to Boa Localized Gas Lift Station. This revision is to remove two Cat 3608 engines and add one Cat 3606. Everything else remains the same as currently permitted. This facility has been public noticed.

**Written description of the routine operations of the facility:** This facility will be localized gas lift station that compresses and dehydrates natural gas, which will later be injected into oil wells to stimulate oil production. The inlet gas stream will be separated into two phases (liquid and gas) as it passes through a slug catcher. The water and hydrocarbon liquids are sent to a 3-phase heated (HTR-1) separator where condensate and produced water are separated from gaseous hydrocarbons.

The condensate and produced water are sent to their respective storage tanks (TK-1 thru TK-3). Flash gas and working and breathing emissions from the tanks are routed to the flare (FL-1). Loading emissions (LOAD) from condensate and produced water tanks are routed to the flare (FL-1).

The gas from the 3-phase heated separator is sent to the VRU where it is compressed and routed back to the slug catcher as a recycle stream. In the event of VRU downtime, these gaseous emissions from the heated separator are routed to the flare.

The flare (FL-1) is a dual-tip flare with a high-pressure tip, a low-pressure tip, and one pilot. The low-pressure flare gas stream includes emission streams from the dehydration unit BTEX condenser, the tanks, and loading. The high-pressure tip controls emissions during the heated separator VRU downtime or emergencies.

The gas from the slug catcher is sent to the engines (ENG-1 thru ENG-5) for compression, and the compressed gas is then sent to a filter separator where gas is separated from the liquids. These liquids are routed back as a recycle stream to the initial stream entering the slug catcher. The gas from the filter separator (dehydrator inlet separator) is routed to the glycol contactor.

The TEG dehydrator (DEHY) removes water from the gas stream entering the glycol contactor. Dehydrated gas passes through a heat exchanger and is sent to oil wells and is used for fuel. Once lean TEG absorbs the water from the gas stream, it leaves as a rich stream from the bottom of the contactor which is then sent to a flash tank where the gaseous hydrocarbons are used for fuel. The TEG is then sent to the glycol regenerator (and associated reboiler RBL-1) where the TEG is reconcentrated by removal of the water. The water vapor is sent to a BTEX condenser and subsequent water knockout vessel. The BTEX vapors are routed to the flare (FL-1) and the separated water is routed to the produced water tank. The lean TEG leaving the regenerator passes through a heat exchanger where it is cooled and then recycled and reintroduced to the glycol contactor where the dehydration process begins again.

**Routine or predictable emissions during Startup, Shutdown and Maintenance (SSM):** Provide an overview of how SSM emissions are accounted for including a description of SSM activities routed to reduction device and check the applicable box(es).

☐ No SSM emissions are expected from routine operations.

☒ Applicant requests up to 10 tpy of VOC SSM emissions.

☐ No other activities (e.g. VRU downtime, stranded gas etc.) are considered SSM activities.

☐ Applicant requests site specific VOC SSM and those emission calculations are included in Section 5 and entered in Table 2F

Provide an overview:

☒ Applicant requests site specific combustion SSM and those emission calculations are included in Section 5 and entered in Table 2F.

Provide an overview: VRU downtime is requested. During VRU downtime, emissions are routed to FL-1.

**Malfunction Emissions (M):** Provide an overview of how malfunction emissions are accounted for in this Registration. The permit does not authorize combustion emissions for malfunctions. The permit does not authorize emissions from SSM and Malfunction to be combined as 10 TPY VOC. However, they may be permitted separately. In the allowable emissions table in Section 2, these two events are separate line items and must be kept separate.

Overview: EOG is requesting 10 tpy VOC emissions for malfunctions.

☐ No Malfunction emissions are requested for this permit.

**Allowable Operations:** Check the appropriate box below:

☒ Facility operates continuously (8760 hours per year)

☒ The following regulated equipment will operate less than 8760 hours per year. Add additional rows as necessary. These units are subject to Condition A108.C of the Permit.

**Table A – Equipment Operating Less Than 8760 hours per year**

☐ **Table is blank because I completed this information in the ePermitting Portal for each piece of equipment.**

| Unit # | Requested Annual Operating Hours |
|---|---|
| GEN-1 | 500 |
| | |
| | |

**Verification of Compliance with Stack Parameter Requirements:**

www.env.nm.gov/air-quality/air-quality-oil-and-gas-gcp-application-forms/

**Portal Submittals:** Applications submitted via the ePermitting Portal are required to use the Oil and Gas Stack Calculator.
**Hardcopy submittals** may voluntarily use the stack calculator.

Click "Print" in the stack calculator and attach the generated PDF results. If the stack calculator was completed and results attached, complete the information in this box and then go to Section 4. You may delete the items below this box until Section 4.

Check the box for each type of equipment at this facility & represented in the attached stack calculator results:
☒ Engine(s)
☐ Turbine(s)
☒ Flares(s)
☐ Enclosed Combustion Device (s)
☒ Heater(s)
☒ Reboiler(s)

☒ I attached the results from the current version of the Oil and Gas Stack Calculator from the AQB web page and the results indicate compliance with the stack parameters for all of my engines, turbines, flares, enclosed combustion devices, heaters or reboilers.

1. Does the flare gas contain 6% $H_2S$ or less by volume (pre-combustion)?

☒ Yes (done with section 3)
☐ No.

2. Explain in detail how assist gas will be added to reduce the gas composition to 6%$H_2S$ or less by volume:

# Section 5

## Emissions Calculation Forms

---

**Hardcopy and Portal Submittals – complete this section**

The Department has developed the Air Emissions Calculation Tool (AECT), which is required to be used in the GCP-Oil and Gas Registration. If the AECT, for a piece of equipment is under development, provide alternate calculations. The AECT must be submitted as a "live" interactive PDF. **Do not include alternative calculations unless there is an issue being resolved with the AECT. This will delay review of the application.** The AECT and this Registration Form may be updated as needed.

**Tank Emissions Calculations**: Provide the method used to estimate tank-flashing emissions, the input and output summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Pro-Max or Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation. **The inputs must match the gas analyses information submitted. Inputs that don't match may be grounds for denial of the application submittal.**

**SSM Calculations**: In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Table 2, and the rationale for why the others are reported as zero (or left blank).

**Control Devices:** Report all control devices and list each pollutant controlled by the control device. Indicate in this section if you chose to not take credit for the reduction in emission rates. Only uncontrolled emission rates can be considered to determine applicability unless the state or federal acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

**Calculation Details:** The AECT is required for all emission calculations. If the AECT is not functioning, alternative calculations may be submitted only for the portions of the AECT with issues being resolved. Utilize this section to explain in detail, on an equipment-by-equipment basis, why alternative calculations are necessary.

**Explain here:** Tanks, loading, dehydrator, and flare emissions were all calculated using a ProMax simulation. The AECT does not incorporate parameters that can be represented in ProMax. Engine emissions were calculated using Excel. The AECT has not been used to calculate emissions from the above-mentioned sources.

---

**Equipment Forms Submitted in this Section (add additional rows as necessary):**

| Equipment Type | Quantity | Check Box to Indicate Units that are Controlled | Enter Control Device Type and Pollutant Controlled |
|---|---|---|---|
| **Engine** | **5** | ☒ | *Catalyst (CO, VOC, HCHO)* |
| **Turbine** | | ☐ | |
| **Tanks** | **3** | ☒ | *FL-1 (VOC, HAP, H2S)* |
| **Generator** | **1** | ☐ | |
| **VRU** | **1** | ☒ | *FL-1 (downtime) (VOC, HAP, H2S)* |
| **VRT** | | ☐ | |
| **ULPS** | | ☐ | |
| **Glycol Dehydrator** | **1** | ☒ | *FL-1 (VOC, HAP, H2S)* |
| **Flare** | **1** | ☐ | *Tanks, Truck Loading, VRU, Dehydrator* |
| **Amine Unit** | | ☐ | |

| | | | |
|---|---|---|---|
| **Cryogenic Unit** | | ☐ | |
| **Fugitive Emissions** | **1** | ☐ | |
| **Heater** | **1** | ☐ | |
| **Truck Loading** | **1** | ☒ | *FL-1 (VOC, HAP, H2S)* |
| **Enclosed Combustion Device (ECD)** | | ☐ | *List all streams controlled by the ECD* |
| **Thermal Oxidizer (TO)** | | ☐ | *List all streams controlled by the TO* |
| **Reboiler** | **1** | ☐ | |
| **Other** | | ☐ | |

**For each scenario below, if there are more than one emissions unit, control device, or gas combustion scenario. Please copy and paste each applicable section and label the unit number(s) if the scenarios vary.**

**Vapor Recovery Tower, Ultra Low-Pressure Separator, or Flash Tower Located Upstream of Storage Vessels:** If the facility contains one of the following units located upstream of the storage vessels and is used to flash and capture flashing emissions, check the appropriate box.
Unit number: N/A
☐ Vapor Recovery Tower and VRU Compressor
☐ ULPS and VRU Compressor
☐ Flash Tower and VRU Compressor

**Vapor Recovery Unit (VRU) located upstream of Storage Vessels:** Check the box below if the facility is using a VRU to capture flashing emissions prior to any storage vessels to limit the PTE of the storage vessels to below applicability thresholds of NSPS OOOO or NSPS OOOOa. A process vs control determination should be prepared for this type of VRU application.
Unit number: N/A
☐ VRU capturing emissions prior to any storage vessel and routing directly to the sales pipeline

**Vapor Recovery Unit (VRU) attached to Storage Vessels:** Check the box below if this facility is using a VRU to reduce storage vessel emissions to limit the PTE to below NSPS OOOO or NSPS OOOOa applicability thresholds:
Unit number: FL-1
☐ VRU controlling Storage Vessel emissions and the facility is subject to the requirements under NSPS OOOO, 40 CFR 60.5411
☒ VRU controlling Storage Vessel emissions and the facility is subject to the requirements under NSPS OOOOa, 40 CFR 60.5411a

**Gas Combustion Scenarios:** Read through the scenarios below and check the boxes next to any appropriate facility operating scenarios. Flares shall assume a destruction efficiency of 95%, unless the facility is subject to requirements for flares under 40 CFR 60.18, or a higher destruction efficiency (up to 98%) is supported by a manufacturer specification sheet (MSS) for that unit. If so, include the MSS.

A flare, vapor combustion unit (VCU), enclosed combustion device (ECD), thermal oxidizer (TO):
Unit number: FL-1
☐ Controls storage vessels in accordance with 40 CFR 60, Subpart OOOO or OOOOa or OOOOb.
☒ Provides a federally enforceable control for the storage vessels to limit the PTE to below applicability thresholds of 40 CFR 60, Subpart OOOO or OOOOa or OOOOb.
☒ Controls the glycol dehydrator
☐ Controls the amine unit
☒ Controls truck loading
☐ Operates only during maintenance events, such as VRU downtime, check one below:
- ☐ The emissions during VRU downtime are represented as uncontrolled VOC emissions from the compressor
- ☒ The combustion emissions during VRU downtime are represented as controlled emissions from the combustion device

☐ Controls the facility during plant turnaround

**Amine Unit:** Provide the following information for each amine unit.

| | |
|---|---|
| Design Capacity in MMscf/day | |
| Rich Amine Flowrate in gal/min | |
| Lean Amine Flowrate in gal/min | |
| Mole Loading $H_2S$ | |
| Sour Gas Input in MMscf/day | |

**Glycol Dehydration Unit(s):** Provide the following information for each glycol dehydration unit:
Please include an extended gas analysis in Section 6 of this application.

| Unit # | Glycol Pump Circulation Rate |
|---|---|
| DEHY | 16 gpm |

**Voluntary Monitoring in Accordance with §40 CFR 60.5416(a):** Check the box(s) to implement a program that meets the requirements of 40 CFR 60.5416(a). This monitoring program will be conducted in lieu of the monitoring requirements established in the GCP-Oil and Gas for individual equipment. Ceasing to implement this alternative monitoring must be reported in an updated Registration Form to the Department.

☐ Condition A205.B Control Device Options, Requirements, and Inspections for Tanks
☐ Condition A206.B Truck Loading Control Device Inspection
☐ Condition A206.C Vapor Balancing During Truck Loading
☐ Condition A209.A Vapor Recovery Unit or Department-approved Equivalent
☐ Condition A210.B Amine Unit Control Device Inspection

**Fugitive $H_2S$ Screening Threshold and Monitoring in accordance with Condition A212:** Check the box that applies.

☒ Condition A212.A does not apply because the facility is below the fugitive $H_2S$ screening threshold in Condition A212, or

☐ Condition A212.A applies. Because the facility is above the fugitive $H_2S$ screening threshold in Condition A212, or the facility is voluntarily complying with Condition A212.A, and Condition A212.A applies

# Section 6

## Information Used to Determine Emissions

---

**Hardcopy and Portal Submittals – complete this section**

Check the box for each type of information submitted. This documentation is required, if applicable to the facility.

**Failure to include applicable supporting documentation may result in application denial.**

☒ Specifications for control equipment, including control efficiency specifications and sufficient engineering data for verification of control equipment operation, including design drawings, test reports, and design parameters that affect normal operation.

☒ Engine or Generator Manufacturer specifications

☒ Catalyst Manufacturer specifications (If a catalyst is being utilized to reduce emissions, the catalyst manufacturer emission factors must be used in all emission calculations. A 25% safety factor may be applied to each pollutant.

☐ NSPS JJJJ emission factors **may not** be utilized in lieu of catalyst manufacture specifications when a catalyst is installed, and the catalysts manufacturer achieves higher control efficiency.

☒ Flare Manufacturer specifications

☐ Oil/Liquid Analysis: This data is required to match the inputs in all applicable emission calculations. For facilities that have not been constructed and a representative analysis is used it cannot be older than 1 year. For existing facilities, the gas analyses required by Condition A201.A (must be 1 year old or less).

☒ Gas Analysis (four years old). This data is required to match the inputs in all applicable emission calculations.

☒ Extended Gas Analysis (four years old) This data is required to match the inputs in all applicable emission calculations.

☐ If requesting to use a representative gas sample, include a discussion of why the sample is representative for this facility and an explanation of how it is representative (e.g., same reservoir, same similar API gravity, similar composition).

☐ If test data are used, to support emissions calculations or to establish allowable emission limits, include a copy of the complete test report. If the test data are for an emissions unit other than the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly effect emission rates.

☐ Fuel specifications sheet.

☒ If computer models are used to estimate emissions, include an input summary and a detailed report, and a disk containing the input file used to run the model.

☒ For tank-flashing emissions, include a discussion of the method used to estimate tank-flashing emissions, accuracy of the model, the **input and output** summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.

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**Representative Gas Analysis Justification:** The representative analysis is from a site that processes gas from the same producing reservoir/formation as the actual site stream; the gas being handled at the representative site and the actual site have very similar components and properties; and the representative analysis is taken from a site that processes the stream in a similar manner as the actual site.

# Section 8A

## Applicable State & Federal Regulations

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**Hardcopy and Portal Submittals – complete this section**

**Provide a discussion demonstrating compliance with each applicable state & federal regulation**. All input cells should be filled in, even if the response is 'No' or 'N/A'.

In the "Justification" column, identify the criteria that are critical to the applicability determination, numbering each. For each unit listed in the "Applies to Unit No(s)" column, after each listed unit, include the lowest level citation of the applicable regulation. For each unit, list the information necessary to verify the applicability of the regulation, including date of manufacture, date of construction, size (hp), and combustion type. Doing so will provide the applicability criteria for each unit.

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### Applicable State Regulations:

| State Regulation Citation | Title | Federally Enforceable | Overview of Regulation | Unit(s) or Facility | Applies? (Yes or No) | **Justification:** Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|
| 20.2.1 NMAC | General Provisions | Yes | General Provisions apply to Notice of Intent, Construction, and Title V permit applications. | Facility | Yes | EOG Resources, Inc. (EOG) will comply with the applicable requirements for the entire facility. |
| 20.2.3 NMAC | Ambient Air Quality Standards NMAAQS | Yes | 20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of Sulfur Compounds, Carbon Monoxide, and Nitrogen Dioxide. | Facility | Yes | NAAQS is applicable. Per NMED guidance, documentation of compliance with GCP requirements constitutes documentation of compliance with NAAQS. |
| 20.2.7 NMAC | Excess Emissions | Yes | If your entire facility or individual pieces of equipment are subject to emissions limits in a permit or numerical emissions standards in a federal or state regulation, this applies. | Facility | Yes | EOG will comply with the applicable requirements for the entire facility. |
| 20.2.38 NMAC | Hydrocarbon Storage Facility | No | Use the regulation link then cut & paste applicable sections.<br>20.2.38 NMAC does **not** establish practically enforceable limits that can be used for PTE or PER calculations. | TK-1 thru TK-2 | Yes | EOG will comply with the applicable requirements by controlling the tanks with a VRU or a flare as stated in the application. |
| 20.2.50 NMAC | Oil and Gas Sector – Ozone Precursor Pollutants | No | This regulation establishes emission standards for volatile organic compounds (VOC) and oxides of nitrogen ($NO_x$) for oil and gas production, processing, compression, and transmission sources. | Check the box for the subparts that are applicable:<br>☒ 113 – Engines and Turbines<br>☐ 114 – Compressor Seals<br>☐ 115 – Control Devices and Closed Vent Systems<br>☒ 116 – Equipment Leaks and Fugitive Emissions<br>☐ 117 – Natural Gas Well Liquid Unloading<br>☒ 118 – Glycol Dehydrators<br>☐ 119 – Heaters<br>☒ 120 – Hydrocarbon Liquid Transfers<br>☐ 121 – Pig Launching and Receiving<br>☐ 122 – Pneumatic Controllers and Pumps | | 113-EOG will comply with applicable requirements.<br>114-Not Applicable.<br>115- Not Applicable.<br>116-EOG will comply with applicable requirements.<br>117-No Applicable.<br>118- EOG will comply with applicable requirements.<br>119-Not Applicable.<br>120- EOG will comply with applicable requirements.<br>121-Not Applicable.<br>122-Not Applicable.<br>123- Not Applicable. |

| State Regulation Citation | Title | Federally Enforceable | Overview of Regulation | Unit(s) or Facility | Applies? (Yes or No) | Justification: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|
| | | | ☐ 123 – Storage Vessels<br>☐ 124 – Well Workovers<br>☐ 125 – Small Business Facilities<br>☐ 126 – Produced Water Management Unit<br>☐ 127 – Flowback Vessels and Preproduction Operations | | | 124-Not Applicable.<br>125-Not Applicable.<br>126-Not Applicable.<br>127-Not applicable. |
| 20.2.61.109 NMAC | Smoke & Visible Emissions | No | Engines and heaters are Stationary Combustion Equipment. Specify units subject to this regulation. | ENG-1 thru ENG-5, Heater-1, Reboiler-1, Flare-1 | Yes | EOG does not expect visible emissions from the gas fired heater or flare to equal or exceed 20% opacity. |
| 20.2.73 NMAC | NOI & Emissions Inventory Require-ments | Yes | NOI: 20.2.73.200 NMAC applies to all facilities emitting over 10 TPY of any regulated air contaminate. Thus, permitted facilities are also subject to this rule. This GCP-O&G registration also serves the purpose of meeting 20.2.73 NMAC notification requirements.<br><br>Emissions Inventory: 20.2.73.300. NMAC applies to facilities registering under the GCP. | *Facility* | *Yes – applies to all GCP-O&G registrants .* | *Under 20.2.73.300.B(4) NMAC, NMED will periodically request emissions inventory reporting from minor source (expected each third year starting in 2020.)*<br><br>*Under 20.2.73.300.B(1) NMAC, if fugitives result in PTE >100 tpy VOC, annual reporting is required.* |
| 20.2.77 NMAC | New Source Performanc e | Yes | This is a stationary source which is subject to the requirements of 40 CFR Part 60, as amended on the date of certification. | FUG, ENG-1 thru ENG-5 | Yes | EOG will comply with any applicable requirements in NSPS OOOOa for fugitive components and the compressors, and Subpart JJJJ for the engines.<br>The tanks are not an affected facility under NSPS OOOOa because controlled emissions are less than 6 tpy VOC, which is a federally enforceable limit. |
| 20.2.78 NMAC | Emission Standards for HAPS | Yes | This facility emits hazardous air pollutants which are subject to the requirements of 40 CFR Part 61, as amended on the date of certification. | N/A | No | Does not apply. There are no applicable NESHAP standards. |
| 20.2.82 NMAC | MACT Standards for source categories of HAPS | Yes | This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63, as amended on the date of certification. | ENG-1 thru ENG-5, DEHY | Yes | This facility has sources that are subject to 40 CFR 63. |

**Applicable Federal Regulations (This is not an exhaustive list; add applicable regulations such as NSPS GG and KKKK):**

| Federal Regulation Citation | Title | Overview of Regulation | Units(s) or Facility | Applies? (Yes or No) | **Justification:** Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m3, 3. VOL) |
|---|---|---|---|---|---|
| 40 CFR 50 | National Primary and Secondary Ambient Air Quality Standards (NAAQS) | Applicable requirement per GCP-O&G Condition A103. Any national ambient air quality standard. | Facility | Yes | NAAQS is applicable. Per NMED guidance, documentation of compliance with GCP-Oil and Gas requirements constitutes documentation of compliance with NAAQS. |
| 40 CFR 60, Subpart A | General Provisions | Applies if any other NSPS subpart applies. | FUG, ENG-1 thru ENG-5 | Yes | EOG Resources, Inc. will comply with applicable requirements in NSPS OOOOa and JJJJ. |
| 40 CFR 60, Subpart OOOO | Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015 | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375); centrifugal compressors (60.5380); reciprocating compressors (60.5385): controllers (60.5390); storage vessels (60.5395); equipment leaks (60.5400); sweetening units (60.5405).<br><br>**If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. Centrifugal Compressors 1a-3a are subject to the standards at 60.5380(a)(1) and (2) since we use a control device to reduce emissions)** | N/A | No | Facility was constructed after September 18, 2015. It does not apply. |
| 40 CFR 60, Subpart OOOOa | Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375a); centrifugal compressors (60.5380a); reciprocating compressors (60.5385a): controllers (60.5390a); storage vessels (60.5395a); fugitive emissions at well sites and compressor stations (60.5397a); equipment leaks at gas plants (60.5400a); sweetening units (60.5405a). | FUG | Yes | EOG will comply with any applicable requirements in NSPS OOOOa for fugitive components.<br>The tanks are not an affected facility under NSPS OOOOa because controlled emissions are less than 6 tpy VOC, which is a federally enforceable limit. |
| 40 CFR 60, Subpart OOOOb | Standard of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After December 6, 2022 | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375b); centrifugal compressors (60.5380b); reciprocating compressors (60.5385b): controllers (60.5390b); storage vessels (60.5395b); fugitive emissions at well sites and compressor stations (60.5397b); equipment leaks at gas plants (60.5400b); sweetening units (60.5405b). | N/A | No | The modification does not trigger OOOOb. The addition of one compressor and removal of two compressors does not increase horsepower. |
| 40 CFR 60, Subpart IIII | Standards of performance for Stationary Compression Ignition | See 40 CFR 60.4200(a) 1 through 4 to determine applicable category and state engine size, fuel type, and date of manufacture. | N/A | No | Does not apply. |

| Federal Regulation Citation | Title | Overview of Regulation | Units(s) or Facility | Applies? (Yes or No) | **Justification:** Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m3, 3. VOL) |
|---|---|---|---|---|---|
| | Internal Combustion Engines | | | | |
| 40 CFR 60, Subpart JJJJ | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines | See 40 CFR 60.4230(a), 1 through 5 to determine applicable category and state engine size, fuel type, and date of manufacture. | ENG-1 thru ENG-5 | Yes | EOG will comply with applicable requirements under Subpart JJJJ for the engines. |
| 40 CFR 63, Subpart A | General Provisions | Applies if any other subpart applies. | ENG-1 thru ENG-5, DEHY | Yes | EOG will comply with the applicable requirements under Subparts ZZZZ and HH. |
| 40 CFR 63, Subpart HH | NESHAP for Glycol Dehydrators | See 40 CFR 63, Subpart HH | DEHY | Yes | This site is an area source of HAPs. Subpart HH applies to the dehydrator. However, because its Benzene emissions are less than 0.90 Mg/yr, the unit is exempt from multiple requirements. Records will be kept demonstrating that exemption criteria are met. |
| 40 CFR 63, Subpart ZZZZ | NESHAP for Stationary Reciprocating Internal Combustion Engines (**RICE MACT**) | Facilities are subject to this subpart if they own or operate a stationary RICE, except if the stationary RICE is being tested at a stationary RICE test cell/stand. | ENG-1 thru ENG-5 | Yes | EOG will comply with the applicable requirements under Subpart ZZZZ by complying with NSPS Subpart JJJJ. |

# Section 8B
# Compliance Test History and Disclosure Form

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**Hardcopy and Portal Submittals – complete this section**

To evaluate the requirement for compliance tests, you must submit a compliance test history. The table below provides an example.

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No compliance history to report.

Please note that EOG has an agreement with NMED that the attached letter can be submitted in lieu of the Compliance History Disclosure Form.

EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702

November 8, 2022

New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico 87505-1816

Dear Air Quality Bureau:

Per discussions with Secretary Kenney and other Department personnel, we are working with the Environment Department to prepare an entity-wide filing that will satisfy the requirements of the Compliance History Disclosure Form. Please do not hesitate to contact me at Doug_Lowrie@eogresources.com if you have any questions.

Sincerely,

Doug Lowrie

# Air Permit Application
# Compliance History Disclosure Form

Pursuant to Subsection 74-2-7(S) of the New Mexico Air Quality Control Act ("AQCA"), NMSA §§ 74-2-1 to -17, the New Mexico Environment Department ("Department") may deny any permit application or revoke any permit issued pursuant to the AQCA if, within ten years immediately preceding the date of submission of the permit application, the applicant met any one of the criteria outlined below. In order for the Department to deem an air permit application administratively complete or issue an air permit for those permits without an administrative completeness determination process, the applicant must complete this Compliance History Disclosure Form as specified in Subsection 74-2-7(P). An existing permit holder (permit issued prior to June 18, 2021) shall provide this Compliance History Disclosure Form to the Department upon request.

| **Permittee/Applicant Company Name** | | **Expected Application Submittal Date** |
|---|---|---|
| | | |
| **Permittee/Company Contact** | **Phone** | **Email** |
| | | |

| | **Within the 10 years preceding the expected date of submittal of the application, has the permittee or applicant:** | |
|---|---|---|
| 1 | Knowingly misrepresented a material fact in an application for a permit? | ☐ Yes ☐ No |
| 2 | Refused to disclose information required by the provisions of the New Mexico Air Quality Control Act? | ☐ Yes ☐ No |
| 3 | Been convicted of a felony related to environmental crime in any court of any state or the United States? | ☐ Yes ☐ No |
| 4 | Been convicted of a crime defined by state or federal statute as involving or being in restraint of trade, price fixing, bribery, or fraud in any court of any state or the United States? | ☐ Yes ☐ No |
| 5a | Constructed or operated any facility for which a permit was sought, including the current facility, without the required air quality permit(s) under 20.2.70 NMAC, 20.2.72 NMAC, 20.2.74 NMAC, 20.2.79 NMAC, or 20.2.84 NMAC? | ☐ Yes ☐ No |
| 5b | If "No" to question 5a, go to question 6.<br>If "Yes" to question 5a, state whether each facility that was constructed or operated without the required air quality permit met at least one of the following exceptions:<br><br>a. The unpermitted facility was discovered after acquisition during a timely environmental audit that was authorized by the Department; or<br><br>b. The operator of the facility estimated that the facility's emissions would not require an air permit, **and** the operator applied for an air permit within 30 calendar days of discovering that an air permit was required for the facility. | ☐ Yes ☐ No |
| 6 | Had any permit revoked or permanently suspended for cause under the environmental laws of any state or the United States? | ☐ Yes ☐ No |
| 7 | For each "yes" answer, please provide an explanation and documentation. | |

# Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
July 25, 2025
and ending with the issue dated
July 25, 2025.

Publisher

Sworn and subscribed to before me this
25th day of July 2025.

Business Manager

My commission expires
January 29, 2027

(Seal) STATE OF NEW MEXICO
NOTARY PUBLIC
GUSSIE RUTH BLACK
COMMISSION # 1087526
COMMISSION EXPIRES 01/29/2027

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.



**LEGAL NOTICE**
**July 25, 2025**

**NOTICE**

**EOG Resources, Inc.** announces its intent to apply to the New Mexico Environment Department for an air quality General Construction Permit, **GCP-Oil and Gas**. The expected date of the submittal of our registration form to the Air Quality Bureau is **August 25, 2025**. This notice is a requirement according to New Mexico air quality regulations.

The exact and approximate location of the facility will be:

**Boa Localized Gas Lift Station** – (32.190928°,-103.604355°) – 24.9 miles northwest of Jal in Lea County.
**Jefe BSJ Federal Com 1H** – (32.080565°, -103.695036°) – 23.8 miles southeast of Malaga in Lea County.

The standard operating schedule of this facility will be continuous.

Air emissions of any regulated air contaminant will be less than or equal to:

| | Tons per year (TPY) |
|---|---|
| 1. Nitrogen Oxides ($NO_x$) | 95 |
| 2. Carbon Monoxide (CO) | 95 |
| 3. Volatile Organic Compounds (VOC) (stack) | 95 |
| 4. Particulate Matter (PM10) | 25 |
| 5. Particulate Matter (PM2.5) | 25 |
| 6. Sulfur Dioxide ($SO_2$) | 95 |
| 7. Hydrogen Sulfide (H2S) | 25 |
| 8. Any one (1) Hazardous Air Pollutant (HAP) | <10 |
| 9. Sum of all Hazardous Air Pollutants (HAPs) | <25 |

The owner and/or operator of the facilities is:
**EOG Resources, Inc.**
**5509 Champions Drive**
**Midland, TX 79706**

If you have any questions or comments about construction or operation of above facility, and want your comments to be made as a part of the permit review process, you must submit your comments in writing to the address below:

New Mexico Environment Department
Air Quality Bureau Permit Section
525 Camino de los Marquez, Suite 1, Santa Fe, New Mexico, 87505
Phone (505) 476-4300

Other comments and questions may be submitted verbally.

**Please refer to the company name and site name in this notice or send a copy of this notice with your comments, since the Department may not have received the permit Registration at the time of this notice.**

**Atención**
Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-629-3395.

**Notice of Non-Discrimination**
NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@env.nm.gov. You may also visit our website at www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.
**#00302936**

01105308 00302936

JENNIFER HANNA
EOG RESOURCES,INC.
5509 CHAMPIONS DR.
MIDLAND, TX 79706

# APPENDIX P. RED HILLS UA4

# Universal Application 4

## Air Dispersion Modeling Report

Refer to and complete Section 16 of the Universal Application form (UA3) to assist your determination as to whether modeling is required. If, after filling out Section 16, you are still unsure if modeling is required, e-mail the completed Section 16 to the AQB Modeling Manager for assistance in making this determination. If modeling is required, a modeling protocol would be submitted and approved prior to an application submittal. The protocol should be emailed to the modeling manager. A protocol is recommended but optional for minor sources and is required for new PSD sources or PSD major modifications. Fill out and submit this portion of the Universal Application form (UA4), the "Air Dispersion Modeling Report", only if air dispersion modeling is required for this application submittal. This serves as your modeling report submittal and should contain all the information needed to describe the modeling. No other modeling report or modeling protocol should be submitted with this permit application.

### 16-A: Identification

| | | |
|---|---|---|
| 1 | Name of facility: | Red Hills Gas Processing Plant |
| 2 | Name of company: | Targa Northern Delaware, LLC |
| 3 | Current Permit number: | 4310M6R3 |
| 4 | Name of applicant's modeler: | John Ke (Class II), Jon Hill (Class II), Steve Ochs (Class I), Jeremias Szust (Class I) |
| 5 | Phone number of modeler: | (651) 275-9900 ext. 2406, (919) 462-9693, 480-262-9918, 786-252-8216 |
| 6 | E-mail of modeler: | JKe@trinityconsultants.com, JHill@trinityconsultants.com, SOchs@trinityconsultants.com, JSzust@trinityconsultants.com |

### 16-B: Brief

| | | | |
|---|---|---|---|
| 1 | Was a modeling protocol submitted and approved? A modeling protocol was submitted to NMED and FLMs on April 10, 2025. Modeling protocol approval was received on 01/27/2026. | Yes☒ | No☐ |
| 2 | Why is the modeling being done? PSD Significant Modification | Other (describe below) | |
| 3 | Describe the permit changes relevant to the modeling. | | |
| | This application is being submitted as a PSD Major Modification pursuant to 20.2.74.300.D NMAC. All sources at the site are being included as "new sources" in the PSD analysis. With regard to changes from the current permit, Targa is seeking to update calculation methodologies, representations, emission limits, and throughput capacities. Please refer to Section 3 of the application for details. | | |
| 4 | What geodetic datum was used in the modeling? | WGS84 | |
| 5 | How long will the facility be at this location? | More than 1 year. | |

| | | | |
|---|---|---|---|
| 6 | Is the facility a major source with respect to Prevention of Significant Deterioration (PSD)? | Yes☒ | No☐ |
| 7 | Identify the Air Quality Control Region (AQCR) in which the facility is located | 155 | |
| 8 | List the PSD baseline dates for this region (minor or major, as appropriate). | | |
| | NO2 | 3/16/1988 | |
| | SO2 | 7/28/1978 | |
| | PM10 | 2/20/1979 | |
| | PM2.5 | 11/13/2013 | |
| 9 | Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits). | | |
| | Carlsbad Caverns: 79.80 km<br>Guadalupe Mountains National Park: 116.00 km<br>Salt Creek Wilderness: 170.60 km<br>White Mountain Wilderness: 275 km<br>Big Bend National Park: 279.75 km | | |
| 10 | Is the facility located in a non-attainment area? If so describe below | Yes☐ | No☒ |
| | N/A | | |
| 11 | Describe any special modeling requirements, such as streamline permit requirements. | | |
| | CALPUFF was used to model deposition, visibility, regional haze, and to evaluate the Class I increment standards as all Class I areas are outside of AERMOD's 50km modeling range. Please see attached modeling report for details. | | |

## 16-C: Modeling History of Facility

Describe the modeling history of the facility, including the air permit numbers, the pollutants modeled, the National Ambient Air Quality Standards (NAAQS), New Mexico AAQS (NMAAQS), and PSD increments modeled. (Do not include modeling waivers).

1

| Pollutant | Latest permit and modification number that modeled the pollutant facility-wide. | Date of Permit | Comments |
|---|---|---|---|
| CO | 4310M5 | 12/30/2019 | SIL analysis was completed for 4310M6. |
| $NO_2$ | 4310M5 | 12/30/2019 | SIL analysis was completed for 4310M6. |
| $SO_2$ | 4310M5 | 12/30/2019 | SIL analysis was completed for 4310M6. |
| $H_2S$ | 4310M5 | 12/30/2019 | SIL analysis was completed for 4310M6. |
| PM2.5 | 4310M5 | 12/30/2019 | SIL analysis was completed for 4310M6. |
| PM10 | 4310M5 | 12/30/2019 | SIL analysis was completed for 4310M6. |
| Lead | N/A | N/A | |
| Ozone (PSD only) | N/A | N/A | |
| NM Toxic Air Pollutants (20.2.72.402 NMAC) | N/A | N/A | |

## 16-D: Modeling performed for this application

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | For each pollutant, indicate the modeling performed and submitted with this application.<br>Choose the most complicated modeling applicable for that pollutant, i.e., culpability analysis assumes ROI and cumulative analysis were also performed. | | | | | |
| | Pollutant | ROI | Cumulative analysis | Culpability analysis | Waiver approved | Pollutant not emitted or not changed. |
| | CO | ☐ | ☒ | ☐ | ☐ | ☐ |
| | $NO_2$ | ☐ | ☒ | ☐ | ☐ | ☐ |
| | $SO_2$ | ☐ | ☒ | ☐ | ☐ | ☐ |
| | $H_2S$ | ☐ | ☐ | ☒ | ☐ | ☐ |
| | PM2.5 | ☐ | ☐ | ☒ | ☐ | ☐ |
| | PM10 | ☐ | ☐ | ☒ | ☐ | ☐ |
| | Lead | ☐ | ☐ | ☐ | ☐ | ☒ |
| | Ozone | ☐ | ☐ | ☐ | ☐ | ☒ |
| | State air toxic(s) (20.2.72.402 NMAC) | ☐ | ☐ | ☐ | ☐ | ☒ |

## 16-E: New Mexico toxic air pollutants modeling

| | |
|---|---|
| 1 | List any New Mexico toxic air pollutants (NMTAPs) from Tables A and B in 20.2.72.502 NMAC that are modeled for this application.<br>N/A – The facility is not subject to toxic air pollutant modeling. See Section 20 of the application for the facility's screening analysis. |

2 List any NMTAPs that are emitted but not modeled because stack height correction factor. Add additional rows to the table below, if required.

| Pollutant | Emission Rate (pounds/hour) | Emission Rate Screening Level (pounds/hour) | Stack Height (meters) | Correction Factor | Emission Rate/ Correction Factor |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |

## 16-F: Modeling options

| | | | |
|---|---|---|---|
| 1 | Was the latest version of AERMOD used with regulatory default options? If not explain below. | Yes☒ | No☐ |
| | In addition to AERMOD, CALPUFF was used to model AQRVs and evaluate Class I PSD increment. | | |

## 16-G: Surrounding source modeling

| | | |
|---|---|---|
| 1 | Date of surrounding source retrieval | 01/26/2024 |

2 If the surrounding source inventory provided by the Air Quality Bureau was believed to be inaccurate, describe how the sources modeled differ from the inventory provided. If changes to the surrounding source inventory were made, use the table below to describe them. Add rows as needed.

| AQB Source ID | Description of Corrections |
|---|---|
| 29590E20 | NO2: Point source is in the wrong location (~93 km from facility). Source was removed. |

| | | |
|---|---|---|
| | 29590E21 | NO2: Point source is in the wrong location (~93 km from facility). Source was removed. |
| | 1775@1 | NO2, PM2.5, PM10, SO2: Point source is in the wrong location (~69 km from facility). Source was removed. |
| | 30051E7 | NO2, PM2.5, PM10, SO2: Point source is in the wrong location (~43 km from facility). Source was removed. |
| | 30051E8 | NO2, PM2.5, PM10, SO2: Point source is in the wrong location (~43 km from facility). Source was removed. |
| | 38058E18 | NO2, PM2.5, PM10, SO2: Point source is in the wrong location (~77 km from facility). Source was removed. |
| | 38058E19 | NO2, PM2.5, PM10, SO2: Point source is in the wrong location (~77 km from facility). Source was removed. |
| | 40063@1 | PM2.5, PM10: See Section 4.10 of the modeling report. |
| | 38504A1 | PM2.5: See Section 4.10 of the modeling report. |
| | 38504E3 | |
| | 38504E5 | |
| | 38504E6 | |
| | 38504E7 | |
| | 38504E36 | |
| | 38504E27 | |
| | 40140A1 | PM2.5: See Section 4.10 of the modeling report. |
| | 39913A1 | PM2.5: See Section 4.10 of the modeling report. |
| | 39913E2 | |
| | 39913E4 | |
| | 39575R2 | H2S: See Section 4.10 of the modeling report. |
| | 39575R3 | |
| | 39956R2 | H2S: See Section 4.10 of the modeling report. |
| | 39956R3 | |
| | 39664R2 | H2S: See Section 4.10 of the modeling report. |
| | 39664R3 | |
| | | |

## 16-H: Building and structure downwash

| | | | | |
|---|---|---|---|---|
| 1 | How many buildings are present at the facility? | 28 | | |
| 2 | How many above ground storage tanks are present at the facility? | 40 | | |
| 3 | Was building downwash modeled for all buildings and tanks? If not explain why below. | | Yes☒ | No☐ |
| | | | | |
| 4 | Building comments | | | |

## 16-I: Receptors and modeled property boundary

| | | | |
|---|---|---|---|
| 1 | "Restricted Area" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with a steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area. A Restricted Area is required in order to exclude receptors from the facility property. If the facility does not have a Restricted Area, then receptors shall be placed within the property boundaries of the facility.<br><br>Describe the fence or other physical barrier at the facility that defines the restricted area. | | |
| | The facility is enclosed by continuous fencing. | | |
| 2 | Receptors must be placed along publicly accessible roads in the restricted area.<br>Are there public roads passing through the restricted area? There are no publicly accessible roads passing through the restricted area, but there are accessible easements within the facility. Receptors were placed over these easement areas. | Yes☐ | No☒ |
| 3 | Are restricted area boundary coordinates included in the modeling files? | Yes☒ | No☐ |

4 Describe the receptor grids and their spacing. The table below may be used, adding rows as needed.

| Grid Type | Shape | Spacing | Start distance from restricted area or center of facility | End distance from restricted area or center of facility | Comments |
|---|---|---|---|---|---|
| Cartesian | Square | 25 m | N/A | N/A | 25-m resolution at the two onsite easements. |
| Variable Density | Square | 100 m | 0 m | 500 m from ambient air boundary | |
| Variable Density | Square | 500 m | 500 m from ambient air boundary | 5,000 m from ambient air boundary | |
| Variable Density | Square | 1,000 m | 5,000 m from ambient air boundary | 20,000 m from ambient air boundary | |
| Variable Density | Square | 2,000 m | 20,000 m from ambient air boundary | 50,000 m from ambient air boundary | |
| | | | | | |
| | | | | | |

| | |
|---|---|
| 5 | Describe receptor spacing along the fence line.<br>25-m resolution along the ambient air boundary. |
| 6 | Describe the PSD Class I area receptors.<br>Class I modeling was completed in CALPUFF. The CALPUFF analysis included gridded meteorological data, as compiled and published by Tim Allen at USFWS. A 12 km grid spacing was used, across the entire domain covering the project site and all affected Class I areas. The Class I area receptors, available from the NPS website were included for each affected area. |

## 16-J: Modeling Scenarios

| | |
|---|---|
| | Identify, define, and describe all modeling scenarios. Examples of modeling scenarios include using different production rates, times of day, times of year, simultaneous or alternate operation of old and new equipment during transition periods, etc. Alternative operating scenarios should correspond to all parts of the Universal Application and should be fully described in Section 15 of the Universal Application (UA3). |
| 1 | For units with alternative operating scenarios occurring at the same emission point, such as the flares at the facility, the maximum scenario will be used for the modeling demonstration. The alternative operating scenarios will be detailed in Section 15 of the application package submittal.<br><br>For alternative operating scenarios that occur at different emission points, all scenarios will be modeled in the significant impact analysis and the scenario that results in the most significant impact will be used to demonstrate compliance through a cumulative analysis.<br><br>The most significant alternative operating scenario revolves around the flares that operate on the acid gas trains. Three scenarios exist: RHA-FL-5100 operating independently, RA2-FL-25100 operating independently, and RHA-FL-5100 and RA2-FL-25100 operating simultaneously. Details regarding the limitation of these scenarios and their associated emission rates will be provided in detail in the application and modeling report submitted to the NMED. |
| 2 | Which scenario produces the highest concentrations? Why?<br>CO: Scenario 1<br><br>H2S: Scenario 3<br><br>NO2 Annual: Scenario 2<br>NO2 1-hr: Scenario 3<br><br>PM2.5 Annual: Equivalent Scenarios (no difference in PM emissions between scenarios)<br>PM2.5 24-hr: Equivalent Scenarios (no difference in PM emissions between scenarios)<br><br>PM10 Annual: Equivalent Scenarios (no difference in PM emissions between scenarios)<br>PM10 24-hr: Equivalent Scenarios (no difference in PM emissions between scenarios)<br><br>SO2 Annual: Scenario 2<br>SO2 24-hr: Scenario 3<br>SO2 3-hr: Scenario 2<br>SO2 1-hr: Scenario 2 |
| | For Class I SIL and AQRVs modeling, all three operating scenarios were modeled. |
| 3 | Were emission factor sets used to limit emission rates or hours of operation?<br>(This question pertains to the "SEASON", "MONTH", "HROFDY" and related factor sets, not to the factors used for calculating the maximum emission rate.) — Yes☐ — No☒ |
| 4 | If so, describe factors for each group of sources. List the sources in each group before the factor table for that group. (Modify or duplicate table as necessary. It's ok to put the table below section 16-K if it makes formatting easier.)<br>Sources: N/A |

5

| Hour of Day | Factor | Hour of Day | Factor | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 13 | | | | | | | | | |
| 2 | | 14 | | | | | | | | | |
| 3 | | 15 | | | | | | | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | | 16 | | | | | | | | | |
| | 5 | | 17 | | | | | | | | | |
| | 6 | | 18 | | | | | | | | | |
| | 7 | | 19 | | | | | | | | | |
| | 8 | | 20 | | | | | | | | | |
| | 9 | | 21 | | | | | | | | | |
| | 10 | | 22 | | | | | | | | | |
| | 11 | | 23 | | | | | | | | | |
| | 12 | | 24 | | | | | | | | | |
| | If hourly, variable emission rates were used that were not described above, describe them below. | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | | | |
|---|---|---|---|
| 6 | Were different emission rates used for short-term and annual modeling? If so describe below. | Yes☒ | No☐ |
| | Steady state emission rates for all averaging periods were modeled using the maximum short-term emission rate allowed in the Red Hills permit application. Startup, shutdown, and maintenance (SSM) emission rates were modeled using point sources and scenarios separate from steady state impacts to demonstrate compliance with standards. Short-term emissions for limited-hour sources (e.g., backup power generator engines) will be modeled at the maximum short-term emission rate for deterministic standards (PM10, CO) and at annualized emission rates based on the EPA guidance for probabilistic standards (1-hour NO2, 1-hour SO2). Although PM2.5 is a probabilistic standard, short-term emissions for limited-hour sources will be modeled at the maximum short-term emission rate. | | |

## 16-K: $NO_2$ Modeling

| | | |
|---|---|---|
| 1 | Which types of $NO_2$ modeling were used?<br>Check all that apply. | |
| | ☒ | ARM2 |
| | ☐ | 100% $NO_X$ to $NO_2$ conversion |
| | ☐ | PVMRM |
| | ☐ | OLM |
| | ☐ | Other: |
| 2 | Describe the $NO_2$ modeling. | |
| | The ARM2 Methodology was used with the default maximum and minimum ambient ratios. | |

| | | | |
|---|---|---|---|
| 3 | Were default $NO_2/NO_X$ ratios (0.5 minimum, 0.9 maximum or equilibrium) used? If not describe and justify the ratios used below. | Yes☒ | No☐ |
| | N/A | | |
| 4 | Describe the design value used for each averaging period modeled. | | |
| | 1-hour: High eighth high<br>Annual One Year Annual Average: | | |

## 16-L: Ozone Analysis

| | |
|---|---|
| 1 | NMED has performed a generic analysis that demonstrates sources that are minor with respect to PSD do not cause or contribute to any violations of ozone NAAQS. The analysis follows.<br>The basis of the ozone SIL is documented in *Guidance on Significant Impact Levels for Ozone and Fine Particles in the Prevention of Significant Deterioration Permitting Program*, EPA, April 17, 2018 and associated documents. NMED accepts this SIL basis and incorporates it into this permit record by reference. Complete documentation of the ozone concentration analysis using MERPS is included in the New Mexico Air Quality Bureau Air Dispersion Modeling Guidelines. |
| 2 | The MERP values presented in Table 10 and Table 11 of the NM AQB Modeling Guidelines that produce the highest concentrations indicate that facilities emitting no more than 250 tons/year of $NO_X$ and no more than 250 tons/year of VOCs will cause less formation of $O_3$ than the $O_3$ significance level.<br>$$[O_3]_{8-hour} = \left( \frac{250 \frac{ton}{yr}}{340_{MERP_{NOX}}} + \frac{250 \frac{ton}{yr}}{4679_{MERP_{VOC}}} \right) \times 1.96\ \mu g/m^3$$<br>=1.546 µg/m³, which is below the significance level of 1.96 µg/m³.<br>Sources that produce ozone concentrations below the ozone SIL do not cause or contribute to air contaminant levels exceeding the ozone NAAQS. |

| | | | |
|---|---|---|---|
| 3 | Does the facility emit at least 250 tons per year of $NO_X$ or at least 250 tons per year of VOCs? Sources that emit at least 250 tons per year of $NO_X$ or at least 250 tons per year of VOCs are covered by the analysis above and require an individual analysis. | Yes☒ | No☐ |

5 For new PSD Major Sources or PSD major modifications, if MERPs were used to account for ozone fill out the information below. If another method was used describe below.

| $NO_X$ (ton/yr) | $MERP_{NOX}$ | VOCs (ton/yr) | $MERP_{VOC}$ | $[O_3]_{8\text{-hour}}$ |
|---|---|---|---|---|
| 179.3 | 417 | 916.6 | 15,669 | 0.96 |

The calculated ozone MERP value of 1.42 µg/m³ which is below the significance threshold of 1.96 µg/m³.

## 16-M: Particulate Matter Modeling

1 Select the pollutants for which plume depletion modeling was used.

| | |
|---|---|
| ☐ | PM2.5 |
| ☐ | PM10 |
| ☒ | None |

2 Describe the particle size distributions used. Include the source of information.

N/A

| | | | |
|---|---|---|---|
| 3 | Does the facility emit at least 40 tons per year of $NO_X$ or at least 40 tons per year of $SO_2$? Sources that emit at least 40 tons per year of $NO_X$ or at least 40 tons per year of $SO_2$ are considered to emit significant amounts of precursors and must account for secondary formation of PM2.5. | Yes☒ | No☐ |
| 4 | Was secondary PM modeled for PM2.5? | Yes☐ | No☒ |

5 If MERPs were used to account for secondary PM2.5 fill out the information below. If another method was used describe below.

| Pollutant | $NO_X$ | $SO_2$ | | $[PM2.5]_{24\text{-hour}}$ |
|---|---|---|---|---|
| $MERP_{annual}$ | 26780 | 25,929 | | 0.2706 |

| | | | | | |
|---|---|---|---|---|---|
| | $MERP_{24\text{-hour}}$ | 7331 | 2,170 | | $[PM2.5]_{annual}$ |
| | Emission rate (ton/yr) | 179.3 | 436.3 | | 0.0047 |
| | | | | | |

## 16-N: Setback Distances

| | |
|---|---|
| | Portable sources or sources that need flexibility in their site configuration requires that setback distances be determined between the emission sources and the restricted area boundary (e.g. fence line) for both the initial location and future locations. Describe the setback distances for the initial location. |
| 1 | Generators can be located anywhere throughout the plant. Preliminary modeling which modeled generators along the generator zone boundaries as identified in Figure 4-1 of the modeling protocol located generators a minimum of 40 feet from the restricted area boundary. Targa used preliminary modeling to identify the worst-case locations for these generators and in their current modeled location, the generators are a minimum of 40 feet from the restricted area boundary. See Section 4.4 of the attached modeling report for more details. |
| 2 | Describe the requested, modeled, setback distances for future locations, if this permit is for a portable stationary source. Include a haul road in the relocation modeling. |
| | The facility requests to be able to locate the generators within the areas identified as the generator location zones in the modeling protocol. The worst-case locations within these areas were modeled. |

## 16-O: PSD Increment and Source IDs

| | | | |
|---|---|---|---|
| | The unit numbers in the Tables 2-A, 2-B, 2-C, 2-E, 2-F, and 2-I should match the ones in the modeling files. Do these match? If not, provide a cross-reference table between unit numbers if they do not match below. | Yes☐ | No☒ |

| | Unit Number in UA-2 | Unit Number in Modeling Files |
|---|---|---|
| 1 | RH1-H-23-704 | 1EP1 |
| | RH1-H-1101 | 1.5EP1G |
| | RH4-H-41100 | 4EP1G |
| | RH2-H-741 | 2EP1A |
| | RH2-H-781 | 2EP1B |
| | RH2-H-2301 | 2EP1E |
| | RH2-H-0901 | 2EP1H |
| | RH2-H-1001 | 2AEP1D |
| | RHA-H-4901 | 2.5EP1D |
| | RH3-H-741 | 3EP1A |
| | RH3-H-781 | 3EP1B |
| | RH3-H-6301 | 3EP1E |
| | RH4-H-741 | 4EP1A |
| | RH4-H-781 | 4EP1B |
| | RH4-H-3901 | 4EP1D |
| | RH4-H-5301 | 4EP1E |
| | RH4-H-4001 | 4EP1H |
| | RH5-H-50902 | 5EP1A |
| | RH5-H-50001 | 5EP1B |
| | RH5-H-50741 | 5EP1C |

| | | |
|---|---|---|
| | RH5-H-50781 | 5EP1D |
| | RH6-H-60741 | 6EP1C |
| | RH6-H-60781 | 6EP1D |
| | RH6-H-60001 | 6EP1A |
| | RA2-H-20001 | 5.5EP1A |
| | RH1-FL-29-1003 | 1EP2 |
| | RH2-FL-5100 | 2EP2A |
| | RHA-FL-5100 | 2.5EP5 |
| | RH3-FL-5100 | 3EP2A |
| | RH4-FL-45100 | 4EP2A |
| | RH5-FL-55100 | 5EP2 |
| | RA2-FL-25100 | 5.5EP1B |
| | RHA-FL-5850 | EP9 |
| | RA2-FL-25850 | EP13 |
| | RH1-FL-2850 | EP79 |
| | RH4-FL-46200 | RH4FLTK |
| | RH2-TO-5500 | EP5 |
| | RH4-TO-45500 | EP8 |
| | RH5-TO-55500 | EP10 |
| | RH4-REC-24INCH | REC6 |
| | RH-GEN-1 | GEN1 |
| | RH-GEN-2 | GEN2 |
| | RH-GEN-3 | GEN3 |
| | RH-GEN-4 | GEN4 |
| | RH-GEN-5 | GEN5 |
| | RH-GEN-6 | GEN6 |
| | RH-GEN-7 | GEN7 |
| | RH-GEN-8 | GEN8 |
| | RH-GEN-9 | GEN9 |
| | RH-GEN-10 | GEN10 |
| | RH-TRAILER | TRAILER |
| | RH-GEN-WELL | GEN_WW |
| | RH-FUG-1 | FUG1 |
| | RH-FUG-2 | FUG |
| | RHA-FUG | FUGAGI1 |
| | RA2-FUG | FUGAGI2 |
| | RH4-REC-24INCH | LAU6 |
| | RH1-SSM | 1EP1T |
| | RH2-SSM | 2EP1T |
| | RH3-SSM | 3EP1T |
| | RH4-SSM | 4EP1T |

| | | |
|---|---|---|
| | RH5-SSM | 5EP1T |
| | RH6-SSM | 6EP1T |
| | RHA-SSM | 2.5EP1T |
| | RA2-SSM | 5.5EP1T |
| | RHA-TK-SLOP-LOAD | 2LOAD |
| | RA2-TK-SLOP-LOAD | 4LOAD |

| | | | |
|---|---|---|---|
| | The emission rates in the Tables 2-E and 2-F should match the ones in the modeling files. Do these match? If not, explain why below. | Yes☐ | No☒ |

2

**Sweet Gas Flares**

Short-term emissions modeled for sweet gas flares, which include the 1-hr, 8-hr, and 24-hr averaging periods, reflect the sum of process emissions and the worst-case startup, shutdown and maintenance (SSM) emissions. Pilot, purge, and dehydrator still vent emissions are included in process emissions, where appropriate, meaning that they were assumed to be emitted continuously over a 24-hour period. For 24-hour standards, process emissions were assumed to occur for the entire period, while worst-case SSM emissions were assumed to only occur for the duration of the worst-case SSM event, which is 12 hours. The worst case SSM event would expend all of its proposed annual tons per year (TPY) emissions limit within a 12-hour period at that rate; therefore, it is presumed that this approach is conservative.

Annual emissions for sweet gas flares only account for process emissions, which include pilot, purge, and dehydrator still vent emissions, where appropriate. Per NMED Modeling Guidance Section 4.1.6, SSM does not have to demonstrate compliance with the annual standards or annual increment consumption.[1]

The table below summarizes the hourly, daily, and annual $NO_x$ and $SO_2$ emission rates modeled for each sweet gas flare. Modeling for CO and $H_2S$ utilized the highest hourly emission rate.

**Table 0-1. Sweet Gas Flares Emission Rates**

| Model Unit ID | Permit Unit ID | Hourly Emission Rate (lb/hr) | | Daily Emission Rate[a] (lb/hr) | | Annual Emission Rate[b] (lb/hr) | |
|---|---|---|---|---|---|---|---|
| | | $NO_x$ | $SO_2$ | $NO_x$ | $SO_2$ | $NO_x$ | $SO_2$ |
| 1-EP-2 | RH1-FL-29-1003 | 211.68 | 2.56 | 106.12 | 1.35 | 0.56 | 0.15 |
| 2-EP-2a | RH2-FL-5100 | 563.35 | 5.00 | 281.86 | 2.50 | 0.37 | 0.0017 |
| 3-EP-2a | RH3-FL-5100 | 563.35 | 5.00 | 281.86 | 2.50 | 0.37 | 0.0017 |
| 4-EP-2a | RH4-FL-45100 | 648.31 | 5.75 | 324.08 | 2.88 | 0.37 | 0.0017 |
| 5-EP-2 | RH5-FL-55100 | 648.18 | 5.75 | 324.47 | 2.88 | 0.76 | 0.0035 |

a. Daily emission rates assume process emissions are emitted continuously over a 24-hour period, while worst-case SSM emissions are assumed to occur for the duration of the worst-case SSM event, which is 12 hours.
b. Annual emission rates only account for process emissions.

**Acid Gas Flares**

Flare model unit IDs 2.5-EP-5 and 5.5-EP-1b (permit unit IDs RHA-FL-5100 and RA2-FL-25100) combust SSM and gaseous emissions from various process equipment at the facility. These flares also handle acid gas emissions from RHA-AMINE and RA2-AMINE when AGI-1 and AGI-2 are offline. There are three (3) operating scenarios for these flares are summarized in Table 0-2 below. Each flare unit will have hourly emission limits (represented by the three operating scenarios) based on whether the flares are operating simultaneously or exclusively, as represented in Table 0-3 below.

[1] NMED Modeling Guidance (July 2024). Section 4.1.6 Startup, Shutdown, Maintenance (SSM), and Other Short-term Emissions

**Table 0-2. Acid Gas Flare Scenarios**

| Model Unit ID | Permit Unit ID | AOS 1 Processes | AOS 2 Processes | AOS 3 Processes |
|---|---|---|---|---|
| **2.5-EP-5** | RHA-FL-5100 | Pilot<br>Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge<br>RHA-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge |
| **5.5-EP-1b** | RA2-FL-25100 | Pilot<br>Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions | Pilot<br>Purge | Pilot<br>Purge<br>RA2-AMINE Still Vent<br>Inlet Gas<br>SSM Emissions |

**Table 0-3. AGI Flaring Scenarios Hourly Emission Rates**

| Model Unit ID | Permit Unit ID | Scenario | $NO_x$ (lb/hr) | CO (lb/hr) | $SO_2$ (lb/hr) | $H_2S$ (lb/hr) |
|---|---|---|---|---|---|---|
| **2.5-EP-5** | RHA-FL-5100 | AOS 1 | 16.83 | 144.32 | 128.29 | 1.39 |
| | | AOS 2 | 16.87 | 144.65 | 259.57 | 2.85 |
| | | AOS 3 | 0.071 | 0.61 | 1.02E-03 | 2.86E-06 |
| **5.5-EP-1b** | RA2-FL-25100 | AOS 1 | 16.92 | 145.07 | 127.13 | 1.38 |
| | | AOS 2 | 0.17 | 1.47 | 1.83E-03 | 6.88E-06 |
| | | AOS 3 | 21.15 | 181.30 | 258.17 | 2.80 |

In addition to the flaring scenarios represented above, each flare is also going to take a daily emission rate limit to more appropriately represent impacts over a 24-hour period. The proposed daily emission rate limits for these units, in lb/day, are presented in Table 0-4 below.

**Table 0-4. AGI Flaring Scenarios Daily Emission Rates**

| Model Unit ID | Permit Unit ID | Scenario | $NO_x$ (lb/day) | CO (lb/day) | $SO_2$ (lb/day) | $H_2S$ (lb/day) |
|---|---|---|---|---|---|---|
| **2.5-EP-5** | RHA-FL-5100 | AOS 1 | 269.31 | 2,309.06 | 2,052.62 | 22.25 |
| | | AOS 2 | 269.93 | 2,314.44 | 4,153.05 | 45.55 |
| | | AOS 3 | 1.71 | 14.66 | 0.025 | 6.86E-05 |
| **5.5-EP-1b** | RA2-FL-25100 | AOS 1 | 270.72 | 2,321.19 | 2,034.08 | 22.05 |
| | | AOS 2 | 2.75 | 23.54 | 0.029 | 1.10E-04 |
| | | AOS 3 | 338.32 | 2,900.81 | 4,130.65 | 44.78 |

| | | | |
|---|---|---|---|
| 3 | Have the minor NSR exempt sources or Title V Insignificant Activities" (Table 2-B) sources been modeled? | Yes☐ | No☒ |

4 Which units consume increment for which pollutants?

| Unit ID | $NO_2$ | $SO_2$ | PM10 | PM2.5 |
|---|---|---|---|---|
| 1EP1 | X | X | X | X |
| 1.5EP1G | X | X | X | X |
| 4EP1G | X | X | X | X |
| 2EP1A | X | X | X | X |

| | | | | | |
|---|---|---|---|---|---|
| | 2EP1B | X | X | X | X |
| | 2EP1E | X | X | X | X |
| | 2EP1H | X | X | X | X |
| | 2AEP1D | X | X | X | X |
| | 2.5EP1D | X | X | X | X |
| | 3EP1A | X | X | X | X |
| | 3EP1B | X | X | X | X |
| | 3EP1E | X | X | X | X |
| | 4EP1A | X | X | X | X |
| | 4EP1B | X | X | X | X |
| | 4EP1D | X | X | X | X |
| | 4EP1E | X | X | X | X |
| | 4EP1H | X | X | X | X |
| | 5EP1A | X | X | X | X |
| | 5EP1B | X | X | X | X |
| | 5EP1C | X | X | X | X |
| | 5EP1D | X | X | X | X |
| | 6EP1C | X | X | X | X |
| | 6EP1D | X | X | X | X |
| | 6EP1A | X | X | X | X |
| | 5.5EP1A | X | X | X | X |
| | 1EP2 | X | X | | |
| | 2EP2A | X | X | | |
| | 2.5EP5 | X | X | | |
| | 3EP2A | X | X | | |
| | 4EP2A | X | X | | |
| | 5EP2 | X | X | | |
| | 5.5EP1B | X | X | | |
| | EP9 | X | X | | |
| | EP13 | X | X | | |
| | EP79 | X | X | | |
| | EP5 | X | X | X | X |
| | EP8 | X | X | X | X |
| | EP10 | X | X | X | X |
| | HAUL-1 | | | X | X |

| | | | |
|---|---|---|---|
| 5 | PSD increment description for sources.<br>(for unusual cases, i.e., baseline unit expanded emissions after baseline date). | SSM and intermittent sources such as temporary generators do not consume increment. | |
| 6 | Are all the actual installation dates included in Table 2A of the application form, as required? This is necessary to verify the accuracy of PSD increment modeling. If not please explain how increment consumption status is determined for the missing installation dates below. | Yes☒ | No☐ |
| | | | |

## 16-P: Flare Modeling

| | | |
|---|---|---|
| 1 | For each flare or flaring scenario, complete the following | |

| | Flare ID (and scenario) | Average Molecular Weight (g/mol) | Gross Heat Release (cal/s) | Effective Flare Diameter (m) | Effective Flare Height (m) |
|---|---|---|---|---|---|
| | 1EP2 (All Scenarios) | 21.23 | 107,374,554 | 9.15 | 51.27 |
| | 2EP2A (All Scenarios) | 21.23 | 285,757,544 | 14.92 | 80.71 |
| | 2.5EP5 (Scenario 1) | 21.23 | 28,356,878 | 4.7 | 62.06 |
| | 2.5EP5 (Scenario 2) | 21.23 | 38,613,233 | 5.48 | 64.71 |
| | 2.5EP5 (Scenario 3) | 21.23 | 77,793 | 0.25 | 46.41 |
| | 3EP2A (All Scenarios) | 21.23 | 285,757,544 | 14.92 | 80.71 |
| | 4EP2A (All Scenarios) | 21.23 | 328,851,194 | 16.004 | 84.19 |
| | 5EP2 (All Scenarios) | 21.23 | 328,788,7959 | 16.002 | 114.36 |
| | 5.5EP1B (Scenario 1) | 21.23 | 30,082,200 | 4.84 | 61.32 |
| | 5.5EP1B (Scenario 2) | 21.23 | 187,360 | 0.38 | 45.71 |
| | 5.5EP1B (Scenario 3) | 21.23 | 41,411,304 | 5.68 | 64.15 |
| | EP9 (All Scenarios) | 21.23 | 7,721 | 0.078 | 6.73 |
| | EP13 (All Scenarios) | 21.23 | 7,732 | 0.078 | 7.95 |
| | EP79 (All Scenarios) | 21.23 | 21,002 | 0.13 | 9.67 |
| | RH4-FL-46200 (All Scenarios) | 54.09 | 457,483 | 0.54 | 11.46 |

## 16-Q: Volume and Related Sources

| | | | |
|---|---|---|---|
| 1 | Were the dimensions of volume sources different from standard dimensions in the Air Quality Bureau (AQB) Modeling Guidelines? | Yes☒ | No☐ |
| | | | |
| 2 | Describe the determination of sigma-Y and sigma-Z for fugitive sources. | | |
| | COMB123: Represents emissions from Trains 1-3, 2.5, 5.5 Venting SSM, RH-FUG-1, RHA-FUG, and RA2-FUG. Lateral dimension based on the area covering all these sources; using this lateral dimension to calculate the sigma-y would result in receptors located within the volume source exclusion zone, so sigma-y is conservatively lowered so that no receptors are within the volume source exclusion zone. Sigma z based on height of fugitive sources.<br>COMB-456: Similar to COMB123, although the source represents emissions from Trains 4-6 Venting SSM and RH-FUG-2.<br>RRGBOO01 – RRGOO077, O1O2078 - O1O2122, O1123 – O2140, R1R2141 – R1R2223, R1223 – R1127, GRN228-GRN242, BLUE243-BLUE273: Haul road volume source parameters were determined in accordance with the NMED AQB Modeling Guideline instructions for haul road sources.<br>REC1: Uses NMED AQB Modeling Guidelines standard dimensions.<br>REC2: Uses NMED AQB Modeling Guidelines standard dimensions.<br>REC3: Uses NMED AQB Modeling Guidelines standard dimensions.<br>REC4: Uses NMED AQB Modeling Guidelines standard dimensions.<br>REC5: Uses NMED AQB Modeling Guidelines standard dimensions.<br>REC8: Uses NMED AQB Modeling Guidelines standard dimensions.<br>REC9: Uses NMED AQB Modeling Guidelines standard dimensions. | | |

| | |
|---|---|
| | LAU1: Uses NMED AQB Modeling Guidelines standard dimensions.<br>LAU2: Uses NMED AQB Modeling Guidelines standard dimensions.<br>LAU3: Uses NMED AQB Modeling Guidelines standard dimensions.<br>LAU4: Uses NMED AQB Modeling Guidelines standard dimensions.<br>LAU5: Uses NMED AQB Modeling Guidelines standard dimensions.<br>LAU6: Uses NMED AQB Modeling Guidelines standard dimensions.<br>2LOAD: Release height is based on the average height of a truck.<br>4LOAD: Release height is based on the average height of a truck. |
| 3 | Describe how the volume sources are related to unit numbers.<br>Or say they are the same. |
| | COMB123: Includes unit numbers 1-EP-1t, 2-EP-1t, 3-EP-1t, 2.5-EP-1t, 5.5-EP-1t, FUG, and FUG-AGI<br>COMB-456: Includes unit numbers 4-EP-1t, 5-EP-1t, 6-EP-1t, and FUG-1<br>RRGBOO01 – RRGOO077: Includes the overlap of all truck hauling routes.<br>O1O2078 - O1O2122: Includes overlap of both orange routes.<br>O1123 – O2140 : Includes each orange route's individual segments.<br>R1R2141 – R1R2223: Includes overlap of both red routes.<br>R1223 – R1127: Includes red route segments.<br>GRN228-GRN242: Includes green route segments.<br>BLUE243-BLUE273: Includes blue route segments.<br>REC1: Unit is the same.<br>REC2: Unit is the same.<br>REC3: Unit is the same.<br>REC4: Unit is the same.<br>REC5: Unit is the same.<br>REC8: Unit is the same.<br>REC9: Unit is the same.<br>LAU1: Unit is the same.<br>LAU2: Unit is the same.<br>LAU3: Unit is the same.<br>LAU4: Unit is the same.<br>LAU5: Unit is the same.<br>LAU6: Unit is the same.<br>2LOAD: Unit is the same.<br>4LOAD: Unit is the same. |
| 4 | Describe any open pits. |
| | N/A – There are no open pits. |
| 5 | Describe emission units included in each open pit. |
| | N/A – There are no open pits. |

## 16-R: Background Concentrations

| | | | |
|---|---|---|---|
| 1 | Were NMED provided background concentrations used? Identify the background station used below. If non-NMED provided background concentrations were used describe the data that was used. | Yes☐ | No☒ |
| | CO: El Paso Chamizal (481410044) | | |
| | $NO_2$: Hobbs-Jefferson (350250008) | | |
| | PM2.5: Hobbs-Jefferson (350450019) | | |
| | PM10: Choose an item. | | |

| | | | |
|---|---|---|---|
| | $SO_2$: N/A | | |
| | Other: PM10 background monitor – Douglas Red Cross (04-003-1005) | | |
| | Comments: PM10 background used Douglas Red Cross (04-003-1005). Please refer to the preconstruction monitoring waiver for background concentration development for all applicable pollutants. | | |
| 2 | Were background concentrations refined to monthly or hourly values? If so describe below. | Yes☐ | No☒ |
| | N/A – No refined monthly or hourly values were used. | | |

## 16-S: Meteorological Data

| | | | |
|---|---|---|---|
| 1 | Was NMED provided meteorological data used? If so select the station used.<br><br>Hobbs | Yes☒ | No☐ |
| 2 | If NMED provided meteorological data was not used describe the data set(s) used below. Discuss how missing data were handled, how stability class was determined, and how the data were processed. | | |
| | N/A – NMED provided meteorological data was used. | | |

## 16-T: Terrain

| | | | |
|---|---|---|---|
| 1 | Was complex terrain used in the modeling? If not, describe why below. | Yes☒ | No☐ |
| | N/A | | |
| 2 | What was the source of the terrain data? | | |
| | Terrain was incorporated into the modeling analysis through the use of AERMAP with the most recent 1/3 degree NED data currently available from https://apps.nationalmap.gov/downloader/#/ | | |

## 16-U: Modeling Files

Describe the modeling files:

Significant Impact Models

- File name format “RHGP _Poll AvgPer_SIL.ami”
- “Poll” = NO2… nitrogen oxides; CO…carbon monoxide; PM10…particulate matter, PM10; PM2.5…particulate matter, PM2.5; SO2… sulfur dioxide
- “AvgPer” = averaging period. 1hr = 1 hour, etc. annual = annual
- “SIL” SIL designator
- Files may contain SIL for short-term, annual, and increment averaging periods.

NM/NAAQS and Increment Models

- File name format “RHGP _Poll AvgPer_Standard.ami”
- “Poll” = NO2… nitrogen oxides; CO…carbon monoxide; PM10…particulate matter, PM10; PM25…particulate matter, PM2.5; SO2… sulfur dioxide
- “AvgPer” = averaging period. 1hr = 1 hour, etc. annual = annual
- “Standard”= air quality standard. PSD = PSD Increment Class II, NAAQS = NAAQS

PSD Class II Models

- File name format “RHGP_Poll AvgPer_Standard_SIL.ami” or “RHGP _Poll AvgPer_Standard.ami”
- “Poll” = NO2… nitrogen oxides; CO…carbon monoxide; PM10…particulate matter, PM10; PM2.5…particulate matter, PM2.5; SO2… sulfur dioxide
- “AvgPer” = averaging period. 1hr = 1 hour, etc. annual = annual
- “SIL” SIL designator

- "Standard"= air quality standard. Class I = PSD Increment Class I

Culpability

- File name format "RHGP_Poll AvgPer_Standard_CP.ami"
- "Poll" = NO2… nitrogen oxides; CO…carbon monoxide; PM10…particulate matter, PM10; PM25…particulate matter, PM2.5; SO2… sulfur dioxide
- "AvgPer" = averaging period. 1hr = 1 hour, etc. annual = annual
- "Standard"= air quality standard. PSD = PSD Increment Class II, NAAQS = NAAQS
- "CP" Culpability designator

| File name (or folder and file name) | Pollutant(s) | Purpose (ROI/SIA, cumulative, culpability analysis, other) |
|---|---|---|
| RHGP_Generators | All | Determine worst-case generator locations |
| RHGP_CO_SIL | CO | ROI/SIA |
| RHGP_H2S_SIL | H2S | ROI/SIA |
| RHGP_NO2 Ann_SIL | NO2 | ROI/SIA |
| RHGP_NO2 24hr_SIL | NO2 | ROI/SIA |
| RHGP_NO2 1hr_SIL | NO2 | ROI/SIA |
| RHGP_PM25 Ann_SIL | PM2.5 | ROI/SIA |
| RHGP_PM25 24hr_SIL | PM2.5 | ROI/SIA |
| RHGP_PM10 Ann_SIL | PM10 | ROI/SIA |
| RHGP_PM10 24hr_SIL | PM10 | ROI/SIA |
| RHGP_SO2 Ann_SIL | SO2 | ROI/SIA |
| RHGP_SO2 3hr_24hr_SIL | SO2 | ROI/SIA |
| RHGP_SO2 1hr_SIL | SO2 | ROI/SIA |
| RHGP_CO_CIA | CO | Cumulative – 8hr NAAQs |
| RHGP_H2S_CIA | H2S | Cumulative – 1/2hr NMAAQs |
| RHGP_NO2 Ann_PSD | NO2 | Cumulative – Annual PSD Inc. Class II |
| RHGP_NO2 Ann_CIA | NO2 | Cumulative – Annual NMAAQs |
| RHGP_NO2 1hr_CIA | NO2 | Cumulative – 1hr NAAQs |
| RHGP_PM25 Ann_PSD | PM2.5 | Cumulative – Annual PSD Inc. Class II |
| RHGP_PM25 Ann_CIA | PM2.5 | Cumulative – Annual NAAQs |
| RHGP_PM25 24hr_PSD | PM2.5 | Cumulative – 24hr PSD Inc. Class II |
| RHGP_PM25 24hr_CIA | PM2.5 | Cumulative – 24hr NAAQs |
| RHGP_PM10 Ann_PSD | PM10 | Cumulative – Annual PSD Inc. Class II |
| RHGP_PM10 24hr_PSD | PM10 | Cumulative – 24hr PSD Inc. Class II |
| RHGP_PM10 24hr_CIA | PM10 | Cumulative – 24hr NAAQs |
| RHGP_SO2 Ann_PSD | SO2 | Cumulative – Annual PSD Inc. Class II |
| RHGP_SO2 24hr_PSD | SO2 | Cumulative – 24hr PSD Inc. Class II |
| RHGP_SO2 3hr_PSD | SO2 | Cumulative – 3hr PSD Inc. Class II |
| RHGP_SO2 1hr_CIA | SO2 | Cumulative – 1hr NAAQs |
| RHGP_CC_Class I | Varies | ROI/SIA – Carlsbad PSD Inc. Class I |
| RHGP_GMNP_Class I | Varies | ROI/SIA – Guadalupe PSD Inc. Class I |
| RHGP_SCW_Class I | Varies | ROI/SIA – Salt Creek PSD Inc. Class I |
| RHGP_BBNP_Class I | Varies | ROI/SIA – Big Bend PSD Inc. Class I |
| RHGP_PM25 24hr_PSD_CP | PM2.5 | Culpability Analysis – PM2.5 24hr |
| RHGP_PM10 24hr_PSD_CP | PM10 | Culpability Analysis – PM10 24hr |
| RHGP_PM10 24hr_NAAQs_CP | PM10 | Culpability Analysis – PM10 24hr |
| RHGP_H2S 1hr_CIA_CP | H2S | Culpability Analysis – H2S 1hr |
| | | |

## 16-V: PSD New or Major Modification Applications

| | | | |
|---|---|---|---|
| 1 | A new PSD major source or a major modification to an existing PSD major source requires additional analysis.<br>Was preconstruction monitoring done (see 20.2.74.306 NMAC and PSD Preapplication Guidance on the AQB website)? | Yes☐ | No☒ |
| 2 | If not, did AQB approve an exemption from preconstruction monitoring? | Yes☒ | No☐ |
| 3 | Describe how preconstruction monitoring has been addressed or attach the approved preconstruction monitoring or monitoring exemption. | | |
| | The approved preconstruction monitoring waiver is included in the application, Section 12. Approval was received on 01/27/2026. | | |
| 4 | Describe the additional impacts analysis required at 20.2.74.304 NMAC. | | |
| | Growth Analysis:<br>A growth analysis consists of a projection of the associated industrial, commercial, and residential growth that is likely to occur in the area due to the facility, and an estimate of the emissions generated by that associated growth. Because the facility is an existing source, no new emission units will be constructed and no increase in workforce is planned; therefore, no future growth is anticipated.<br><br>Soils and Vegetation Analysis:<br>Pursuant to the requirements in 40 CFR 52.21(o), an analysis of the impact that could occur to soils and vegetation of significant commercial or recreational value as a result of operating the Red Hills Gas Plant is discussed below.<br><br>The EPA developed the secondary NAAQS in order to protect soil and vegetation air quality-related values that were not sufficiently protected by the primary NAAQS. The secondary NAAQS represent ambient air concentrations below which most types of soils and vegetation are unaffected by criteria pollutants. If predicted ambient air concentrations are found to be less than the secondary NAAQS, it is presumed that emissions from the Red Hills Gas Plant do not result in harmful effects to either soil or vegetation and no further soil or vegetation analysis will be performed.<br><br>Visibility Impairment Analysis:<br>Red Hills Identified the Lea County/Jal Airport-E26 as the nearest sensitive receptor. There are no other state parks or wilderness areas within 50 km. A Level 1 VISCREEN analysis was performed for the project emissions to estimate visual plume impacts at that airport location. The default ozone value (0.04 ppm) was updated to the most recent and most conservative nearby ozone design value in the area (0.08 ppm). Based on that analysis, it was determined that the proposed project will not cause any visible plume impact of concern at the airport. | | |
| 5 | If required, have ozone and secondary PM2.5 ambient impacts analyses been completed? If so describe below. | Yes☐ | No☒ |
| | | | |

## 16-W: Modeling Results

| | | | |
|---|---|---|---|
| 1 | If ambient standards are exceeded because of surrounding sources, a culpability analysis is required for the source to show that the contribution from this source is less than the significance levels for the specific pollutant. Was culpability analysis performed? If so describe below. | Yes☒ | No☐ |
| | A culpability analysis for the source was completed to demonstrate that the source is less than significance levels for PM10 24-hr NAAQs cumulative and PSD 24-hr Class II increment modeling, PM2.5 PSD 24-hr Class II increment modeling, and H2S 1-hr NMAAQs cumulative modeling. The analysis included all modeled receptors that showed NAAQS, NMAAQs or PSD Class II Increment exceedances in the CIA model and pulled postfiles for the total cumulative modeled impact and the Red Hills Gas Plant modeled impact. The culpability analysis showed that for each exceedance of the ambient standards, the Red Hills Gas Plant's contribution was below the $PM_{10,}$ $PM_{2.5}$, and $H_2S$ significance levels. Thus, the Red Hills Gas Plant does not cause or contribute to an exceedance of the NAAQS or PSD Class II Increment. An editable excel file is included with our modeling files as well as relevant postfiles. | | |
| 2 | Identify the maximum concentrations from the modeling analysis. Rows may be modified, added and removed from the table below as necessary. | | |

| Pollutant, Time Period and Standard | Modeled Facility Concentration (µg/m3) | Modeled Concentration with Surrounding Sources (µg/m3) | Secondary PM (µg/m3) | Background Concentration (µg/m3) | Cumulative Concentration (µg/m3) | Value of Standard (µg/m3) | Percent of Standard | Location | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | UTM E (m) | UTM N (m) | Elevation (ft) |
| CO 8-hr SIL | 1085.28 | - | - | - | 1085.28 | 500 | Significant | 638630 | 3565547 | 3594.03 |
| CO 1-hr SIL | 1357.17 | - | - | - | 1357.17 | 2000 | 67.9% | 638630 | 3565547 | 3594.03 |
| $H_2S$ ½-hr SIL | 130.83 | - | - | - | 130.83 | 5 | Significant | 639694 | 3565450 | 3573.49 |
| $NO_2$ Annual SIL | 3.92 | - | - | - | 3.92 | 1 | Significant | 638780 | 3566004 | 3586.12 |
| $NO_2$ 24-hr SIL | 87.72 | - | - | - | 87.72 | 5 | Significant | 636805 | 3568351 | 3615.42 |
| $NO_2$ 1-hr SIL | 130.61 | - | - | - | 130.61 | 7.52 | Significant | 636712 | 3568229 | 3613.98 |
| $PM_{2.5}$ Annual SIL | 0.60 | - | - | - | 0.60 | 0.13 | Significant | 638830 | 3566004 | 3585.86 |
| $PM_{2.5}$ 24-hr SIL | 7.62 | - | - | - | 7.62 | 1.2 | Significant | 638260 | 3565252 | 3587.63 |

| Pollutant, Time Period and Standard | Modeled Facility Concentration (µg/m3) | Modeled Concentration with Surrounding Sources (µg/m3) | Secondary PM (µg/m3) | Background Concentration (µg/m3) | Cumulative Concentration (µg/m3) | Value of Standard (µg/m3) | Percent of Standard | Location | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | UTM E (m) | UTM N (m) | Elevation (ft) |
| $PM_{10}$ Annual SIL | 2.04 | - | - | - | 2.04 | 1 | Significant | 638630 | 3565547 | 3594.03 |
| $PM_{10}$ 24-hr SIL | 57.29 | - | - | - | 57.29 | 5 | Significant | 638766 | 3565273 | 3591.47 |
| $SO_2$ Annual SIL | 7.99 | - | - | - | 7.99 | 1 | Significant | 636711 | 3568379 | 3615.42 |
| $SO_2$ 24-hr SIL | 43.97 | - | - | - | 43.97 | 5 | Significant | 636711 | 3568379 | 3615.42 |
| $SO_2$ 3-hr SIL | 89.13 | - | - | - | 89.13 | 25 | Significant | 636711 | 3568379 | 3615.42 |
| $SO_2$ 1-hr SIL | 113.29 | - | - | - | 113.29 | 7.8 | Significant | 636711 | 3568379 | 3615.42 |
| CO 8-hr NAAQS | 1036.764 | - | - | 1265 | 2301.76 | 10,000 | 23.0% | 638630 | 3565547 | 1095.46 |
| $H_2S$ 1/2-hr NMAAQS | 0.00 | 1267.12 | - | - | 1267.12 | 139.3 | Exceeds Standards - Refer to Culpability Analysis | 631460 | 3558752 | 3476.41 |
| $NO_2$ Annual PSD Class II Increment | 3.92 | 0.00 | - | 9.4 | 13.32 | 25 | 53.3% | 638780 | 3566004 | 3586.12 |
| $NO_2$ Annual NMAAQS | 3.92 | 0.00 | - | 9.4 | 13.32 | 94.02 | 14.2% | 638780 | 3566004 | 3586.12 |
| $NO_2$ 1-hr NAAQS | 125.02 | 0.00 | - | 58.30 | 183.32 | 188.03 | 97.5% | 638630 | 3565523 | 3594.59 |
| $PM_{2.5}$ Annual PSD Class II Increment | 0.00 | 1.86 | 0.00470 | - | 1.87 | 4 | 46.6% | 638160 | 3566152 | 3602.33 |
| $PM_{2.5}$ Annual NAAQS | 0.00 | 2.14 | 0.00470 | 6.6 | 8.74 | 9 | 97.1% | 639660 | 3566552 | 3601.97 |

| Pollutant, Time Period and Standard | Modeled Facility Concentration (µg/m3) | Modeled Concentration with Surrounding Sources (µg/m3) | Secondary PM (µg/m3) | Background Concentration (µg/m3) | Cumulative Concentration (µg/m3) | Value of Standard (µg/m3) | Percent of Standard | Location | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | UTM E (m) | UTM N (m) | Elevation (ft) |
| $PM_{2.5}$ 24-hr PSD Class II Increment | 0.00 | 16.47 | 0.271 | - | 16.47 | 9 | Exceeds Standards - Refer to Culpability Analysis | 638760 | 3566452 | 3597.57 |
| $PM_{2.5}$ 24-hr NAAQS | 0.00 | 12.90 | 0.271 | 20 | 33.17 | 35 | 94.8% | 639560 | 3566452 | 3602.33 |
| $PM_{10}$ Annual PSD Class II Increment | 0.00 | 7.46 | - | - | 7.46 | 17 | 43.9% | 638630 | 3565547 | 1095.46 |
| $PM_{10}$ 24-hr PSD Class II Increment | 0.00 | 269.88 | - | - | 269.88 | 30 | Exceeds Standards - Refer to Culpability Analysis | 637960 | 3563752 | 3579.56 |
| $PM_{10}$ 24-hr NAAQS | 0.00 | 294.52 | - | 124 | 418.52 | 150 | Exceeds Standards - Refer to Culpability Analysis | 638460 | 3563752 | 3574.18 |
| $SO_2$ Annual PSD Class II | 0.00 | 13.12 | - | - | 13.12 | 20 | 65.6% | 643960 | 3562752 | 1061.79 |
| $SO_2$ 24-hr PSD Class II | 0.00 | 77.36 | - | - | 77.36 | 91 | 85.0% | 643960 | 3562752 | 3483.56 |
| $SO_2$ 3-hr PSD Class II | 0.00 | 217.59 | - | - | 217.59 | 512 | 42.5% | 631460 | 3558752 | 3476.41 |
| $SO_2$ 1-hr NAAQS | 0.00 | 184.32 | - | 5.237100796 | 189.55 | 196 | 96.7% | 643960 | 3562752 | 3483.56 |

Class I Increment SIL Evaluation Results

| Scenario | Class I Area | Pollutant | Averaging | 2018 | 2019 | 2020 | Secondary $PM_{2.5}$ | MAX | SIL | <SIL? |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Big Bend | $NO_2$ | Annual | 1.15E-05 | 1.21E-05 | 1.64E-05 | | 1.64E-05 | 1.00E-01 | YES |
| 2 | Big Bend | $NO_2$ | Annual | 1.15E-05 | 1.21E-05 | 1.64E-05 | | 1.64E-05 | 1.00E-01 | YES |
| 3 | Big Bend | $NO_2$ | Annual | 1.15E-05 | 1.21E-05 | 1.64E-05 | | 1.64E-05 | 1.00E-01 | YES |
| 1 | Big Bend | $PM_{10}$ | 24-hr | 7.88E-04 | 5.55E-04 | 8.12E-04 | | 8.12E-04 | 3.00E-01 | YES |
| 2 | Big Bend | $PM_{10}$ | 24-hr | 7.88E-04 | 5.55E-04 | 8.12E-04 | | 8.12E-04 | 3.00E-01 | YES |
| 3 | Big Bend | $PM_{10}$ | 24-hr | 7.88E-04 | 5.55E-04 | 8.12E-04 | | 8.12E-04 | 3.00E-01 | YES |
| 1 | Big Bend | $PM_{10}$ | Annual | 1.92E-05 | 1.54E-05 | 2.04E-05 | | 2.04E-05 | 2.00E-01 | YES |
| 2 | Big Bend | $PM_{10}$ | Annual | 1.92E-05 | 1.54E-05 | 2.04E-05 | | 2.04E-05 | 2.00E-01 | YES |
| 3 | Big Bend | $PM_{10}$ | Annual | 1.92E-05 | 1.54E-05 | 2.04E-05 | | 2.04E-05 | 2.00E-01 | YES |
| 1 | Big Bend | $PM_{2.5}$ | 24-hr | 7.88E-04 | 5.55E-04 | 8.12E-04 | 8.53E-02 | 8.61E-02 | 2.70E-01 | YES |
| 2 | Big Bend | $PM_{2.5}$ | 24-hr | 7.88E-04 | 5.55E-04 | 8.12E-04 | 8.53E-02 | 8.61E-02 | 2.70E-01 | YES |
| 3 | Big Bend | $PM_{2.5}$ | 24-hr | 7.88E-04 | 5.55E-04 | 8.12E-04 | 8.53E-02 | 8.61E-02 | 2.70E-01 | YES |
| 1 | Big Bend | $PM_{2.5}$ | Annual | 1.92E-05 | 1.54E-05 | 2.04E-05 | 1.89E-03 | 1.91E-03 | 5.00E-02 | YES |
| 2 | Big Bend | $PM_{2.5}$ | Annual | 1.92E-05 | 1.54E-05 | 2.04E-05 | 1.89E-03 | 1.91E-03 | 5.00E-02 | YES |
| 3 | Big Bend | $PM_{2.5}$ | Annual | 1.92E-05 | 1.54E-05 | 2.04E-05 | 1.89E-03 | 1.91E-03 | 5.00E-02 | YES |
| 1 | Big Bend | $SO_2$ | 3-hr | 1.03E-01 | 8.63E-02 | 1.21E-01 | | 1.21E-01 | 1.00E+00 | YES |
| 2 | Big Bend | $SO_2$ | 3-hr | 1.06E-01 | 8.78E-02 | 1.28E-01 | | 1.28E-01 | 1.00E+00 | YES |
| 3 | Big Bend | $SO_2$ | 3-hr | 1.00E-01 | 8.83E-02 | 1.27E-01 | | 1.27E-01 | 1.00E+00 | YES |
| 1 | Big Bend | $SO_2$ | 24-hr | 1.87E-02 | 2.10E-02 | 2.35E-02 | | 2.35E-02 | 2.00E-01 | YES |
| 2 | Big Bend | $SO_2$ | 24-hr | 1.87E-02 | 2.12E-02 | 2.31E-02 | | 2.31E-02 | 2.00E-01 | YES |
| 3 | Big Bend | $SO_2$ | 24-hr | 1.85E-02 | 2.11E-02 | 2.33E-02 | | 2.33E-02 | 2.00E-01 | YES |
| 1 | Big Bend | $SO_2$ | Annual | 7.95E-05 | 8.56E-05 | 1.02E-04 | | 1.02E-04 | 1.00E-01 | YES |
| 2 | Big Bend | $SO_2$ | Annual | 7.95E-05 | 8.56E-05 | 1.02E-04 | | 1.02E-04 | 1.00E-01 | YES |
| 3 | Big Bend | $SO_2$ | Annual | 7.95E-05 | 8.56E-05 | 1.02E-04 | | 1.02E-04 | 1.00E-01 | YES |
| 1 | Carlsbad Caverns | $NO_2$ | Annual | 8.00E-04 | 6.03E-04 | 6.69E-04 | | 8.00E-04 | 1.00E-01 | YES |
| 2 | Carlsbad Caverns | $NO_2$ | Annual | 8.03E-04 | 6.04E-04 | 6.70E-04 | | 8.03E-04 | 1.00E-01 | YES |
| 3 | Carlsbad Caverns | $NO_2$ | Annual | 8.01E-04 | 6.03E-04 | 6.69E-04 | | 8.01E-04 | 1.00E-01 | YES |
| 1 | Carlsbad Caverns | $PM_{10}$ | 24-hr | 1.58E-02 | 7.42E-03 | 8.14E-03 | | 1.58E-02 | 3.00E-01 | YES |
| 2 | Carlsbad Caverns | $PM_{10}$ | 24-hr | 1.58E-02 | 7.42E-03 | 8.14E-03 | | 1.58E-02 | 3.00E-01 | YES |
| 3 | Carlsbad Caverns | $PM_{10}$ | 24-hr | 1.58E-02 | 7.42E-03 | 8.14E-03 | | 1.58E-02 | 3.00E-01 | YES |
| 1 | Carlsbad Caverns | $PM_{10}$ | Annual | 4.57E-04 | 2.63E-04 | 3.51E-04 | | 4.57E-04 | 2.00E-01 | YES |

| Scenario | Class I Area | Pollutant | Averaging | 2018 | 2019 | 2020 | Secondary $PM_{2.5}$ | MAX | SIL | <SIL? |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Carlsbad Caverns | $PM_{10}$ | Annual | 4.57E-04 | 2.63E-04 | 3.51E-04 | | 4.57E-04 | 2.00E-01 | YES |
| 3 | Carlsbad Caverns | $PM_{10}$ | Annual | 4.57E-04 | 2.63E-04 | 3.51E-04 | | 4.57E-04 | 2.00E-01 | YES |
| 1 | Carlsbad Caverns | $PM_{2.5}$ | 24-hr | 1.58E-02 | 7.42E-03 | 8.14E-03 | 8.53E-02 | 1.01E-01 | 2.70E-01 | YES |
| 2 | Carlsbad Caverns | $PM_{2.5}$ | 24-hr | 1.58E-02 | 7.42E-03 | 8.14E-03 | 8.53E-02 | 1.01E-01 | 2.70E-01 | YES |
| 3 | Carlsbad Caverns | $PM_{2.5}$ | 24-hr | 1.58E-02 | 7.42E-03 | 8.14E-03 | 8.53E-02 | 1.01E-01 | 2.70E-01 | YES |
| 1 | Carlsbad Caverns | $PM_{2.5}$ | Annual | 4.57E-04 | 2.63E-04 | 3.51E-04 | 1.89E-03 | 2.35E-03 | 3.00E-02 | YES |
| 2 | Carlsbad Caverns | $PM_{2.5}$ | Annual | 4.57E-04 | 2.63E-04 | 3.51E-04 | 1.89E-03 | 2.35E-03 | 3.00E-02 | YES |
| 3 | Carlsbad Caverns | $PM_{2.5}$ | Annual | 4.57E-04 | 2.63E-04 | 3.51E-04 | 1.89E-03 | 2.35E-03 | 3.00E-02 | YES |
| 1 | Carlsbad Caverns | $SO_2$ | 3-hr | 7.87E-01 | 9.63E-01 | 6.55E-01 | | 9.63E-01 | 1.00E+00 | YES |
| 2 | Carlsbad Caverns | $SO_2$ | 3-hr | 8.27E-01 | 9.65E-01 | 6.57E-01 | | 9.65E-01 | 1.00E+00 | YES |
| 3 | Carlsbad Caverns | $SO_2$ | 3-hr | 8.55E-01 | 9.54E-01 | 6.76E-01 | | 9.54E-01 | 1.00E+00 | YES |
| 1 | Carlsbad Caverns | $SO_2$ | 24-hr | 1.95E-01 | 1.84E-01 | 1.02E-01 | | 1.95E-01 | 2.00E-01 | YES |
| 2 | Carlsbad Caverns | $SO_2$ | 24-hr | 1.82E-01 | 1.90E-01 | 1.06E-01 | | 1.90E-01 | 2.00E-01 | YES |
| 3 | Carlsbad Caverns | $SO_2$ | 24-hr | 1.79E-01 | 1.81E-01 | 1.05E-01 | | 1.81E-01 | 2.00E-01 | YES |
| 1 | Carlsbad Caverns | $SO_2$ | Annual | 2.22E-03 | 1.50E-03 | 1.97E-03 | | 2.22E-03 | 1.00E-01 | YES |
| 2 | Carlsbad Caverns | $SO_2$ | Annual | 2.22E-03 | 1.50E-03 | 1.97E-03 | | 2.22E-03 | 1.00E-01 | YES |
| 3 | Carlsbad Caverns | $SO_2$ | Annual | 2.22E-03 | 1.50E-03 | 1.97E-03 | | 2.22E-03 | 1.00E-01 | YES |
| 1 | Guadalupe Mt | $NO_2$ | Annual | 1.98E-04 | 1.68E-04 | 1.24E-04 | | 1.98E-04 | 1.00E-01 | YES |
| 2 | Guadalupe Mt | $NO_2$ | Annual | 1.98E-04 | 1.68E-04 | 1.24E-04 | | 1.98E-04 | 1.00E-01 | YES |
| 3 | Guadalupe Mt | $NO_2$ | Annual | 1.98E-04 | 1.68E-04 | 1.24E-04 | | 1.98E-04 | 1.00E-01 | YES |
| 1 | Guadalupe Mt | $PM_{10}$ | 24-hr | 6.02E-03 | 3.16E-03 | 3.34E-03 | | 6.02E-03 | 3.00E-01 | YES |
| 2 | Guadalupe Mt | $PM_{10}$ | 24-hr | 6.02E-03 | 3.16E-03 | 3.34E-03 | | 6.02E-03 | 3.00E-01 | YES |

| Scenario | Class I Area | Pollutant | Averaging | 2018 | 2019 | 2020 | Secondary $PM_{2.5}$ | MAX | SIL | <SIL? |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | Guadalupe Mt | $PM_{10}$ | 24-hr | 6.02E-03 | 3.16E-03 | 3.34E-03 | | 6.02E-03 | 3.00E-01 | YES |
| 1 | Guadalupe Mt | $PM_{10}$ | Annual | 1.66E-04 | 1.08E-04 | 1.17E-04 | | 1.66E-04 | 2.00E-01 | YES |
| 2 | Guadalupe Mt | $PM_{10}$ | Annual | 1.66E-04 | 1.08E-04 | 1.17E-04 | | 1.66E-04 | 2.00E-01 | YES |
| 3 | Guadalupe Mt | $PM_{10}$ | Annual | 1.66E-04 | 1.08E-04 | 1.17E-04 | | 1.66E-04 | 2.00E-01 | YES |
| 1 | Guadalupe Mt | $PM_{2.5}$ | 24-hr | 6.02E-03 | 3.16E-03 | 3.34E-03 | 8.53E-02 | 9.14E-02 | 2.70E-01 | YES |
| 2 | Guadalupe Mt | $PM_{2.5}$ | 24-hr | 6.02E-03 | 3.16E-03 | 3.34E-03 | 8.53E-02 | 9.14E-02 | 2.70E-01 | YES |
| 3 | Guadalupe Mt | $PM_{2.5}$ | 24-hr | 6.02E-03 | 3.16E-03 | 3.34E-03 | 8.53E-02 | 9.14E-02 | 2.70E-01 | YES |
| 1 | Guadalupe Mt | $PM_{2.5}$ | Annual | 1.66E-04 | 1.08E-04 | 1.17E-04 | 1.89E-03 | 2.06E-03 | 3.00E-02 | YES |
| 2 | Guadalupe Mt | $PM_{2.5}$ | Annual | 1.66E-04 | 1.08E-04 | 1.17E-04 | 1.89E-03 | 2.06E-03 | 3.00E-02 | YES |
| 3 | Guadalupe Mt | $PM_{2.5}$ | Annual | 1.66E-04 | 1.08E-04 | 1.17E-04 | 1.89E-03 | 2.06E-03 | 3.00E-02 | YES |
| 1 | Guadalupe Mt | $SO_2$ | 3-hr | 3.67E-01 | 3.55E-01 | 2.00E-01 | | 3.67E-01 | 1.00E+00 | YES |
| 2 | Guadalupe Mt | $SO_2$ | 3-hr | 3.73E-01 | 4.02E-01 | 2.13E-01 | | 4.02E-01 | 1.00E+00 | YES |
| 3 | Guadalupe Mt | $SO_2$ | 3-hr | 3.71E-01 | 4.22E-01 | 2.26E-01 | | 4.22E-01 | 1.00E+00 | YES |
| 1 | Guadalupe Mt | $SO_2$ | 24-hr | 6.08E-02 | 7.95E-02 | 1.02E-01 | | 1.02E-01 | 2.00E-01 | YES |
| 2 | Guadalupe Mt | $SO_2$ | 24-hr | 5.87E-02 | 9.46E-02 | 9.79E-02 | | 9.79E-02 | 2.00E-01 | YES |
| 3 | Guadalupe Mt | $SO_2$ | 24-hr | 5.50E-02 | 9.85E-02 | 9.48E-02 | | 9.85E-02 | 2.00E-01 | YES |
| 1 | Guadalupe Mt | $SO_2$ | Annual | 7.43E-04 | 6.14E-04 | 6.41E-04 | | 7.43E-04 | 1.00E-01 | YES |
| 2 | Guadalupe Mt | $SO_2$ | Annual | 7.43E-04 | 6.14E-04 | 6.41E-04 | | 7.43E-04 | 1.00E-01 | YES |
| 3 | Guadalupe Mt | $SO_2$ | Annual | 7.43E-04 | 6.14E-04 | 6.41E-04 | | 7.43E-04 | 1.00E-01 | YES |
| 1 | Salt Creek | $NO_2$ | Annual | 6.27E-04 | 5.64E-04 | 6.56E-04 | | 6.56E-04 | 1.00E-01 | YES |
| 2 | Salt Creek | $NO_2$ | Annual | 6.27E-04 | 5.64E-04 | 6.57E-04 | | 6.57E-04 | 1.00E-01 | YES |
| 3 | Salt Creek | $NO_2$ | Annual | 6.26E-04 | 5.64E-04 | 6.56E-04 | | 6.56E-04 | 1.00E-01 | YES |
| 1 | Salt Creek | $PM_{10}$ | 24-hr | 3.66E-03 | 4.02E-03 | 5.86E-03 | | 5.86E-03 | 3.00E-01 | YES |
| 2 | Salt Creek | $PM_{10}$ | 24-hr | 3.66E-03 | 4.02E-03 | 5.86E-03 | | 5.86E-03 | 3.00E-01 | YES |
| 3 | Salt Creek | $PM_{10}$ | 24-hr | 3.66E-03 | 4.02E-03 | 5.86E-03 | | 5.86E-03 | 3.00E-01 | YES |
| 1 | Salt Creek | $PM_{10}$ | Annual | 3.83E-04 | 3.07E-04 | 3.21E-04 | | 3.83E-04 | 2.00E-01 | YES |
| 2 | Salt Creek | $PM_{10}$ | Annual | 3.83E-04 | 3.07E-04 | 3.21E-04 | | 3.83E-04 | 2.00E-01 | YES |
| 3 | Salt Creek | $PM_{10}$ | Annual | 3.83E-04 | 3.07E-04 | 3.21E-04 | | 3.83E-04 | 2.00E-01 | YES |
| 1 | Salt Creek | $PM_{2.5}$ | 24-hr | 3.66E-03 | 4.02E-03 | 5.86E-03 | 8.53E-02 | 9.12E-02 | 2.70E-01 | YES |
| 2 | Salt Creek | $PM_{2.5}$ | 24-hr | 3.66E-03 | 4.02E-03 | 5.86E-03 | 8.53E-02 | 9.12E-02 | 2.70E-01 | YES |
| 3 | Salt Creek | $PM_{2.5}$ | 24-hr | 3.66E-03 | 4.02E-03 | 5.86E-03 | 8.53E-02 | 9.12E-02 | 2.70E-01 | YES |
| 1 | Salt Creek | $PM_{2.5}$ | Annual | 3.83E-04 | 3.07E-04 | 3.21E-04 | 1.89E-03 | 2.28E-03 | 3.00E-02 | YES |
| 2 | Salt Creek | $PM_{2.5}$ | Annual | 3.83E-04 | 3.07E-04 | 3.21E-04 | 1.89E-03 | 2.28E-03 | 3.00E-02 | YES |
| 3 | Salt Creek | $PM_{2.5}$ | Annual | 3.83E-04 | 3.07E-04 | 3.21E-04 | 1.89E-03 | 2.28E-03 | 3.00E-02 | YES |
| 1 | Salt Creek | $SO_2$ | 3-hr | 3.75E-01 | 5.04E-01 | 2.22E-01 | | 5.04E-01 | 1.00E+00 | YES |
| 2 | Salt Creek | $SO_2$ | 3-hr | 3.27E-01 | 4.98E-01 | 2.20E-01 | | 4.98E-01 | 1.00E+00 | YES |
| 3 | Salt Creek | $SO_2$ | 3-hr | 3.20E-01 | 4.87E-01 | 2.22E-01 | | 4.87E-01 | 1.00E+00 | YES |
| 1 | Salt Creek | $SO_2$ | 24-hr | 1.04E-01 | 1.27E-01 | 1.08E-01 | | 1.27E-01 | 2.00E-01 | YES |

| Scenario | Class I Area | Pollutant | Averaging | 2018 | 2019 | 2020 | Secondary $PM_{2.5}$ | MAX | SIL | <SIL? |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Salt Creek | $SO_2$ | 24-hr | 9.76E-02 | 1.22E-01 | 1.04E-01 | | 1.22E-01 | 2.00E-01 | YES |
| 3 | Salt Creek | $SO_2$ | 24-hr | 9.57E-02 | 1.20E-01 | 1.01E-01 | | 1.20E-01 | 2.00E-01 | YES |
| 1 | Salt Creek | $SO_2$ | Annual | 1.92E-03 | 1.74E-03 | 1.94E-03 | | 1.94E-03 | 1.00E-01 | YES |
| 2 | Salt Creek | $SO_2$ | Annual | 1.92E-03 | 1.74E-03 | 1.94E-03 | | 1.94E-03 | 1.00E-01 | YES |
| 3 | Salt Creek | $SO_2$ | Annual | 1.92E-03 | 1.74E-03 | 1.94E-03 | | 1.94E-03 | 1.00E-01 | YES |
| 1 | White Mountain | $NO_2$ | Annual | 2.50E-05 | 2.87E-05 | 2.18E-05 | | 2.87E-05 | 1.00E-01 | YES |
| 2 | White Mountain | $NO_2$ | Annual | 2.50E-05 | 2.87E-05 | 2.17E-05 | | 2.87E-05 | 1.00E-01 | YES |
| 3 | White Mountain | $NO_2$ | Annual | 2.50E-05 | 2.87E-05 | 2.18E-05 | | 2.87E-05 | 1.00E-01 | YES |
| 1 | White Mountain | $PM_{10}$ | 24-hr | 2.47E-03 | 8.47E-04 | 8.16E-04 | | 2.47E-03 | 1.00E-01 | YES |
| 2 | White Mountain | $PM_{10}$ | 24-hr | 2.47E-03 | 8.47E-04 | 8.16E-04 | | 2.47E-03 | 3.00E-01 | YES |
| 3 | White Mountain | $PM_{10}$ | 24-hr | 2.47E-03 | 8.47E-04 | 8.16E-04 | | 2.47E-03 | 3.00E-01 | YES |
| 1 | White Mountain | $PM_{10}$ | Annual | 5.33E-05 | 3.32E-05 | 2.90E-05 | | 5.33E-05 | 3.00E-01 | YES |
| 2 | White Mountain | $PM_{10}$ | Annual | 5.33E-05 | 3.32E-05 | 2.90E-05 | | 5.33E-05 | 2.00E-01 | YES |
| 3 | White Mountain | $PM_{10}$ | Annual | 5.33E-05 | 3.32E-05 | 2.90E-05 | | 5.33E-05 | 2.00E-01 | YES |
| 1 | White Mountain | $PM_{2.5}$ | 24-hr | 2.47E-03 | 8.47E-04 | 8.16E-04 | 8.53E-02 | 8.62E-02 | 2.00E-01 | YES |
| 2 | White Mountain | $PM_{2.5}$ | 24-hr | 2.47E-03 | 8.47E-04 | 8.16E-04 | 8.53E-02 | 8.62E-02 | 2.70E-01 | YES |
| 3 | White Mountain | $PM_{2.5}$ | 24-hr | 2.47E-03 | 8.47E-04 | 8.16E-04 | 8.53E-02 | 8.62E-02 | 2.70E-01 | YES |
| 1 | White Mountain | $PM_{2.5}$ | Annual | 5.33E-05 | 3.32E-05 | 2.90E-05 | 1.89E-03 | 1.95E-03 | 2.70E-01 | YES |
| 2 | White Mountain | $PM_{2.5}$ | Annual | 5.33E-05 | 3.32E-05 | 2.90E-05 | 1.89E-03 | 1.95E-03 | 3.00E-02 | YES |
| 3 | White Mountain | $PM_{2.5}$ | Annual | 5.33E-05 | 3.32E-05 | 2.90E-05 | 1.89E-03 | 1.95E-03 | 3.00E-02 | YES |
| 1 | White Mountain | $SO_2$ | 3-hr | 1.55E-01 | 6.29E-02 | 1.37E-01 | | 1.55E-01 | 3.00E-02 | YES |
| 2 | White Mountain | $SO_2$ | 3-hr | 1.59E-01 | 6.65E-02 | 1.33E-01 | | 1.59E-01 | 1.00E+00 | YES |

| Scenario | Class I Area | Pollutant | Averaging | 2018 | 2019 | 2020 | Secondary $PM_{2.5}$ | MAX | SIL | <SIL? |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | White Mountain | $SO_2$ | 3-hr | 1.59E-01 | 6.42E-02 | 1.28E-01 | | 1.59E-01 | 1.00E+00 | YES |
| 1 | White Mountain | $SO_2$ | 24-hr | 2.98E-02 | 2.05E-02 | 1.94E-02 | | 2.98E-02 | 1.00E+00 | YES |
| 2 | White Mountain | $SO_2$ | 24-hr | 2.79E-02 | 2.01E-02 | 2.04E-02 | | 2.79E-02 | 2.00E-01 | YES |
| 3 | White Mountain | $SO_2$ | 24-hr | 2.72E-02 | 1.97E-02 | 1.77E-02 | | 2.72E-02 | 2.00E-01 | YES |
| 1 | White Mountain | $SO_2$ | Annual | 1.87E-04 | 1.53E-04 | 1.43E-04 | | 1.87E-04 | 2.00E-01 | YES |
| 2 | White Mountain | $SO_2$ | Annual | 1.87E-04 | 1.53E-04 | 1.43E-04 | | 1.87E-04 | 1.00E-01 | YES |
| 3 | White Mountain | $SO_2$ | Annual | 1.87E-04 | 1.53E-04 | 1.43E-04 | | 1.87E-04 | 1.00E-01 | YES |

Class I Haze Evaluation Results

| Scenario | Class I Area | Year | Maximum Delta DV | 98%tile change in DV | # Days >0.5 | #Days>1 | Threshold | Below Threshold ? |
|---|---|---|---|---|---|---|---|---|
| 1 | Big Bend | 2018 | 0.07 | 0.03 | 0 | 0 | 0.5 | Yes |
| 2 | Big Bend | 2018 | 0.072 | 0.03 | 0 | 0 | 0.5 | Yes |
| 3 | Big Bend | 2018 | 0.071 | 0.031 | 0 | 0 | 0.5 | Yes |
| 1 | Big Bend | 2019 | 0.092 | 0.041 | 0 | 0 | 0.5 | Yes |
| 2 | Big Bend | 2019 | 0.093 | 0.04 | 0 | 0 | 0.5 | Yes |
| 3 | Big Bend | 2019 | 0.093 | 0.04 | 0 | 0 | 0.5 | Yes |
| 1 | Big Bend | 2020 | 0.092 | 0.032 | 0 | 0 | 0.5 | Yes |
| 2 | Big Bend | 2020 | 0.092 | 0.032 | 0 | 0 | 0.5 | Yes |
| 3 | Big Bend | 2020 | 0.092 | 0.032 | 0 | 0 | 0.5 | Yes |
| 1 | Carlsbad Caverns | 2018 | 1.079 | 0.243 | 1 | 1 | 0.5 | Yes |
| 2 | Carlsbad Caverns | 2018 | 1.074 | 0.243 | 1 | 1 | 0.5 | Yes |
| 3 | Carlsbad Caverns | 2018 | 1.076 | 0.243 | 1 | 1 | 0.5 | Yes |
| 1 | Carlsbad Caverns | 2019 | 0.83 | 0.216 | 2 | 0 | 0.5 | Yes |

| Scenario | Class I Area | Year | Maximum Delta DV | 98%tile change in DV | # Days >0.5 | #Days>1 | Threshold | Below Threshold ? |
|---|---|---|---|---|---|---|---|---|
| 2 | Carlsbad Caverns | 2019 | 0.826 | 0.215 | 2 | 0 | 0.5 | Yes |
| 3 | Carlsbad Caverns | 2019 | 0.828 | 0.215 | 2 | 0 | 0.5 | Yes |
| 1 | Carlsbad Caverns | 2020 | 0.221 | 0.147 | 0 | 0 | 0.5 | Yes |
| 2 | Carlsbad Caverns | 2020 | 0.224 | 0.145 | 0 | 0 | 0.5 | Yes |
| 3 | Carlsbad Caverns | 2020 | 0.226 | 0.144 | 0 | 0 | 0.5 | Yes |
| 1 | Guadalupe Mt. | 2018 | 0.634 | 0.166 | 1 | 0 | 0.5 | Yes |
| 2 | Guadalupe Mt. | 2018 | 0.631 | 0.162 | 1 | 0 | 0.5 | Yes |
| 3 | Guadalupe Mt. | 2018 | 0.632 | 0.16 | 1 | 0 | 0.5 | Yes |
| 1 | Guadalupe Mt. | 2019 | 0.84 | 0.128 | 1 | 0 | 0.5 | Yes |
| 2 | Guadalupe Mt. | 2019 | 0.835 | 0.13 | 1 | 0 | 0.5 | Yes |
| 3 | Guadalupe Mt. | 2019 | 0.836 | 0.131 | 1 | 0 | 0.5 | Yes |
| 1 | Guadalupe Mt. | 2020 | 0.345 | 0.122 | 0 | 0 | 0.5 | Yes |
| 2 | Guadalupe Mt. | 2020 | 0.345 | 0.122 | 0 | 0 | 0.5 | Yes |
| 3 | Guadalupe Mt. | 2020 | 0.345 | 0.122 | 0 | 0 | 0.5 | Yes |
| 1 | Salt Creek | 2018 | 0.368 | 0.117 | 0 | 0 | 0.5 | Yes |
| 2 | Salt Creek | 2018 | 0.37 | 0.113 | 0 | 0 | 0.5 | Yes |
| 3 | Salt Creek | 2018 | 0.371 | 0.114 | 0 | 0 | 0.5 | Yes |
| 1 | Salt Creek | 2019 | 0.261 | 0.124 | 0 | 0 | 0.5 | Yes |
| 2 | Salt Creek | 2019 | 0.26 | 0.109 | 0 | 0 | 0.5 | Yes |
| 3 | Salt Creek | 2019 | 0.259 | 0.107 | 0 | 0 | 0.5 | Yes |
| 1 | Salt Creek | 2020 | 0.271 | 0.11 | 0 | 0 | 0.5 | Yes |
| 2 | Salt Creek | 2020 | 0.264 | 0.109 | 0 | 0 | 0.5 | Yes |
| 3 | Salt Creek | 2020 | 0.264 | 0.109 | 0 | 0 | 0.5 | Yes |
| 1 | White Mountain | 2018 | 0.249 | 0.061 | 0 | 0 | 0.5 | Yes |
| 2 | White Mountain | 2018 | 0.246 | 0.061 | 0 | 0 | 0.5 | Yes |
| 3 | White Mountain | 2018 | 0.246 | 0.061 | 0 | 0 | 0.5 | Yes |
| 1 | White Mountain | 2019 | 0.122 | 0.037 | 0 | 0 | 0.5 | Yes |
| 2 | White Mountain | 2019 | 0.122 | 0.036 | 0 | 0 | 0.5 | Yes |

| Scenario | Class I Area | Year | Maximum Delta DV | 98%tile change in DV | # Days >0.5 | #Days>1 | Threshold | Below Threshold ? |
|---|---|---|---|---|---|---|---|---|
| 3 | White Mountain | 2019 | 0.122 | 0.036 | 0 | 0 | 0.5 | Yes |
| 1 | White Mountain | 2020 | 0.114 | 0.046 | 0 | 0 | 0.5 | Yes |
| 2 | White Mountain | 2020 | 0.113 | 0.046 | 0 | 0 | 0.5 | Yes |
| 3 | White Mountain | 2020 | 0.113 | 0.046 | 0 | 0 | 0.5 | Yes |

Class I Deposition Evaluation Results

| Scenario | Class I Area | Year | N (kg/ha/yr | S (kg/ha/yr) | Threshold (kg/ha/yr) | Below Threshold? |
|---|---|---|---|---|---|---|
| 1 | Big Bend | 2018 | 1.01E-05 | 4.53E-05 | 0.005 | YES |
| 2 | Big Bend | 2018 | 1.01E-05 | 4.53E-05 | 0.005 | YES |
| 3 | Big Bend | 2018 | 1.01E-05 | 4.53E-05 | 0.005 | YES |
| 1 | Big Bend | 2019 | 9.96E-06 | 2.92E-05 | 0.005 | YES |
| 2 | Big Bend | 2019 | 9.97E-06 | 2.92E-05 | 0.005 | YES |
| 3 | Big Bend | 2019 | 9.97E-06 | 2.92E-05 | 0.005 | YES |
| 1 | Big Bend | 2020 | 1.15E-05 | 3.13E-05 | 0.005 | YES |
| 2 | Big Bend | 2020 | 1.15E-05 | 3.13E-05 | 0.005 | YES |
| 3 | Big Bend | 2020 | 1.15E-05 | 3.13E-05 | 0.005 | YES |
| 1 | Carlsbad Caverns | 2018 | 5.56E-04 | 1.99E-03 | 0.005 | YES |
| 2 | Carlsbad Caverns | 2018 | 5.57E-04 | 1.99E-03 | 0.005 | YES |
| 3 | Carlsbad Caverns | 2018 | 5.56E-04 | 1.99E-03 | 0.005 | YES |
| 1 | Carlsbad Caverns | 2019 | 1.39E-04 | 4.76E-04 | 0.005 | YES |
| 2 | Carlsbad Caverns | 2019 | 1.39E-04 | 4.76E-04 | 0.005 | YES |
| 3 | Carlsbad Caverns | 2019 | 1.39E-04 | 4.76E-04 | 0.005 | YES |
| 1 | Carlsbad Caverns | 2020 | 2.00E-04 | 6.91E-04 | 0.005 | YES |

| Scenario | Class I Area | Year | N (kg/ha/yr | S (kg/ha/yr) | Threshold (kg/ha/yr) | Below Threshold? |
|---|---|---|---|---|---|---|
| 2 | Carlsbad Caverns | 2020 | 2.00E-04 | 6.91E-04 | 0.005 | YES |
| 3 | Carlsbad Caverns | 2020 | 2.00E-04 | 6.91E-04 | 0.005 | YES |
| 1 | Guadalupe Mt. | 2018 | 3.35E-04 | 1.08E-03 | 0.005 | YES |
| 2 | Guadalupe Mt. | 2018 | 3.36E-04 | 1.08E-03 | 0.005 | YES |
| 3 | Guadalupe Mt. | 2018 | 3.35E-04 | 1.08E-03 | 0.005 | YES |
| 1 | Guadalupe Mt. | 2019 | 1.31E-04 | 4.39E-04 | 0.005 | YES |
| 2 | Guadalupe Mt. | 2019 | 1.31E-04 | 4.39E-04 | 0.005 | YES |
| 3 | Guadalupe Mt. | 2019 | 1.31E-04 | 4.39E-04 | 0.005 | YES |
| 1 | Guadalupe Mt. | 2020 | 1.17E-04 | 3.75E-04 | 0.005 | YES |
| 2 | Guadalupe Mt. | 2020 | 1.17E-04 | 3.75E-04 | 0.005 | YES |
| 3 | Guadalupe Mt. | 2020 | 1.17E-04 | 3.75E-04 | 0.005 | YES |
| 1 | Salt Creek | 2018 | 3.64E-04 | 1.60E-03 | 0.005 | YES |
| 2 | Salt Creek | 2018 | 3.64E-04 | 1.60E-03 | 0.005 | YES |
| 3 | Salt Creek | 2018 | 3.64E-04 | 1.60E-03 | 0.005 | YES |
| 1 | Salt Creek | 2019 | 3.77E-04 | 1.40E-03 | 0.005 | YES |
| 2 | Salt Creek | 2019 | 3.77E-04 | 1.40E-03 | 0.005 | YES |
| 3 | Salt Creek | 2019 | 3.76E-04 | 1.40E-03 | 0.005 | YES |
| 1 | Salt Creek | 2020 | 1.95E-04 | 6.13E-04 | 0.005 | YES |
| 2 | Salt Creek | 2020 | 1.95E-04 | 6.13E-04 | 0.005 | YES |
| 3 | Salt Creek | 2020 | 1.95E-04 | 6.13E-04 | 0.005 | YES |
| 1 | White Mountain | 2018 | 1.70E-04 | 4.46E-04 | 0.005 | YES |
| 2 | White Mountain | 2018 | 1.70E-04 | 4.46E-04 | 0.005 | YES |
| 3 | White Mountain | 2018 | 1.70E-04 | 4.46E-04 | 0.005 | YES |
| 1 | White Mountain | 2019 | 7.07E-05 | 1.76E-04 | 0.005 | YES |
| 2 | White Mountain | 2019 | 7.08E-05 | 1.76E-04 | 0.005 | YES |
| 3 | White Mountain | 2019 | 7.08E-05 | 1.76E-04 | 0.005 | YES |
| 1 | White Mountain | 2020 | 3.61E-05 | 8.92E-05 | 0.005 | YES |
| 2 | White Mountain | 2020 | 3.61E-05 | 8.92E-05 | 0.005 | YES |

| Scenario | Class I Area | Year | N (kg/ha/yr | S (kg/ha/yr) | Threshold (kg/ha/yr) | Below Threshold? |
|---|---|---|---|---|---|---|
| 3 | White Mountain | 2020 | 3.61E-05 | 8.92E-05 | 0.005 | YES |

| 16-X: Summary/conclusions | |
|---|---|
| 1 | A statement that modeling requirements have been satisfied and that the permit can be issued. |
| | Targa has demonstrated that the proposed changes to NSR Permit 4310M6 would neither cause nor contribute to an exceedance of any applicable standards for CO, $H_2S$, $NO_2$, $PM_{2.5}$, $PM_{10}$, and $SO_2$. |

# APPENDIX Q. Q/D CALCULATIONS

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## Q/D Maximum Daily Emissions Summary - Scenario 1

| Facility-Wide Controlled Emissions | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit Type** | **Unit ID** | **Equipment Description** | **Activity** | **$NO_X$** | **$SO_2$** | **$PM_{10}$[2]** | **Maximum Daily Operating Hours** | **NOx** | **SO2** | **PM10** | **NOx** | **SO2** | **PM10** | **Notes** |
| | | | | **lb/hr** | **lb/hr** | **lb/hr** | **hrs/day** | **lb/day** | **lb/day** | **lb/day** | **lb/day** | **lb/day** | **lb/day** | |
| Heaters and Reboilers | RH1-H-23-704 | HOT OIL HEATER | Routine | 0.75 | 0.03 | 0.19 | 24 | 18.10 | 0.70 | 4.49 | 18.10 | 0.70 | 4.49 | Units are always operating in a steady state scenario. |
| | RH1-H-1101 | RH5-AMINE | Routine | 0.40 | 0.02 | 0.10 | 24 | 9.49 | 0.37 | 2.35 | 9.49 | 0.37 | 2.35 | |
| | RH4-H-41100 | LIQUIDS IN-LINE HEATER | Routine | 0.88 | <0.01 | 0.06 | 24 | 21.16 | 0.22 | 1.39 | 21.16 | 0.22 | 1.39 | |
| | RH2-H-741 | REGEN GAS HEATER | Routine | 0.94 | <0.01 | 0.07 | 24 | 22.59 | 0.16 | 1.61 | 22.59 | 0.16 | 1.61 | |
| | RH2-H-781 | CRYO HOT OIL HEATER | Routine | 0.23 | <0.01 | 0.09 | 24 | 5.62 | 0.22 | 2.22 | 5.62 | 0.22 | 2.22 | |
| | RH2-H-2301 | TEG REBOILER | Routine | 0.39 | <0.01 | 0.02 | 24 | 9.41 | 0.07 | 0.42 | 9.41 | 0.07 | 0.42 | |
| | RH2-H-0901 | AMINE HOT OIL HEATER | Routine | 1.33 | 0.05 | 0.33 | 24 | 31.93 | 1.23 | 7.92 | 31.93 | 1.23 | 7.92 | |
| | RH2-H-1001 | AMINE HOT OIL HEATER | Routine | 1.33 | 0.05 | 0.33 | 24 | 31.93 | 1.23 | 7.92 | 31.93 | 1.23 | 7.92 | |
| | RHA-H-4901 | AMINE HOT OIL HEATER | Routine | 0.64 | 0.02 | 0.15 | 24 | 15.29 | 0.56 | 3.58 | 15.29 | 0.56 | 3.58 | |
| | RH3-H-741 | REGEN GAS HEATER | Routine | 0.49 | <0.01 | 0.04 | 24 | 11.70 | 0.15 | 0.97 | 11.70 | 0.15 | 0.97 | |
| | RH3-H-781 | CRYO HOT OIL HEATER | Routine | 0.40 | 0.01 | 0.09 | 24 | 9.69 | 0.33 | 2.09 | 9.69 | 0.33 | 2.09 | |
| | RH3-H-6301 | TEG REBOILER | Routine | 0.39 | <0.01 | 0.02 | 24 | 9.41 | 0.07 | 0.42 | 9.41 | 0.07 | 0.42 | |
| | RH4-H-741 | REGEN GAS HEATER | Routine | 0.49 | <0.01 | 0.04 | 24 | 11.70 | 0.15 | 0.97 | 11.70 | 0.15 | 0.97 | |
| | RH4-H-781 | CRYO HOT OIL HEATER | Routine | 0.45 | 0.02 | 0.10 | 24 | 10.92 | 0.37 | 2.35 | 10.92 | 0.37 | 2.35 | |
| | RH4-H-3901 | AMINE HOT OIL HEATER | Routine | 1.54 | 0.05 | 0.34 | 24 | 36.89 | 1.26 | 8.10 | 36.89 | 1.26 | 8.10 | |
| | RH4-H-5301 | TEG REBOILER | Routine | 0.39 | <0.01 | 0.02 | 24 | 9.41 | 0.07 | 0.42 | 9.41 | 0.07 | 0.42 | |
| | RH4-H-4001 | AMINE HOT OIL HEATER | Routine | 1.54 | 0.05 | 0.34 | 24 | 36.89 | 1.26 | 8.10 | 36.89 | 1.26 | 8.10 | |
| | RH5-H-50902 | AMINE/TEG HOT OIL HEATER | Routine | 1.80 | 0.06 | 0.40 | 24 | 43.20 | 1.48 | 9.50 | 43.20 | 1.48 | 9.50 | |
| | RH5-H-50001 | AMINE/TEG HOT OIL HEATER | Routine | 1.80 | 0.06 | 0.40 | 24 | 43.20 | 1.48 | 9.50 | 43.20 | 1.48 | 9.50 | |
| | RH5-H-50741 | REGEN GAS HEATER | Routine | 0.48 | <0.01 | 0.04 | 24 | 11.55 | 0.15 | 0.96 | 11.55 | 0.15 | 0.96 | |
| | RH5-H-50781 | CRYO HOT OIL HEATER | Routine | 0.69 | 0.02 | 0.15 | 24 | 16.64 | 0.56 | 3.59 | 16.64 | 0.56 | 3.59 | |
| | RH6-H-60001 | STABILIZER HOT OIL HEATER | Routine | 1.88 | 0.06 | 0.40 | 24 | 45.12 | 1.48 | 9.50 | 45.12 | 1.48 | 9.50 | |
| | RH6-H-60741 | REGEN GAS HEATER | Routine | 0.48 | <0.01 | 0.04 | 24 | 11.58 | 0.15 | 0.96 | 11.58 | 0.15 | 0.96 | |
| | RH6-H-60781 | CRYO HOT OIL HEATER | Routine | 0.69 | 0.02 | 0.15 | 24 | 16.57 | 0.56 | 3.57 | 16.57 | 0.56 | 3.57 | |
| | RA2-H-20001 | HOT OIL HEATER | Routine | 1.88 | 0.06 | 0.39 | 24 | 45.12 | 1.47 | 9.42 | 45.12 | 1.47 | 9.42 | |
| Generators | RH-GEN-1 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | Although units are permitted for a limited number of annual operating hours, the duration of their usage in a given day is not predictable. It was conservatively assumed that these units can operate continuously over a 24 hour period. |
| | RH-GEN-2 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-3 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-4 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-5 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-6 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-7 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-8 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-9 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-10 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-TRAILER | DIESEL FIRED HEATER TRAILER | Cold Weather Startup | 0.30 | 0.59 | 0.023 | 4 | 1.22 | 2.38 | 0.09 | 1.22 | 2.38 | 0.09 | Unit is used for cold weather startup, it was assumed 4 hrs of runtime a day. |
| | RH-GEN-WELL | DIESEL FIRED GENERATOR, WATER WELL | Monthy Well Testing | 0.63 | 0.081 | 0.087 | 2 | 1.26 | 0.16 | 0.17 | 1.26 | 0.16 | 0.17 | Unit is used once per month to run a pump for water well testing. It is assumed this activity lasts only 2 hours. |
| Thermal Oxidizers | RH2-TO-5500 | THERMAL OXIDIZER | Pilot/Fuel | 0.10 | 0.048 | 0.56 | 24 | 2.39 | 1.14 | 13.33 | 2.39 | 1.14 | 13.33 | Pilot / fuel is always operating in a steady state scenario. |
| | | | Process | 1.32 | 19.31 | 0.12 | 24 | 31.66 | 463.51 | 2.77 | 31.66 | 463.51 | 2.77 | Process emissions are always emitted in a steady state scenario. |
| | | | SSM | 1.71 | 1.54 | 0.09 | 4 | 6.82 | 6.18 | 0.37 | 6.82 | 6.18 | 0.37 | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Facility startup emissions were most significant and the event duration of 4 hours was conservatively assumed. |
| | RH4-TO-45500 | THERMAL OXIDIZER | Pilot/Fuel | 0.10 | 0.045 | 0.53 | 24 | 2.50 | 1.09 | 12.70 | 2.50 | 1.09 | 12.70 | Pilot / fuel is always operating in a steady state scenario. |
| | | | Process | 1.15 | 14.03 | 0.07 | 24 | 27.50 | 336.70 | 1.61 | 27.50 | 336.70 | 1.61 | Process emissions are always emitted in a steady state scenario. |
| | | | SSM | 0.16 | 1.55 | <0.011 | 4 | 0.62 | 6.21 | 0.034 | 0.62 | 6.21 | 0.034 | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Facility startup emissions were most significant and the event duration of 4 hours was conservatively assumed. |
| | RH5-TO-55500 | THERMAL OXIDIZER | Pilot/Fuel | 0.083 | 0.036 | 0.42 | 24 | 2.00 | 0.87 | 10.15 | 2.00 | 0.87 | 10.15 | Pilot / fuel is always operating in a steady state scenario. |
| | | | Process | 1.16 | 14.11 | 0.14 | 24 | 27.76 | 338.72 | 3.26 | 27.76 | 338.72 | 3.26 | Process emissions are always emitted in a steady state scenario. |
| | | | SSM | 0.16 | 1.59 | <0.011 | 4 | 0.64 | 6.36 | 0.034 | 0.64 | 6.36 | 0.034 | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Facility startup emissions were most significant and the event duration of 4 hours was conservatively assumed. |
| | RH1-FL-29-1003 | FLARE | Pilot | 0.04 | <0.01 | - | 24 | 1.01 | <0.01 | - | 1.01 | <0.01 | - | Pilot, purge, and dehy still vent gas are always operating in a steady state scenario. |
| | | | Purge | 0.29 | <0.01 | - | 24 | 6.91 | 0.03 | - | 6.91 | 0.03 | - | |
| | | | Dehy Still Vent Gas | 0.23 | 0.15 | - | 24 | 5.60 | 3.55 | - | 5.60 | 3.55 | - | |
| | | | SSM | 211.12 | 1.88 | - | 12 | 2533.42 | 22.50 | - | 2533.42 | 22.50 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Residue Gas Flaring emissions were most significant and the event duration of 1 hour was conservatively assumed. There are 12 events permitted and it was assumed all events happen in a single day. |
| | | | AOS SSM | 0.64 | <0.01 | - | 24 | 15.42 | 0.19 | - | - | - | - | It was conservatively assumed that an AOS SSM event would last 24 hours. |
| | RH2-FL-5100 | FLARE | Pilot | <0.01 | <0.01 | - | 24 | 0.22 | <0.01 | - | 0.22 | <0.01 | - | Pilot and purge are always operating in a steady state scenario. |
| | | | Purge | 0.36 | <0.01 | - | 24 | 8.64 | 0.04 | - | 8.64 | 0.04 | - | |
| | | | SSM | 562.98 | 5.00 | - | 12 | 6755.77 | 60.00 | - | 6755.77 | 60.00 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Residue Gas Flaring emissions were most significant. There are no durations or number of events permitted for residue gas flaring, but all permitted emissions would be depleted after 12 hours of operating at the maximum hourly rate. Therefore, 12 hours were conservatively assumed for this event. |
| | | | AOS SSM | 3.64 | 0.05 | - | 24 | 87.29 | 1.19 | - | - | - | - | It was conservatively assumed that AOS SSM and Dehy AOS SSM events would last 24 hours. SSM, AOS SSM, and Dehy AOS SSM are not flared simultaneiously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used. |
| | | | Dehy AOS SSM | 1.11 | - | - | 24 | 26.57 | - | - | - | - | - | |
| | | | Pilot | <0.01 | <0.01 | - | 24 | 0.22 | <0.01 | - | 0.22 | <0.01 | - | Pilot and purge are always operating in a steady state scenario. |
| | | | Purge | 0.36 | <0.01 | - | 24 | 8.64 | 0.04 | - | 8.64 | 0.04 | - | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flares | RH3-FL-5100 | FLARE | SSM | 562.98 | 5.00 | - | 12 | 6755.77 | 60.00 | - | 6755.77 | 60.00 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Residue Gas Flaring emissions were most significant. There are no durations or number of events permitted for residue gas flaring, but all permitted emissions would be depleted after 12 hours of operating at the maximum hourly rate. Therefore, 12 hours were conservatively assumed for this event. |
| | | | Dehy AOS SSM | - | - | - | 24 | - | - | - | - | - | - | It was conservatively assumed that Dehy AOS SSM events would last 24 hours. SSM and Dehy AOS SSM are not flared simultaneiously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used. |
| | RH4-FL-45100 | FLARE | Pilot | <0.01 | <0.01 | - | 24 | 0.22 | <0.01 | - | 0.22 | <0.01 | - | Pilot and purge are always operating in a steady state scenario. |
| | | | Purge | 0.36 | <0.01 | - | 24 | 8.64 | 0.04 | - | 8.64 | 0.04 | - | |
| | | | Pigging | 0.51 | <0.01 | - | 1 | 0.51 | <0.01 | - | 0.51 | <0.01 | - | It was conservatively assumed that one pigging event would happen per day at a duration of 1 hour. |
| | | | SSM | 647.43 | 5.75 | - | 12 | 7769.14 | 69.00 | - | 7769.14 | 69.00 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Residue Gas Flaring emissions were most significant. There are no durations or number of events permitted for residue gas flaring, but all permitted emissions would be depleted after 12 hours of operating at the maximum hourly rate. Therefore, 12 hours were conservatively assumed for this event. |
| | | | AOS SSM | 3.52 | 0.09 | - | 24 | 84.40 | 2.26 | - | - | - | - | It was conservatively assumed that AOS SSM and Dehy AOS SSM events would last 24 hours. SSM, AOS SSM, and Dehy AOS SSM are not flared simultaneiously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used. |
| | | | Dehy AOS SSM | 0.42 | - | - | 24 | 10.02 | - | - | - | - | - | |
| | RH5-FL-55100 | FLARE | Pilot | 0.04 | <0.01 | - | 24 | 0.84 | <0.01 | - | 0.84 | <0.01 | - | Pilot and purge are always operating in a steady state scenario. |
| | | | Purge | 0.72 | <0.01 | - | 24 | 17.28 | 0.08 | - | 17.28 | 0.08 | - | |
| | | | SSM | 647.43 | 5.75 | - | 12 | 7769.14 | 69.00 | - | 7769.14 | 69.00 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Residue Gas Flaring emissions were most significant and the event duration of 1 hour was conservatively assumed. There are 12 events permitted and it was assumed all events happen in a single day. |
| | | | Dehy AOS SSM | 1.56 | - | - | 24 | 37.40 | - | - | - | - | - | It was conservatively assumed that Dehy AOS SSM events would last 24 hours. SSM and Dehy AOS SSM are not flared simultaneiously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used. |
| | RHA-FL-5100[1] | FLARE | Pilot/Purge | 0.07 | <0.01 | - | 24 | 1.71 | 0.02 | - | 1.71 | 0.02 | - | Pilot purge is always operating in a steady state scenario. |
| | | | Assist Gas | 16.72 | 0.06 | - | 16 | 267.55 | 1.01 | - | 267.55 | 1.01 | - | Assist Gas and Acid Gas, Inlet Gas, and SSM are not flared simultanously. The maximum of each stream on a |
| | | | Acid Gas | 0.04 | 128.22 | - | 16 | 0.61 | 2051.59 | - | 0.61 | 2051.59 | - | pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may |
| | | | Inlet Gas | 9.14 | 102.96 | - | 16 | 146.16 | 1647.35 | - | - | - | - | operate in a way that allows for flaring of different streams during a given day, but this would not be |
| | | | SSM | - | - | - | 4 | - | - | - | - | - | - | quantifiable. Therefore, the maximum contributor was used. |
| | | | Pigging | 0.11 | 1.49 | - | 1 | 0.11 | 1.49 | - | 0.11 | 1.49 | - | It was conservatively assumed that one pigging event would happen per day at a duration of 1 hour. |
| | RA2-FL-25100[2] | FLARE | Pilot/Purge | 0.17 | <0.01 | - | 24 | 4.12 | 0.04 | - | 4.12 | 0.04 | - | Pilot purge is always operating in a steady state scenario. |
| | | | Assist Gas | 16.72 | 0.06 | - | 16 | 267.55 | 1.01 | - | 267.55 | 1.01 | - | Assist Gas and Acid Gas, and Inlet Gas are not flared simultanously. The maximum of each stream on a pollutant |
| | | | Acid Gas | 0.03 | 127.06 | - | 16 | 0.42 | 2033.04 | - | 0.42 | 2033.04 | - | by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a |
| | | | Inlet Gas | 10.63 | 119.77 | - | 16 | 170.03 | 1916.30 | - | - | - | - | way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, |
| | | | Pigging | 0.15 | 1.91 | - | 1 | 0.15 | 1.91 | - | 0.15 | 1.91 | - | the maximum contributor was used. It was conservatively assumed that one pigging event would happen per day at a duration of 1 hour. |
| | RHA-FL-5850 | FLARE | Pilot/Purge | <0.01 | <0.01 | - | 24 | 0.16 | <0.01 | - | 0.16 | <0.01 | - | Pilot / purge and process are always operating in a steady state scenario. |
| | | | Process | <0.01 | 1.60 | - | 24 | <0.01 | 38.28 | - | - | 38.28 | - | |
| | | | SSM | 0.04 | 0.05 | - | 1 | 0.04 | 0.05 | - | - | 0.05 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Tank Degassing emissions were most significant and the event duration of 1 hour was conservatively assumed. |
| | RA2-FL-25850 | FLARE | Pilot/Purge | <0.01 | <0.01 | - | 24 | 0.16 | <0.01 | - | 0.16 | <0.01 | - | Pilot / purge and process are always operating in a steady state scenario. |
| | | | Process | <0.01 | 1.81 | - | 24 | <0.01 | 43.52 | - | <0.01 | 43.52 | - | |
| | | | SSM | 0.23 | 0.30 | - | 4 | 0.93 | 1.18 | - | 0.93 | 1.18 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Full Plant Startup emissions were most significant and the event duration of 4 hours was conservatively assumed. |
| | RH1-FL-2850 | FLARE | Pilot/Purge | 0.01 | <0.01 | - | 24 | 0.35 | <0.01 | - | 0.35 | <0.01 | - | Pilot / purge and process are always operating in a steady state scenario. |
| | | | Process | 0.05 | - | - | 24 | 1.30 | - | - | 1.30 | - | - | |
| | | | SSM | 7.72 | - | - | 1 | 7.72 | - | - | 7.72 | - | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Tank Degassing emissions were most significant and the event duration of 1 hour was conservatively assumed. |
| | RH4-FL-46200 | FLARE | Pilot/Purge | 0.01 | <0.01 | - | 24 | 0.35 | <0.01 | - | 0.35 | <0.01 | - | Pilot / purge and process are always operating in a steady state scenario. |
| | | | Process | 0.98 | - | - | 24 | 23.43 | - | - | 23.43 | - | - | |
| SSM | RH1-SSM | SURFACE COATING AND ABRASIVE BLASTING | Surface Coating | - | - | 0.07 | 4 | - | - | 0.28 | - | - | 0.28 | Surface coating events are limited to one train at a time. Surface Coating emissions were based off of a paint usage rate of 25 gal/hr. There is 100 gal/yr permitted per train and it was assumed all events at a single happen in a single day (4 hours). It was also conservatively assumed 6 trains have surface coating in a day. |
| | | | Abrasive Blasting | - | - | 6.72 | 6 | - | - | 40.30 | - | - | 40.30 | Abrasive Blasting events are limited to one train at a time. Surface Coating events have a duration of 6 hours. It was conservatively assumed 4 trains have abrasive blasting events in a day. |
| Haul Roads | RH-HAUL | HAUL ROAD EMISSIONS | Routine | - | - | 0.36 | 24 | - | - | 8.73 | - | - | 8.73 | Unit always operating in a steady state scenario. |

| | | | |
|---|---|---|---|
| Total (lb/day) | 32937.30 | 5637.93 | 200.12 |
| Total (ton/day) | 16.47 | 2.82 | 0.10 |
| Total (ton/year | 6011.06 | 1028.92 | 36.52 |

Total Q 7076.50

| | D (km) | Q/D (max 24 hour) |
|---|---|---|
| Carlsbad | 79.80 | 88.68 |
| Guadalupe | 116.00 | 61.00 |
| Salt Creek | 170.60 | 41.48 |
| White Mounta | 242.57 | 29.17 |
| Big Bend | 279.75 | 25.30 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## Q/D Maximum Daily Emissions Summary - Scenario 2

| Facility-Wide Controlled Emissions | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit Type** | **Unit ID** | **Equipment Description** | **Activity** | **$NO_x$** | **$SO_2$** | **$PM_{10}$[2]** | **Maximum Daily Operating Hours** | **NOx** | **SO2** | **PM10** | **NOx** | **SO2** | **PM10** | **Notes** |
| | | | | **lb/hr** | **lb/hr** | **lb/hr** | **hrs/day** | **lb/day** | **lb/day** | **lb/day** | **lb/day** | **lb/day** | **lb/day** | |
| Heaters and Reboilers | RH1-H-23-704 | HOT OIL HEATER | Routine | 0.75 | 0.03 | 0.19 | 24 | 18.10 | 0.70 | 4.49 | 18.10 | 0.70 | 4.49 | Units are always operating in a steady state scenario. |
| | RH1-H-1101 | RH5-AMINE | Routine | 0.40 | 0.02 | 0.10 | 24 | 9.49 | 0.37 | 2.35 | 9.49 | 0.37 | 2.35 | |
| | RH4-H-41100 | LIQUIDS IN-LINE HEATER | Routine | 0.88 | <0.01 | 0.06 | 24 | 21.16 | 0.22 | 1.39 | 21.16 | 0.22 | 1.39 | |
| | RH2-H-741 | REGEN GAS HEATER | Routine | 0.94 | <0.01 | 0.07 | 24 | 22.59 | 0.16 | 1.61 | 22.59 | 0.16 | 1.61 | |
| | RH2-H-781 | CRYO HOT OIL HEATER | Routine | 0.23 | <0.01 | 0.09 | 24 | 5.62 | 0.22 | 2.22 | 5.62 | 0.22 | 2.22 | |
| | RH2-H-2301 | TEG REBOILER | Routine | 0.39 | <0.01 | 0.02 | 24 | 9.41 | 0.07 | 0.42 | 9.41 | 0.07 | 0.42 | |
| | RH2-H-0901 | AMINE HOT OIL HEATER | Routine | 1.33 | 0.05 | 0.33 | 24 | 31.93 | 1.23 | 7.92 | 31.93 | 1.23 | 7.92 | |
| | RH2-H-1001 | AMINE HOT OIL HEATER | Routine | 1.33 | 0.05 | 0.33 | 24 | 31.93 | 1.23 | 7.92 | 31.93 | 1.23 | 7.92 | |
| | RHA-H-4901 | AMINE HOT OIL HEATER | Routine | 0.64 | 0.02 | 0.15 | 24 | 15.29 | 0.56 | 3.58 | 15.29 | 0.56 | 3.58 | |
| | RH3-H-741 | REGEN GAS HEATER | Routine | 0.49 | <0.01 | 0.04 | 24 | 11.70 | 0.15 | 0.97 | 11.70 | 0.15 | 0.97 | |
| | RH3-H-781 | CRYO HOT OIL HEATER | Routine | 0.40 | 0.01 | 0.09 | 24 | 9.69 | 0.33 | 2.09 | 9.69 | 0.33 | 2.09 | |
| | RH3-H-6301 | TEG REBOILER | Routine | 0.39 | <0.01 | 0.02 | 24 | 9.41 | 0.07 | 0.42 | 9.41 | 0.07 | 0.42 | |
| | RH4-H-741 | REGEN GAS HEATER | Routine | 0.49 | <0.01 | 0.04 | 24 | 11.70 | 0.15 | 0.97 | 11.70 | 0.15 | 0.97 | |
| | RH4-H-781 | CRYO HOT OIL HEATER | Routine | 0.45 | 0.02 | 0.10 | 24 | 10.92 | 0.37 | 2.35 | 10.92 | 0.37 | 2.35 | |
| | RH4-H-3901 | AMINE HOT OIL HEATER | Routine | 1.54 | 0.05 | 0.34 | 24 | 36.89 | 1.26 | 8.10 | 36.89 | 1.26 | 8.10 | |
| | RH4-H-5301 | TEG REBOILER | Routine | 0.39 | <0.01 | 0.02 | 24 | 9.41 | 0.07 | 0.42 | 9.41 | 0.07 | 0.42 | |
| | RH4-H-4001 | AMINE HOT OIL HEATER | Routine | 1.54 | 0.05 | 0.34 | 24 | 36.89 | 1.26 | 8.10 | 36.89 | 1.26 | 8.10 | |
| | RH5-H-50902 | AMINE/TEG HOT OIL HEATER | Routine | 1.80 | 0.06 | 0.40 | 24 | 43.20 | 1.48 | 9.50 | 43.20 | 1.48 | 9.50 | |
| | RH5-H-50001 | AMINE/TEG HOT OIL HEATER | Routine | 1.80 | 0.06 | 0.40 | 24 | 43.20 | 1.48 | 9.50 | 43.20 | 1.48 | 9.50 | |
| | RH5-H-50741 | REGEN GAS HEATER | Routine | 0.48 | <0.01 | 0.04 | 24 | 11.55 | 0.15 | 0.96 | 11.55 | 0.15 | 0.96 | |
| | RH5-H-50781 | CRYO HOT OIL HEATER | Routine | 0.69 | 0.02 | 0.15 | 24 | 16.64 | 0.56 | 3.59 | 16.64 | 0.56 | 3.59 | |
| | RH6-H-60001 | STABILIZER HOT OIL HEATER | Routine | 1.88 | 0.06 | 0.40 | 24 | 45.12 | 1.48 | 9.50 | 45.12 | 1.48 | 9.50 | |
| | RH6-H-60741 | REGEN GAS HEATER | Routine | 0.48 | <0.01 | 0.04 | 24 | 11.58 | 0.15 | 0.96 | 11.58 | 0.15 | 0.96 | |
| | RH6-H-60781 | CRYO HOT OIL HEATER | Routine | 0.69 | 0.02 | 0.15 | 24 | 16.57 | 0.56 | 3.57 | 16.57 | 0.56 | 3.57 | |
| | RA2-H-20001 | HOT OIL HEATER | Routine | 1.88 | 0.06 | 0.39 | 24 | 45.12 | 1.47 | 9.42 | 45.12 | 1.47 | 9.42 | |
| Generators | RH-GEN-1 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | Although units are permitted for a limited number of annual operating hours, the duration of their usage in a given day is not predictable. It was conservatively assumed that these units can operate continuously over a 24 hour period. |
| | RH-GEN-2 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-3 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-4 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-5 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-6 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-7 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-8 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-9 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-10 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-TRAILER | DIESEL FIRED HEATER TRAILER | Cold Weather Startup | 0.30 | 0.59 | 0.023 | 4 | 1.22 | 2.38 | 0.09 | 1.22 | 2.38 | 0.09 | Unit is used for cold weather startup, it was assumed 4 hrs of runtime a day. |
| | RH-GEN-WELL | DIESEL FIRED GENERATOR, WATER WELL | Monthy Well Testing | 0.63 | 0.081 | 0.087 | 2 | 1.26 | 0.16 | 0.17 | 1.26 | 0.16 | 0.17 | Unit is used once per month to run a pump for water well testing. It is assumed this activity lasts only 2 hours. |
| Thermal Oxidizers | RH2-TO-5500 | THERMAL OXIDIZER | Pilot/Fuel | 0.10 | 0.048 | 0.56 | 24 | 2.39 | 1.14 | 13.33 | 2.39 | 1.14 | 13.33 | Pilot / fuel is always operating in a steady state scenario. |
| | | | Process | 1.32 | 19.31 | 0.12 | 24 | 31.66 | 463.51 | 2.77 | 31.66 | 463.51 | 2.77 | Process emissions are always emitted in a steady state scenario. |
| | | | SSM | 1.71 | 1.54 | 0.09 | 4 | 6.82 | 6.18 | 0.37 | 6.82 | 6.18 | 0.37 | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Facility startup emissions were most significant and the event duration of 4 hours was conservatively assumed. |
| | RH4-TO-45500 | THERMAL OXIDIZER | Pilot/Fuel | 0.10 | 0.045 | 0.53 | 24 | 2.50 | 1.09 | 12.70 | 2.50 | 1.09 | 12.70 | Pilot / fuel is always operating in a steady state scenario. |
| | | | Process | 1.15 | 14.03 | 0.07 | 24 | 27.50 | 336.70 | 1.61 | 27.50 | 336.70 | 1.61 | Process emissions are always emitted in a steady state scenario. |
| | | | SSM | 0.16 | 1.55 | <0.011 | 4 | 0.62 | 6.21 | 0.034 | 0.62 | 6.21 | 0.034 | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Facility startup emissions were most significant and the event duration of 4 hours was conservatively assumed. |
| | RH5-TO-55500 | THERMAL OXIDIZER | Pilot/Fuel | 0.083 | 0.036 | 0.42 | 24 | 2.00 | 0.87 | 10.15 | 2.00 | 0.87 | 10.15 | Pilot / fuel is always operating in a steady state scenario. |
| | | | Process | 1.16 | 14.11 | 0.14 | 24 | 27.76 | 338.72 | 3.26 | 27.76 | 338.72 | 3.26 | Process emissions are always emitted in a steady state scenario. |
| | | | SSM | 0.16 | 1.59 | <0.011 | 4 | 0.64 | 6.36 | 0.034 | 0.64 | 6.36 | 0.034 | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Facility startup emissions were most significant and the event duration of 4 hours was conservatively assumed. |
| | RH1-FL-29-1003 | FLARE | Pilot | 0.04 | <0.01 | - | 24 | 1.01 | <0.01 | - | 1.01 | <0.01 | - | Pilot, purge, and dehy still vent gas are always operating in a steady state scenario. |
| | | | Purge | 0.29 | <0.01 | - | 24 | 6.91 | 0.03 | - | 6.91 | 0.03 | - | |
| | | | Dehy Still Vent Gas | 0.23 | 0.15 | - | 24 | 5.60 | 3.55 | - | 5.60 | 3.55 | - | |
| | | | SSM | 211.12 | 1.88 | - | 12 | 2533.42 | 22.50 | - | 2533.42 | 22.50 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Residue Gas Flaring emissions were most significant. There are no durations or number of events permitted for residue gas flaring, but all permitted emissions would be depleted after 12 hours of operating at the maximum hourly rate. Therefore, 12 hours were conservatively assumed for this event. |
| | | | AOS SSM | 0.64 | <0.01 | - | 24 | 15.42 | 0.19 | - | - | - | - | It was conservatively assumed that an AOS SSM event would last 24 hours. |
| | RH2-FL-5100 | FLARE | Pilot | <0.01 | <0.01 | - | 24 | 0.22 | <0.01 | - | 0.22 | <0.01 | - | Pilot and purge are always operating in a steady state scenario. |
| | | | Purge | 0.36 | <0.01 | - | 24 | 8.64 | 0.04 | - | 8.64 | 0.04 | - | |
| | | | SSM | 562.98 | 5.00 | - | 12 | 6755.77 | 60.00 | - | 6755.77 | 60.00 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Residue Gas Flaring emissions were most significant. There are no durations or number of events permitted for residue gas flaring, but all permitted emissions would be depleted after 12 hours of operating at the maximum hourly rate. Therefore, 12 hours were conservatively assumed for this event. |
| | | | AOS SSM | 3.64 | 0.05 | - | 24 | 87.29 | 1.19 | - | - | - | - | It was conservatively assumed that AOS SSM and Dehy AOS SSM events would last 24 hours. SSM, AOS SSM, and Dehy AOS SSM are not flared simultaneiously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used. |
| | | | Dehy AOS SSM | 1.11 | - | - | 24 | 26.57 | - | - | - | - | - | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flares | RH3-FL-5100 | FLARE | Pilot | <0.01 | <0.01 | - | 24 | 0.22 | <0.01 | - | 0.22 | <0.01 | - | Pilot and purge are always operating in a steady state scenario. |
| | | | Purge | 0.36 | <0.01 | - | 24 | 8.64 | 0.04 | - | 8.64 | 0.04 | - | |
| | | | SSM | 562.98 | 5.00 | - | 12 | 6755.77 | 60.00 | - | 6755.77 | 60.00 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Residue Gas Flaring emissions were most significant. There are no durations or number of events permitted for residue gas flaring, but all permitted emissions would be depleted after 12 hours of operating at the maximum hourly rate. Therefore, 12 hours were conservatively assumed for this event. |
| | | | Dehy AOS SSM | - | - | - | 24 | - | - | - | - | - | - | It was conservatively assumed that Dehy AOS SSM events would last 24 hours. SSM and Dehy AOS SSM are not flared simultaneiously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used. |
| | RH4-FL-45100 | FLARE | Pilot | <0.01 | <0.01 | - | 24 | 0.22 | <0.01 | - | 0.22 | <0.01 | - | Pilot and purge are always operating in a steady state scenario. |
| | | | Purge | 0.36 | <0.01 | - | 24 | 8.64 | 0.04 | - | 8.64 | 0.04 | - | |
| | | | Pigging | 0.51 | <0.01 | - | 1 | 0.51 | <0.01 | - | 0.51 | <0.01 | - | It was conservatively assumed that one pigging event would happen per day at a duration of 1 hour. |
| | | | SSM | 647.43 | 5.75 | - | 12 | 7769.14 | 69.00 | - | 7769.14 | 69.00 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Residue Gas Flaring emissions were most significant. There are no durations or number of events permitted for residue gas flaring, but all permitted emissions would be depleted after 12 hours of operating at the maximum hourly rate. Therefore, 12 hours were conservatively assumed for this event. |
| | | | AOS SSM | 3.52 | 0.09 | - | 24 | 84.40 | 2.26 | - | - | - | - | It was conservatively assumed that AOS SSM and Dehy AOS SSM events would last 24 hours. SSM, AOS SSM, and Dehy AOS SSM are not flared simultaneiously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used. |
| | | | Dehy AOS SSM | 0.42 | - | - | 24 | 10.02 | - | - | - | - | - | |
| | RH5-FL-55100 | FLARE | Pilot | 0.04 | <0.01 | - | 24 | 0.84 | <0.01 | - | 0.84 | <0.01 | - | Pilot and purge are always operating in a steady state scenario. |
| | | | Purge | 0.72 | <0.01 | - | 24 | 17.28 | 0.08 | - | 17.28 | 0.08 | - | |
| | | | SSM | 647.43 | 5.75 | - | 12 | 7769.14 | 69.00 | - | 7769.14 | 69.00 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Residue Gas Flaring emissions were most significant. There are no durations or number of events permitted for residue gas flaring, but all permitted emissions would be depleted after 12 hours of operating at the maximum hourly rate. Therefore, 12 hours were conservatively assumed for this event. |
| | | | Dehy AOS SSM | 1.56 | - | - | 24 | 37.40 | - | - | - | - | - | It was conservatively assumed that Dehy AOS SSM events would last 24 hours. SSM and Dehy AOS SSM are not flared simultaneiously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used. |
| | RHA-FL-5100[1] | FLARE | Pilot/Purge | 0.07 | <0.01 | - | 24 | 1.71 | 0.02 | - | 1.71 | 0.02 | - | Pilot purge is always operating in a steady state scenario. |
| | | | Assist Gas | 16.72 | 0.06 | - | 16 | 267.55 | 1.01 | - | 267.55 | 1.01 | - | |
| | | | Acid Gas | 0.08 | 259.50 | - | 16 | 1.24 | 4152.03 | - | 1.24 | 4152.03 | - | Assist Gas and Acid Gas, Inlet Gas, and SSM are not flared simultanously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used. |
| | | | Inlet Gas | 9.14 | 102.96 | - | 16 | 146.16 | 1647.35 | - | - | - | - | |
| | | | SSM | 3.51 | 51.21 | - | 4 | 14.05 | 204.85 | - | - | - | - | |
| | | | Pigging | 0.11 | 1.49 | - | 1 | 0.11 | 1.49 | - | 0.11 | 1.49 | - | It was conservatively assumed that one pigging event would happen per day at a duration of 1 hour. |
| | RA2-FL-25100[2] | FLARE | Pilot/Purge | 0.17 | <0.01 | - | 24 | 4.12 | 0.04 | - | 4.12 | 0.04 | - | Pilot purge is always operating in a steady state scenario. |
| | | | Not Operating | - | - | - | - | - | - | - | - | - | - | This unit is not operating in this scenario. |
| | RHA-FL-5850 | FLARE | Pilot/Purge | <0.01 | <0.01 | - | 24 | 0.16 | <0.01 | - | 0.16 | <0.01 | - | Pilot / purge and process are always operating in a steady state scenario. |
| | | | Process | <0.01 | 1.60 | - | 24 | <0.01 | 38.28 | - | - | 38.28 | - | |
| | | | SSM | 0.04 | 0.05 | - | 1 | 0.04 | 0.05 | - | - | 0.05 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Tank Degassing emissions were most significant and the event duration of 1 hour was conservatively assumed. |
| | RA2-FL-25850 | FLARE | Pilot/Purge | <0.01 | <0.01 | - | 24 | 0.16 | <0.01 | - | 0.16 | <0.01 | - | Pilot / purge and process are always operating in a steady state scenario. |
| | | | Process | <0.01 | 1.81 | - | 24 | <0.01 | 43.52 | - | <0.01 | 43.52 | - | |
| | | | SSM | 0.23 | 0.30 | - | 4 | 0.93 | 1.18 | - | 0.93 | 1.18 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Full Plant Startup emissions were most significant and the event duration of 4 hours was conservatively assumed. |
| | RH1-FL-2850 | FLARE | Pilot/Purge | 0.01 | <0.01 | - | 24 | 0.35 | <0.01 | - | 0.35 | <0.01 | - | Pilot / purge and process are always operating in a steady state scenario. |
| | | | Process | 0.05 | - | - | 24 | 1.30 | - | - | 1.30 | - | - | |
| | | | SSM | 7.72 | - | - | 1 | 7.72 | - | - | 7.72 | - | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Tank Degassing emissions were most significant and the event duration of 1 hour was conservatively assumed. |
| | RH4-FL-46200 | FLARE | Pilot/Purge | 0.01 | <0.01 | - | 24 | 0.35 | <0.01 | - | 0.35 | <0.01 | - | Pilot / purge and process are always operating in a steady state scenario. |
| | | | Process | 0.98 | - | - | 24 | 23.43 | - | - | 23.43 | - | - | |
| SSM | RH1-SSM | SURFACE COATING AND ABRASIVE BLASTING | Surface Coating | - | - | 0.07 | 4 | - | - | 0.28 | - | - | 0.28 | Surface coating events are limited to one train at a time. Surface Coating emissions were based off of a paint usage rate of 25 gal/hr. There is 100 gal/yr permitted per train and it was assumed all events at a single happen in a single day (4 hours). It was also conservatively assumed 6 trains have surface coating in a day. |
| | | | Abrasive Blasting | - | - | 6.72 | 6 | - | - | 40.30 | - | - | 40.30 | Abrasive Blasting events are limited to one train at a time. Surface Coating events have a duration of 6 hours. It was conservatively assumed 4 trains have abrasive blasting events in a day. |
| Haul Roads | RH-HAUL | HAUL ROAD EMISSIONS | Routine | - | - | 0.36 | 24 | - | - | 8.73 | - | - | 8.73 | Unit always operating in a steady state scenario. |
| | | | | | | | | | | Total (lb/day) | 32669.81 | 5702.40 | 200.12 | |
| | | | | | | | | | | Total (ton/day) | 16.33 | 2.85 | 0.10 | |
| | | | | | | | | | | Total (ton/year) | 5962.24 | 1040.69 | 36.52 | |

Total Q: 7039.45

| | D (km) | Q/D (max 24 hour) |
|---|---|---|
| Carlsbad | 79.80 | 88.21 |
| Guadalupe | 116.00 | 60.68 |
| Salt Creek | 170.60 | 41.26 |
| White Mounta | 242.57 | 29.02 |
| Big Bend | 279.75 | 25.16 |

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## Q/D Maximum Daily Emissions Summary - Scenario 3

| Facility-Wide Controlled Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Unit Type** | **Unit ID** | **Equipment Description** | **Activity** | **$NO_x$** | **$SO_2$** | **$PM_{10}$[2]** | **Maximum Daily Operating Hours** | **NOx** | **SO2** | **PM10** | **NOx** | **SO2** | **PM10** | **Notes** |
| | | | | **lb/hr** | **lb/hr** | **lb/hr** | **hrs/day** | **lb/day** | **lb/day** | **lb/day** | **lb/day** | **lb/day** | **lb/day** | |
| Heaters and Reboilers | RH1-H-23-704 | HOT OIL HEATER | Routine | 0.75 | 0.03 | 0.19 | 24 | 18.10 | 0.70 | 4.49 | 18.10 | 0.70 | 4.49 | Units are always operating in a steady state scenario. |
| | RH1-H-1101 | RH5-AMINE | Routine | 0.40 | 0.02 | 0.10 | 24 | 9.49 | 0.37 | 2.35 | 9.49 | 0.37 | 2.35 | |
| | RH4-H-41100 | LIQUIDS IN-LINE HEATER | Routine | 0.88 | <0.01 | 0.06 | 24 | 21.16 | 0.22 | 1.39 | 21.16 | 0.22 | 1.39 | |
| | RH2-H-741 | REGEN GAS HEATER | Routine | 0.94 | <0.01 | 0.07 | 24 | 22.59 | 0.16 | 1.61 | 22.59 | 0.16 | 1.61 | |
| | RH2-H-781 | CRYO HOT OIL HEATER | Routine | 0.23 | <0.01 | 0.09 | 24 | 5.62 | 0.22 | 2.22 | 5.62 | 0.22 | 2.22 | |
| | RH2-H-2301 | TEG REBOILER | Routine | 0.39 | <0.01 | 0.02 | 24 | 9.41 | 0.07 | 0.42 | 9.41 | 0.07 | 0.42 | |
| | RH2-H-0901 | AMINE HOT OIL HEATER | Routine | 1.33 | 0.05 | 0.33 | 24 | 31.93 | 1.23 | 7.92 | 31.93 | 1.23 | 7.92 | |
| | RH2-H-1001 | AMINE HOT OIL HEATER | Routine | 1.33 | 0.05 | 0.33 | 24 | 31.93 | 1.23 | 7.92 | 31.93 | 1.23 | 7.92 | |
| | RHA-H-4901 | AMINE HOT OIL HEATER | Routine | 0.64 | 0.02 | 0.15 | 24 | 15.29 | 0.56 | 3.58 | 15.29 | 0.56 | 3.58 | |
| | RH3-H-741 | REGEN GAS HEATER | Routine | 0.49 | <0.01 | 0.04 | 24 | 11.70 | 0.15 | 0.97 | 11.70 | 0.15 | 0.97 | |
| | RH3-H-781 | CRYO HOT OIL HEATER | Routine | 0.40 | 0.01 | 0.09 | 24 | 9.69 | 0.33 | 2.09 | 9.69 | 0.33 | 2.09 | |
| | RH3-H-6301 | TEG REBOILER | Routine | 0.39 | <0.01 | 0.02 | 24 | 9.41 | 0.07 | 0.42 | 9.41 | 0.07 | 0.42 | |
| | RH4-H-741 | REGEN GAS HEATER | Routine | 0.49 | <0.01 | 0.04 | 24 | 11.70 | 0.15 | 0.97 | 11.70 | 0.15 | 0.97 | |
| | RH4-H-781 | CRYO HOT OIL HEATER | Routine | 0.45 | 0.02 | 0.10 | 24 | 10.92 | 0.37 | 2.35 | 10.92 | 0.37 | 2.35 | |
| | RH4-H-3901 | AMINE HOT OIL HEATER | Routine | 1.54 | 0.05 | 0.34 | 24 | 36.89 | 1.26 | 8.10 | 36.89 | 1.26 | 8.10 | |
| | RH4-H-5301 | TEG REBOILER | Routine | 0.39 | <0.01 | 0.02 | 24 | 9.41 | 0.07 | 0.42 | 9.41 | 0.07 | 0.42 | |
| | RH4-H-4001 | AMINE HOT OIL HEATER | Routine | 1.54 | 0.05 | 0.34 | 24 | 36.89 | 1.26 | 8.10 | 36.89 | 1.26 | 8.10 | |
| | RH5-H-50902 | AMINE/TEG HOT OIL HEATER | Routine | 1.80 | 0.06 | 0.40 | 24 | 43.20 | 1.48 | 9.50 | 43.20 | 1.48 | 9.50 | |
| | RH5-H-50001 | AMINE/TEG HOT OIL HEATER | Routine | 1.80 | 0.06 | 0.40 | 24 | 43.20 | 1.48 | 9.50 | 43.20 | 1.48 | 9.50 | |
| | RH5-H-50741 | REGEN GAS HEATER | Routine | 0.48 | <0.01 | 0.04 | 24 | 11.55 | 0.15 | 0.96 | 11.55 | 0.15 | 0.96 | |
| | RH5-H-50781 | CRYO HOT OIL HEATER | Routine | 0.69 | 0.02 | 0.15 | 24 | 16.64 | 0.56 | 3.59 | 16.64 | 0.56 | 3.59 | |
| | RH6-H-60001 | STABILIZER HOT OIL HEATER | Routine | 1.88 | 0.06 | 0.40 | 24 | 45.12 | 1.48 | 9.50 | 45.12 | 1.48 | 9.50 | |
| | RH6-H-60741 | REGEN GAS HEATER | Routine | 0.48 | <0.01 | 0.04 | 24 | 11.58 | 0.15 | 0.96 | 11.58 | 0.15 | 0.96 | |
| | RH6-H-60781 | CRYO HOT OIL HEATER | Routine | 0.69 | 0.02 | 0.15 | 24 | 16.57 | 0.56 | 3.57 | 16.57 | 0.56 | 3.57 | |
| | RA2-H-20001 | HOT OIL HEATER | Routine | 1.88 | 0.06 | 0.39 | 24 | 45.12 | 1.47 | 9.42 | 45.12 | 1.47 | 9.42 | |
| Generators | RH-GEN-1 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | Although units are permitted for a limited number of annual operating hours, the duration of their usage in a given day is not predictable. It was conservatively assumed that these units can operate continuously over a 24 hour period. |
| | RH-GEN-2 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-3 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-4 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-5 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-6 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-7 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-8 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-9 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-GEN-10 | DIESEL FIRED GENERATOR | Power Backup, Routine | 0.33 | <0.01 | 0.017 | 24 | 7.92 | 0.15 | 0.40 | 7.92 | 0.15 | 0.40 | |
| | RH-TRAILER | DIESEL FIRED HEATER TRAILER | Cold Weather Startup | 0.30 | 0.59 | 0.023 | 4 | 1.22 | 2.38 | 0.09 | 1.22 | 2.38 | 0.09 | Unit is used for cold weather startup, it was assumed 4 hrs of runtime a day. |
| | RH-GEN-WELL | DIESEL FIRED GENERATOR, WATER WELL | Monthy Well Testing | 0.63 | 0.081 | 0.087 | 2 | 1.26 | 0.16 | 0.17 | 1.26 | 0.16 | 0.17 | Unit is used once per month to run a pump for water well testing. It is assumed this activity lasts only 2 hours. |
| Thermal Oxidizers | RH2-TO-5500 | THERMAL OXIDIZER | Pilot/Fuel | 0.10 | 0.048 | 0.56 | 24 | 2.39 | 1.14 | 13.33 | 2.39 | 1.14 | 13.33 | Pilot / fuel is always operating in a steady state scenario. |
| | | | Process | 1.32 | 19.31 | 0.12 | 24 | 31.66 | 463.51 | 2.77 | 31.66 | 463.51 | 2.77 | Process emissions are always emitted in a steady state scenario. |
| | | | SSM | 1.71 | 1.54 | 0.09 | 4 | 6.82 | 6.18 | 0.37 | 6.82 | 6.18 | 0.37 | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Facility startup emissions were most significant and the event duration of 4 hours was conservatively assumed. |
| | RH4-TO-45500 | THERMAL OXIDIZER | Pilot/Fuel | 0.10 | 0.045 | 0.53 | 24 | 2.50 | 1.09 | 12.70 | 2.50 | 1.09 | 12.70 | Pilot / fuel is always operating in a steady state scenario. |
| | | | Process | 1.15 | 14.03 | 0.07 | 24 | 27.50 | 336.70 | 1.61 | 27.50 | 336.70 | 1.61 | Process emissions are always emitted in a steady state scenario. |
| | | | SSM | 0.16 | 1.55 | <0.011 | 4 | 0.62 | 6.21 | 0.034 | 0.62 | 6.21 | 0.034 | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Facility startup emissions were most significant and the event duration of 4 hours was conservatively assumed. |
| | RH5-TO-55500 | THERMAL OXIDIZER | Pilot/Fuel | 0.083 | 0.036 | 0.42 | 24 | 2.00 | 0.87 | 10.15 | 2.00 | 0.87 | 10.15 | Pilot / fuel is always operating in a steady state scenario. |
| | | | Process | 1.16 | 14.11 | 0.14 | 24 | 27.76 | 338.72 | 3.26 | 27.76 | 338.72 | 3.26 | Process emissions are always emitted in a steady state scenario. |
| | | | SSM | 0.16 | 1.59 | <0.011 | 4 | 0.64 | 6.36 | 0.034 | 0.64 | 6.36 | 0.034 | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Facility startup emissions were most significant and the event duration of 4 hours was conservatively assumed. |
| | RH1-FL-29-1003 | FLARE | Pilot | 0.04 | <0.01 | - | 24 | 1.01 | <0.01 | - | 1.01 | <0.01 | - | Pilot, purge, and dehy still vent gas are always operating in a steady state scenario. |
| | | | Purge | 0.29 | <0.01 | - | 24 | 6.91 | 0.03 | - | 6.91 | 0.03 | - | |
| | | | Dehy Still Vent Gas | 0.23 | 0.15 | - | 24 | 5.60 | 3.55 | - | 5.60 | 3.55 | - | |
| | | | SSM | 211.12 | 1.88 | - | 12 | 2533.42 | 22.50 | - | 2533.42 | 22.50 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Residue Gas Flaring emissions were most significant. There are no durations or number of events permitted for residue gas flaring, but all permitted emissions would be depleted after 12 hours of operating at the maximum hourly rate. Therefore, 12 hours were conservatively assumed for this event. |
| | | | AOS SSM | 0.64 | <0.01 | - | 24 | 15.42 | 0.19 | - | - | - | - | It was conservatively assumed that an AOS SSM event would last 24 hours. |
| | RH2-FL-5100 | FLARE | Pilot | <0.01 | <0.01 | - | 24 | 0.22 | <0.01 | - | 0.22 | <0.01 | - | Pilot and purge are always operating in a steady state scenario. |
| | | | Purge | 0.36 | <0.01 | - | 24 | 8.64 | 0.04 | - | 8.64 | 0.04 | - | |
| | | | SSM | 562.98 | 5.00 | - | 12 | 6755.77 | 60.00 | - | 6755.77 | 60.00 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Residue Gas Flaring emissions were most significant. There are no durations or number of events permitted for residue gas flaring, but all permitted emissions would be depleted after 12 hours of operating at the maximum hourly rate. Therefore, 12 hours were conservatively assumed for this event. |
| | | | AOS SSM | 3.64 | 0.05 | - | 24 | 87.29 | 1.19 | - | - | - | - | It was conservatively assumed that AOS SSM and Dehy AOS SSM events would last 24 hours. SSM, AOS SSM, and Dehy AOS SSM are not flared simultaneiously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used. |
| | | | Dehy AOS SSM | 1.11 | - | - | 24 | 26.57 | - | - | - | - | - | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flares | RH3-FL-5100 | FLARE | Pilot | <0.01 | <0.01 | - | 24 | 0.22 | <0.01 | - | 0.22 | <0.01 | - | Pilot and purge are always operating in a steady state scenario. |
| | | | Purge | 0.36 | <0.01 | - | 24 | 8.64 | 0.04 | - | 8.64 | 0.04 | - | |
| | | | SSM | 562.98 | 5.00 | - | 12 | 6755.77 | 60.00 | - | 6755.77 | 60.00 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Residue Gas Flaring emissions were most significant. There are no durations or number of events permitted for residue gas flaring, but all permitted emissions would be depleted after 12 hours of operating at the maximum hourly rate. Therefore, 12 hours were conservatively assumed for this event. |
| | | | Dehy AOS SSM | - | - | - | 24 | - | - | - | - | - | - | It was conservatively assumed that Dehy AOS SSM events would last 24 hours. SSM and Dehy AOS SSM are not flared simultaneiously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used. |
| | RH4-FL-45100 | FLARE | Pilot | <0.01 | <0.01 | - | 24 | 0.22 | <0.01 | - | 0.22 | <0.01 | - | Pilot and purge are always operating in a steady state scenario. |
| | | | Purge | 0.36 | <0.01 | - | 24 | 8.64 | 0.04 | - | 8.64 | 0.04 | - | |
| | | | Pigging | 0.51 | <0.01 | - | 1 | 0.51 | <0.01 | - | 0.51 | <0.01 | - | It was conservatively assumed that one pigging event would happen per day at a duration of 1 hour. |
| | | | SSM | 647.43 | 5.75 | - | 12 | 7769.14 | 69.00 | - | 7769.14 | 69.00 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Residue Gas Flaring emissions were most significant. There are no durations or number of events permitted for residue gas flaring, but all permitted emissions would be depleted after 12 hours of operating at the maximum hourly rate. Therefore, 12 hours were conservatively assumed for this event. |
| | | | AOS SSM | 3.52 | 0.09 | - | 24 | 84.40 | 2.26 | - | - | - | - | It was conservatively assumed that AOS SSM and Dehy AOS SSM events would last 24 hours. SSM, AOS SSM, and Dehy AOS SSM are not flared simultaneiously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used. |
| | | | Dehy AOS SSM | 0.42 | - | - | 24 | 10.02 | - | - | - | - | - | |
| | RH5-FL-55100 | FLARE | Pilot | 0.04 | <0.01 | - | 24 | 0.84 | <0.01 | - | 0.84 | <0.01 | - | Pilot and purge are always operating in a steady state scenario. |
| | | | Purge | 0.72 | <0.01 | - | 24 | 17.28 | 0.08 | - | 17.28 | 0.08 | - | |
| | | | SSM | 647.43 | 5.75 | - | 12 | 7769.14 | 69.00 | - | 7769.14 | 69.00 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Residue Gas Flaring emissions were most significant. There are no durations or number of events permitted for residue gas flaring, but all permitted emissions would be depleted after 12 hours of operating at the maximum hourly rate. Therefore, 12 hours were conservatively assumed for this event. |
| | | | Dehy AOS SSM | 1.56 | - | - | 24 | 37.40 | - | - | - | - | - | It was conservatively assumed that Dehy AOS SSM events would last 24 hours. SSM and Dehy AOS SSM are not flared simultaneiously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used. |
| | RHA-FL-5100[1] | FLARE | Pilot/Purge | 0.07 | <0.01 | - | 24 | 1.71 | 0.02 | - | 1.71 | 0.02 | - | Pilot purge is always operating in a steady state scenario. |
| | | | Not Operating | - | - | - | - | - | - | - | - | - | - | This unit is not operating in this scenario. |
| | RA2-FL-25100[2] | FLARE | Pilot/Purge | 0.17 | <0.01 | - | 24 | 4.12 | 0.04 | - | 4.12 | 0.04 | - | Pilot purge is always operating in a steady state scenario. |
| | | | Assist Gas | 16.72 | 0.06 | - | 16 | 267.55 | 1.01 | - | - | 1.01 | - | Assist Gas and Acid Gas, Inlet Gas, and SSM are not flared simultanously. The maximum of each stream on a pollutant by pollutant basis was taken to derive the lb/day value as a conservative measure. The unit may operate in a way that allows for flaring of different streams during a given day, but this would not be quantifiable. Therefore, the maximum contributor was used. |
| | | | Acid Gas | 0.05 | 258.10 | - | 16 | 0.86 | 4129.61 | - | - | 4129.61 | - | |
| | | | Inlet Gas | 20.97 | 236.39 | - | 16 | 335.58 | 3782.17 | - | 335.58 | - | - | |
| | | | SSM | - | - | - | 4 | - | - | - | - | - | - | |
| | | | Pigging | 0.15 | 1.91 | - | 1 | 0.15 | 1.91 | - | 0.15 | 1.91 | - | It was conservatively assumed that one pigging event would happen per day at a duration of 1 hour. |
| | RHA-FL-5850 | FLARE | Pilot/Purge | <0.01 | <0.01 | - | 24 | 0.16 | <0.01 | - | 0.16 | <0.01 | - | Pilot / purge and process are always operating in a steady state scenario. |
| | | | Process | <0.01 | 1.60 | - | 24 | <0.01 | 38.28 | - | - | 38.28 | - | |
| | | | SSM | 0.04 | 0.05 | - | 1 | 0.04 | 0.05 | - | - | 0.05 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Tank Degassing emissions were most significant and the event duration of 1 hour was conservatively assumed. |
| | RA2-FL-25850 | FLARE | Pilot/Purge | <0.01 | <0.01 | - | 24 | 0.16 | <0.01 | - | 0.16 | <0.01 | - | Pilot / purge and process are always operating in a steady state scenario. |
| | | | Process | <0.01 | 1.81 | - | 24 | <0.01 | 43.52 | - | <0.01 | 43.52 | - | |
| | | | SSM | 0.23 | 0.30 | - | 4 | 0.93 | 1.18 | - | 0.93 | 1.18 | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Full Plant Startup emissions were most significant and the event duration of 4 hours was conservatively assumed. |
| | RH1-FL-2850 | FLARE | Pilot/Purge | 0.01 | <0.01 | - | 24 | 0.35 | <0.01 | - | 0.35 | <0.01 | - | Pilot / purge and process are always operating in a steady state scenario. |
| | | | Process | 0.05 | - | - | 24 | 1.30 | - | - | 1.30 | - | - | |
| | | | SSM | 7.72 | - | - | 1 | 7.72 | - | - | 7.72 | - | - | The largest contributing event was considered for the Q/D analysis. Since events cannot occur simultaneously, this was appropriate. Tank Degassing emissions were most significant and the event duration of 1 hour was conservatively assumed. |
| | RH4-FL-46200 | FLARE | Pilot/Purge | 0.01 | <0.01 | - | 24 | 0.35 | <0.01 | - | 0.35 | <0.01 | - | Pilot / purge and process are always operating in a steady state scenario. |
| | | | Process | 0.05 | - | - | 24 | 1.30 | - | - | 1.30 | - | - | |
| SSM | RH1-SSM | SURFACE COATING AND ABRASIVE BLASTING | Surface Coating | - | - | 0.07 | 4 | - | - | 0.28 | - | - | 0.28 | Surface coating events are limited to one train at a time. Surface Coating emissions were based off of a paint usage rate of 25 gal/hr. There is 100 gal/yr permitted per train and it was assumed all events at a single happen in a single day (4 hours). It was also conservatively assumed 6 trains have surface coating in a day. |
| | | | Abrasive Blasting | - | - | 6.72 | 6 | - | - | 40.30 | - | - | 40.30 | Abrasive Blasting events are limited to one train at a time. Surface Coating events have a duration of 6 hours. It was conservatively assumed 4 trains have abrasive blasting events in a day. |
| Haul Roads | RH-HAUL | HAUL ROAD EMISSIONS | Routine | - | - | 0.36 | 24 | - | - | 8.73 | - | - | 8.73 | Unit always operating in a steady state scenario. |
| | | | | | | | | | | Total (lb/day) | 32714.49 | 5680.41 | 200.12 | |
| | | | | | | | | | | Total (ton/day) | 16.36 | 2.84 | 0.10 | |
| | | | | | | | | | | Total (ton/year | 5970.39 | 1036.67 | 36.52 | |

Total Q 7043.59

| | D (km) | Q/D (max 24 hour) |
|---|---|---|
| Carlsbad | 79.80 | 88.27 |
| Guadalupe | 116.00 | 60.72 |
| Salt Creek | 170.60 | 41.29 |
| White Mounta | 242.57 | 29.04 |
| Big Bend | 279.75 | 25.18 |

# Section 17

## Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

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To show compliance with existing NSR permits conditions, you must submit a compliance test history. The table below provides an example.

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Compliance test history is available upon request.

# Section 20

## Other Relevant Information

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**Other relevant information**. Use this attachment to clarify any part in the application that you think needs explaining. Reference the section, table, column, and/or field. Include any additional text, tables, calculations or clarifying information.

Additionally, the applicant may propose specific permit language for AQB consideration. In the case of a revision to an existing permit, the applicant should provide the old language and the new language in track changes format to highlight the proposed changes. If proposing language for a new facility or language for a new unit, submit the proposed operating condition(s), along with the associated monitoring, recordkeeping, and reporting conditions. In either case, please limit the proposed language to the affected portion of the permit.

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**Permit Conditions**

Targa Northern Delaware, LLC respectfully requests that AQB considers the following permit condition language changes:

Condition A107.D – Targa would like to request that an operator developed procedure be an option for compliance with the SSM Flare Gas Flow Monitoring and Gas Analysis condition. Please refer to the table in Section 3 of this application for unit ID cross-reference.

A. SSM Flare Gas Flow Monitoring and Gas Analysis (Units 1-EP-2, 2-EP-2a, 2.5-EP-5, 3-EP-2a, 4-EP-2a, 5-EP-2, 7-EP-2, 5.5-EP-1b)

**Requirement:** Compliance with the flare allowable emission limits in Table 107.A shall be demonstrated by completing the monitoring, recordkeeping, and reporting required by this condition and Condition A107.E. All flow meters and inline chemical composition analyzers shall be installed, calibrated, operated, and maintained in accordance with the requirements of Condition B108.H.

**Monitoring:**

(1) Gas Flow:

(a) One or more gas flowmeters equipped with a chart recorder or data logger (electronic storage) shall be installed to continuously monitor the flow (scf) of gas sent to the flare.

(b) Pilot, purge, and assist gas, if applicable, shall be monitored using a gas flowmeter under (a) or determined using manufacturer's specifications or engineering estimates.

(2) Gas Analysis:

(a) Once per calendar year, the permittee shall perform a gas analysis, including measurement of the $H_2S$ content, total sulfur content, VOC content, and heating value (BTU/scf) of gas sent to the flare for combustion. Gas analyses shall be separated by a minimum of six (6) months.

(b) Alternatively, for $H_2S$ only, in lieu of an annual analysis, $H_2S$ may be measured quarterly using a stain tube(s) of the appropriate size range or with an inline chemical composition analyzer.

(3) Calibration: In addition to the requirements of Condition B108.H, flow meters and inline chemical composition analyzers shall be operated, calibrated, and maintained as specified by the site-specific operations and maintenance plan, if applicable.

**Recordkeeping:** The following records shall be maintained in accordance with Condition B109.

(1) Gas Flow:

(a) Records of continuous flowmeter measurements and the hourly flow rate in scf/hr calculated

by averaging a minimum of four (4) equally spaced readings for each hour.

(b) Manufacturer's specifications or engineering estimates used for pilot, purge, and assist (if applicable) gas flow rates.

(2) Gas Analysis: All sample documentation received from the laboratory or testing service company, including $H_2S$ content, the total sulfur content, the VOC content, and the heating value (BTU/scf), analysis method utilized, and sample chain of custody. If stain tubes are used for measuring $H_2S$ content, records of the results, including size range of stain tubes used, the date of the test, and the name of the person conducting the test.

(3) Calibration: Records of all flowmeter and inline monitor certifications, calibrations, data capture calculations and documentation as specified by Condition B108.H, as well as any breakdowns, reasons for the breakdown, and corrective actions. The permittee shall also maintain a copy of the manufacturer specifications for operation and calibration or the site-specific operations and maintenance plan for flowmeters and inline monitors.

**Reporting:** The permittee shall report in accordance with Condition B110.

Condition A107.F – Targa would like to request the ability to sample a stream deemed representative of the gas vented during SSM/M activities, since sampling during a venting SSM/M event would be infeasible. Please refer to the table in Section 3 of this application for unit ID cross-reference.

B. Combined SSM/M (Malfunction) of VOC Emission Limit (Unit SSM/M, excludes venting from Cryogenic Trains and Unit EP-11 for ECD down time)

**Requirement:**

(1) **Compliance Method**

The permittee shall perform a gas analysis once every year based on a calendar year of a gas stream deemed representative of the gas vented during each SSM/M event.

On a monthly basis, the permittee shall complete the following monitoring and recordkeeping to demonstrate compliance with the allowable emission limits in Table 107.A for routine or predictable startup, shutdown, and maintenance (SSM); and/or malfunctions (M) herein referred to as SSM/M.

(2) **Emissions included in Permit Limit and/or Reported as Excess Emissions**

(a) All emissions due to routine or predictable startup, shutdown, and/or maintenance (SSM), other than venting from Cryogenic trains or EP-11, must be included under and shall not exceed the SSM/M emission limit in table 107.A in this permit. For emissions due to malfunctions, the permittee has the option to report these as excess emissions of the pound per hour limits in Table 106.A (or the pound per hour limits in condition B110F, if applicable), in accordance with 20.2.7 NMAC, or include the emissions under the limit in table 107.A.

(b) Once emissions from a malfunction event are submitted in the final report (due no later than ten days after the end of the excess emissions event) per 20.2.7.110.A(2) NMAC, the event is considered an excess emission and cannot be applied toward the SSM/M limit in table 107.A. in this permit.

(3) **Emissions Exceeding the Permit Limit**

If the monthly rolling 12-month total of SSM/M exceeds the emission limit in table 107.A, the permittee shall report the emissions as excess emissions in accordance with 20.2.7.110 NMAC.

(4) **Emissions Due to Preventable Events**

Emissions that are due entirely or in part to poor maintenance, careless operation, or any other preventable equipment breakdown shall not be included under the SSM/M emission limit in table

107.A. These emissions shall be reported as excess emissions of the pound per hour limits in Table 106.A (or the pound per hour limits in condition B110F, if applicable) in accordance with 20.2.7 NMAC.

**Monitoring:** The permittee shall monitor all SSM/M events.

**Recordkeeping:**

(1) **Compliance Method**

(a) Each month records shall be kept of the cumulative total of all VOC emissions related to SSM/M during the first 12 months and, thereafter of the monthly rolling 12-month total of SSM/M VOC emissions. Any malfunction emissions that have been reported in a final excess emissions report per 20.2.7.110.A(2) NMAC, shall be excluded from this total.

(b) Records shall also be kept of the inlet gas analysis, the weight percent VOC of the gas based on the most recent gas analysis, and of the volume of total gas vented in MMscf used to calculate the VOC emissions.

(c) The permittee shall identify the equipment or activity and shall describe the event that is the source of emissions.

(2) **Emissions included Under Permit Limit or Reported as Excess Emissions**

The permittee shall record whether emissions are included under the emission limit for SSM/M in table 107.A or if the event is included in a final excess emissions report per 20.2.7.110.A(2) NMAC.

(3) **Condition B109 Records**

The permittee shall keep records in accordance with Condition B109 of this permit except for the following:

(a) The requirement to record the start and end times of SSM/M events shall not apply to venting of known quantities of VOCs as long as the emissions do not exceed the SSM/M emission limit.

(b) The requirement to record a description of the cause of the event shall not apply to SSM/M events as long as the emissions do not exceed the SSM/M emission limit.

**Reporting:** The permittee shall report in accordance with Section B110.

Condition A202.B – Targa would like to request the ability to utilize Targa-specific procedures when manufacturer recommendations are not available. Please refer to the table in Section 3 of this application for unit ID cross-reference.

B. Control Requirements and Operation (Units 1-EP-3, 2a-EP-3, 3-EP-3, 4-EP-3, 5-EP-1e, and 6-EP-1e)

**Requirement:** The permittee shall meet the control requirements in Table 105 to demonstrate compliance with the allowable VOC emission limits in Table 106.A.

At all times dehydrator emissions shall be controlled as follows.

(1) Still vent emissions shall be routed to a condenser and then routed to a thermal oxidizer for combustion.

(2) Flash tank emissions shall be routed to a process point that allows the off-gas to be recycled and recompressed, and not vented to the atmosphere.

(3) At no time shall still vent or flash tank emissions be vented directly to the atmosphere except as allowed by Section 107.

**Monitoring:** The permittee shall inspect the glycol dehydrator and the control equipment semi-annually to ensure it is operating as initially designed and in accordance with the manufacturer's recommended

| |
|---|
| procedures or owner/operator procedures. The permittee shall also inspect that the reboiler is operating as initially designed and in accordance with the manufacturer's recommended procedures or the owner/operator procedures. |
| **Recordkeeping:** The permittee shall record the inspection and the results of all equipment and control device inspections chronologically, noting any maintenance or repairs needed to bring the dehydrator into compliance. The permittee shall maintain a copy of the manufacturer's maintenance recommendations or the owner/operator maintenance recommendations. |

Condition A208.E – Targa would like to request the ability to utilize Targa-specific procedures when manufacturer recommendations are not available. Please refer to the table in Section 3 of this application for unit ID cross-reference.

1) Control Requirement for Flares (EP-9 controlling units 2-T and2-Load, and EP-13 controlling units 4-T, and 4-Load)

| |
|---|
| **Requirement:**<br>The permittee shall ensure that all emissions from the Tanks and loadout are routed to a flare as required by Table 105.<br>At no time shall emissions be vented directly to the atmosphere except as authorized by Section A107. |
| **Monitoring:** The permittee shall inspect the tanks and the control equipment semi-annually to ensure they are operating in accordance with the manufacturer's recommended operating and maintenance procedures or owner/operator operating and maintenance procedure. The permittee shall inspect the control device during condensate stabilization system downtime to ensure that it is operating as designed. |
| **Recordkeeping:**<br>The permittee shall record the results of all equipment and control device inspections chronologically, noting any maintenance or repairs needed to bring the tanks into compliance. The permittee shall maintain a copy of the manufacturer's or owner/operator maintenance recommendations. |
| **Reporting:** The permittee shall report in accordance with Section B110. |

**Red Hills Gas Processing Plant Toxics Analysis**

According to 20.2.72.203.A(3), *"[…] all information, including all calculations and computations, to describe the specific chemical and physical nature and to estimate the maximum quantities of any regulated air contaminants the source will emit through routine operations after construction, modification or installation is completed, and estimate maximum potential emissions during malfunction, startup, shutdown"* must be included with an application. With respect to a toxic air pollutant as defined by Subsection H of 20.2.72.401 NMAC, this requirement only applies when the toxic air pollutant is emitted in such a manner that a permit is required under the provisions of 20.2.72.400 NMAC - 20.2.72.499 NMAC. Calculations and computations for toxic air pollutants are included in this section. No toxic air pollutant, as defined in 20.2.72.401 NMAC, is emitted in a quantity exceeding the screening threshold established in 20.2.72.502 Table A nor in Table B.

An analysis was completed for toxic air pollutants at the Red Hills. The following pollutants were evaluated: octane, nonane, cyclohexane, dichlorobenzene, barium, cadmium, chromium, cobalt, copper, manganese, molybdenum, nickel, selenium, vanadium, zinc, and antimony. Hexane was conservatively assumed to be cyclohexane throughout the analysis, if not present as an individually analyzed constituent.

Per 20.2.72.502 Table C, "*Sources may choose to use a correction factor for the release height of emissions for the purpose of determining whether a permit is necessary for the emission of a toxic air pollutant. To apply the correction go to the table below and find the minimum height of release for the toxic air pollutant and select the correction factor (CF) which corresponds to that figure. If the height of release is between two values, the lower number shall be selected; or in the event of multiple releases of the same substance from different release heights, the source may choose to use a weighted average CF, weighted by the emission rate at each. The emissions in pounds per hour is then multiplied by the CF (see below). If the emissions from your source exceed the resulting number, you must apply for a permit from the department. Remember, this must be done for each toxic air pollutant*."

This weighted correction factor was applied to octane, nonane, and cyclohexane and an adjusted Toxic Air Pollutant (TAPs) threshold for each pollutant was developed. Based on this adjustment, there are no toxic air pollutants in excess of the screening thresholds.

The weighted average correction factors were identified as follows: Octane = 11.05, Nonane = 3.09, and Cyclohexane =32.67.

Please see a sample calculation for cyclohexane's correction factor below:

Weighted Average Correction Factor = SUM [Correction Factor of each stack * cyclohexane emission rate] / SUM (Cyclohexane emission rate) = [(41*7.82 lb/hr)+(152*3.43 lb/hr)+(71*0.13 lb/hr)+(19*10.77 lb/hr)+(19*126.95 lb/hr)+(1*9.89E-04 lb/hr)+(5*0.94 lb/hr)+(1*0.32 lb/hr)+(1*0.53 lb/hr)+(1*6.52 lb/hr)+(1*0.90 lb/hr)+(1*0.70 lb/hr)] / 32.96 lb/hr = 32.67

TAPs Threshold (Cyclohexane) = 70 lb/hr * 32.67 = 2287.00 lb/hr.

# Section 22: Certification

Company Name: Targa Northern Delaware, LLC

I, Andrew Perdue, hereby certify that the information and data submitted in this application are true and as accurate as possible, to the best of my knowledge and professional expertise and experience.

Signed this 5th day of March, 2026, upon my oath or affirmation, before a notary of the State of Colorado.

*Signature

Date: 3/5/2026

Andrew Perdue
Printed Name

Vice President of Operations
Title

Scribed and sworn before me on this 5 day of March, 2026.

My authorization as a notary of the State of Colorado expires on the 21 day of July, 2029.

Notary's Signature

Date: 3/5/2026

Joshua Hulling
Notary's Printed Name

JOSHUA HULLING
Notary Public
State of Colorado
Notary ID: 20254027667
My Commission Expires July 21, 2029

*For Title V applications, the signature must be of the Responsible Official as defined in 20.2.70.7.AE NMAC.

# STATE AND PSD AIR QUALITY IMPACTS ASSESSMENT PROTOCOL

## Red Hills Gas Processing Plant

**Targa Northern Delaware LLC**

**Prepared By:**

**TRINITY CONSULTANTS**
9400 Holly Ave NE
Bldg3, Suite B
Albuquerque, NM 87122
505.266.6611

April 2025

Trinity Project No: 233201.0054

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# 1. EXECUTIVE SUMMARY

Targa Resources LLC, dba Targa Northern Delaware LLC, (Targa) operates the Red Hills Gas Processing Plant (Red Hills) at 1934 W NM Highway 128, Jal, 88252, Lea County, New Mexico under Construction Permit 4310-M6 and Title V Operating Permit P278-M1. This Modeling Protocol presents the regulatory framework and proposed model options and inputs that will be utilized for the Red Hills permitting project.

It is expected that Red Hills will be subject to Prevention of Significant Deterioration (PSD) review for ozone, nitrogen dioxide ($NO_2$), carbon monoxide (CO), sulfur dioxide ($SO_2$), particulate matter ($PM_{2.5/10}$), and hydrogen sulfide ($H_2S$). Since emissions at Red Hills are estimated to exceed the Significant Emission Rate (SER) for nitrogen oxides ($NO_X$) and $SO_2$, an assessment of secondary $PM_{2.5}$ formation will be performed. Targa will also perform state-level impact assessments for hydrogen sulfide ($H_2S$) and particulate matter ($PM_{2.5/10}$). Targa has prepared emission calculations that demonstrate that a 20.2.72 NMAC toxics modeling analysis is not required. This demonstration will be included with the narrative in the PSD application.

Targa has retained Trinity Consultants (Trinity) to perform the modeling analyses that will serve as the basis for the impact assessments. This modeling protocol defines the regulatory framework and technical methods that will be used for the following analyses:

- An air quality impact analysis (AQIA) that demonstrates that Red Hills emissions, in conjunction with background concentrations and neighboring sources as applicable[1], will not cause or contribute to a violation of applicable New Mexico and National Ambient Air Quality Standards (NMAAQS and NAAQS) or Class II PSD increments.[2]
- An Additional Impacts Analysis for growth, visibility impairment, and soils and vegetation analyses as required by the PSD regulations.
- A Class I impact assessment will be done in accordance with guidance and additional consultation from the applicable Federal Land Managers of Class I areas. This assessment will include initial screening significant impact analyses (SIL). For pollutants that may exceed a SIL, refined Class I increment analyses will be performed.
- A Q/D analysis for all Class I areas within 300 kilometers (km) of Red Hills and refined Air Quality Related Values analyses (see Section 7) for Q/D results that may exceed the threshold level determined by Federal Land Managers (FLM). The FLMs will be consulted to determine the requirements of additional analyses should a refined analysis be needed.

The AQIA will be conducted in accordance with guidance provided by the United States Environmental Protection Agency (EPA) and New Mexico Environmental Department (NMED) as prescribed in the following:

- Guideline on Air Quality Models (published as 40 CFR 51, Appendix W; hereafter referred to as the Modeling Guideline);[3]

[1] Code of Federal Regulations, Title 40 – Protection of Environment, Part 51, Appendix W, Section 8.3. January 17, 2017.

[2] If facility-only impacts from the Red Hills plant do not exceed the significant impact level (SIL) for a pollutant and averaging period, the facility will not cause or contribute to a NMAAQS, NAAQS, and PSD increment violation, as applicable to that pollutant and averaging period.

[3] Code of Federal Regulations, Title 40 – Protection of Environment, Part 51, Appendix W, January 17, 2017.

- Guidance on the Development of Modeled Emission Rates for Precursors (MERPs) as a Tier 1 Demonstration Tool for Ozone and $PM_{2.5}$ under the PSD permitting Program and Clarification on the Development of Modeled Emission Rates for Precursors (MERPs) as a Tier 1 Demonstration Tool for Ozone and $PM_{2.5}$ under the PSD Permitting Program;[4]
- NMED Air Dispersion Modeling Guidelines;[5]
- Federal Land Managers AQRV Workgroup (FLAG) Phase I Report (FLAG 2010);[6] and
- Interagency Work Group on Air Quality Modeling (IWAQM) Phase 2.[7]

Trinity will use the current dispersion models and methods described in the above-mentioned documents to perform the modeling analyses. Details regarding these methods are in this modeling protocol.

[4] Guidance on the Development of MERPs as a Tier 1 Demonstration Tool for Ozone and $PM_{2.5}$ under the PSD Permitting Program. EPA-454-R-19-003. April 2019

[5] NMED Air Dispersion Modeling Guidelines (Revised June 2024) at https://www.env.nm.gov/air-quality/modeling-publications/

[6] Federal Land Managers' Air Quality Related Values Work Group (FLAG) Phase I Report—Revised (2010). October 2010.

[7] Interagency Workgroup on Air Quality Modeling (IWAQM) Phase 2 Summary Report and Recommendations for Modeling Long Range Transport Impacts. EPA-454/R-98-019. December 1998.

# 2. RED HILLS GAS PROCESSING PLANT OVERVIEW

## 2.1 Plant Description

Red Hills processes field natural gas in several trains. Each train includes an amine system to remove acid gas, glycol-based dehydrators to remove water, and further processing to remove C2+ hydrocarbons from the inlet gas stream.

Separators and slug catchers separate free hydrocarbon liquids and water present in the inlet pipeline gas stream. The resulting condensate is trucked out or sent to pipeline sales.

C2 to C5 hydrocarbons are removed by a propane refrigeration and compression system including an overhead stabilization system to increase the plant efficiency for natural has liquid (NGL) production from the treated inlet gas stream. NGL are stored in pressurized tanks before transport offsite via pipeline sales.

Plant startup, shutdown, maintenance, and upset conditions are either controlled by control devices on site or vented.

Red Hills operates various sources of regulated emissions. Tables with stack parameters, short-term emissions, and long-term emissions for point sources, volume sources, and area sources are presented in Appendix A of this protocol. The emission rates and stack parameters in these tables may be updated in the final permit application and modeling report.

## 2.2 Plant Location and Surrounding Area

Red Hills is located approximately 37 km west-northwest of Jal, Lea County, New Mexico at north latitude 32°12'38" and west longitude 103°31'26" and alternately, in Section 13, Range 33E and Township 24S, Universal Transverse Mercator (UTM) Zone 13 North American Datum 1983 (NAD83). An aerial image of the plant (Figure 2-1) and a wider view of the plant location (Figure 2-2) were obtained from Google Earth.

Lea County is designated by the EPA as "unclassifiable" and/or "attainment" for all criteria pollutants.[8]

The distance from the perimeter of the Area of operations at Red Hills to the nearest occupied residence or structure, or school is greater than 1.6 km (1 mile).

The Class I areas within 300 km of Red Hills are Carlsbad Caverns National Park (~80 km W-WSW), Guadalupe Mountains National Park (~115 km WSW), Salt Creek Wildlife Area (~170 km NNW), White Mountain Wilderness (~275 km WNW), and Big Bend National Park (~280 km SSE). The closest exterior boundary of the Bosque del Apache Wildlife Refuge is ~350 km from the Red Hills. The applicable Class I areas are shown in Figure 2-3. Except for Big Bend National Park, the exterior boundaries of the Class I areas are fully within the 300 km distance from the Red Hills. The portion of the exterior boundary of Big Bend National Park within 300 km distance of the Red Hills is shown in Figure 2-4.

[8] 40 CFR §81.351 and New Mexico Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants | Green Book | US EPA

**Figure 2-1 Red Hills Gas Processing Plant Aerial Photograph**

Google Earth, image produced 04/08/2025



**Figure 2-2 Red Hills Gas Processing Plant Location**

Google Earth, image produced 12/05/2024

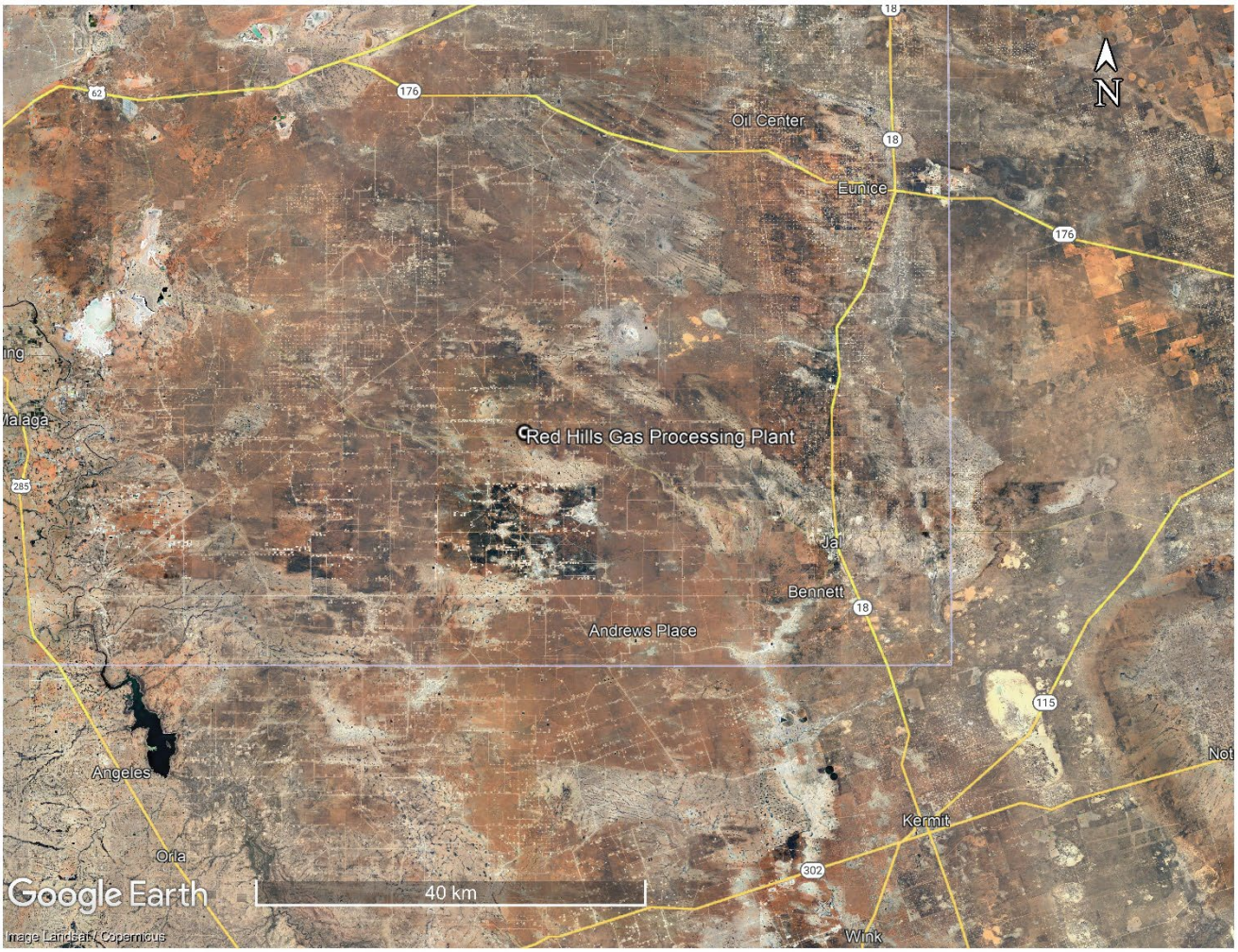


**Figure 2-3 PSD Class I Areas Within 300 km of Red Hills Gas Processing Plant**

Google Earth, image produced 12/05/2024

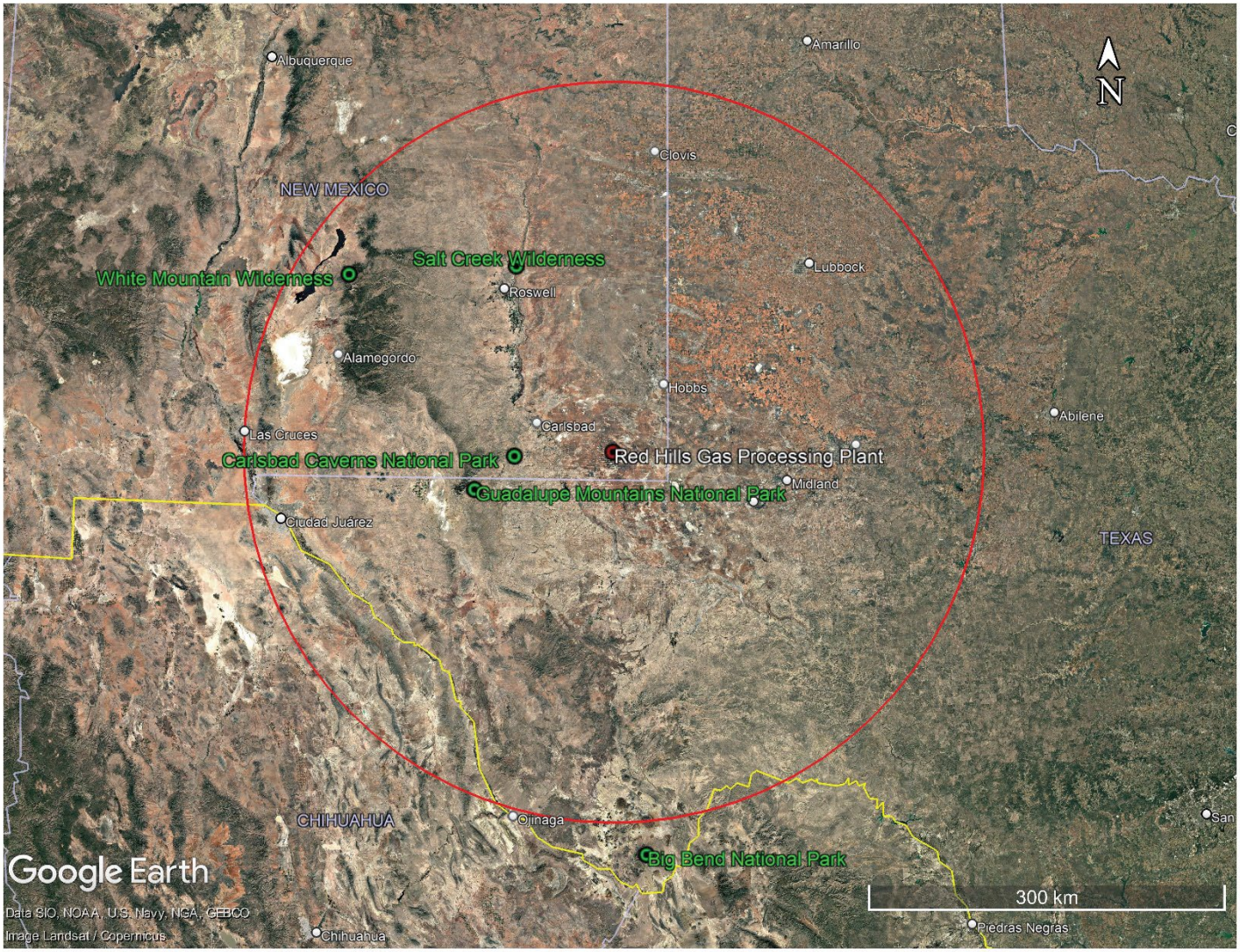
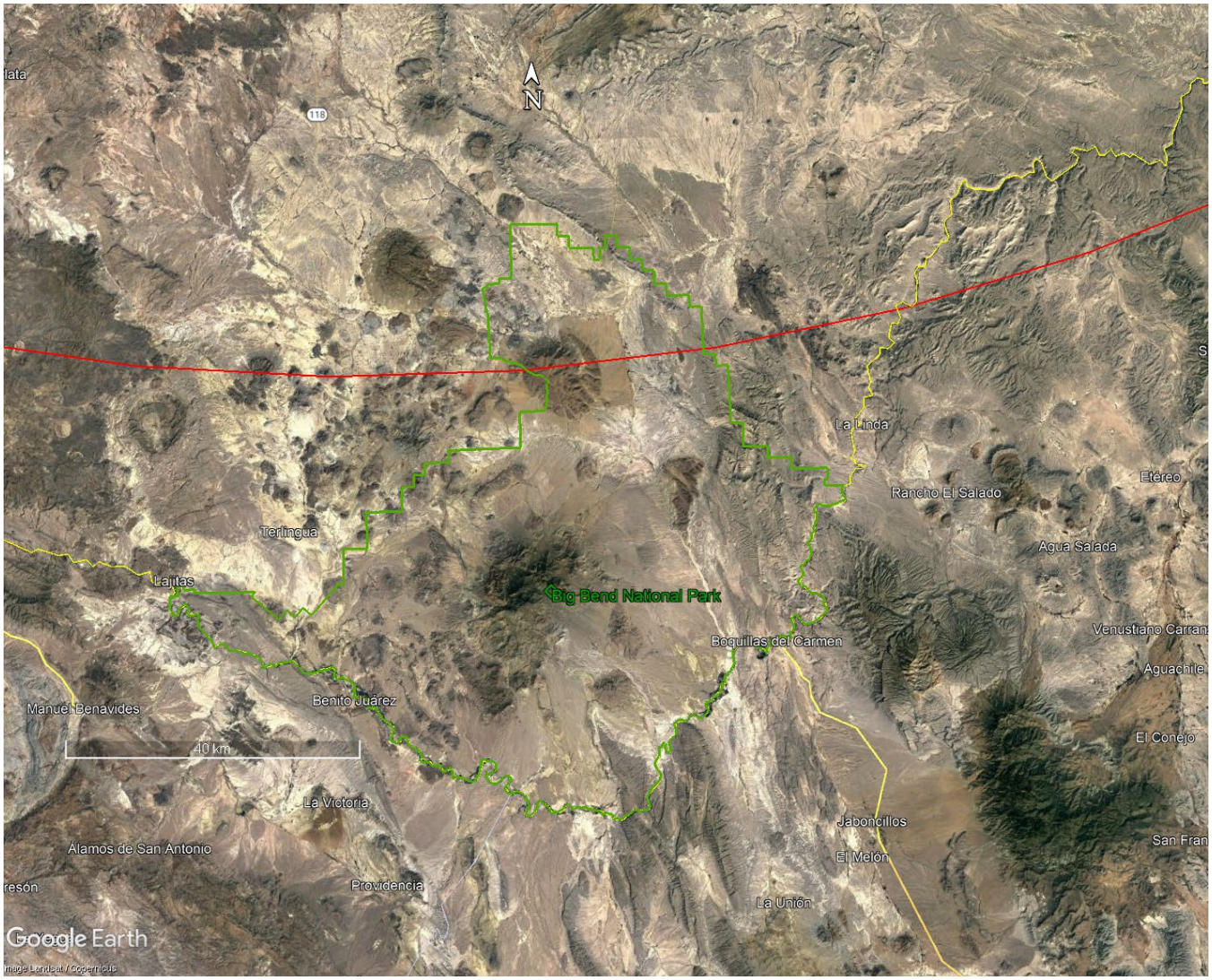


**Figure 2-4 Exterior Boundary of Big Bend National Park Within 300 km of Red Hills Gas Processing Plant**



# 3. SOURCE CHARACTERIZATION

The following sections provide details associated with characterizing the emission sources for purposes of air dispersion modeling. A list of sources and associated parameters are provided in Appendix A. Stack parameters that are revised in the final modeling report and permit application will be highlighted in those submittals.

## 3.1 Point Sources

Emissions that enter the atmosphere through a stack will be modeled as point sources. Stack parameters for point sources (height above grade, exhaust temperature and velocity, and inside stack diameter) can be found in Appendix A.

## 3.2 Flares

Emissions from flares will be modeled as point sources using the velocity, temperature, and effective stack diameter prescribed in the NMED Modeling Guidelines.[9]

To properly simulate flaring events, Trinity proposes to adjust the release height of flare emissions above the physical flare height to reflect the enhanced buoyancy generated by the combusted gas heat release rate. Equation (2) in Section 2.1.2 of EPA's AERSCREEN procedures will be used to calculate the effective release height.[10] Application of the effective release height is commonly used to simulate both flare pilot emissions and flared gas events at major stationary sources in other Western U.S. states[11,12,13,14] and conforms with EPA's AERSCREEN flare screening procedures. The modeled effective release height for the flares will not exceed the Good Engineering Practice (GEP) stack height discussed in Section 4.6.

## 3.3 Area Sources

Fugitive $H_2S$ emissions from components will be modeled as area sources. The area source type and dimensions will follow NMED Modeling Guidelines[15] and will be provided in the modeling report and can be found in 8.5Appendix A.

[9] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Section 5.2.3.

[10] AERSCREEN User's Guide, Section 2.1.2 (Flares). EPA-454/B-21-005. April 2021.

[11] Air Quality Modeling Guidelines for Arizona Air Quality Permits, Section 3.3.6 (Flares). Arizona Department of Environmental Quality. November 2019.

[12] ADEC Modeling Review Procedures Manual, Section 2.7.2.4 (Flares). Alaska Department of Environmental Conservation. October 2018.

[13] https://www.tceq.texas.gov/assets/public/permitting/air/memos/flareparameters.pdf, Page 3.

[14] https://www.epa.gov/sites/default/files/2016-03/documents/wy-rec-r2.pdf, Section 2.5.1.4 (AERMOD Hourly Emission File Development)

[15] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Section 5.3.4.

## 3.4 Volume Sources – Roads

Haul roads will be modeled as two lanes to allow for two-way traffic. The road segments will be characterized as volume sources following EPA's haul road guidance.[16] The road modeling will be performed using adjacent volume sources with inputs as shown below. The road and haul truck dimensions will be representative of vehicle traffic at the facility.

- Volume width = road width in meters (m) + 6 m
- Volume height = 1.7 x average vehicle height in meters
- Number of volume sources = road segment length / volume width
- Initial lateral dimension of the volume ($\sigma_{yo}$) = volume horizontal dimension / 2.15
- Initial vertical dimension of the volume ($\sigma_{zo}$) = volume height / 2.15
- Release height = volume height / 2
- Emission rate per volume source = total emission rate / number of volume sources

Haul roads sources may be separated into segments specific to the type of vehicular traffic. Emissions will be allocated to each road source segment based on the number of volume sources needed to represent a specific road segment and the total emissions for the traffic on the segments.

[16] EPA memorandum from T. Fox to Regional Office Modeling Contacts, *Haul Road Workgroup Final Report Submission to EPA-OAQPS*. March 2, 2012.

# 4. CLASS II MODELING PROCEDURES

## 4.1 Model Selection

Trinity will utilize the current version of the US EPAAERMOD modeling system to estimate off-site impacts. AERMOD is appropriate for use in modeling multi-source emissions, and accounts for plume downwash, stack tip downwash, and point, area, and volume sources.[17, 18]

Current versions of the AERMOD model and preprocessors[19] are:

- AERMAP Version 24142
- AERMOD Version 24142
- BPIPPRM Version 04274

All model input/output files and supporting data used in the modeling analysis will be provided electronically to NMED and represented in the modeling report. The latest version of these models will be utilized in the event of an update from EPA following submittal of this Protocol.

## 4.2 Model Input Options

Model input options will be set to EPA regulatory default values. Steady state emission rates for all averaging periods will be modeled using the maximum short-term emission rate allowed in the Red Hills permit application.[20] Startup, shutdown, and maintenance (SSM) emission rates will be modeled as shown in Appendix A, using point sources and scenarios separate from steady state impacts to demonstrate compliance with standards. Short-term emissions for limited-hour sources (e.g., backup power generator engines) will be modeled at the maximum short-term emission rate for deterministic standards ($PM_{10}$, CO) and at annualized emission rates based on the EPA guidance[21] for probabilistic standards ($NO_2$, $SO_2$). Although $PM_{2.5}$ is a probabilistic standard, short-term emissions for limited-hour sources will be modeled at the maximum short-term emission rate.

[17] User's Guide for the AMS/EPA Regulatory Model - AERMOD (EPA-454/B-23-008). Office of Air Quality Planning and Standards. October 2023.

[18] Code of Federal Regulations, Title 40 – Protection of Environment, Part 51, Appendix W, January 17, 2017.

[19] NMED provides pre-processed meteorological data [Resource Space (resourcespaceapp.azurewebsites.net)]. The data are available from NMED and were processed with AERMET Version 19191. Use of the current version of AERMET (Version 24142) is not expected to produce appreciably different dispersion meteorological conditions for this application. Therefore, the meteorological preprocessors AERSURFACE, AERMINUTE, and AERMET will not be used in this application. See Section 4.7 for a discussion of the proposed meteorological data.

[20] See Appendix A, Table 2-E, excerpted from the Title V renewal application, June 2023.

[21] Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1 hour $NO_2$, National Ambient Air Quality Standard. Memorandum from Tyler Fox (Leader, Air Quality Modeling Group). March 1, 2011. (Note that this guidance also applies to the 1-hour $SO_2$ NAAQS).

## 4.3 Alternate Operating Scenarios

For units with alternative operating scenarios occurring at the same emission point, such as the flares at the facility, the maximum scenario will be used for the modeling demonstration. The alternative operating scenarios will be detailed Section 15 of the application package submittal.

For alternative operating scenarios that occur at different emission points, all scenarios will be modeled in the significant impact analysis and the scenario that results in the most significant impact will be used to demonstrate compliance through a cumulative analysis.

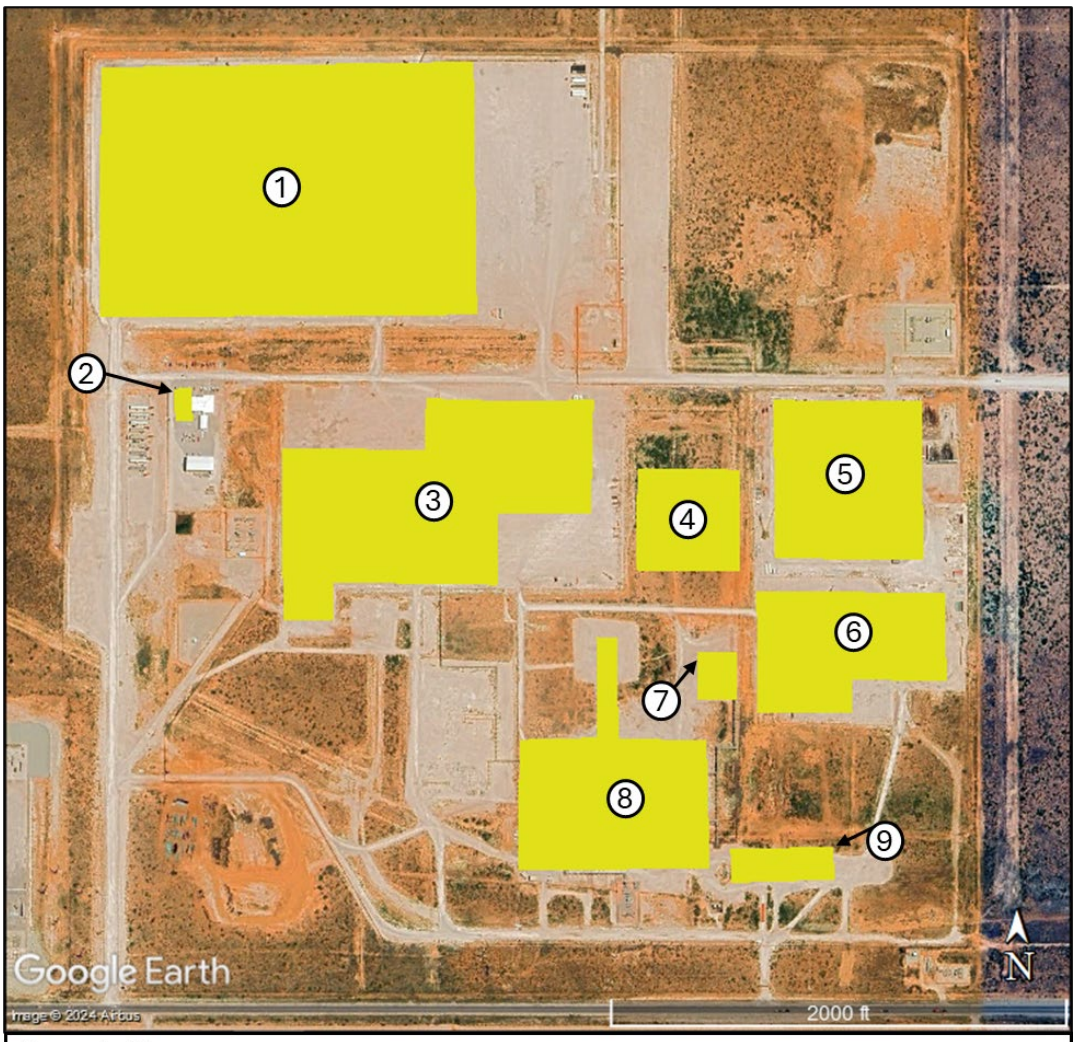
The most significant alternative operating scenario revolves around the flares that operate on the acid gas trains. Three scenarios exist: RHA-FL-5100 operating independently, RA2-FL-25100 operating independently, and RHA-FL-5100 and RA2-FL-25100 operating simultaneously. Details regarding the limitation of these scenarios and their associated emission rates will be provided in detail in the application and modeling report submitted to the NMED. Preliminary emissions associated with the scenarios are presented in Appendix A.

## 4.4 Portable Sources

Targa operates numerous portable diesel-fired generators and one heater trailer to support various activities throughout the facility that require additional power or heat. Targa seeks flexibility to relocate the generators and heater trailer within the Generator Zones, as outlined in Figure 4-1, with exact zone boundaries provided in Table 4-1. The generators and heater trailer will be modeled at various locations at the boundary of the operational areas at a spacing of 10 meters apart, closest to ambient air to determine the locations with a maximum impact. Since the same meteorological data will be used for the modeling of all pollutants for this facility, it is assumed that the location of worst impact will be identical for the generators. Therefore, it is assumed that the generator location modeling will appropriately determine the location of the worst-case impact for the units. These locations will be used for all significant impact and cumulative impact modeling. Portable and temporary sources will not be modeled for PSD Increment, according to the notes to Table 21 of the NMED Modeling Guidelines[22].

[22] [22] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Section 2.7.1, Table 21.

**Figure 4-1 Generator Zone Boundaries**




**Generator Zones**

| | | | | | |
|---|---|---|---|---|---|
| 1. | RH North Plant | 4. | RH AGI Well #3 | 7. | RH1 Bullet Tank |
| 2. | RH CCR/Warehouse | 5. | RH AGI-2 Plant | 8. | RH1 Plant |
| 3. | RH2/3 Plant | 6. | RH AGI-1 Plant | 9. | RH1 Condensate Tank Farm |

**Table 4-1 Generator Zone Boundaries**

| Generator Zone ID | Modeled Locations | |
|---|---|---|
| | UTM Easting (m) | UTM Northing (m) |
| RH North Plant | 638536.69 | 3565975.04 |
| | 639033.48 | 3565989.04 |
| | 639042.22 | 3565647.61 |
| | 638536.40 | 3565635.81 |
| RH CCR/Warehouse | 638638.79 | 3565544.90 |
| | 638663.39 | 3565545.22 |
| | 638663.52 | 3565500.25 |
| | 638640.45 | 3565499.97 |
| RH2/3 Plant | 638784.57 | 3565464.99 |
| | 638974.89 | 3565466.66 |
| | 638975.78 | 3565535.52 |
| | 639197.95 | 3565534.73 |
| | 639198.10 | 3565384.42 |
| | 639074.06 | 3565381.83 |
| | 639073.41 | 3565286.93 |
| | 638854.13 | 3565284.93 |
| | 638855.10 | 3565235.53 |
| | 638788.24 | 3565234.05 |
| RH AGI Well #3 | 639259.83 | 3565444.24 |
| | 639395.68 | 3565446.79 |
| | 639396.70 | 3565308.70 |
| | 639261.94 | 3565308.29 |
| RH AGI-2 Plant | 639440.71 | 3565538.82 |
| | 639636.86 | 3565541.52 |
| | 639641.79 | 3565325.64 |
| | 639443.83 | 3565327.60 |
| RH AGI-1 Plant | 639421.23 | 3565283.62 |
| | 639671.37 | 3565285.96 |
| | 639673.98 | 3565166.52 |
| | 639549.20 | 3565164.92 |
| | 639550.76 | 3565121.62 |
| | 639422.56 | 3565120.23 |
| RH1 Bullet Tank | 639344.06 | 3565198.24 |
| | 639395.09 | 3565200.84 |
| | 639395.92 | 3565135.37 |
| | 639342.91 | 3565135.74 |
| RH1 Plant | 639107.19 | 3565078.67 |
| | 639210.78 | 3565080.97 |
| | 639207.95 | 3565218.82 |
| | 639233.86 | 3565219.21 |
| | 639235.68 | 3565083.18 |
| | 639356.95 | 3565084.68 |
| | 639359.38 | 3564907.95 |
| | 639104.42 | 3564906.15 |
| RH1 Condensate Tank Farm | 639389.68 | 3564938.03 |
| | 639528.63 | 3564941.55 |
| | 639529.26 | 3564895.35 |
| | 639391.34 | 3564891.01 |

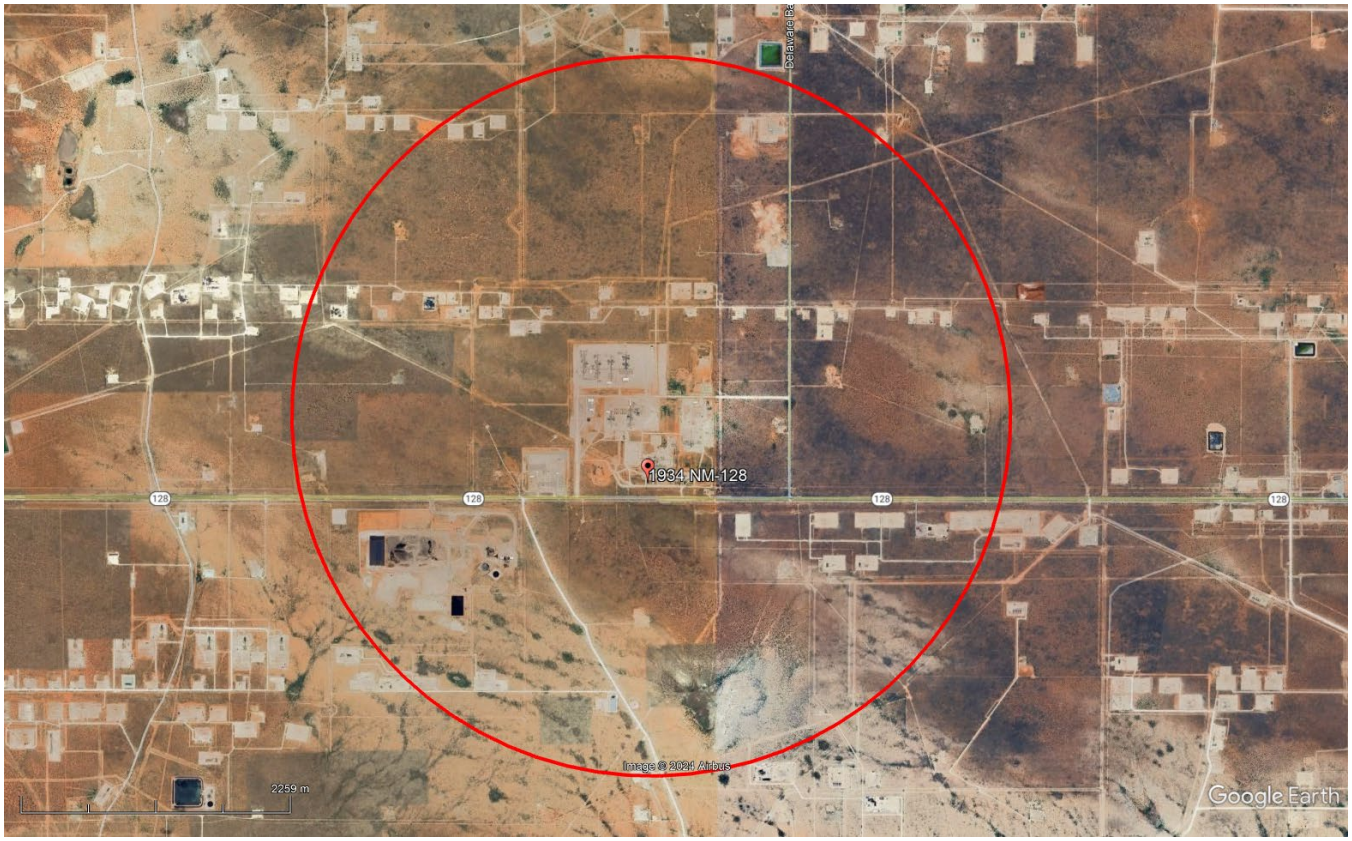
## 4.5 Land Use Classification

A qualitative Auer land-use analysis, as described in Section 7.2.1.1(b)(i) of the Modeling Guideline was performed to determine the appropriate dispersion coefficients used by the AERMOD model. The qualitative land use analysis was performed using aerial imagery from Google Earth.

Figure 4-2 presents an aerial image of the area around the Red Hills plant. The red circle shown represents a 3-km radius circle out from the site.

If more than 50% of the area within a 3 km radius of the Red Hills is classified as land use types I1, I2, C1, R2, or R3 [heavy industrial, light/moderate industrial, commercial, compact residential (single family), or compact residential (multi-family), respectively], the URBANOPT keyword in AERMOD with appropriate inputs will be used. As shown in the image, the large majority of the land use is undeveloped and as such, rural dispersion coefficients will be used in AERMOD.

**Figure 4-2 Area Surrounding the Red Hills Plant**




## 4.6 Plume Downwash

The Red Hills point emission sources will be evaluated for proximity to nearby structures to determine if the stack discharge might become caught in the structures' turbulent wakes. Wind blowing around a building creates zones of turbulence that are greater than if the building was absent. AERMOD incorporates the Plume Rise Model Enhancements (PRIME) algorithms for estimating enhanced plume growth and restricted plume rise for plumes affected by building wakes.

EPA has promulgated stack height regulations that restrict the use of stack heights in excess of GEP in air dispersion modeling analyses. Under these regulations, that portion of a stack in excess of the GEP height is generally not creditable when modeling to determine source impacts. This essentially prevents the use of excessively tall stacks to reduce the ground-level pollutant concentrations. Trinity will ensure that no stacks are represented as exceeding GEP height described in EPA's GEP Technical Support document.[23]

Direction-specific building dimensions and the dominant downwash structure parameters used as inputs to AERMOD bill be determined using the *BREEZE®* BPIP software, developed by Trinity, which incorporates the current version of EPA's Building Profile Input Program for PRIME (BPIPPRM) building downwash processor.

[23] Guideline for Determination of Good Engineering Practice Stack Height (Technical Support Document for the Stack Height Regulations). EPA-450/4-80-023R.

The BPIPPRM processor is designed to incorporate the concepts and procedures expressed in the GEP Technical Support document[24] and other related documents. The site elevation was determined from digital elevation data.

The output from the BPIPPRM downwash analysis lists the names and dimensions of the structures generating wake effects and the locations and heights of the affected point sources. In addition, the output contains a summary of the dominant structure for each emission unit (considering all wind directions) and the actual building height and projected widths for all wind directions. This information will be input to the AERMOD air dispersion model for each point source.

A simplified plot plan of the facility showing the locations of all proposed structures and emission units used in the plume downwash calculations, including structure dimensions and heights, will be provided in the modeling report. Structures with greater than 50% permeability will be excluded from the downwash analysis.

## 4.7 Meteorological Data

Hourly meteorological data used for air quality modeling must be spatially and climatologically representative of the area of interest. The Modeling Guideline requires at least one year of site-specific meteorological data or five years from the most recent, readily available data collected at a representative National Weather Service (NWS) station[25].

Site-specific meteorological data is not available for the immediate Red Hills area. The NMED provides processed meteorological data suitable for direct input to AERMOD.[26] Five years of AERMOD-ready meteorological data collected at Hobbs, New Mexico for the period 2017 through 2021 are proposed for this application. A composite 5-year wind rose is shown in Figure 4-3.

When updates to the Modeling Guideline were promulgated in 2017, EPA adopted the use of ADJ_U* as a regulatory option when using NWS airport meteorological data, site-specific meteorological data without turbulence parameters, or prognostic meteorological data. Utilizing ADJ_U* in data processing for meteorological data without turbulence parameters is recommended to address model overprediction issues during light wind, stable conditions. The NMED invoked the ADJ_U* option in the AERMET[27] processing of the Hobbs meteorological dataset. The surface station elevation is 1,108.2 m.

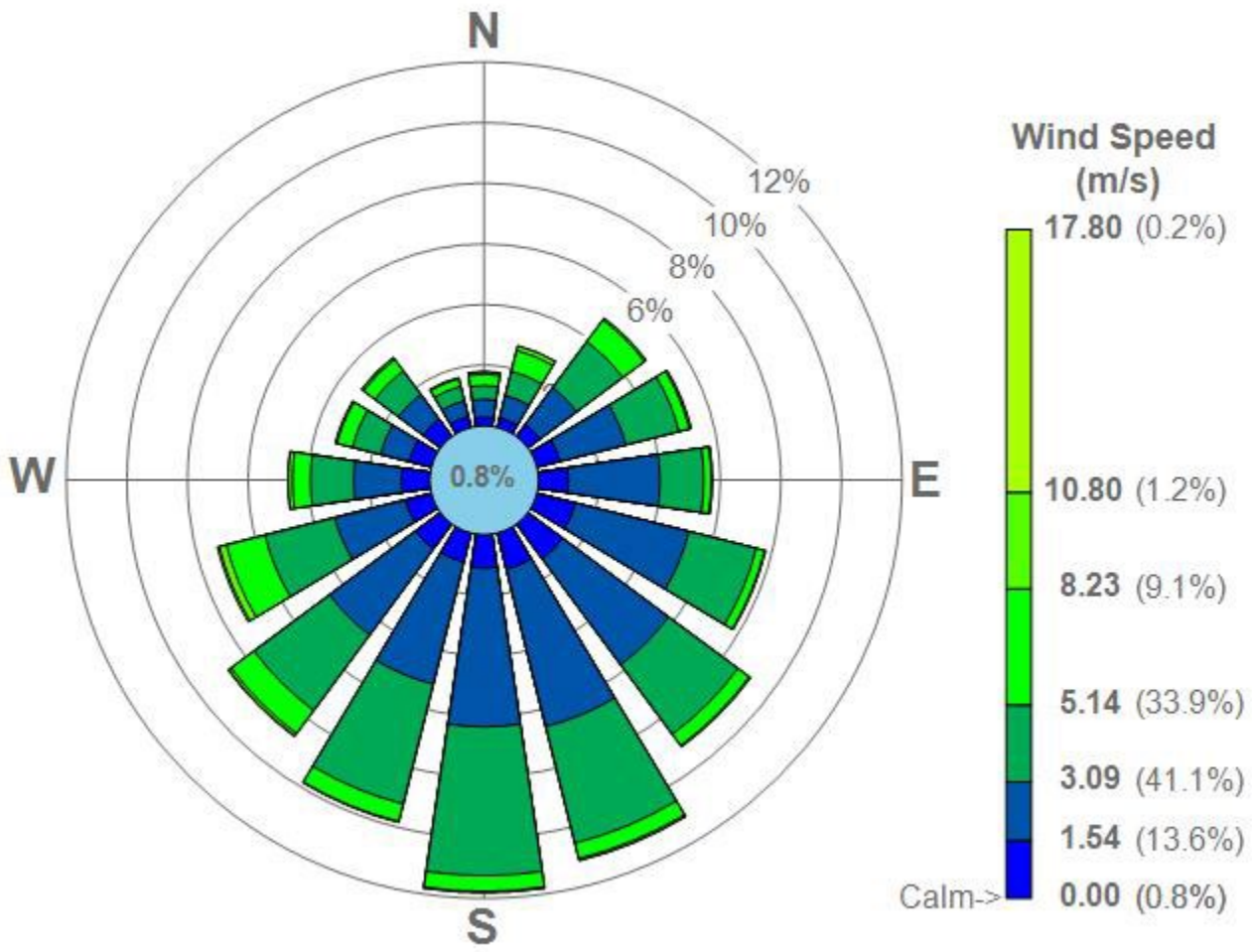
[24] Guideline for Determination of Good Engineering Practice Stack Height (Technical Support Document for the Stack Height Regulations). EPA-450/4-80-023R.

[25] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Section 4.3.1.

[26] Meteorological data available for download from Resource Space (resourcespaceapp.azurewebsites.net).

[27] The NMED processed the meteorological with AERMET Version 19191. Use of the current version of AERMET (Version 23132) is not expected to produce appreciably different dispersion meteorological conditions for this application.

**Figure 4-3 Hobbs, New Mexico Wind Rose**




## 4.8 Ambient Air Boundary

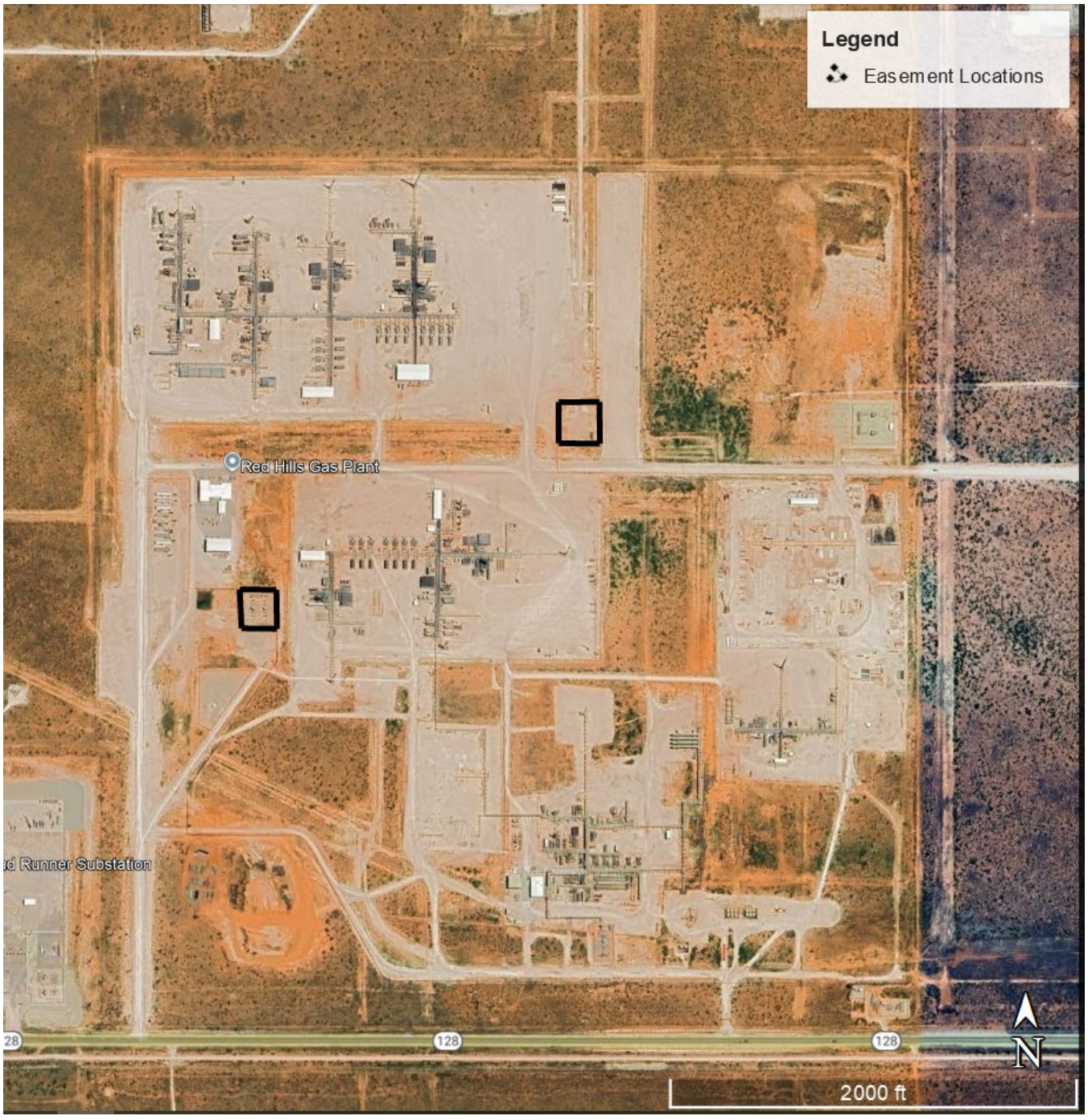
According to the NMED modeling guidelines, "ambient air" is defined as that portion of the atmosphere, external to buildings, to which the general public has access. The atmosphere over land owned or controlled by a facility may be excluded from ambient air where the facility employs measures, which may include physical barriers, that are effective in precluding access to the land by the general public. [28]

Within the facility boundaries of Red Hills, there are two separate areas that other companies have unrestricted access to. For this reason, onsite receptors are included within these two areas as denoted with yellow plus signs in Figure 4-4. The modeling report will include an image showing the land owned and controlled by Targa that constitutes the ambient air boundary used in the AQIA.

[28] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Section 4.6.2.

**Figure 4-4 Red Hills Gas Processing Plant Easement Locations**

Google Earth, image produced 04/08/2025



## 4.9 Receptor Network and Terrain Elevations

Cartesian receptor grids centered on the facility will be defined using UTM Zone 13 NAD83 coordinates. For purposes of air dispersion modeling, the NAD83 spatial reference system is equivalent to WGS84.[29] Several receptor grids of varying resolution will be defined for the Class II significant impact analysis following recommendations in NMED's modeling guidance.

The Class II significant impact analysis grids will consist of a set of nested receptors placed at:

- 25-m resolution at the two onsite easements.
- 25-m resolution along the ambient air boundary.
- 100-m resolution extending to approximately 500 m from the ambient air boundary
- 500-m resolution starting at 500 m and extending to approximately 5 km from the ambient air boundary.
- 1,000-m resolution starting at 5 km and extending to approximately 20 km from the ambient air boundary.
- 1,250-m resolution starting at 20 km and extending to approximately 50 km from the ambient air boundary.

For pollutants and averaging periods where modeled concentrations are greater than the applicable SIL and thus triggering cumulative impact analyses (see Section 5.2), only the receptors with modeled impacts greater than or equal to the SIL and will be modeled for the significant pollutant and averaging period.

If maximum cumulative impacts greater than or equal to 75 percent of the applicable standard are predicted at receptors located in the 100-m, 500-m or 1,000-m grids, supplemental receptors will be generated at 50-m spacing to identify the overall maximum impact. The refined grids will be large enough to include adjacent receptors in all directions (200 m square in the 100-m interval portion of the grid, 1,000 m square in the 500-meter interval portion of the grid, and 2,000 m square in the 1,000-meter interval portion of the grid). Figures showing the receptor grids will be included in the modeling report.

Receptor elevations will be obtained using the EPA's AERMAP terrain processor. The digital elevation dataset provided as input to AERMAP will be USGS National Elevation Data (NED) at 1/3 arc second resolution, which is equivalent to approximately 10 m.

In addition to receptor elevations, AERMAP will provide the hill height scale required for each receptor. The hill height scale supplies the computational algorithms with an indication of the relative relief within the modeling domain for the determination of the critical dividing streamline height for each hour of meteorological data. AERMOD computes the impact at a receptor as a weighted interpolation between horizontal and terrain-following conditions using a critical dividing streamline approach. This scheme assumes that part of the plume mass would have enough energy to ascend and traverse over a terrain feature and the remainder would impinge and traverse around a terrain feature under certain meteorological conditions. The hill height scale is computed by the AERMAP terrain preprocessor for each receptor as a measure of the one terrain feature in the modeling domain that would have the greatest effect on plume behavior at that receptor.

According to EPA guidance, the elevation array and domain boundary for AERMAP must include all terrain features that exceed a 10 percent elevation slope from any given receptor in order to properly calculate the hill height scale at each receptor. The domain for the hill height analysis will be set to at least the minimum required for proper handling of elevation slope.

[29] AERMAP User's Guide (EPA-454/B-18-004), Section 2.1.

## 4.10 Nearby Source Inventory

For pollutants and averaging periods that have impacts that exceed a SIL, cumulative modeling will be required to demonstrate compliance with the NMAAQS, NAAQS, and PSD increments, as applicable. In accordance with NMED's Modeling Guidance,[30] explicitly modeled nearby sources are required for $H_2S$, $PM_{10}$, $PM_{2.5}$, and $SO_2$. For CO, $NO_2$, and $SO_2$ (other than the 1-hour averaging period for NMAAQS, NAAQS, and increment, as applicable), an applicant may choose to explicitly model nearby sources within certain distances of the facility or add monitored background concentrations to facility-only modeled impacts for NMAAQS and NAAQS compliance demonstrations. For PSD increment analyses, while NMED provides the option to use monitored background concentrations, explicitly modeling nearby increment consumers and expanders may be preferred. Table 4-2 below summarizes the averaging periods to be modeled, NMED's guidance on the use of nearby sources and background, if nearby sources or background or both will be used for the facility's modeling, and the modeled concentration. Note that this may change during the course of the development of the application.

An inventory of all pollutants from surrounding sources will be obtained from NMED. Trinity will evaluate the inventory and will communicate with NMED on the choice of whether to explicitly model nearby sources or use monitored background concentrations for CO, $NO_2$, and $SO_2$ cumulative impact assessments. For pollutants that explicitly model nearby sources, the retention distance from the Red Hills Facility will follow Section 4.8.1.1 of NMED's Modeling Guidelines. The NMED-provided inventory will be used as applicable and any adjustments to source parameters will be documented in the modeling report and made per the guidance in Section 4.8.1.3 of NMED'S Modeling Guidelines.[31] Nearby source UTM coordinates will be preserved as provided by NMED unless errors are identified. If elevation data is provided, that data will be used in the model once verified. Per NMED Modeling Guidelines,[32] nearby sources for which elevation data is not provided, elevations will be calculated using AERMAP. Preliminary source inventories are included for $PM_{10}$ in Appendix B, for $PM_{2.5}$ in Appendix C, for $H_2S$ in Appendix D, and for $SO_2$ in Appendix E.

[30] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Table 20.

[31] NMED Air Dispersion Modeling Guidelines (Revised June 2024).

[32] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Section 4.5.2.

**Table 4-2 Nearby Sources and Background Determination**

| Averaging Period | NMED Guidance on Nearby Sources and Background | Nearby Sources or Background? | Modeled Concentration |
|---|---|---|---|
| CO 8-hour NMAAQs | Choose One (Both if near city) | Background | High 8 hour |
| CO 1-hour NMAAQs | Choose One (Both if near city) | Background | High 1 hour |
| $H_2S$ 1-hour or ½-hour NMAAQs | Model Nearby Sources | Nearby Sources | High 1 hour |
| $NO_2$ annual NMAAQs | Choose one (Both if near city) | Background | Annual average |
| $NO_2$ Annual PSD increment | Choose One | Background | Annual Average |
| $NO_2$ 1-hour NAAQs | Choose one (Both if near city) | Background | 98$^{th}$-percentile 1 hour |
| $PM_{2.5}$ annual NAAQs | Both | Nearby Sources and Background | Annual average |
| $PM_{2.5}$ annual PSD increment | Choose one | Nearby Sources | Annual average |
| $PM_{2.5}$ 24-hour NAAQS | Both | Nearby Sources and Background | 98$^{th}$-percentile 24 hour |
| $PM_{2.5}$ 24-hour PSD increment | Choose one | Nearby Sources | High second high 24 hour |
| $PM_{10}$ annual PSD increment | Choose one | Nearby Sources | Annual average |
| $PM_{10}$ 24-hour NAAQs | Both | Nearby Sources and Background | High second high 24 hour |
| $PM_{10}$ 24-hour PSD increment | Choose one | Nearby Sources | High second high 24 hour |
| $SO_2$ annual PSD increment | Choose one | Nearby Sources | Annual average |
| $SO_2$ 24-hour PSD increment | Choose one | Nearby Sources | High second high 24 hour |
| $SO_2$ 3-hour PSD increment | Choose one | Nearby Sources | High second high 3 hour |
| $SO_2$ 1-hour NAAQs | Choose one (Both if near city. Model nearby sources without adding background in Permian Basin) | Nearby Sources | 99$^{th}$ -percentile 1 hour |

The below sections detail adjustment to surrounding source parameters that have been identified as of the time of this protocol submittal. Additional refinements may be made during the course of the application development. If any additional changes are made, details will be included in the modeling report.

### 4.10.1 Surrounding Source AI # 40063

Surrounding source AI # 40063, with AQB source ID #40063@1, is the Roswell Ready Mix Company's Concrete Batch Plant which operates under GCP-5 #9285. $PM_{10}$ and $PM_{2.5}$ emission rates were based off 95 tpy (21.69 lb/hr) total suspended particulate (TSP) from the GCP-5 permit for Concrete Batch plants. No emission calculations were submitted with the last permitting action. Since TSP is larger than both $PM_{10}$ and $PM_{2.5}$, the 21.69 lb/hr emission rates were ratioed based on particle size multiplier constants taken from AP-42 Chapter 13.2.4 for Aggregate Handling and Storage Piles. The new values are: 10.26 lb/hr $PM_{10}$ and 1.55 lb/hr $PM_{2.5}$. Calculations are included in Appendix F for reference. The GCP-5 permit has been included for reference in Appendix G and the most recent publicly available permit application for GCP-5 #9285 is included for reference in Appendix H. AP-42 Chapter 13.2.4 is included for reference in Appendix I. Additionally, the facility's public notice notes that the facility operates during daylight hours only; therefore, the facility's emissions have been limited to 6am to 8pm. The facility public notice is included for reference in Appendix J.

### 4.10.2 Surrounding Source AI # 38504

Surrounding source AI #38504, with AQB source IDs 38504A1, 38504E3, 38504E5, 38504E6, 38504E7, 38504E36, and 38504E27, is Matador Production Company's Leo Thorsness Facility which operates under GCP-O&G #7899. Annual haul road emissions were adjusted based on the permitted tpy for $PM_{2.5}$. The tpy value was averaged over the course of the year to determine a long-term annualized emission rate in a lb/hr unit basis. Additionally, numerous unit emission rates for $PM_{2.5}$ were adjusted based on their actual operating hours per day and per year as provided in the surrounding source file, as retrieved from NMED's MergeMaster tool. Table 4-3 below summarizes the adjustments made. Permit GCP-O&G #7899 is included for reference in Appendix K and calculations are included in Appendix F.

**Table 4-3 AI # 38504 Adjusted Emission Rates**

| AQB Source ID | Unit ID | As Provided $PM_{2.5}$ Emission Rate | Daily Operating Hours | Annual Operating Hours | $PM_{2.5}$ Short-Term Emission Rate | $PM_{2.5}$ Long-Term Emission Rate |
|---|---|---|---|---|---|---|
| | | g/s | Hrs/day | Hrs/year | g/s | g/s |
| 38504A1[1] | HR-1 | 0.01386 | -- | 8760 | 0.01386 | 0.0023 |
| 38504E3 | ENG-5 | 0.00126 | -- | 8760 | 0.00126 | 0.00126 |
| 38504E5 | GEN-1 | 0.00504 | 3 | 1067 | 0.00063 | 0.000614 |
| 38504E6 | HT-1 | 0.00058 | -- | 8760 | 0.00058 | 0.00058 |
| 38504E7 | HT-2 | 0.00058 | 17 | 6192 | 0.00041 | 0.00041 |
| 38504E26[2] | ENG-2 | 0.00252 | 0 | 0 | 0.00252 | 0.00252 |
| 38504E27 | ENG-6 | 0.00252 | 11 | 3888 | 0.0012 | 0.0012 |

[1] Haul road emissions for unit HR-1 were adjusted for annualized rates based on the permitted tpy rate of 0.08 tpy for $PM_{2.5}$.

[2] Unit ENG-2 was conservatively assumed to operate 8760 hrs/yr instead of utilizing the provided hrs/yr in the surrounding source file.

### 4.10.3 Surrounding Source AI # 40140

Surrounding source AI #40140, with AQB source ID 40140A1, is Devon's Broadside 12 Facility 2, which operates under NOI #9357. The MergeMaster Source Retrieval tool provides only short-term emission rates. Annual haul road emissions were adjusted based on the tpy for $PM_{2.5}$ provided in the most recent NOI application. The tpy value was averaged over the course of the year to determine a long-term annualized emission rate in a lb/hr unit basis. Table 4-2 below summarizes the adjustments made. NOI #9357 is included for reference in Appendix L. Calculations are included in Appendix F.

**Table 4-4 AI # 40140 Adjusted Emission Rates**

| AQB Source ID | Unit ID | As Provided $PM_{2.5}$ Emission Rate | Daily Operating Hours | Annual Operating Hours | $PM_{2.5}$ Short-Term Emission Rate | $PM_{2.5}$ Long-Term Emission Rate |
|---|---|---|---|---|---|---|
| | | g/s | Hrs/day | Hrs/year | g/s | g/s |
| 40140A1[1] | ROAD-1 | 0.02772 | -- | 8760 | 0.02772 | 0.0011 |

[1] Haul road emissions for unit HR-1 were adjusted for annualized rates based on the NOI represented tpy rate of 0.038 tpy for $PM_{2.5}$.

### 4.10.4 Surrounding Source AI # 39913

Surrounding source AI #39913, with AQB source IDs 39913A1, 39913E2, and 39913E4, is Devon's Broadside 12 Facility 1, which operates under NOI #9134. The MergeMaster Source Retrieval tool provides only short-term emission rates. Annual haul road emissions were adjusted based on the tpy for $PM_{2.5}$ provided in the most recent NOI application. The tpy value was averaged over the course of the year to determine a long-term annualized emission rate in a lb/hr unit basis. The table below summarizes the adjustments made. NOI #9357 is included for reference in 0.

**Table 4-5 AI # 39913 Adjusted Emission Rates**

| AQB Source ID | Unit ID | As Provided $PM_{2.5}$ Emission Rate | Daily Operating Hours | Annual Operating Hours | $PM_{2.5}$ Short-Term Emission Rate | $PM_{2.5}$ Long-Term Emission Rate |
|---|---|---|---|---|---|---|
| | | g/s | Hrs/day | Hrs/year | g/s | g/s |
| 39913A1[1] | ROAD-1 | 0.02772 | -- | 8760 | 0.02772 | 0.0011 |

[1] Haul road emissions for unit HR-1 were adjusted for annualized rates based on the NOI represented tpy rate of 0.038 tpy for $PM_{2.5}$.

## 4.11 Background Concentrations

The portion of the background air quality that accounts for Other Sources as defined in Modeling Guideline, Section 8.3.1.(ii) [i.e., emission sources other than those that would be explicitly modeled under Section 8.3.1.(i) of the Modeling Guideline], must be characterized by ambient monitoring data. Other Sources are defined as the portion of the background attributable to natural sources, other unidentified sources in the vicinity of the Red Hills, and regional transport contributions from more distant sources (domestic and international). Table 4-6 provides the design values that will be used in the cumulative NMAAQS and NAAQS analyses for those pollutants and averaging periods that exceed the respective SIL. If refined background concentrations are used or if elimination of double-counting of emissions is performed, the methods provided in the NMED'S Modeling Guidelines will be employed.[33]

[33] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Section 4.4.1.4.

**Table 4-6 Proposed Background Air Quality Concentrations**

| Station/ AQS ID | Pollutant [a] | Averaging Period | Monitored Design Value ($\mu g/m^{3u}$) | NMAAQS/ NAAQS [b] ($\mu g/m^3$) |
|---|---|---|---|---|
| 5ZS Hobbs Jefferson/ 35-025-0008 | $NO_2$ | 1-Hour [c] | 58.3 | 188.03 |
| | | Annual [d] | 9.4 | 94.02 |
| El Paso Chamizal/ 48-141-0044 | CO | 1-Hour [e] | 4,577 | 14,997.5 |
| | | 8-Hour [e] | 3,433 | 9,960.1 |
| 5ZS Hobbs Jefferson/ 35-025-0008 | Ozone | 8-Hour [f] | 0.071 ppm | 0.070 ppm |
| Douglas Red Cross/ 04-003-1005 | $PM_{10}$ | 24-Hour [e] | 124 | 150 |
| 5ZS Hobbs Jefferson/ 35-025-0008 | $PM_{2.5}$ | 24-Hour [g] | 20 | 35 |
| | | Annual [h] | 6.6 | 9 |

a. Per NMED Air Dispersion Modeling Guidelines (Revised June 2024), Section 2.6.8.2, Red Hills and surrounding sources will be explicitly modeled and background $SO_2$ concentrations will not be added to the modeled impacts. Therefore, background $SO_2$ concentrations are not shown in this table. Both explicitly modeled nearby sources and background concentrations will be used in the $PM_{2.5}$ and $PM_{10}$ NMAAQS/NAAQS analyses. $NO_2$ and CO concentrations are provided for reference and cumulative NMAAQS/NAAQS analyses for these pollutants may only use explicitly modeled nearby sources.
b. The more stringent of the NMAAQS and NAAQS is shown in this table.
c. 98th percentile of 1-hour daily maximum concentrations, averaged over the 3-year period 2021-2023. Compliance with the 1-hour $NO_2$ NAAQS demonstrates compliance with the 24-hour NMAAQS.[34]
d. Maximum annual mean during the 3-year period 2021-2023.
e. 2nd highest concentration during the 3-year period 2021-2023.
f. 4th highest daily maximum 8-hour concentration, averaged over the 3-year period 2021-2023.
g. 98th percentile of the 24-hour average concentrations, averaged over the 3-year period 2021-2023.
h. Weighted annual mean concentration, averaged over the 3-year period 2021-2023.

## 4.12 Estimating $NO_2$ Impacts

Some forms of emitted $NO_X$ [i.e., nitrogen oxide (NO)] react with other atmospheric constituents (ozone) to form $NO_2$. These reactions are complex and depend on factors such as mixing of ambient air into the plume, individual reaction rates, and the concentration of specific reactants in the atmosphere. Regulatory dispersion models such as AERMOD are designed to model impacts of non-reactive pollutants, but there are various supplemental modeling techniques that can be used to estimate ambient $NO_2$ impacts.

The Modeling Guideline presents a three-tiered approach that may be applied to modeling $NO_2$ impacts. The three tiers are:

- Tier 1: assume full conversion of NO to $NO_2$ (i.e., assume that all $NO_X$ is emitted as $NO_2$).
- Tier 2: multiply the Tier 1 result by the Ambient Ratio Method 2 (ARM2), which provides estimates of representative equilibrium ratios of $NO_2/NO_X$ value based ambient levels of $NO_2$ and $NO_X$ derived from national data from the EPA's AQS.

[34] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Section 2.6.4.1.

- Tier 3: the ozone limiting method (OLM) or plume volume molar ratio method (PVMRM) as a detailed screening technique.

If Tier 3 methods are used, hourly and seasonal ozone and $NO_2$ background concentration data will be obtained from the NMED. In-stack ratios (ISR) of $NO_2/NO_X$ may be used for certain sources. The proposed ISRs may be obtained from the EPA's ISR database[35] or other data sources and will be provided to NMED for review and approval prior to use. At the time of submittal of this protocol, Tier 3 methods are not expected to be used for the modeling for this facility.

## 4.13 Secondary Pollutant Formation

Ozone and $PM_{2.5}$ are regulated pollutants under the Federal PSD program. Because the Red Hills site is a PSD source of the ozone precursors $NO_X$ and VOC and a source of direct $PM_{2.5}$ emissions and the $PM_{2.5}$ precursors $NO_X$ and $SO_2$, an air quality impact analysis is required for ozone and $PM_{2.5}$.

Secondary ozone and $PM_{2.5}$ formation resulting from facility emissions of $NO_X$ and VOC, and $NO_X$ and $SO_2$, respectively, will be evaluated using the methodology provided in EPA's Modeled Emission Rates for Precursors (MERPs) guidance[36] and guidance for ozone and fine particulate matter permit modeling.[37] Secondary formation of ozone and $PM_{2.5}$ from the Red Hills can be estimated using the following equation from the MERPs Guidance, Equation 2:

$$Facility\ Impact\ \left(\frac{\mu g}{m^3}\right) = Facility\ Emission\ Rate\ (tpy) \times \frac{Hypothetical\ Source\ Modeled\ Impact\ \left(\frac{\mu g}{m^3}\right)}{Hypothetical\ Source\ Emission\ Rate\ (tpy)}$$

The equivalent equation will be used to calculate secondary impacts resulting from each precursor and then summed for the total secondary contribution to ozone and $PM_{2.5}$ impacts. The modeled impacts from hypothetical sources can be obtained from the EPA MERPs View Qlik website.[38] The MERPs View Qlik website provides illustrative hypothetical single source modeled impacts for annual maximum daily 8-hour ozone, and daily maximum and annual average $PM_{2.5}$ for source locations across the United States based on various levels of precursor emissions (VOC, $NO_X$, and $SO_2$, as applicable) and stack heights.

Trinity reviewed the available hypothetical sources in the Qlik database and found that the nearest hypothetical source in New Mexico is in Otero County. MERP values are available for 500, 1,000, and 3,000 tons per year (tpy) of precursor emissions and 10 meter (m) and 90 m stack heights. Based on the preliminary Red Hills potential to emit, and range of stack heights, the modeled impacts associated with 500 tpy of precursor emissions from a 10 m stack will be used for this analysis. Table 4-7 provides the output from the MERPs View Qlik database for Otero County.

[35] Nitrogen Dioxide/Nitrogen Oxide In-Stack Ratio (ISR) Database | US EPA

[36] Guidance on the Development of Modeled Emission Rates for Precursors (MERPs) as a Tier 1 Demonstration Tool for Ozone and $PM_{2.5}$ under the PSD Permitting Program. Memorandum from Richard A. Weyland (Air Quality Assessment Division). April 30, 2019.

[37] EPA memorandum from C. Wayland and S. Mathias to EPA regional air division directors. July 29, 2022.

[38] https://www.epa.gov/scram/merps-view-qlik.

**Table 4-7 Closest Hypothetical MERP Source**

| Metric | Precursor | Emissions (tpy) | Stack Height (m) | Maximum Modeled Concentration ($\mu g/m^3$) |
|---|---|---|---|---|
| 24-Hour $PM_{2.5}$ | $NO_X$ | 500 | 10 | 0.006181 |
| 24-Hour $PM_{2.5}$ | $SO_2$ | 500 | 10 | 0.036081 |
| Annual $PM_{2.5}$ | $NO_X$ | 500 | 10 | 0.000284 |
| Annual $PM_{2.5}$ | $SO_2$ | 500 | 10 | 0.001754 |
| 8-Hour Ozone | $NO_X$ | 500 | 10 | 1.209116 |
| 8-Hour Ozone | VOC | 500 | 10 | 0.006089 |

The 2019 MERPs guidance states that the representativeness of a hypothetical source should be based on the chemical and physical environment (e.g., meteorology, background pollutant concentrations, and regional/local emissions and the following criteria:

- Proximity
- Terrain and Land Use
- Climate
- Regional Sources of Pollutants
- Background Pollutant Concentrations

If the predicted ozone formation from Red Hills precursor emissions is below the SIL value of 1 ppb, no further ozone analysis will conducted. If an ozone analysis is required, the proposed methods will be submitted as an addendum to this modeling protocol.

The predicted concentrations of secondarily formed $PM_{2.5}$ will be added to the AERMOD modeled impacts.

# 5. CLASS II MODELING ANALYSIS

## 5.1 Significant Impact Analysis

Significant impact analyses will be conducted to determine whether ambient air quality impacts on a pollutant-by-pollutant basis exceed the applicable Significant Impact Level (SIL) and require additional analysis. The significant impact analysis will include all facility emission units using the source characterizations discussed in Section 3, modeling methods in Section 4, the Cartesian receptor grids described in Section 4.9, and proposed emission rates presented in the permit application. The modeled significance impacts will be compared to the Class II SILs in Table 5-1.

**Table 5-1 Class II Significant Impact Levels for Air Quality Standards and PSD Increments**

| Pollutant | Averaging Period | SIL [a] ($\mu g/m^3$) |
|---|---|---|
| CO | 8-hour | 500 |
| | 1-hour | 2,000 |
| $NO_2$ [b] | Annual | 1.0 |
| | 24-hour | 5.0 |
| | 1-hour | 7.52 |
| Ozone [c] | 8-hour | 1.96 |
| $PM_{2.5}$ [d] | Annual | 0.13 |
| | 24-hour | 1.2 |
| $PM_{10}$ | Annual | 1.0 |
| | 24-hour | 5.0 |
| $SO_2$ | Annual | 1.0 |
| | 24-hour | 5.0 |
| | 3-hour | 25.0 |
| | 1-hour | 7.8 |

[a] All SIL analyses will compare the highest-first-high (H1H) modeled concentration to the applicable SIL.[39]

[b] The NMAAQS 24-hr averaging period compliance is demonstrated with compliance with the 1-hr averaging period.

[c] See Section 4.13.

[d] The annual $PM_{2.5}$ SIL was updated by EPA on 4/30/2024.[40] $PM_{2.5}$ modeled impacts will be the sum of direct secondarily formed $PM_{2.5}$ predicted by AERMOD for the 24-hour and annual averaging periods. Section 4.13 discusses the secondary $PM_{2.5}$ formation calculations.

[39] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Table 18

[40] Memo from R. Wayland (EPA Director of the Air Quality Assessment Division) to EPA Regional Air Division Directors titled: *Supplement to the Guidance on Significant Impact Levels for Ozone and Fine Particles in the Prevention of Significant Deterioration Permitting Program*. April 30, 2024.

Results will be reported for the maximum SIL impact for each pollutant and averaging period.

## 5.2 Cumulative Impact Analysis

### 5.2.1 New Mexico and National Ambient Air Quality Standards Analysis

A cumulative impact analysis will be performed for each pollutant and averaging period that exceeds the applicable SIL. Per modeling guidance, the cumulative impact modeling will be performed only for those receptors where the significant impact level is exceeded on a pollutant and averaging period basis. Compliance with the NMAAQS and NAAQS will be based on the total estimated air quality concentrations, which are the sum of the following:

- Red Hills emission sources;
- Modeled emissions from nearby sources described in Section 4.10; and
- Background pollutant concentrations described in Section 4.94.11.

The total estimated air quality concentrations will be compared to the NMAAQS and NAAQS shown in Table 5-2. Figures will be provided showing the maximum impact location for each pollutant and averaging period.

### 5.2.2 PSD Increment Analysis

A PSD increment is the maximum allowable increase in ambient concentrations allowed to occur above a baseline concentration for each applicable pollutant and averaging period. For PSD increment analyses, NMED allows two options: (1) Use monitored background concentrations or (2) model the facility and nearby increment consumers and expanders. If option 2 is used, the applicable Class II SIL is shown in Table 5-1. Class II PSD increment standards are shown in Table 5-2. All sources at Red Hills are considered increment consumers. The choice of option for each averaging period is outlined in Table 4-2. Surrounding source inventories are included in Appendix B, Appendix C, Appendix D, and Appendix E.

## Table 5-2 Air Quality Standards and Class II PSD Increments

| Pollutant | Averaging Period | NAAQS (µg/m³) | NMAAQS (µg/m³)[a] | Class II PSD Increment (µg/m³) | Design Value / Notes |
|---|---|---|---|---|---|
| $H_2S$ | ½-hour | -- | 139.3 | -- | Model the 1-hr averaging time. Include entire facility and nearby sources. No background concentration is added. |
| $SO_2$ | 1-hour | 196.4 | -- | -- | 3-year average of the 99th-percentile of the annual distribution of daily maximum 1-hour concentrations (H4H). Compliance with 1-hr average demonstrates compliance with all other NAAQS and NMAAQS averaging periods. |
| | 3-hour | -- | -- | 512 | Increment: H2H average |
| | 24-hour | -- | 261.9 | 91 | Increment: H2H average |
| | Annual | 26 | 52.4 | 20 | Annual average, averaged over 3 years |
| $PM_{2.5}$ [b] | 24-hour | 35 | -- | 9 | 98th percentile of the combined concentrations from all sources (H8H) |
| | Annual | 9 | -- | 4 | Annual average |
| $PM_{10}$ | 24-hour | 150 | -- | 30 | H2H and single year of representative met data or H4H with multi-year analysis. |
| | Annual | -- | -- | 17 | Annual average |
| $NO_x$ | 1-hour | 188.03 *(100 ppb)* | 188.03 *(100 ppb)* | -- | 3-year average of the 98th-percentile of the annual distribution of daily maximum 1-hour concentrations (H8H) |
| | Annual | 99.66 | 94.02 | 25 | Model entire facility and add annual background concentration or model entire facility and nearby sources. |
| CO | 1-hour | 40,069.6 | 14,997.5 | -- | NAAQS not to be exceeded more than once per year. NMAAQS not to be exceeded. Compliance with NMAAQS demonstrates compliance with NAAQS. |
| | 8-hour | 10,303.6 | 9,960.1 | -- | |
| Ozone | 8-hour | 137.3 (70 ppb) | -- | -- | Demonstrate compliance using MERPs method. |

# 6. ADDITIONAL IMPACTS

The PSD additional impacts analyses depend on existing air quality, the quantity of proposed emissions, and the sensitivity of local soils and vegetation in the Red Hills impact area. Additional impacts that will be reviewed for the pollutants subject to PSD review are:

- Growth analysis;
- Soils and vegetation analysis; and
- Visibility impairment analysis.

## 6.1 Growth Analysis

A growth analysis consists of a projection of the associated industrial, commercial, and residential growth that is likely to occur in the area due to the facility, and an estimate of the emissions generated by that associated growth. This analysis will be included in the modeling report.

## 6.2 Soil and Vegetation Analysis

Pursuant to the requirements in 40 CFR 52.21(o), an analysis of impacts to soils and vegetation of significant commercial or recreational value as a result of operating the Red Hills must be performed.

The EPA developed the secondary NAAQS in order to protect soil and vegetation air quality-related values that were not sufficiently protected by the primary NAAQS. The secondary NAAQS represent ambient air concentrations below which most types of soils and vegetation are unaffected by criteria pollutants. If predicted ambient air concentrations are found to be less than the secondary NAAQS, it is presumed that emissions from the Red Hills do not result in harmful effects to either soil or vegetation and no further soil or vegetation analysis will be performed.[41]

## 6.3 Visibility Impairment Analysis

Per NMED guidance, a Class II visibility analysis is required to evaluate if facility emissions may have an impact on Class II area visibility. Trinity will utilize the EPA VISCREEN model following the guidelines published in the *Workbook for Plume Visual Impact Screening and Analysis* [42] to assess potential plume impairment of visibility. The VISCREEN model is designed to determine whether a plume from a facility may be visible from a given vantage point. To comply with the visibility requirements per Additional Impact Analysis (NMAC 20.2.74.304), Trinity will follow the guidance in the Modeling Guidelines Section 7.6.3.[43]

[41] EPA New Source Review Workshop Manual (Draft 1990) Section II.C.
[42] Environmental Protection Agency, Workbook for Plume Visual Impact Screening and Analysis (Revised), EPA-454/R-92-023, 1992.

[43] NMED Air Dispersion Modeling Guidelines (Revised June 2024) Section 7.6.3.

# 7. PRELIMINARY CLASS I MODELING PROCEDURES AND ANALYSES

The NMED has requested that Targa demonstrate a passing Class II model prior to engaging with the appropriate Federal Land Manager (FLMs) to obtain their input on appropriate Air Quality Related Values (AQRVs). Therefore, this section of the Protocol is preliminary and will be revised and finalized once the FLMs have provided the AQRVs for those Class I Areas subject to further review.

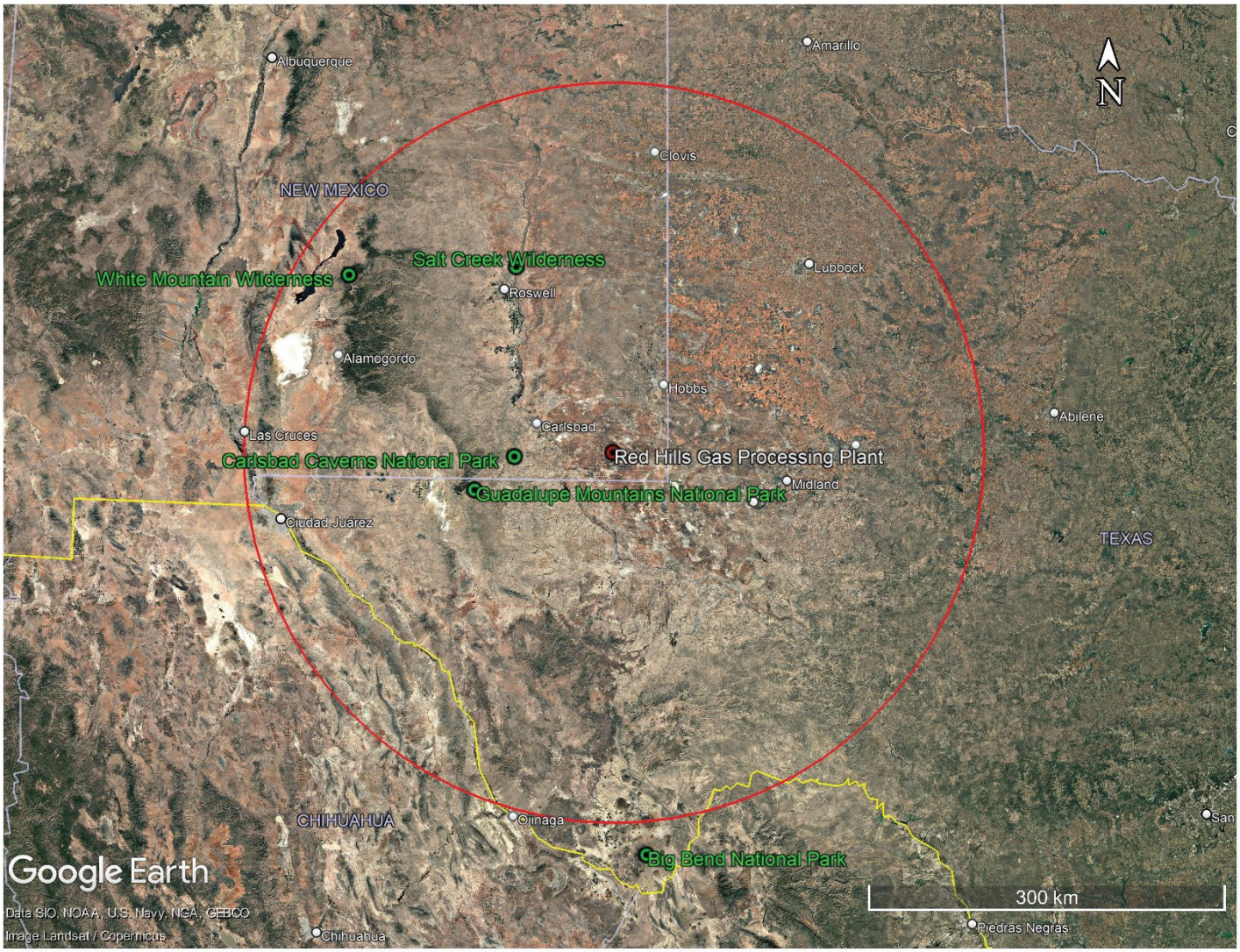
There are no Class I areas within 50 km of Red Hills. The Class I areas within 300 km of Red Hills are Carlsbad Caverns National Park (~80 km W-WSW), Guadalupe Mountains National Park (~115 km WSW), Salt Creek Wildlife Area (~170 km NNW), White Mountain Wilderness (~275 km WNW), and Big Bend National Park (~280 km SSE). These Class I areas are shown in Figure 7-1. With the exception of Big Bend National Park, the exterior boundaries of the Class I areas are fully within the 300 km distance from the Red Hills.

## 7.1 Initial Screening Analyses

Trinity proposes to conduct initial screening analyses of the potential air quality impacts at Class I areas within 300 km of the Red Hills. The following sections present the initial screening analysis procedures and analyses that will be performed. If additional analysis is required, Targa will submit a specific Class I Area modeling protocol.

**Figure 7-1 PSD Class I Areas Within 300 km of Red Hills Gas Processing Plant**

Google Earth, image produced 12/05/2024




### 7.1.1 Significant Impact Analysis Screening

Initial screening for significant impacts will be conducted using EPA's initial screening procedures to address Class I increment impacts from the project.[44]

All model input/output files and supporting data used in the SIL screening analysis will be provided in the modeling report.

[44] Code of Federal Regulations, Title 40 – Protection of Environment, Part 51, Appendix W, Section 4.2(c)(i). January 17, 2017.

**Table 7-1 Class I Significant Impact Levels for Air Quality Standards and PSD Increments**

| Pollutant | Averaging Period | SIL [a] (µg/m³) | Form of SIL |
|---|---|---|---|
| $SO_2$ | 3-hour | 1.0 | H1H |
| | 24-hour | 0.2 | H1H |
| | Annual | 0.1 | H1H |
| $PM_{2.5}$ [b] | 24-hour | 0.27 | H1H [c] |
| | Annual | 0.03 | H1H [c] |
| $PM_{10}$ | 24-hour | 0.3 | H1H |
| | Annual | 0.2 | H1H |
| $NO_2$ | Annual | 0.1 | H1H |
| Ozone [d] | 8-hour | 1.96 | See Table Note d |

[a] The modeled facility-only impacts will be the H1H modeled concentrations for comparison to the SILs on an individual year basis unless otherwise noted.

[b] $PM_{2.5}$ modeled impacts will be the sum of direct $PM_{2.5}$ predicted by AERMOD and secondarily formed $PM_{2.5}$. See Section 4.13 for discussion of secondary $PM_{2.5}$ formation calculations.

[C] The annual $PM_{2.5}$ SIL was updated by EPA on 4/30/2024.[45] EPA guidance specifies that the highest of the multi-year averages of the maximum modeled 24 hour and annual $PM_{2.5}$ concentrations predicted each year at each receptor, based on 2 or more years and up to 5 complete years of available meteorological data, be used for the SIL analyses.[46]

[d] See Section 4.13.

## 7.2 Q/D ANALYSIS

A Q/D screening analysis was performed in a manner consistent with the proposed method as outlined in FLAG 2010.[47] This method compares the ratio of visibility-affecting pollutant (VAP, which includes $NO_X$, $SO_2$, and $PM_{10}$) emission rates associated with the project to the distance from the Class I area.

For the FLAG 2010 approach, "Q" is calculated as the sum of the worst-case 24-hour emissions due to the "project" converted to an annual basis. The "D'" term is defined as the distance, in kilometers (km), from the facility to the closest receptor in the corresponding Class I area. A Q/D screening threshold of ten (10) is provided in the FLAG 2010 guidance document.

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[45] Memo from R. Wayland (EPA Director of the Air Quality Assessment Division) to EPA Regional Air Division Directors titled: *Supplement to the Guidance on Significant Impact Levels for Ozone and Fine Particles in the Prevention of Significant Deterioration Permitting Program*. April 30, 2024.

[46] EPA memorandum from C. Wayland and S. Mathias to EPA regional air division directors: Guidance for Ozone and Fine Particulate Matter Permit Modeling. July 29, 2022, Page 40.

[47] Federal Land Managers' Air Quality Related Values Work Group (FLAG), Phase I Report-Revised (2010), NSP,/NRPC/NRR, 2010

When considering the proposed emissions for facility, the total "Q" is roughly 35,213 tons per year (tpy). Table 3-1 shows the ratio of emissions to Class I distance (i.e., Q/D) for this project and as shown, the four (4) identified Class I areas have Q/D ratios more than 10.

**Table 7-2 Class I AQRV Screening Analysis Result**

| Class I Area | Distance (km) | Annualized Maximum Daily Emission Rate (tpy) | | | Q (tpy) | Q/D* | Additional Review? |
|---|---|---|---|---|---|---|---|
| | | SO2 | NOX | PM10 | | | (Yes/No) |
| Carlsbad Caverns National Park | 79.80 | 9,661 | 25,493 | 60 | 35,213 | 441.27 | Yes |
| Guadalupe Mountains National Park | 116.00 | | | | | 303.56 | Yes |
| Salt Creek Wilderness | 170.60 | | | | | 206.41 | Yes |
| Big Bend | 279.75 | | | | | 125.87 | Yes |

* Q/D values are based on preliminary emission estimates and are subject to change during the course of the application development.

## 7.3 Class I AQRV Analyses

The FLMs for Class I areas have the responsibility to protect air quality related values and to consider in consultation with the permitting authority whether a proposed major emitting facility will have an adverse impact on such values. Federal Land Managers' Air Quality Related Values Work Group (FLAG) 2010 Phase I Report defines the following:[48]

> *Air Quality Related Value* - A resource, as identified by the FLM for one or more Federal areas that may be adversely impacted by a change in air quality. The resource may include visibility or a specific scenic, cultural, physical, biological, ecological, or recreational resource identified by the FLM for a particular area.
>
> *Adverse Impact on Air Quality Related Values* - An unacceptable effect, as identified by an FLM, that results from current, or would result from predicted, deterioration of air quality in a Federal Class I or Class II area. A determination of unacceptable effect shall be made on a case-by-case basis for each area considering existing air quality conditions. It should be based on a demonstration that the current or predicted deterioration of air quality will cause or contribute to a diminishment of the area's national significance, impairment of the structure and functioning of the area's ecosystem, or impairment of the quality of the visitor experience in the area.

Red Hills will evaluate impacts to visibility, nitrogen, and sulfur deposition in order to address AQRVs at the four (4) Class I areas in Table 3-1. The following sections provide further details on the AQRVs that will be addressed for this project.

[48] https://www.fws.gov/guidance/sites/guidance/files/documents/FLAG Air Quality Phase 1 report.pdf

### 7.3.1 Deposition

In the deposition analysis, the project's contribution to the deposition of chemical species at the 4 Class I areas will be evaluated against the deposition analysis thresholds (DAT) for nitrate ($NO_3$) and sulfate ($SO_4$), which are set by the FLM. As the 4 Class I areas are located more than 50km from the facility, Targa will use CALPUFF to model deposition.[49]

As stated in *FLAG 2010* the DAT represents "the additional amount of nitrogen or sulfur deposition within a Class I area, below which estimated impacts from a proposed new or modified source are considered negligible." Moreover, according to *FLAG 2010* "if the new or modified source has a predicted nitrogen or sulfur deposition impact below the respective DAT, the NPS and FWS will consider that impact to be negligible, and no further analysis would be required of that pollutant." The recommended DAT is not necessarily an adverse impact threshold, rather it's used as a screening level value. The potentially-affected Class I areas are all in the Southwestern US, however since they are all west of the Mississippi river, the deposition impacts will be evaluated against appropriate sulfur and nitrogen DAT of 0.005 kg/ha/yr (each) for Class I areas in the Western United States.

Consistent with Interagency Workgroup On Air Quality Modeling (IWAQM) Phase 2 Summary Report *(IWAQM Phase 2)*, particulate-phase dry and wet deposition will be modeled for $SO_4$. For sulfur deposition, the sum of wet and dry deposition fluxes for $SO_4$ will be normalized by the molecular weight of sulfur and expressed as total S.

The contribution of the project to the deposition of sulfur and nitrogen species at each Class I area will be estimated and assessed against the DAT.

### 7.3.2 Visibility

Visibility can be affected by plume impairment (heterogeneous) or regional haze (homogeneous). Plume impairment results when there is a contrast or color difference between the plume and a viewed background (the sky or a terrain feature). Plume impairment is generally only of concern when the Class I area is near the proposed source (i.e., less than 50 km). Since the distances between the facility and the Class I areas are greater than 50 km, only regional haze will be considered.

### 7.3.3 Regional Haze

Regional haze occurs at distances where the plume has become evenly dispersed into the atmosphere such that there is no definable plume. The primary causes of regional haze are $SO_4$ and $NO_3$ (primarily as ammonium salts). Particulate emissions also contribute to regional haze but to a lesser extent since sulfates and nitrates are hygroscopic species that increasingly reduce visibility with increased relative humidity.

Regional haze is measured using the light extinction coefficient ($b_{ext}$). The Interagency Monitoring of Protected Visual Environments (IMPROVE) workgroup proposed a method informally known as "Method 8" to compute visibility impairments, which has been incorporated as the default method in *FLAG 2010*. This algorithm will be used to calculate the daily light extinction attributable to the project and light extinction attributable to a natural background.

To determine a change in regional haze, the percentage change of the light extinction coefficient ($\Delta b_{ext}$) will be evaluated using Equation 1:

[49] CALPUFF is required for Class I Areas greater than 50 KM from the source.

$$\Delta b_{ext} = (b_{ext(source+nat\ cond)} - b_{ext(nat\ cond)})/b_{ext(nat\ cond)}$$ (Equation 1)

The background extinction coefficient $b_{ext,(nat\ cond)}$ is affected by various chemical species and the Rayleigh scattering phenomenon and can be calculated as shown in Equation 2:

$$b_{ext} = 2.2 \times f_S(RH) \times [\text{Small Sulfate}] + 4.8 \times f_L(RH) \times [\text{Large Sulfate}] + 2.4 \times f_S(RH) \times [\text{Small Nitrate}] + 5.1 \times f_L(RH) \times [\text{Large Nitrate}] + 2.8 \times [\text{Small Organic Mass}] + 6.1 \times [\text{Large Organic Mass}] + 10 \times [\text{Elemental Carbon}] + 1 \times [\text{Fine Soil}] + 0.6 \times [\text{Coarse Mass}] + 1.7 \times f_{SS}(RH) \times [\text{Sea Salt}] + \text{Rayleigh Scattering (Site Specific)} + 0.33 \times [NO_2\ (\text{ppb})] \left\{\text{or as: } 0.1755 \times \left[NO_2\ \left(\frac{\mu g}{m^3}\right)\right]\right\}$$ *(Equation 2)*

Where:

[ ] indicates concentrations in µg/m$^3$

$f_S(RH)$ = Relative humidity adjustment factor for small sulfate and nitrate

$f_L(RH)$ = Relative humidity adjustment factor for large sulfate and nitrate

$f_{SS}(RH)$ = Relative humidity adjustment factor for sea salt

For Total Sulfate < 20 µg/m$^3$:

[Large Sulfate] = ([Total Sulfate] / 20 µg/m$^3$) x [Total Sulfate]

For Total Sulfate ≥ 20 µg/m$^3$:

[Large Sulfate] = [Total Sulfate]

And:

[Large Sulfate] = [Total Sulfate]-[Large Sulfate]

The natural background concentrations and Rayleigh scattering value at the Class I areas considered in this analysis are provided on an annual average basis in *FLAG 2010*. The values are shown in Table 7-3 and are representative of each of the four (4) Class I areas. The monthly relative humidity (f(RH)) values for each of the four (4) Class I areas were also obtained from *FLAG 2010* and are shown in 3-2 through 3-5.

The extinction coefficient $b_{ext(source)}$ due to emissions from the proposed project will be calculated. Pollutants that have the potential to affect visibility (particulate species) will be emitted from the proposed project. The extinction coefficient $b_{ext(source)}$ due to emissions of visibility affecting pollutants from a single project will be calculated using an air quality model (i.e., CALPUFF). The extinction due to the project will be calculated as shown in Equation 2 above and compared with natural conditions using Equation 1.

**Table 7-3 Annual Average Natural Conditions**

| Class I Area | Sulfate ($\mu g/m^3$) | Nitrate ($\mu g/m^3$) | OM ($\mu g/m^3$) | EC ($\mu g/m^3$) | Soil ($\mu g/m^3$) | CM ($\mu g/m^3$) | Sea Salt ($\mu g/m^3$) | Rayleigh $Mn^{-1}$ |
|---|---|---|---|---|---|---|---|---|
| White Mountain Wilderness | 0.12 | 0.10 | 0.60 | 0.02 | 0.50 | 3.00 | 0.03 | 9.00 |
| Salt Creek Wilderness | 0.12 | 0.10 | 0.60 | 0.02 | 0.50 | 3.00 | 0.04 | 10.00 |
| Guadalupe Mountains NP | 0.12 | 0.10 | 0.60 | 0.02 | 0.50 | 3.00 | 0.02 | 9.00 |
| Carlsbad Caverns NP | 0.12 | 0.10 | 0.60 | 0.02 | 0.50 | 3.00 | 0.02 | 9.00 |
| Big Bend NP | 0.12 | 0.10 | 0.60 | 0.02 | 0.50 | 3.00 | 0.03 | 10.00 |

**Table 7-4 Monthly Large $(NH_3)SO_4$ and $NH_4NO_3$ Relative Humidity Adjustment Factor**

| Class I Area | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| White Mountain Wilderness | 2.00 | 1.79 | 1.51 | 1.40 | 1.44 | 1.37 | 1.64 | 1.82 | 1.85 | 1.59 | 1.72 | 1.95 |
| Salt Creek Wilderness | 2.01 | 1.79 | 1.51 | 1.45 | 1.55 | 1.48 | 1.64 | 1.80 | 1.91 | 1.64 | 1.72 | 1.91 |
| Guadalupe Mountains NP | 2.14 | 1.82 | 1.49 | 1.38 | 1.48 | 1.47 | 1.78 | 1.98 | 2.10 | 1.60 | 1.78 | 2.08 |
| Carlsbad Caverns NP | 2.07 | 1.81 | 1.50 | 1.42 | 1.51 | 1.48 | 1.72 | 1.90 | 2.03 | 1.64 | 1.76 | 2.00 |
| Big Bend NP | 1.72 | 1.61 | 1.44 | 1.38 | 1.47 | 1.48 | 1.58 | 1.74 | 1.83 | 1.63 | 1.63 | 1.70 |

**Table 7-5 Monthly Small $(NH_3)SO_4$ and $NH_4NO_3$ Relative Humidity Adjustment Factor**

| Class I Area | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| White Mountain Wilderness | 2.54 | 2.19 | 1.76 | 1.58 | 1.65 | 1.53 | 1.94 | 2.20 | 2.29 | 1.87 | 2.07 | 2.45 |
| Salt Creek Wilderness | 2.57 | 2.19 | 1.75 | 1.67 | 1.82 | 1.69 | 1.93 | 2.16 | 2.37 | 1.94 | 2.07 | 2.38 |
| Guadalupe Mountains NP | 2.85 | 2.28 | 1.74 | 1.57 | 1.73 | 1.69 | 2.16 | 2.48 | 2.74 | 1.90 | 2.20 | 2.71 |
| Carlsbad Caverns NP | 2.70 | 2.25 | 1.75 | 1.63 | 1.77 | 1.70 | 2.06 | 2.34 | 2.59 | 1.95 | 2.16 | 2.57 |
| Big Bend NP | 2.11 | 1.92 | 1.65 | 1.56 | 1.67 | 1.67 | 1.83 | 2.07 | 2.22 | 1.92 | 1.92 | 2.04 |

**Table 7-6 Sea Salt Relative Humidity Adjustment Factor**

| Class I Area | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| White Mountain Wilderness | 2.71 | 2.37 | 1.89 | 1.68 | 1.76 | 1.66 | 2.14 | 2.46 | 2.49 | 2.02 | 2.25 | 2.63 |
| Salt Creek Wilderness | 2.72 | 2.37 | 1.88 | 1.77 | 1.96 | 1.87 | 2.15 | 2.44 | 2.59 | 2.12 | 2.26 | 2.56 |
| Guadalupe Mountains NP | 2.82 | 2.35 | 1.84 | 1.64 | 1.82 | 1.83 | 2.36 | 2.72 | 2.85 | 2.01 | 2.28 | 2.76 |
| Carlsbad Caverns NP | 2.75 | 2.36 | 1.86 | 1.72 | 1.89 | 1.86 | 2.27 | 2.59 | 2.75 | 2.09 | 2.29 | 2.68 |
| Big Bend NP | 2.20 | 2.03 | 1.75 | 1.67 | 1.84 | 1.87 | 2.03 | 2.34 | 2.47 | 2.09 | 2.10 | 2.22 |

### 7.3.4 Particulate Speciation

Equation 2 above for regional haze requires an estimate of the chemical composition and size distribution of the particulates emitted from the sources at the facility. Particulate extinction coefficients of a natural gas fuel burning source for use in the CALPOST program are based on best estimates for elemental carbon (EC), with the balance of filterable particulate divided between fine soil (PMF) and coarse mass (PMC). Condensable particulate matter will be assumed to be "Inorganic" Condensable $PM_{10}$ (CPM IOR) and secondary organic aerosol (SOA). A relative humidity adjustment factor of 3.0 * f (RH) is used to calculate the sulfate ($SO_4$) component of the light extinction coefficient, which accounts for the hygroscopic growth of sulfate aerosol in the presence of water vapor. Table 7-7 provides a summary of the particle speciation percentages based on the speciation profile from the EPA SPECIATE v5.3 database for a boiler burning natural gas [50].

**Table 7-7 Particle Speciation Percentages**

| Source | Coarse (PMC) | Fine Soil (PMF) | Fine EC | CPM IOR | SOA | Nitrate (NO3) |
|---|---|---|---|---|---|---|
| Heaters | 0.0 | 81.8 | 3.0 | 4.4 | 8.7 | 2.13 |
| Boilers | 0.0 | 81.8 | 3.0 | 4.4 | 8.7 | 2.13 |
| Thermal Oxidizer | 0.0 | 81.8 | 3.0 | 4.4 | 8.7 | 2.13 |

## 7.4 Class I PSD Increment Analyses

In general, all PSD permit applications are required to demonstrate through air quality modeling that the emissions from the proposed project will not cause or contribute to any violations of allowable increments within affected Class I areas, which are protected to a greater degree (i.e., the allowable increments are lower) than Class II areas. A significant contribution to Class I Increment consumption is defined as a modeled concentration in excess of the significant impact levels summarized in Table 3-7. These significant impact levels, which were originally developed as part of the 1996 NSR reform rulemaking, have been accepted by decision makers as an indication of whether a project is likely to cause or contribute to a Class I increment violation.

[50] https://www.epa.gov/air-emissions-modeling/speciate

**Table 7-8 Class I PSD Increments and Modeling Significance Levels**

| Pollutant | Averaging Period | SIL ($\mu g/m^3$) | Increment ($\mu g/m^3$) |
|---|---|---|---|
| $NO_2$ | Annual | 0.10 | 2.5 |
| $SO_2$ | 3-Hour | 1.00 | 25 |
| | 24-Hour | 0.20 | 5 |
| | Annual | 0.10 | 2 |
| $PM_{10}$ | 24-Hour | 0.30 | 8 |
| | Annual | 0.20 | 4 |
| $PM_{2.5}$ | 24-Hour | 0.27 | 2 |
| | Annual | 0.05 | 1 |

Because the facility PTE were used in the analysis, a Class I PSD Increment analysis will be completed for each pollutant listed in Table 7-8 at the Class I areas.

# 8. CLASS I AREA MODELING METHODS

The U.S. EPA established the CALPUFF modeling system as a screening tool for analyzing long-range pollutant transport (i.e., distances greater than 50 km) within the Guideline on Air Quality Models, Appendix W (*Guideline)*.[51] Ash Grove will use the EPA-approved version [Version 5.8.5 of CALPUFF (level 151214) and 6.221 of CALPOST (level 082724] of the CALPUFF modeling suite to determine the possible impacts of the proposed facility on Class I AQRVs at each of the five (5) Class I areas.

CALPUFF is a multi-layer, multi-species, non-steady-state Lagrangian puff model, which can simulate the effects of time- and space-varying meteorological conditions on pollutant transport, transformation, and removal. For this refined analysis, meteorological fields generated by CALMET will be used as inputs to the CALPUFF model to ensure that the effects of terrain and spatially varying surface characteristics on meteorology are considered.

In addition to meteorological data, the CALPUFF model uses several other input files to specify source and receptor parameters. The selection and control of CALPUFF options are determined by user-specific inputs contained in the control file. This file contains all of the necessary information to define a model run (e.g., starting date, run length, grid specifications, technical options, output options). The air quality modeling will be performed using CALPUFF default options unless otherwise noted, as specified in the federal *Guideline* and IWAQM documents. The following sections describe the modeling domain, meteorological data, background concentrations, and model implementation that will be used for the analysis of the Red Hills facility.

## 8.1 Modeling Domains

The location, terrain, and land use within the meteorological CALMET and computational CALPUFF domains will be based on the previously-developed datasets. Red Hills proposes to use the 2018-2020 WRF data recently compiled and distributed by Tim Allen at USFWS.[52] The CALPUFF computational domain will be set to encompass the entire CALMET domain selected and will use the same grid spacing (12 km). The horizontal domain is comprised of grid cells, each containing a central grid point at which meteorological and computational parameters are calculated at each time step. Red Hills is proposing to use a domain defined with Lambert Conformal Coordinate (LCC) shown in Table 8-1 and as shown in Figure 8-1. This domain is 612 km x 684 km which corresponds to a grid of 51 x 57 cells at a 12 km resolution. The grid center is offset from the facility to capture the Class I areas to the west and south.

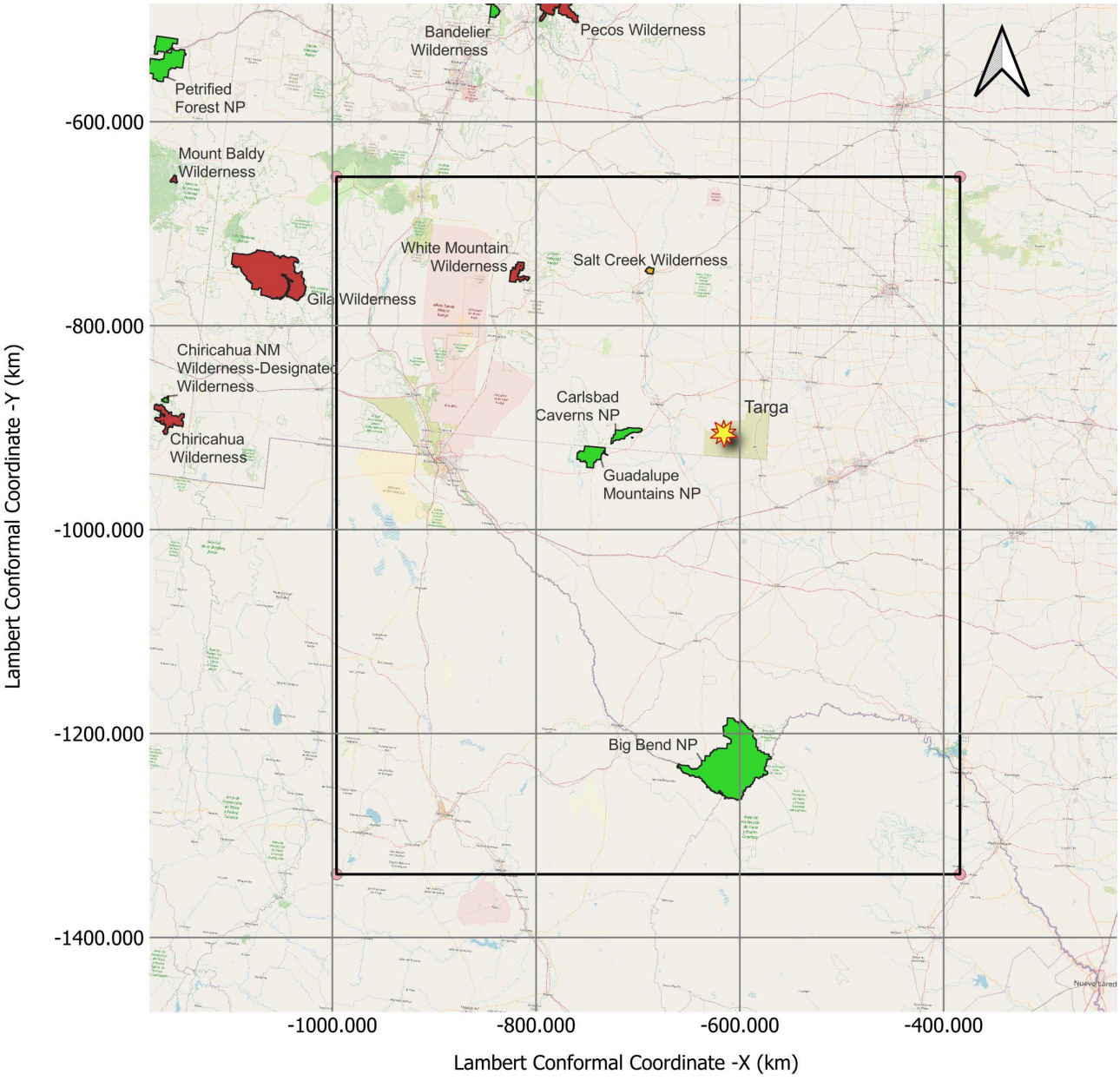
**Table 8-1 Model Domain Coordinates**

| Indices | Longitude | Latitude | LCC X (km) | LCC Y (km) |
|---|---|---|---|---|
| SW | -107.04637 | 28.04069 | -996.000 | -1338.000 |
| NE | -101.20709 | 34.58297 | -384.000 | -654.000 |

[51] https://www.epa.gov/scram/air-quality-dispersion-modeling-alternative-models

[52] WRF Data received via external harddrive shipped by Tim Allen (USFWS) on October 20, 2023

**Figure 8-1 Map Showing CALPUFF Modeling Domain**




Vertical grid structure is defined by the cell face height. The cell face height of each cell indicates its vertical extent. The vertical domain will be composed of terrain-following grid cells, the number and size of which are chosen so as to constrain the boundary layer where dispersion and chemical transformations take place. The highest cell face is proposed to be 4,000 meters to constrain the default maximum mixing height of 3,000 meters. CALMET and CALPUFF will use the same cell face heights. Table 8-2 summarizes the vertical grid structure proposed for both analyses.

**Table 8-2 Vertical Grid Structure**

| Vertical Grid Cell | Cell Face Height (meters) |
|---|---|
| 1 | 20 |
| 2 | 40 |
| 3 | 80 |
| 4 | 160 |
| 5 | 320 |
| 6 | 640 |
| 7 | 1,000 |
| 8 | 2,000 |
| 9 | 3,000 |
| 10 | 4,000 |

Ambient impacts are predicted at receptors specified by the FLMs to represent Class I Areas.[53] Receptor elevations were provided by NPS. Note that the coordinates used in this modeling simulation were Lambert Conformal Coordinates (LCC) based on the design of the CALMET meteorological domain. These coordinates have an origin of 40.574°N and 97°W with standard parallels of 33°N and 45°N. Receptor locations for the Class I areas will be converted to LCC using the Class I conversion tool provided by the NPS. The modeling domain may shift slightly to match the 12 km grid in the WRF data.

## 8.2 CALPUFF Meteorological Processing

Data from the 2018-2020 meteorological data set will be extracted in CALPUFF-ready format using the Mesoscale Model Interface (MMIF) tool provided by U.S. EPA. The data will be processed using the regulatory default settings in the MMIF guidance document.[54]

## 8.3 CALPUFF Model Processing

Using the data provided by MMIF, CALPUFF will be used to simulate the dispersion, deposition, and chemical transformation of discrete puffs of mass from emission sources. Each puff will contain emissions of each modeled species and will be advected throughout the domain while deposition and chemical transformation processes take place. CALPUFF is a Lagrangian puff model, the principal advantages of which are that pollutant plumes can evolve dynamically and chemically over time and can respond to complex winds caused by terrain effects, stagnation, or recirculation.

Emissions data for the Red Hills Plant will be entered into CALPUFF. The modeling analysis will only include the main combustion sources (i.e., heater, flares, etc) as this is the source that would be expected to contribute to long range transport. Fugitive PM emissions such as those from paved roadways will not be included due to their very localized nature. Emergency engines will also be excluded from the modeling given their infrequent operation and localized impacts.

[53] http://www.nature.nps.gov/air/maps/receptors/index.cfm

[54] https://www3.epa.gov/ttn/scram/models/relat/mmif/MMIF_Guidance.pdf

This analysis will be performed with the deposition and chemical transformation algorithms enabled. A full resistance model is provided in CALPUFF for the computation of dry deposition rates of gases and particulate matter as a function of geophysical parameters, meteorological conditions, and pollutant species. An empirical scavenging coefficient approach using default options will be enabled in CALPUFF to compute the depletion and wet deposition fluxes due to precipitation scavenging.

The CALPUFF model is capable of simulating linear chemical transformation effects by using pseudo-first-order chemical reaction mechanisms for the conversions of $SO_2$ to $SO_4$ and $NO_X$, which consists of NO and $NO_2$, to $NO_3$ and $HNO_3$. There are two user-selected input parameters that affect the MESOPUFF II chemical transformation, ammonia concentrations and ozone concentrations. The selection of each parameter is discussed separately.

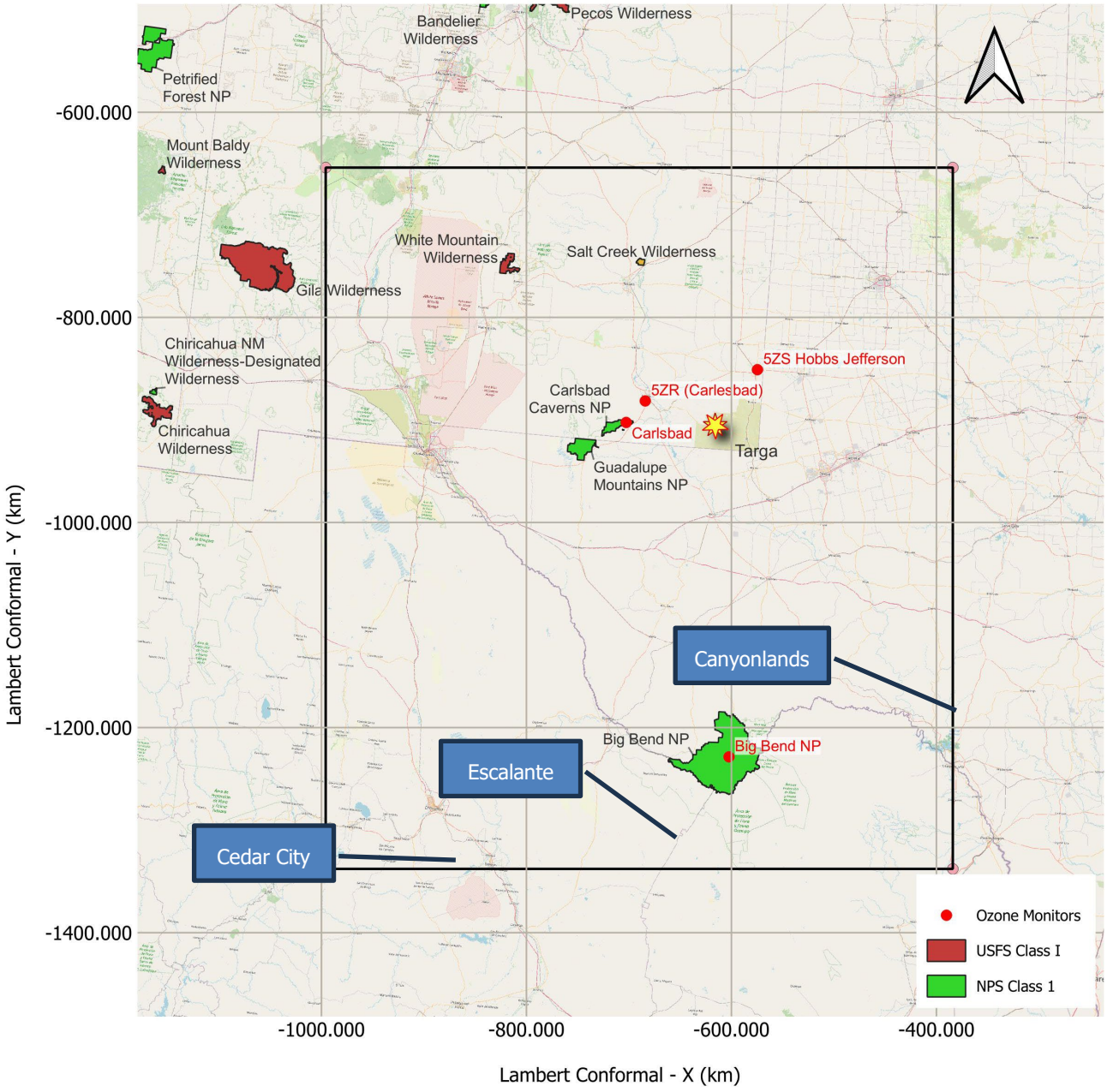
### 8.3.1 Ozone

Ambient ozone concentrations can be input to the model as a background level or using hourly, spatially varying observations. For this analysis, monthly average ozone background values will be computed for each modeled year (2018, 2019 and 2020) from the CASTNET and AIRS data) The proposed sites for the ozone data are in Table 8-3 and their locations are demonstrated in Figure 8-2.

**Table 8-3 Proposed Ozone Background Monitors**

| Class I Area | Proposed Ozone Monitor Location | Proposed Ozone Monitor ID |
|---|---|---|
| White Mountain Wilderness | Carlsbad SZR | 35-015-1005 |
| Salt Creek Wilderness | Carlsbad SZR | 35-015-1005 |
| Guadalupe Mountains NP | Carlsbad and Carlsbad SZR | 35-015-1005 and 35-015-0010 |
| Carlsbad Caverns NP | Carlsbad and Carlsbad SZR | 35-015-1005 and 35-015-0010 |
| Big Bend NP | Big Bend | 48-043-0101 |

**Figure 8-2 Map Showing Ozone Monitor Locations**




## 8.3.2 Ammonia

*IWAQM Phase 2* recommends the use of spatially constant background ammonia concentrations to participate in the MESOPUFF-II chemical transformation mechanism. Ammonia background data may be available from the National Atmospheric Deposition Program (NADP), Ammonia Monitoring Network. However no nearby monitors were found within the modeling domain. Given the landuse across the domain is predominantly comprised of arid lands, the default ammonia background of 1.0 ppb will be applied for this analysis.

### 8.3.3 CALPUFF Processing Control

CALPUFF modeling will be conducted using the recommended regulatory default options specified in Appendix B of *IWAQM Phase 2*. The integrated puff representation will be used and puff splitting will be conservatively disabled. Any deviations from *IWAQM Phase 2* will be provided in the Class I modeling report. A summary of CALPUFF switches is in Appendix B.

## 8.4 POSTUTIL Processing

The first postprocessing step involves running POSTUTIL to calculate the concentrations of visibility-affecting and deposited species prior to running CALPOST. Specifically, POSTUTIL will be used to combine the appropriate wet and dry fluxes of sulfur-bearing species deposited as particles and gases.

The other step in the analysis which will be performed in POSTUTIL is to repartition the nitrogen mass between nitric acid and nitrate. This processing stage, referred to as the ammonia limiting method (ALM), will be accomplished by utilizing the default setting in POSTUTIL of MNITRATE = 1.

## 8.5 CALPOST Postprocessing Analysis

The CALPOST postprocessor will be used to compute the total deposition of nitrogen and sulfur within each of the five (5) Class I areas for assessment against the DAT as well as the 24-hour average visibility impairment. Section 3 generally described the technical approach for computing these values from the modeled concentrations of pollutant emissions. A summary of CALPOST program switches is included in Appendix B.

A change in light extinction attributable to a single facility of 5% or less on a 24-hour average basis is generally acceptable to the FLM. The FLAG 2010 guidance establishes a metric for assessing whether a single facility causes or contributes to visibility impairment. This guidance establishes a 5% extinction change threshold for contribution and a 10% extinction change threshold for causation of visibility impairment. These thresholds are applied to the 98th percentile model result for an analysis that considers multiple years of meteorological data. In other words, application of the 98th percentile standard formalizes the intensity, duration, and frequency aspects of modeled visibility impairment events by standardizing discretion left to the FLM on a case-by-case basis to exclude visibility impairment events that could be due to meteorological conditions or other naturally occurring phenomena that are not attributable to the emissions source.

# APPENDIX A. MODELED EMISSION RATES AND SOURCE PARAMETERS

The emission rates and stack parameters may change throughout the development of this application.

TARGA

*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

## AERMOD Inputs Summary - Scenario 1

| | Point Sources | | Stack Locations | | | Stack Parameters | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Stack Height (m) | Stack Temperature (K) | Stack Velocity (m/s) | Stack Diameter (m) |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 639181 | 3565054 | 1092.76 | 15.24 | 602.04 | 6.97 | 1.27 |
| | 1.5EP1G | 10k Stabilizer Heater | 639160 | 3565063 | 1092.94 | 5.19 | 602.04 | 7.07 | 0.91 |
| | 4EP1G | 10 k Stabilizer Heater | 638738 | 3565708 | 1093.81 | 5.64 | 652.59 | 10.17 | 0.61 |
| | 2EP1A | Mol Sieve Heater | 639109 | 3565471 | 1093.58 | 5.03 | 560.93 | 7.59 | 0.56 |
| | 2EP1B | Cryo HMO Heater | 639108 | 3565468 | 1093.59 | 7.01 | 422.04 | 3.16 | 1.17 |
| | 2EP1E | Gylcol Reboiler | 638985 | 3565317 | 1093.32 | 8.10 | 602.04 | 2.78 | 0.61 |
| | 2EP1H | Amine Reboiler | 639024 | 3565335 | 1093.36 | 8.38 | 560.93 | 11.48 | 1.27 |
| | 2AEP1D | Amine Reboiler | 639025 | 3565316 | 1093.29 | 8.38 | 477.59 | 13.85 | 1.07 |
| | 2.5EP1D | Amine Reboiler | 639537 | 3565192 | 1090.66 | 7.19 | 568.15 | 12.83 | 0.81 |
| | 3EP1A | Mol Sieve Heater | 638877 | 3565321 | 1093.23 | 6.86 | 523.71 | 12.90 | 0.41 |
| | 3EP1B | Cryo HMO Heater | 638886 | 3565318 | 1093.25 | 8.08 | 523.71 | 10.19 | 0.71 |
| | 3EP1E | Glycol Reboiler | 638983 | 3565333 | 1093.31 | 9.91 | 602.04 | 22.70 | 0.21 |
| | 4EP1A | Mol Sieve Heater | 638797 | 3565896 | 1092.53 | 7.01 | 523.71 | 12.90 | 0.41 |
| | 4EP1B | Cryo HMO Heater | 638789 | 3565898 | 1092.61 | 8.23 | 523.71 | 10.19 | 0.71 |
| | 4EP1D | Amine Reboiler | 638693 | 3565901 | 1093.68 | 13.18 | 533.15 | 35.70 | 0.71 |
| | 4EP1E | Glycol Reboiler | 638738 | 3565903 | 1093 | 8.15 | 533.15 | 1.81 | 0.71 |
| | 4EP1H | Amine Reboiler | 638694 | 3565881 | 1093.67 | 13.18 | 533.15 | 35.70 | 0.71 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 638586 | 3565901 | 1094.68 | 13.79 | 533.71 | 14.21 | 1.22 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 638587 | 3565881 | 1094.74 | 13.79 | 533.71 | 14.21 | 1.22 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 638925 | 3565919 | 1091.89 | 6.93 | 523.71 | 4.15 | 0.71 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 638915 | 3565920 | 1092.07 | 9.14 | 523.71 | 5.27 | 1.22 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 638907 | 3565921 | 1092.15 | 8.59 | 560.93 | 13.60 | 0.41 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 638895 | 3565918 | 1092.2 | 11.20 | 523.71 | 11.81 | 0.81 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 638584 | 3565932 | 1094.69 | 13.93 | 510.93 | 13.61 | 1.22 |
| | 5.5EP1A | AGI 2 HMO Heater | 639562 | 3565404 | 1089.73 | 13.72 | 510.93 | 39.79 | 0.71 |
| Flares | 1EP2 | Flare (SSM) | 639217 | 3565202 | 1093.05 | 65.16 | 1273.00 | 20.00 | 13.41 |
| | 2EP2A | Emergency Flare A (Inlet) | 639187 | 3565436 | 1093.6 | 102.92 | 1273.00 | 20.00 | 21.88 |
| | 2.5EP5 | Emergency AGI Flare | 639512 | 3565274 | 1090.62 | 60.00 | 1273.00 | 20.00 | 4.09 |
| | 3EP2A | Flare (SSM) | 638844 | 3565244 | 1093.95 | 102.92 | 1273.00 | 20.00 | 21.88 |
| | 4EP2A | Flare (SSM) | 638832 | 3565976 | 1092.68 | 107.93 | 1273.00 | 20.00 | 23.47 |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 638958 | 3565980 | 1092.68 | 138.10 | 1273.00 | 20.00 | 23.47 |
| | 5.5EP1B | AGI 2 Flare SSM | 639542 | 3565339 | 1090.58 | 66.30 | 1273.00 | 20.00 | 6.32 |
| | EP9 | Sour Slop Tank Control Flare | 639595 | 3565278 | 1090.2 | 6.73 | 1273.00 | 20.00 | 0.08 |
| | EP13 | Sour Water Tanks Flare | 639628 | 3565443 | 1088.96 | 7.95 | 1273.00 | 20.00 | 0.08 |
| | EP79 | Condensate Tank Flare | 639513 | 3564914 | 1090.35 | 9.67 | 1273.00 | 20.00 | 0.11 |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 639010 | 3565298 | 1093.2 | 18.82 | 1088.71 | 1.38 | 3.05 |
| | EP8 | Thermal Oxidizer | 638713 | 3565923 | 1093.43 | 20.73 | 1088.71 | 1.65 | 3.05 |
| | EP10 | Thermal Oxidizer | 638602 | 3565931 | 1094.55 | 23.16 | 1255.37 | 117.56 | 3.05 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | 638497 | 3565657 | 1095.25 | 1.83 | 0.00 | 0.30 | 0.33 |
| Generators | GEN1 | Diesel Fired Generator | 638566.7 | 3565975.9 | 1094.71 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN2 | Diesel Fired Generator | 638663.5 | 3565509.8 | 1095.48 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN3 | Diesel Fired Generator | 638663.4 | 3565529.8 | 1095.27 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN4 | Diesel Fired Generator | 638787.2 | 3565307.1 | 1092.93 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN5 | Diesel Fired Generator | 639260.2 | 3565419.5 | 1091.22 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN6 | Diesel Fired Generator | 639637.4 | 3565517.7 | 1089.85 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN7 | Diesel Fired Generator | 639631.2 | 3565285.6 | 1088.85 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN8 | Diesel Fired Generator | 639395.1 | 3565200.8 | 1091.95 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN9 | Diesel Fired Generator | 639160.9 | 3564906.5 | 1092.82 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN10 | Diesel Fired Generator | 639394.5 | 3564891.1 | 1091.17 | 4.51 | 689.82 | 22.01 | 0.21 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 638663.5 | 3565519.8 | 1095.39 | 4.51 | 689.82 | 93.21 | 0.21 |
| | GEN_WW | Well Water Generator | 638377 | 3565219 | 1093.36 | 4.57 | 500.00 | 5.00 | 0.08 |

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## AERMOD Inputs Summary - Scenario 1

| | Point Sources | | Short-Term Emissions (lb/hr) | | | | | | Long-Term Emissions (lb/hr) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Emission Units** | **Description** | **1-hr $NO_x$** | **CO** | **1-hr $SO_2$** | **24-hr $PM_{10}$** | **24-hr $PM_{2.5}$** | **$H_2S$** | **Annual $NO_x$** | **Annual $SO_2$** | **Annual $PM_{10}$** | **Annual $PM_{2.5}$** |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 2.125 | 1.573 | 0.029 | 0.187 | 0.187 | 5.818E-04 | 2.125 | 0.029 | 0.187 | 0.187 |
| | 1.5EP1G | 10k Stabilizer Heater | 1.115 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 1.115 | 0.015 | 0.098 | 0.098 |
| | 4EP1G | 10 k Stabilizer Heater | 0.882 | 0.487 | 0.0090 | 0.058 | 0.058 | 1.802E-04 | 0.882 | 9.008E-03 | 0.058 | 0.058 |
| | 2EP1A | Mol Sieve Heater | 0.941 | 0.355 | 6.571E-03 | 0.067 | 0.067 | 1.314E-04 | 0.941 | 6.571E-03 | 0.067 | 0.067 |
| | 2EP1B | Cryo HMO Heater | 1.114 | 0.858 | 0.016 | 0.162 | 0.162 | 3.176E-04 | 1.114 | 0.016 | 0.162 | 0.162 |
| | 2EP1E | Gylcol Reboiler | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 2EP1H | Amine Reboiler | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2AEP1D | Amine Reboiler | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2.5EP1D | Amine Reboiler | 1.695 | 1.254 | 0.023 | 0.149 | 0.149 | 4.641E-04 | 1.695 | 0.023 | 0.149 | 0.149 |
| | 3EP1A | Mol Sieve Heater | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 3EP1B | Cryo HMO Heater | 1.115 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 1.115 | 0.015 | 0.098 | 0.098 |
| | 3EP1E | Glycol Reboiler | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 4EP1A | Mol Sieve Heater | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 4EP1B | Cryo HMO Heater | 1.115 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 1.115 | 0.015 | 0.098 | 0.098 |
| | 4EP1D | Amine Reboiler | 2.302 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 2.302 | 0.053 | 0.338 | 0.338 |
| | 4EP1E | Glycol Reboiler | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 4EP1H | Amine Reboiler | 2.302 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 2.302 | 0.053 | 0.338 | 0.338 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 2.698 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 2.698 | 0.062 | 0.396 | 0.396 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 2.698 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 2.698 | 0.062 | 0.396 | 0.396 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 0.481 | 0.336 | 6.215E-03 | 0.040 | 0.040 | 1.243E-04 | 0.481 | 6.215E-03 | 0.040 | 0.040 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 1.020 | 1.258 | 0.023 | 0.150 | 0.150 | 4.653E-04 | 1.020 | 0.023 | 0.150 | 0.150 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 0.482 | 0.337 | 6.229E-03 | 0.040 | 0.040 | 1.246E-04 | 2.698 | 6.229E-03 | 0.040 | 0.040 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 1.693 | 1.252 | 0.023 | 0.149 | 0.149 | 4.634E-04 | 0.482 | 0.023 | 0.149 | 0.149 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 2.698 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.693 | 0.062 | 0.396 | 0.396 |
| | 5.5EP1A | AGI 2 HMO Heater | 2.677 | 3.302 | 0.061 | 0.393 | 0.393 | 1.222E-03 | 2.677 | 0.061 | 0.393 | 0.393 |
| Flares | 1EP2 | Flare (SSM) | 454.943 | 1810.626 | 3.620 | - | - | 0.039 | 6.21E-01 | 1.50E-01 | - | - |
| | 2EP2A | Emergency Flare A (Inlet) | 1211.880 | 4825.739 | 5.002 | - | - | 0.060 | 3.55E-01 | 1.62E-03 | - | - |
| | 2.5EP5 | Emergency AGI Flare | 4.331 | 37.132 | 76.240 | - | - | 0.827 | 9.05E-01 | 1.58E+01 | - | - |
| | 3EP2A | Flare (SSM) | 1211.880 | 4825.739 | 5.002 | - | - | 0.060 | 3.64E-01 | 1.64E-03 | - | - |
| | 4EP2A | Flare (SSM) | 1394.118 | 5550.509 | 5.754 | - | - | 0.069 | 7.55E-01 | 3.45E-03 | - | - |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 1394.009 | 5550.292 | 5.753 | - | - | 0.069 | 9.05E-01 | 8.79E+00 | - | - |
| | 5.5EP1B | AGI 2 Flare SSM | 10.331 | 88.576 | 307.296 | - | - | 3.332 | 2.15E+00 | 6.38E+01 | - | - |
| | EP9 | Sour Slop Tank Control Flare | 0.760 | 3.058 | 1.595 | - | - | 0.020 | 1.62E-03 | 1.60E+00 | - | - |
| | EP13 | Sour Water Tanks Flare | 3.191 | 12.741 | 1.813 | - | - | 0.024 | 7.08E-03 | 1.81E+00 | - | - |
| | EP79 | Condensate Tank Flare | 7.730 | 30.759 | 6.588E-05 | - | - | 7.143E-07 | 6.84E-02 | 6.59E-05 | - | - |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 2.451 | 9.009 | 19.361 | 0.671 | 0.671 | 9.754 | 1.537 | 19.361 | 0.671 | 0.671 |
| | EP8 | Thermal Oxidizer | 1.250 | 0.761 | 14.074 | 0.596 | 0.596 | 6.441 | 1.368 | 14.075 | 0.596 | 0.596 |
| | EP10 | Thermal Oxidizer | 1.240 | 0.755 | 14.149 | 0.559 | 0.559 | 6.471 | 1.361 | 14.150 | 0.559 | 0.559 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | - | - | - | - | - | 1.480E-04 | - | - | - | - |
| Generators | GEN1 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN2 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN3 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN4 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN5 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN6 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN7 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN8 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN9 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN10 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 0.305 | 0.185 | 0.594 | 0.023 | 0.023 | - | 0.0014 | 0.0027 | 0.0001 | 0.0001 |
| | GEN_WW | Well Water Generator | 0.316 | 0.040 | 0.041 | 0.043 | 0.043 | - | 0.0043 | 0.0006 | 0.0006 | 0.0006 |

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## AERMOD Inputs Summary - Scenario 1

| | Point Sources | | Short-Term Emissions (g/s) | | | | | | Long-Term Emissions (g/s) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Emission Units** | **Description** | **1-hr $NO_x$** | **CO** | **1-hr $SO_2$** | **24-hr $PM_{10}$** | **24-hr $PM_{2.5}$** | **$H_2S$** | **Annual $NO_x$** | **Annual $SO_2$** | **Annual $PM_{10}$** | **Annual $PM_{2.5}$** |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 0.268 | 0.198 | 3.665E-03 | 0.024 | 0.024 | 7.331E-05 | 0.268 | 3.665E-03 | 0.024 | 0.024 |
| | 1.5EP1G | 10k Stabilizer Heater | 0.140 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.140 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1G | 10 k Stabilizer Heater | 0.111 | 0.061 | 1.135E-03 | 7.296E-03 | 7.296E-03 | 2.270E-05 | 0.111 | 1.135E-03 | 7.296E-03 | 7.296E-03 |
| | 2EP1A | Mol Sieve Heater | 0.119 | 0.045 | 8.280E-04 | 8.467E-03 | 8.467E-03 | 1.656E-05 | 0.119 | 8.280E-04 | 8.467E-03 | 8.467E-03 |
| | 2EP1B | Cryo HMO Heater | 0.140 | 0.108 | 2.001E-03 | 0.020 | 0.020 | 4.002E-05 | 0.140 | 2.001E-03 | 0.020 | 0.020 |
| | 2EP1E | Gylcol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 2EP1H | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2AEP1D | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2.5EP1D | Amine Reboiler | 0.214 | 0.158 | 2.924E-03 | 0.019 | 0.019 | 5.848E-05 | 0.214 | 2.924E-03 | 0.019 | 0.019 |
| | 3EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 3EP1B | Cryo HMO Heater | 0.140 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.140 | 1.923E-03 | 0.012 | 0.012 |
| | 3EP1E | Glycol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 4EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 4EP1B | Cryo HMO Heater | 0.140 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.140 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1D | Amine Reboiler | 0.290 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.290 | 6.618E-03 | 0.043 | 0.043 |
| | 4EP1E | Glycol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 4EP1H | Amine Reboiler | 0.290 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.290 | 6.618E-03 | 0.043 | 0.043 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 0.340 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.340 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 0.340 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.340 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 0.061 | 0.042 | 7.831E-04 | 5.034E-03 | 5.034E-03 | 1.566E-05 | 0.061 | 7.831E-04 | 5.034E-03 | 5.034E-03 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 0.128 | 0.158 | 2.932E-03 | 0.019 | 0.019 | 5.863E-05 | 0.128 | 2.932E-03 | 0.019 | 0.019 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 0.061 | 0.042 | 7.848E-04 | 5.045E-03 | 5.045E-03 | 1.570E-05 | 0.340 | 7.848E-04 | 5.045E-03 | 5.045E-03 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 0.213 | 0.158 | 2.919E-03 | 0.019 | 0.019 | 5.839E-05 | 0.061 | 2.919E-03 | 0.019 | 0.019 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 0.340 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.213 | 7.757E-03 | 0.050 | 0.050 |
| | 5.5EP1A | AGI 2 HMO Heater | 0.337 | 0.416 | 7.697E-03 | 0.049 | 0.049 | 1.539E-04 | 0.337 | 7.697E-03 | 0.049 | 0.049 |
| Flares | 1EP2 | Flare (SSM) | 57.322 | 228.135 | 0.456 | 0 | 0 | 4.955E-03 | 0.078 | 0.019 | 0 | 0 |
| | 2EP2A | Emergency Flare A (Inlet) | 152.694 | 608.033 | 0.630 | 0 | 0 | 7.586E-03 | 0.045 | 2.046E-04 | 0 | 0 |
| | 2.5EP5 | Emergency AGI Flare | 0.546 | 4.679 | 9.606 | 0 | 0 | 0.104 | 0.114 | 1.996 | 0 | 0 |
| | 3EP2A | Flare (SSM) | 152.694 | 608.033 | 0.630 | 0 | 0 | 7.545E-03 | 0.046 | 2.062E-04 | 0 | 0 |
| | 4EP2A | Flare (SSM) | 175.656 | 699.352 | 0.725 | 0 | 0 | 8.722E-03 | 0.095 | 4.353E-04 | 0 | 0 |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 175.642 | 699.325 | 0.725 | 0 | 0 | 8.679E-03 | 0.114 | 1.107 | 0 | 0 |
| | 5.5EP1B | AGI 2 Flare SSM | 1.302 | 11.160 | 38.719 | 0 | 0 | 0.420 | 0.271 | 8.043 | 0 | 0 |
| | EP9 | Sour Slop Tank Control Flare | 0.096 | 0.385 | 0.201 | 0 | 0 | 2.535E-03 | 2.037E-04 | 0.201 | 0 | 0 |
| | EP13 | Sour Water Tanks Flare | 0.402 | 1.605 | 0.228 | 0 | 0 | 2.965E-03 | 8.921E-04 | 0.228 | 0 | 0 |
| | EP79 | Condensate Tank Flare | 0.974 | 3.876 | 8.301E-06 | 0 | 0 | 9.000E-08 | 8.619E-03 | 8.301E-06 | 0 | 0 |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 0.309 | 1.135 | 2.439 | 0.084 | 0.084 | 1.229 | 0.194 | 2.439 | 0.084 | 0.084 |
| | EP8 | Thermal Oxidizer | 0.157 | 0.096 | 1.773 | 0.075 | 0.075 | 0.812 | 0.172 | 1.773 | 0.075 | 0.075 |
| | EP10 | Thermal Oxidizer | 0.156 | 0.095 | 1.783 | 0.070 | 0.070 | 0.815 | 0.172 | 1.783 | 0.070 | 0.070 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | - | 0 | 0 | 0 | 0 | 1.865E-05 | 0 | 0 | 0 | 0 |
| Generators | GEN1 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN2 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN3 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN4 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN5 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN6 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN7 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN8 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN9 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN10 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 3.839E-02 | 2.328E-02 | 7.488E-02 | 2.950E-03 | 2.950E-03 | 0.000E+00 | 1.753E-04 | 3.419E-04 | 1.347E-05 | 1.347E-05 |
| | GEN_WW | Well Water Generator | 3.976E-02 | 5.085E-03 | 5.116E-03 | 5.468E-03 | 5.468E-03 | 0.000E+00 | 5.447E-04 | 7.008E-05 | 7.491E-05 | 7.491E-05 |

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# AERMOD Inputs Summary - Scenario 2

| | Point Sources | | Stack Locations | | | Stack Parameters | | | |
|---|---|---|---|---|---|---|---|---|---|
| | **Emission Units** | **Description** | **X Coordinate (m)** | **Y Coordinate (m)** | **Elevation (m)** | **Stack Height (m)** | **Stack Temperature (K)** | **Stack Velocity (m/s)** | **Stack Diameter (m)** |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 639181 | 3565054 | 1092.76 | 15.24 | 602.04 | 6.97 | 1.27 |
| | 1.5EP1G | 10k Stabilizer Heater | 639160 | 3565063 | 1092.94 | 5.19 | 602.04 | 7.07 | 0.91 |
| | 4EP1G | 10 k Stabilizer Heater | 638738 | 3565708 | 1093.81 | 5.64 | 652.59 | 10.17 | 0.61 |
| | 2EP1A | Mol Sieve Heater | 639109 | 3565471 | 1093.58 | 5.03 | 560.93 | 7.59 | 0.56 |
| | 2EP1B | Cryo HMO Heater | 639108 | 3565468 | 1093.59 | 7.01 | 422.04 | 3.16 | 1.17 |
| | 2EP1E | Gylcol Reboiler | 638985 | 3565317 | 1093.32 | 8.10 | 602.04 | 2.78 | 0.61 |
| | 2EP1H | Amine Reboiler | 639024 | 3565335 | 1093.36 | 8.38 | 560.93 | 11.48 | 1.27 |
| | 2AEP1D | Amine Reboiler | 639025 | 3565316 | 1093.29 | 8.38 | 477.59 | 13.85 | 1.07 |
| | 2.5EP1D | Amine Reboiler | 639537 | 3565192 | 1090.66 | 7.19 | 568.15 | 12.83 | 0.81 |
| | 3EP1A | Mol Sieve Heater | 638877 | 3565321 | 1093.23 | 6.86 | 523.71 | 12.90 | 0.41 |
| | 3EP1B | Cryo HMO Heater | 638886 | 3565318 | 1093.25 | 8.08 | 523.71 | 10.19 | 0.71 |
| | 3EP1E | Glycol Reboiler | 638983 | 3565333 | 1093.31 | 9.91 | 602.04 | 22.70 | 0.21 |
| | 4EP1A | Mol Sieve Heater | 638797 | 3565896 | 1092.53 | 7.01 | 523.71 | 12.90 | 0.41 |
| | 4EP1B | Cryo HMO Heater | 638789 | 3565898 | 1092.61 | 8.23 | 523.71 | 10.19 | 0.71 |
| | 4EP1D | Amine Reboiler | 638693 | 3565901 | 1093.68 | 13.18 | 533.15 | 35.70 | 0.71 |
| | 4EP1E | Glycol Reboiler | 638738 | 3565903 | 1093 | 8.15 | 533.15 | 1.81 | 0.71 |
| | 4EP1H | Amine Reboiler | 638694 | 3565881 | 1093.67 | 13.18 | 533.15 | 35.70 | 0.71 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 638586 | 3565901 | 1094.68 | 13.79 | 533.71 | 14.21 | 1.22 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 638587 | 3565881 | 1094.74 | 13.79 | 533.71 | 14.21 | 1.22 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 638925 | 3565919 | 1091.89 | 6.93 | 523.71 | 4.15 | 0.71 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 638915 | 3565920 | 1092.07 | 9.14 | 523.71 | 5.27 | 1.22 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 638907 | 3565921 | 1092.15 | 8.59 | 560.93 | 13.60 | 0.41 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 638895 | 3565918 | 1092.2 | 11.20 | 523.71 | 11.81 | 0.81 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 638584 | 3565932 | 1094.69 | 13.93 | 510.93 | 13.61 | 1.22 |
| | 5.5EP1A | AGI 2 HMO Heater | 639562 | 3565404 | 1089.73 | 13.72 | 510.93 | 39.79 | 0.71 |
| Flares | 1EP2 | Flare (SSM) | 639217 | 3565202 | 1093.05 | 65.16 | 1273.00 | 20.00 | 13.41 |
| | 2EP2A | Emergency Flare A (Inlet) | 639187 | 3565436 | 1093.6 | 102.92 | 1273.00 | 20.00 | 21.88 |
| | 2.5EP5 | Emergency AGI Flare | 639512 | 3565274 | 1090.62 | 60.00 | 1273.00 | 20.00 | 4.09 |
| | 3EP2A | Flare (SSM) | 638844 | 3565244 | 1093.95 | 102.92 | 1273.00 | 20.00 | 21.88 |
| | 4EP2A | Flare (SSM) | 638832 | 3565976 | 1092.68 | 107.93 | 1273.00 | 20.00 | 23.47 |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 638958 | 3565980 | 1092.68 | 138.10 | 1273.00 | 20.00 | 23.47 |
| | 5.5EP1B | AGI 2 Flare SSM | 639542 | 3565339 | 1090.58 | 66.30 | 1273.00 | 20.00 | 6.32 |
| | EP9 | Sour Slop Tank Control Flare | 639595 | 3565278 | 1090.2 | 6.73 | 1273.00 | 20.00 | 0.08 |
| | EP13 | Sour Water Tanks Flare | 639628 | 3565443 | 1088.96 | 7.95 | 1273.00 | 20.00 | 0.08 |
| | EP79 | Condensate Tank Flare | 639513 | 3564914 | 1090.35 | 9.67 | 1273.00 | 20.00 | 0.11 |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 639010 | 3565298 | 1093.2 | 18.82 | 1088.71 | 1.38 | 3.05 |
| | EP8 | Thermal Oxidizer | 638713 | 3565923 | 1093.43 | 20.73 | 1088.71 | 1.65 | 3.05 |
| | EP10 | Thermal Oxidizer | 638602 | 3565931 | 1094.55 | 23.16 | 1255.37 | 117.56 | 3.05 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | 638497 | 3565657 | 1095.25 | 1.83 | 0.00 | 0.30 | 0.33 |
| Generators | GEN1 | Diesel Fired Generator | 638566.7 | 3565975.9 | 1094.71 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN2 | Diesel Fired Generator | 638663.5 | 3565509.8 | 1095.48 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN3 | Diesel Fired Generator | 638663.4 | 3565529.8 | 1095.27 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN4 | Diesel Fired Generator | 638787.2 | 3565307.1 | 1092.93 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN5 | Diesel Fired Generator | 639260.2 | 3565419.5 | 1091.22 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN6 | Diesel Fired Generator | 639637.4 | 3565517.7 | 1089.85 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN7 | Diesel Fired Generator | 639631.2 | 3565285.6 | 1088.85 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN8 | Diesel Fired Generator | 639395.1 | 3565200.8 | 1091.95 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN9 | Diesel Fired Generator | 639160.9 | 3564906.5 | 1092.82 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN10 | Diesel Fired Generator | 639394.5 | 3564891.1 | 1091.17 | 4.51 | 689.82 | 22.01 | 0.21 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILEI | 638663.5 | 3565519.8 | 1095.39 | 4.51 | 689.82 | 93.21 | 0.21 |
| | GEN_WW | Well Water Generator | 638377 | 3565219 | 1093.36 | 4.57 | 500.00 | 5.00 | 0.08 |

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# AERMOD Inputs Summary - Scenario 2

| | Point Sources | | Short-Term Emissions (lb/hr) | | | | | | Long-Term Emissions (lb/hr) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Emission Units** | **Description** | **1-hr $NO_x$** | **CO** | **1-hr $SO_2$** | **24-hr $PM_{10}$** | **24-hr $PM_{2.5}$** | **$H_2S$** | **Annual $NO_x$** | **Annual $SO_2$** | **Annual $PM_{10}$** | **Annual $PM_{2.5}$** |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 2.125 | 1.573 | 0.029 | 0.187 | 0.187 | 5.818E-04 | 2.125 | 0.029 | 0.187 | 0.187 |
| | 1.5EP1G | 10k Stabilizer Heater | 1.115 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 1.115 | 0.015 | 0.098 | 0.098 |
| | 4EP1G | 10 k Stabilizer Heater | 0.882 | 0.487 | 0.0090 | 0.058 | 0.058 | 1.802E-04 | 0.882 | 9.008E-03 | 0.058 | 0.058 |
| | 2EP1A | Mol Sieve Heater | 0.941 | 0.355 | 6.571E-03 | 0.067 | 0.067 | 1.314E-04 | 0.941 | 6.571E-03 | 0.067 | 0.067 |
| | 2EP1B | Cryo HMO Heater | 1.114 | 0.858 | 0.016 | 0.162 | 0.162 | 3.176E-04 | 1.114 | 0.016 | 0.162 | 0.162 |
| | 2EP1E | Gylcol Reboiler | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 2EP1H | Amine Reboiler | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2AEP1D | Amine Reboiler | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2.5EP1D | Amine Reboiler | 1.695 | 1.254 | 0.023 | 0.149 | 0.149 | 4.641E-04 | 1.695 | 0.023 | 0.149 | 0.149 |
| | 3EP1A | Mol Sieve Heater | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 3EP1B | Cryo HMO Heater | 1.115 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 1.115 | 0.015 | 0.098 | 0.098 |
| | 3EP1E | Glycol Reboiler | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 4EP1A | Mol Sieve Heater | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 4EP1B | Cryo HMO Heater | 1.115 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 1.115 | 0.015 | 0.098 | 0.098 |
| | 4EP1D | Amine Reboiler | 2.302 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 2.302 | 0.053 | 0.338 | 0.338 |
| | 4EP1E | Glycol Reboiler | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 4EP1H | Amine Reboiler | 2.302 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 2.302 | 0.053 | 0.338 | 0.338 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 2.698 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 2.698 | 0.062 | 0.396 | 0.396 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 2.698 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 2.698 | 0.062 | 0.396 | 0.396 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 0.481 | 0.336 | 6.215E-03 | 0.040 | 0.040 | 1.243E-04 | 0.481 | 6.215E-03 | 0.040 | 0.040 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 1.020 | 1.258 | 0.023 | 0.150 | 0.150 | 4.653E-04 | 1.020 | 0.023 | 0.150 | 0.150 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 0.482 | 0.337 | 6.229E-03 | 0.040 | 0.040 | 1.246E-04 | 2.698 | 6.229E-03 | 0.040 | 0.040 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 1.693 | 1.252 | 0.023 | 0.149 | 0.149 | 4.634E-04 | 0.482 | 0.023 | 0.149 | 0.149 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 2.698 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.693 | 0.062 | 0.396 | 0.396 |
| | 5.5EP1A | AGI 2 HMO Heater | 2.677 | 3.302 | 0.061 | 0.393 | 0.393 | 1.222E-03 | 2.677 | 0.061 | 0.393 | 0.393 |
| Flares | 1EP2 | Flare (SSM) | 454.943 | 1810.626 | 3.620 | - | - | 0.039 | 6.21E-01 | 1.50E-01 | - | - |
| | 2EP2A | Emergency Flare A (Inlet) | 1211.880 | 4825.739 | 5.002 | - | - | 0.060 | 3.55E-01 | 1.62E-03 | - | - |
| | 2.5EP5 | Emergency AGI Flare | 19.684 | 168.773 | 346.798 | - | - | 3.772 | 9.05E-01 | 1.58E+01 | - | - |
| | 3EP2A | Flare (SSM) | 1211.880 | 4825.739 | 5.002 | - | - | 0.060 | 3.64E-01 | 1.64E-03 | - | - |
| | 4EP2A | Flare (SSM) | 1394.118 | 5550.509 | 5.754 | - | - | 0.069 | 7.55E-01 | 3.45E-03 | - | - |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 1394.009 | 5550.292 | 5.753 | - | - | 0.069 | 9.05E-01 | 8.79E+00 | - | - |
| | 5.5EP1B | AGI 2 Flare SSM | - | - | - | - | - | - | 2.15E+00 | 6.38E+01 | - | - |
| | EP9 | Sour Slop Tank Control Flare | 0.760 | 3.058 | 1.595 | - | - | 0.020 | 1.62E-03 | 1.60E+00 | - | - |
| | EP13 | Sour Water Tanks Flare | 3.191 | 12.741 | 1.813 | - | - | 0.024 | 7.08E-03 | 1.81E+00 | - | - |
| | EP79 | Condensate Tank Flare | 7.730 | 30.759 | 6.588E-05 | - | - | 7.143E-07 | 6.84E-02 | 6.59E-05 | - | - |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 2.451 | 9.009 | 19.361 | 0.671 | 0.671 | 9.754 | 1.537 | 19.361 | 0.671 | 0.671 |
| | EP8 | Thermal Oxidizer | 1.250 | 0.761 | 14.074 | 0.596 | 0.596 | 6.441 | 1.368 | 14.075 | 0.596 | 0.596 |
| | EP10 | Thermal Oxidizer | 1.240 | 0.755 | 14.149 | 0.559 | 0.559 | 6.471 | 1.361 | 14.150 | 0.559 | 0.559 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | - | - | - | - | - | 1.480E-04 | - | - | - | - |
| Generators | GEN1 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN2 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN3 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN4 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN5 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN6 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN7 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN8 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN9 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN10 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILEI | 0.305 | 0.185 | 0.594 | 0.023 | 0.023 | - | 0.0014 | 0.0027 | 0.0001 | 0.0001 |
| | GEN_WW | Well Water Generator | 0.316 | 0.040 | 0.041 | 0.043 | 0.043 | - | 0.0043 | 0.0006 | 0.0006 | 0.0006 |

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# AERMOD Inputs Summary - Scenario 2

| | Point Sources | | Short-Term Emissions (g/s) | | | | | | Long-Term Emissions (g/s) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Emission Units** | **Description** | **1-hr $NO_x$** | **CO** | **1-hr $SO_2$** | **24-hr $PM_{10}$** | **24-hr $PM_{2.5}$** | **$H_2S$** | **Annual $NO_x$** | **Annual $SO_2$** | **Annual $PM_{10}$** | **Annual $PM_{2.5}$** |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 0.268 | 0.198 | 3.665E-03 | 0.024 | 0.024 | 7.331E-05 | 0.268 | 3.665E-03 | 0.024 | 0.024 |
| | 1.5EP1G | 10k Stabilizer Heater | 0.140 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.140 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1G | 10 k Stabilizer Heater | 0.111 | 0.061 | 1.135E-03 | 7.296E-03 | 7.296E-03 | 2.270E-05 | 0.111 | 1.135E-03 | 7.296E-03 | 7.296E-03 |
| | 2EP1A | Mol Sieve Heater | 0.119 | 0.045 | 8.280E-04 | 8.467E-03 | 8.467E-03 | 1.656E-05 | 0.119 | 8.280E-04 | 8.467E-03 | 8.467E-03 |
| | 2EP1B | Cryo HMO Heater | 0.140 | 0.108 | 2.001E-03 | 0.020 | 0.020 | 4.002E-05 | 0.140 | 2.001E-03 | 0.020 | 0.020 |
| | 2EP1E | Gylcol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 2EP1H | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2AEP1D | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2.5EP1D | Amine Reboiler | 0.214 | 0.158 | 2.924E-03 | 0.019 | 0.019 | 5.848E-05 | 0.214 | 2.924E-03 | 0.019 | 0.019 |
| | 3EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 3EP1B | Cryo HMO Heater | 0.140 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.140 | 1.923E-03 | 0.012 | 0.012 |
| | 3EP1E | Glycol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 4EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 4EP1B | Cryo HMO Heater | 0.140 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.140 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1D | Amine Reboiler | 0.290 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.290 | 6.618E-03 | 0.043 | 0.043 |
| | 4EP1E | Glycol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 4EP1H | Amine Reboiler | 0.290 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.290 | 6.618E-03 | 0.043 | 0.043 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 0.340 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.340 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 0.340 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.340 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 0.061 | 0.042 | 7.831E-04 | 5.034E-03 | 5.034E-03 | 1.566E-05 | 0.061 | 7.831E-04 | 5.034E-03 | 5.034E-03 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 0.128 | 0.158 | 2.932E-03 | 0.019 | 0.019 | 5.863E-05 | 0.128 | 2.932E-03 | 0.019 | 0.019 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 0.061 | 0.042 | 7.848E-04 | 5.045E-03 | 5.045E-03 | 1.570E-05 | 0.340 | 7.848E-04 | 5.045E-03 | 5.045E-03 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 0.213 | 0.158 | 2.919E-03 | 0.019 | 0.019 | 5.839E-05 | 0.061 | 2.919E-03 | 0.019 | 0.019 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 0.340 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.213 | 7.757E-03 | 0.050 | 0.050 |
| | 5.5EP1A | AGI 2 HMO Heater | 0.337 | 0.416 | 7.697E-03 | 0.049 | 0.049 | 1.539E-04 | 0.337 | 7.697E-03 | 0.049 | 0.049 |
| Flares | 1EP2 | Flare (SSM) | 57.322 | 228.135 | 0.456 | 0 | 0 | 4.955E-03 | 0.078 | 0.019 | 0 | 0 |
| | 2EP2A | Emergency Flare A (Inlet) | 152.694 | 608.033 | 0.630 | 0 | 0 | 7.586E-03 | 0.045 | 2.046E-04 | 0 | 0 |
| | 2.5EP5 | Emergency AGI Flare | 2.480 | 21.265 | 43.696 | 0 | 0 | 0.475 | 0.114 | 1.996 | 0 | 0 |
| | 3EP2A | Flare (SSM) | 152.694 | 608.033 | 0.630 | 0 | 0 | 7.545E-03 | 0.046 | 2.062E-04 | 0 | 0 |
| | 4EP2A | Flare (SSM) | 175.656 | 699.352 | 0.725 | 0 | 0 | 8.722E-03 | 0.095 | 4.353E-04 | 0 | 0 |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 175.642 | 699.325 | 0.725 | 0 | 0 | 8.679E-03 | 0.114 | 1.107 | 0 | 0 |
| | 5.5EP1B | AGI 2 Flare SSM | - | 0 | 0 | 0 | 0 | 0 | 0.271 | 8.043 | 0 | 0 |
| | EP9 | Sour Slop Tank Control Flare | 0.096 | 0.385 | 0.201 | 0 | 0 | 2.535E-03 | 2.037E-04 | 0.201 | 0 | 0 |
| | EP13 | Sour Water Tanks Flare | 0.402 | 1.605 | 0.228 | 0 | 0 | 2.965E-03 | 8.921E-04 | 0.228 | 0 | 0 |
| | EP79 | Condensate Tank Flare | 0.974 | 3.876 | 8.301E-06 | 0 | 0 | 9.000E-08 | 8.619E-03 | 8.301E-06 | 0 | 0 |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 0.309 | 1.135 | 2.439 | 0.084 | 0.084 | 1.229 | 0.194 | 2.439 | 0.084 | 0.084 |
| | EP8 | Thermal Oxidizer | 0.157 | 0.096 | 1.773 | 0.075 | 0.075 | 0.812 | 0.172 | 1.773 | 0.075 | 0.075 |
| | EP10 | Thermal Oxidizer | 0.156 | 0.095 | 1.783 | 0.070 | 0.070 | 0.815 | 0.172 | 1.783 | 0.070 | 0.070 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | - | 0 | 0 | 0 | 0 | 1.865E-05 | 0 | 0 | 0 | 0 |
| Generators | GEN1 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN2 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN3 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN4 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN5 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN6 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN7 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN8 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN9 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN10 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILEI | 3.839E-02 | 2.328E-02 | 7.488E-02 | 2.950E-03 | 2.950E-03 | 0.000E+00 | 1.753E-04 | 3.419E-04 | 1.347E-05 | 1.347E-05 |
| | GEN_WW | Well Water Generator | 3.976E-02 | 5.085E-03 | 5.116E-03 | 5.468E-03 | 5.468E-03 | 0.000E+00 | 5.447E-04 | 7.008E-05 | 7.491E-05 | 7.491E-05 |

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# AERMOD Inputs Summary - Scenario #3

| | Point Sources | | Stack Locations | | | Stack Parameters | | | |
|---|---|---|---|---|---|---|---|---|---|
| | **Emission Units** | **Description** | **X Coordinate (m)** | **Y Coordinate (m)** | **Elevation (m)** | **Stack Height (m)** | **Stack Temperature (K)** | **Stack Velocity (m/s)** | **Stack Diameter (m)** |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 639181 | 3565054 | 1092.76 | 15.24 | 602.04 | 6.97 | 1.27 |
| | 1.5EP1G | 10k Stabilizer Heater | 639160 | 3565063 | 1092.94 | 5.19 | 602.04 | 7.07 | 0.91 |
| | 4EP1G | 10 k Stabilizer Heater | 638738 | 3565708 | 1093.81 | 5.64 | 652.59 | 10.17 | 0.61 |
| | 2EP1A | Mol Sieve Heater | 639109 | 3565471 | 1093.58 | 5.03 | 560.93 | 7.59 | 0.56 |
| | 2EP1B | Cryo HMO Heater | 639108 | 3565468 | 1093.59 | 7.01 | 422.04 | 3.16 | 1.17 |
| | 2EP1E | Gylcol Reboiler | 638985 | 3565317 | 1093.32 | 8.10 | 602.04 | 2.78 | 0.61 |
| | 2EP1H | Amine Reboiler | 639024 | 3565335 | 1093.36 | 8.38 | 560.93 | 11.48 | 1.27 |
| | 2AEP1D | Amine Reboiler | 639025 | 3565316 | 1093.29 | 8.38 | 477.59 | 13.85 | 1.07 |
| | 2.5EP1D | Amine Reboiler | 639537 | 3565192 | 1090.66 | 7.19 | 568.15 | 12.83 | 0.81 |
| | 3EP1A | Mol Sieve Heater | 638877 | 3565321 | 1093.23 | 6.86 | 523.71 | 12.90 | 0.41 |
| | 3EP1B | Cryo HMO Heater | 638886 | 3565318 | 1093.25 | 8.08 | 523.71 | 10.19 | 0.71 |
| | 3EP1E | Glycol Reboiler | 638983 | 3565333 | 1093.31 | 9.91 | 602.04 | 22.70 | 0.21 |
| | 4EP1A | Mol Sieve Heater | 638797 | 3565896 | 1092.53 | 7.01 | 523.71 | 12.90 | 0.41 |
| | 4EP1B | Cryo HMO Heater | 638789 | 3565898 | 1092.61 | 8.23 | 523.71 | 10.19 | 0.71 |
| | 4EP1D | Amine Reboiler | 638693 | 3565901 | 1093.68 | 13.18 | 533.15 | 35.70 | 0.71 |
| | 4EP1E | Glycol Reboiler | 638738 | 3565903 | 1093 | 8.15 | 533.15 | 1.81 | 0.71 |
| | 4EP1H | Amine Reboiler | 638694 | 3565881 | 1093.67 | 13.18 | 533.15 | 35.70 | 0.71 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 638586 | 3565901 | 1094.68 | 13.79 | 533.71 | 14.21 | 1.22 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 638587 | 3565881 | 1094.74 | 13.79 | 533.71 | 14.21 | 1.22 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 638925 | 3565919 | 1091.89 | 6.93 | 523.71 | 4.15 | 0.71 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 638915 | 3565920 | 1092.07 | 9.14 | 523.71 | 5.27 | 1.22 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 638907 | 3565921 | 1092.15 | 8.59 | 560.93 | 13.60 | 0.41 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 638895 | 3565918 | 1092.2 | 11.20 | 523.71 | 11.81 | 0.81 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 638584 | 3565932 | 1094.69 | 13.93 | 510.93 | 13.61 | 1.22 |
| | 5.5EP1A | AGI 2 HMO Heater | 639562 | 3565404 | 1089.73 | 13.72 | 510.93 | 39.79 | 0.71 |
| Flares | 1EP2 | Flare (SSM) | 639217 | 3565202 | 1093.05 | 65.16 | 1273.00 | 20.00 | 13.41 |
| | 2EP2A | Emergency Flare A (Inlet) | 639187 | 3565436 | 1093.6 | 102.92 | 1273.00 | 20.00 | 21.88 |
| | 2.5EP5 | Emergency AGI Flare | 639512 | 3565274 | 1090.62 | 60.00 | 1273.00 | 20.00 | 4.09 |
| | 3EP2A | Flare (SSM) | 638844 | 3565244 | 1093.95 | 102.92 | 1273.00 | 20.00 | 21.88 |
| | 4EP2A | Flare (SSM) | 638832 | 3565976 | 1092.68 | 107.93 | 1273.00 | 20.00 | 23.47 |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 638958 | 3565980 | 1092.68 | 138.10 | 1273.00 | 20.00 | 23.47 |
| | 5.5EP1B | AGI 2 Flare SSM | 639542 | 3565339 | 1090.58 | 66.30 | 1273.00 | 20.00 | 6.32 |
| | EP9 | Sour Slop Tank Control Flare | 639595 | 3565278 | 1090.2 | 6.73 | 1273.00 | 20.00 | 0.08 |
| | EP13 | Sour Water Tanks Flare | 639628 | 3565443 | 1088.96 | 7.95 | 1273.00 | 20.00 | 0.08 |
| | EP79 | Condensate Tank Flare | 639513 | 3564914 | 1090.35 | 9.67 | 1273.00 | 20.00 | 0.11 |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 639010 | 3565298 | 1093.2 | 18.82 | 1088.71 | 1.38 | 3.05 |
| | EP8 | Thermal Oxidizer | 638713 | 3565923 | 1093.43 | 20.73 | 1088.71 | 1.65 | 3.05 |
| | EP10 | Thermal Oxidizer | 638602 | 3565931 | 1094.55 | 23.16 | 1255.37 | 117.56 | 3.05 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | 638497 | 3565657 | 1095.25 | 1.83 | 0.00 | 0.30 | 0.33 |
| Generators | GEN1 | Diesel Fired Generator | 638566.7 | 3565975.9 | 1094.71 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN2 | Diesel Fired Generator | 638663.5 | 3565509.8 | 1095.48 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN3 | Diesel Fired Generator | 638663.4 | 3565529.8 | 1095.27 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN4 | Diesel Fired Generator | 638787.2 | 3565307.1 | 1092.93 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN5 | Diesel Fired Generator | 639260.2 | 3565419.5 | 1091.22 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN6 | Diesel Fired Generator | 639637.4 | 3565517.7 | 1089.85 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN7 | Diesel Fired Generator | 639631.2 | 3565285.6 | 1088.85 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN8 | Diesel Fired Generator | 639395.1 | 3565200.8 | 1091.95 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN9 | Diesel Fired Generator | 639160.9 | 3564906.5 | 1092.82 | 4.51 | 689.82 | 22.01 | 0.21 |
| | GEN10 | Diesel Fired Generator | 639394.5 | 3564891.1 | 1091.17 | 4.51 | 689.82 | 22.01 | 0.21 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 638663.5 | 3565519.8 | 1095.39 | 4.51 | 689.82 | 93.21 | 0.21 |
| | GEN_WW | Well Water Generator | 638377 | 3565219 | 1093.36 | 4.57 | 500.00 | 5.00 | 0.08 |

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*Targa Northern Delaware LLC - Red Hills Gas Processing Plant*

# AERMOD Inputs Summary - Scenario #3

| | Point Sources | | Short-Term Emissions (lb/hr) | | | | | | Long-Term Emissions (lb/hr) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Emission Units** | **Description** | **1-hr $NO_x$** | **CO** | **1-hr $SO_2$** | **24-hr $PM_{10}$** | **24-hr $PM_{2.5}$** | **$H_2S$** | **Annual $NO_x$** | **Annual $SO_2$** | **Annual $PM_{10}$** | **Annual $PM_{2.5}$** |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 2.125 | 1.573 | 0.029 | 0.187 | 0.187 | 5.818E-04 | 2.125 | 0.029 | 0.187 | 0.187 |
| | 1.5EP1G | 10k Stabilizer Heater | 1.115 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 1.115 | 0.015 | 0.098 | 0.098 |
| | 4EP1G | 10 k Stabilizer Heater | 0.882 | 0.487 | 0.0090 | 0.058 | 0.058 | 1.802E-04 | 0.882 | 9.008E-03 | 0.058 | 0.058 |
| | 2EP1A | Mol Sieve Heater | 0.941 | 0.355 | 6.571E-03 | 0.067 | 0.067 | 1.314E-04 | 0.941 | 6.571E-03 | 0.067 | 0.067 |
| | 2EP1B | Cryo HMO Heater | 1.114 | 0.858 | 0.016 | 0.162 | 0.162 | 3.176E-04 | 1.114 | 0.016 | 0.162 | 0.162 |
| | 2EP1E | Gylcol Reboiler | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 2EP1H | Amine Reboiler | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2AEP1D | Amine Reboiler | 1.331 | 2.700 | 0.051 | 0.330 | 0.330 | 1.027E-03 | 1.331 | 0.051 | 0.330 | 0.330 |
| | 2.5EP1D | Amine Reboiler | 1.695 | 1.254 | 0.023 | 0.149 | 0.149 | 4.641E-04 | 1.695 | 0.023 | 0.149 | 0.149 |
| | 3EP1A | Mol Sieve Heater | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 3EP1B | Cryo HMO Heater | 1.115 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 1.115 | 0.015 | 0.098 | 0.098 |
| | 3EP1E | Glycol Reboiler | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 4EP1A | Mol Sieve Heater | 0.488 | 0.340 | 6.297E-03 | 0.040 | 0.040 | 1.259E-04 | 0.488 | 6.297E-03 | 0.040 | 0.040 |
| | 4EP1B | Cryo HMO Heater | 1.115 | 0.825 | 0.015 | 0.098 | 0.098 | 3.053E-04 | 1.115 | 0.015 | 0.098 | 0.098 |
| | 4EP1D | Amine Reboiler | 2.302 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 2.302 | 0.053 | 0.338 | 0.338 |
| | 4EP1E | Glycol Reboiler | 0.382 | 0.144 | 2.670E-03 | 0.017 | 0.017 | 5.339E-05 | 0.382 | 2.670E-03 | 0.017 | 0.017 |
| | 4EP1H | Amine Reboiler | 2.302 | 2.839 | 0.053 | 0.338 | 0.338 | 1.050E-03 | 2.302 | 0.053 | 0.338 | 0.338 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 2.698 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 2.698 | 0.062 | 0.396 | 0.396 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 2.698 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 2.698 | 0.062 | 0.396 | 0.396 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 0.481 | 0.336 | 6.215E-03 | 0.040 | 0.040 | 1.243E-04 | 0.481 | 6.215E-03 | 0.040 | 0.040 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 1.020 | 1.258 | 0.023 | 0.150 | 0.150 | 4.653E-04 | 1.020 | 0.023 | 0.150 | 0.150 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 0.482 | 0.337 | 6.229E-03 | 0.040 | 0.040 | 1.246E-04 | 2.698 | 6.229E-03 | 0.040 | 0.040 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 1.693 | 1.252 | 0.023 | 0.149 | 0.149 | 4.634E-04 | 0.482 | 0.023 | 0.149 | 0.149 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 2.698 | 3.328 | 0.062 | 0.396 | 0.396 | 1.231E-03 | 1.693 | 0.062 | 0.396 | 0.396 |
| | 5.5EP1A | AGI 2 HMO Heater | 2.677 | 3.302 | 0.061 | 0.393 | 0.393 | 1.222E-03 | 2.677 | 0.061 | 0.393 | 0.393 |
| Flares | 1EP2 | Flare (SSM) | 454.943 | 1810.626 | 3.620 | - | - | 0.039 | 6.21E-01 | 1.50E-01 | - | - |
| | 2EP2A | Emergency Flare A (Inlet) | 1211.880 | 4825.739 | 5.002 | - | - | 0.060 | 3.55E-01 | 1.62E-03 | - | - |
| | 2.5EP5 | Emergency AGI Flare | - | - | - | - | - | - | 9.05E-01 | 1.58E+01 | - | - |
| | 3EP2A | Flare (SSM) | 1211.880 | 4825.739 | 5.002 | - | - | 0.060 | 3.64E-01 | 1.64E-03 | - | - |
| | 4EP2A | Flare (SSM) | 1394.118 | 5550.509 | 5.754 | - | - | 0.069 | 7.55E-01 | 3.45E-03 | - | - |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 1394.009 | 5550.292 | 5.753 | - | - | 0.069 | 9.05E-01 | 8.79E+00 | - | - |
| | 5.5EP1B | AGI 2 Flare SSM | 64.307 | 402.778 | 1397.808 | - | - | 15.155 | 2.15E+00 | 6.38E+01 | - | - |
| | EP9 | Sour Slop Tank Control Flare | 0.760 | 3.058 | 1.595 | - | - | 0.020 | 1.62E-03 | 1.60E+00 | - | - |
| | EP13 | Sour Water Tanks Flare | 3.191 | 12.741 | 1.813 | - | - | 0.024 | 7.08E-03 | 1.81E+00 | - | - |
| | EP79 | Condensate Tank Flare | 7.730 | 30.759 | 6.588E-05 | - | - | 7.143E-07 | 6.84E-02 | 6.59E-05 | - | - |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 2.451 | 9.009 | 19.361 | 0.671 | 0.671 | 9.754 | 1.537 | 19.361 | 0.671 | 0.671 |
| | EP8 | Thermal Oxidizer | 1.250 | 0.761 | 14.074 | 0.596 | 0.596 | 6.441 | 1.368 | 14.075 | 0.596 | 0.596 |
| | EP10 | Thermal Oxidizer | 1.240 | 0.755 | 14.149 | 0.559 | 0.559 | 6.471 | 1.361 | 14.150 | 0.559 | 0.559 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | - | - | - | - | - | 1.480E-04 | - | - | - | - |
| Generators | GEN1 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN2 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN3 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN4 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN5 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN6 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN7 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN8 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN9 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | GEN10 | Diesel Fired Generator | 0.330 | 2.860 | 0.006 | 0.017 | 0.017 | - | 0.0188 | 0.0003 | 0.0009 | 0.0009 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 0.305 | 0.185 | 0.594 | 0.023 | 0.023 | - | 0.0014 | 0.0027 | 0.0001 | 0.0001 |
| | GEN_WW | Well Water Generator | 0.316 | 0.040 | 0.041 | 0.043 | 0.043 | - | 0.0043 | 0.0006 | 0.0006 | 0.0006 |

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## AERMOD Inputs Summary - Scenario #3

| | Point Sources | | Short-Term Emissions (g/s) | | | | | | Long-Term Emissions (g/s) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Emission Units** | **Description** | **1-hr $NO_x$** | **CO** | **1-hr $SO_2$** | **24-hr $PM_{10}$** | **24-hr $PM_{2.5}$** | **$H_2S$** | **Annual $NO_x$** | **Annual $SO_2$** | **Annual $PM_{10}$** | **Annual $PM_{2.5}$** |
| Heaters and Reboilers | 1EP1 | Hot Oil Heater | 0.268 | 0.198 | 3.665E-03 | 0.024 | 0.024 | 7.331E-05 | 0.268 | 3.665E-03 | 0.024 | 0.024 |
| | 1.5EP1G | 10k Stabilizer Heater | 0.140 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.140 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1G | 10 k Stabilizer Heater | 0.111 | 0.061 | 1.135E-03 | 7.296E-03 | 7.296E-03 | 2.270E-05 | 0.111 | 1.135E-03 | 7.296E-03 | 7.296E-03 |
| | 2EP1A | Mol Sieve Heater | 0.119 | 0.045 | 8.280E-04 | 8.467E-03 | 8.467E-03 | 1.656E-05 | 0.119 | 8.280E-04 | 8.467E-03 | 8.467E-03 |
| | 2EP1B | Cryo HMO Heater | 0.140 | 0.108 | 2.001E-03 | 0.020 | 0.020 | 4.002E-05 | 0.140 | 2.001E-03 | 0.020 | 0.020 |
| | 2EP1E | Gylcol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 2EP1H | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2AEP1D | Amine Reboiler | 0.168 | 0.340 | 6.469E-03 | 0.042 | 0.042 | 1.294E-04 | 0.168 | 6.469E-03 | 0.042 | 0.042 |
| | 2.5EP1D | Amine Reboiler | 0.214 | 0.158 | 2.924E-03 | 0.019 | 0.019 | 5.848E-05 | 0.214 | 2.924E-03 | 0.019 | 0.019 |
| | 3EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 3EP1B | Cryo HMO Heater | 0.140 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.140 | 1.923E-03 | 0.012 | 0.012 |
| | 3EP1E | Glycol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 4EP1A | Mol Sieve Heater | 0.061 | 0.043 | 7.935E-04 | 5.100E-03 | 5.100E-03 | 1.587E-05 | 0.061 | 7.935E-04 | 5.100E-03 | 5.100E-03 |
| | 4EP1B | Cryo HMO Heater | 0.140 | 0.104 | 1.923E-03 | 0.012 | 0.012 | 3.847E-05 | 0.140 | 1.923E-03 | 0.012 | 0.012 |
| | 4EP1D | Amine Reboiler | 0.290 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.290 | 6.618E-03 | 0.043 | 0.043 |
| | 4EP1E | Glycol Reboiler | 0.048 | 0.018 | 3.364E-04 | 2.162E-03 | 2.162E-03 | 6.727E-06 | 0.048 | 3.364E-04 | 2.162E-03 | 2.162E-03 |
| | 4EP1H | Amine Reboiler | 0.290 | 0.358 | 6.618E-03 | 0.043 | 0.043 | 1.324E-04 | 0.290 | 6.618E-03 | 0.043 | 0.043 |
| | 5EP1A | Train 5 - Amine/Glycol Reboiler 1 | 0.340 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.340 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1B | Train 5 - Amine/Glycol Reboiler 2 | 0.340 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.340 | 7.757E-03 | 0.050 | 0.050 |
| | 5EP1C | Cryo Train 5 - Mol Sieve Heater | 0.061 | 0.042 | 7.831E-04 | 5.034E-03 | 5.034E-03 | 1.566E-05 | 0.061 | 7.831E-04 | 5.034E-03 | 5.034E-03 |
| | 5EP1D | Cryo Train 5 - HMO Heater | 0.128 | 0.158 | 2.932E-03 | 0.019 | 0.019 | 5.863E-05 | 0.128 | 2.932E-03 | 0.019 | 0.019 |
| | 6EP1C | Cryo Train 6 - Mole Sieve Heater | 0.061 | 0.042 | 7.848E-04 | 5.045E-03 | 5.045E-03 | 1.570E-05 | 0.340 | 7.848E-04 | 5.045E-03 | 5.045E-03 |
| | 6EP1D | Cryo Train 6 - HMO Heater | 0.213 | 0.158 | 2.919E-03 | 0.019 | 0.019 | 5.839E-05 | 0.061 | 2.919E-03 | 0.019 | 0.019 |
| | 6EP1A | Train 6 - Amine/Glycol Reboiler 1 | 0.340 | 0.419 | 7.757E-03 | 0.050 | 0.050 | 1.551E-04 | 0.213 | 7.757E-03 | 0.050 | 0.050 |
| | 5.5EP1A | AGI 2 HMO Heater | 0.337 | 0.416 | 7.697E-03 | 0.049 | 0.049 | 1.539E-04 | 0.337 | 7.697E-03 | 0.049 | 0.049 |
| Flares | 1EP2 | Flare (SSM) | 57.322 | 228.135 | 0.456 | 0 | 0 | 4.955E-03 | 0.078 | 0.019 | 0 | 0 |
| | 2EP2A | Emergency Flare A (Inlet) | 152.694 | 608.033 | 0.630 | 0 | 0 | 7.586E-03 | 0.045 | 2.046E-04 | 0 | 0 |
| | 2.5EP5 | Emergency AGI Flare | - | 0 | 0 | 0 | 0 | 0 | 0.114 | 1.996 | 0 | 0 |
| | 3EP2A | Flare (SSM) | 152.694 | 608.033 | 0.630 | 0 | 0 | 7.545E-03 | 0.046 | 2.062E-04 | 0 | 0 |
| | 4EP2A | Flare (SSM) | 175.656 | 699.352 | 0.725 | 0 | 0 | 8.722E-03 | 0.095 | 4.353E-04 | 0 | 0 |
| | 5EP2 | Cryo 5 & 6 Flare SSM | 175.642 | 699.325 | 0.725 | 0 | 0 | 8.679E-03 | 0.114 | 1.107 | 0 | 0 |
| | 5.5EP1B | AGI 2 Flare SSM | 8.102 | 50.749 | 176.121 | 0 | 0 | 1.909 | 0.271 | 8.043 | 0 | 0 |
| | EP9 | Sour Slop Tank Control Flare | 0.096 | 0.385 | 0.201 | 0 | 0 | 2.535E-03 | 2.037E-04 | 0.201 | 0 | 0 |
| | EP13 | Sour Water Tanks Flare | 0.402 | 1.605 | 0.228 | 0 | 0 | 2.965E-03 | 8.921E-04 | 0.228 | 0 | 0 |
| | EP79 | Condensate Tank Flare | 0.974 | 3.876 | 8.301E-06 | 0 | 0 | 9.000E-08 | 8.619E-03 | 8.301E-06 | 0 | 0 |
| Thermal Oxidizers | EP5 | Thermal Oxidizer | 0.309 | 1.135 | 2.439 | 0.084 | 0.084 | 1.229 | 0.194 | 2.439 | 0.084 | 0.084 |
| | EP8 | Thermal Oxidizer | 0.157 | 0.096 | 1.773 | 0.075 | 0.075 | 0.812 | 0.172 | 1.773 | 0.075 | 0.075 |
| | EP10 | Thermal Oxidizer | 0.156 | 0.095 | 1.783 | 0.070 | 0.070 | 0.815 | 0.172 | 1.783 | 0.070 | 0.070 |
| Pig Launchers and Receivers | REC6 | Pig Receiver | - | 0 | 0 | 0 | 0 | 1.865E-05 | 0 | 0 | 0 | 0 |
| Generators | GEN1 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN2 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN3 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN4 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN5 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN6 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN7 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN8 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN9 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | GEN10 | Diesel Fired Generator | 4.158E-02 | 3.604E-01 | 7.620E-04 | 2.079E-03 | 2.079E-03 | 0.000E+00 | 2.373E-03 | 4.349E-05 | 1.187E-04 | 1.187E-04 |
| | TRAILER | RH, DIESEL FIRED HEATER TRAILER | 3.839E-02 | 2.328E-02 | 7.488E-02 | 2.950E-03 | 2.950E-03 | 0.000E+00 | 1.753E-04 | 3.419E-04 | 1.347E-05 | 1.347E-05 |
| | GEN_WW | Well Water Generator | 3.976E-02 | 5.085E-03 | 5.116E-03 | 5.468E-03 | 5.468E-03 | 0.000E+00 | 5.447E-04 | 7.008E-05 | 7.491E-05 | 7.491E-05 |

| Volume Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | | | Long-Term Emissions (lb/hr) | | Short-Term Emissions (g/s) | | | Long-Term Emissions (g/s) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Release Height (m) | Initial Lateral Dimension (m) | Initial Vertical Dimension (m) | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| RRGBOO01 | RRGBOO | 638556.7 | 3565558.4 | 1096.16 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO02 | RRGBOO | 638573.6 | 3565559.3 | 1096 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO03 | RRGBOO | 638591.6 | 3565559.1 | 1095.88 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO04 | RRGBOO | 638609.6 | 3565558.9 | 1095.75 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO05 | RRGBOO | 638627.6 | 3565558.7 | 1095.41 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO06 | RRGBOO | 638645.6 | 3565558.5 | 1095.32 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO07 | RRGBOO | 638663.6 | 3565558.3 | 1095.19 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO08 | RRGBOO | 638681.6 | 3565558.1 | 1094.92 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO09 | RRGBOO | 638699.6 | 3565557.9 | 1094.78 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO10 | RRGBOO | 638717.6 | 3565557.8 | 1094.59 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO11 | RRGBOO | 638735.6 | 3565557.6 | 1094.46 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO12 | RRGBOO | 638753.6 | 3565557.4 | 1094.34 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO13 | RRGBOO | 638771.6 | 3565557.2 | 1093.91 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO14 | RRGBOO | 638789.6 | 3565557 | 1093.11 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO15 | RRGBOO | 638807.6 | 3565556.8 | 1093.08 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO16 | RRGBOO | 638825.6 | 3565556.6 | 1093.01 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO17 | RRGBOO | 638843.6 | 3565556.4 | 1092.93 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO18 | RRGBOO | 638861.6 | 3565556.2 | 1092.85 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO19 | RRGBOO | 638879.6 | 3565556 | 1092.78 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGBOO20 | RRGBOO | 638897.6 | 3565555.8 | 1092.72 | 3.4 | 8.372093 | 3.162791 | 0.00414337 | 0.0004143 | 0 | 0.003349 | 0.000335 | 0.000522 | 5.22056E-05 | 0 | 0.000422 | 4.21936E-05 |
| RRGOO066 | RRGOO | 638918.5 | 3565555.6 | 1092.64 | 3.4 | 8.372093 | 3.162791 | 0.00326625 | 0.0003266 | 0 | 0.00264 | 0.000264 | 0.000412 | 4.11541E-05 | 0 | 0.000333 | 3.32615E-05 |
| RRGOO067 | RRGOO | 638936.5 | 3565555.5 | 1092.59 | 3.4 | 8.372093 | 3.162791 | 0.00326625 | 0.0003266 | 0 | 0.00264 | 0.000264 | 0.000412 | 4.11541E-05 | 0 | 0.000333 | 3.32615E-05 |
| RRGOO068 | RRGOO | 638954.5 | 3565555.3 | 1092.51 | 3.4 | 8.372093 | 3.162791 | 0.00326625 | 0.0003266 | 0 | 0.00264 | 0.000264 | 0.000412 | 4.11541E-05 | 0 | 0.000333 | 3.32615E-05 |
| RRGOO069 | RRGOO | 638972.5 | 3565555.1 | 1092.44 | 3.4 | 8.372093 | 3.162791 | 0.00326625 | 0.0003266 | 0 | 0.00264 | 0.000264 | 0.000412 | 4.11541E-05 | 0 | 0.000333 | 3.32615E-05 |
| RRGOO070 | RRGOO | 638990.5 | 3565555 | 1092.35 | 3.4 | 8.372093 | 3.162791 | 0.00326625 | 0.0003266 | 0 | 0.00264 | 0.000264 | 0.000412 | 4.11541E-05 | 0 | 0.000333 | 3.32615E-05 |
| RRGOO071 | RRGOO | 639008.5 | 3565554.8 | 1092.33 | 3.4 | 8.372093 | 3.162791 | 0.00326625 | 0.0003266 | 0 | 0.00264 | 0.000264 | 0.000412 | 4.11541E-05 | 0 | 0.000333 | 3.32615E-05 |
| RRGOO072 | RRGOO | 639026.5 | 3565554.7 | 1092.03 | 3.4 | 8.372093 | 3.162791 | 0.00326625 | 0.0003266 | 0 | 0.00264 | 0.000264 | 0.000412 | 4.11541E-05 | 0 | 0.000333 | 3.32615E-05 |
| RRGOO073 | RRGOO | 639044.5 | 3565554.5 | 1092.26 | 3.4 | 8.372093 | 3.162791 | 0.00326625 | 0.0003266 | 0 | 0.00264 | 0.000264 | 0.000412 | 4.11541E-05 | 0 | 0.000333 | 3.32615E-05 |
| RRGOO074 | RRGOO | 639062.5 | 3565554.3 | 1092.24 | 3.4 | 8.372093 | 3.162791 | 0.00326625 | 0.0003266 | 0 | 0.00264 | 0.000264 | 0.000412 | 4.11541E-05 | 0 | 0.000333 | 3.32615E-05 |
| RRGOO075 | RRGOO | 639080.5 | 3565554.2 | 1092.27 | 3.4 | 8.372093 | 3.162791 | 0.00326625 | 0.0003266 | 0 | 0.00264 | 0.000264 | 0.000412 | 4.11541E-05 | 0 | 0.000333 | 3.32615E-05 |
| RRGOO076 | RRGOO | 639098.5 | 3565554 | 1092.43 | 3.4 | 8.372093 | 3.162791 | 0.00326625 | 0.0003266 | 0 | 0.00264 | 0.000264 | 0.000412 | 4.11541E-05 | 0 | 0.000333 | 3.32615E-05 |
| RRGOO077 | RRGOO | 639116.5 | 3565553.9 | 1092.27 | 3.4 | 8.372093 | 3.162791 | 0.00326625 | 0.0003266 | 0 | 0.00264 | 0.000264 | 0.000412 | 4.11541E-05 | 0 | 0.000333 | 3.32615E-05 |
| O1O2078 | Orange 1 and 2 | 639129.3 | 3565546.4 | 1092.95 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2079 | Orange 1 and 2 | 639139.6 | 3565531.7 | 1093.18 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2080 | Orange 1 and 2 | 639150 | 3565517 | 1093.31 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2081 | Orange 1 and 2 | 639160.3 | 3565502.3 | 1093.4 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2082 | Orange 1 and 2 | 639170.7 | 3565487.5 | 1093.43 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2083 | Orange 1 and 2 | 639181 | 3565472.8 | 1093.46 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2084 | Orange 1 and 2 | 639191.4 | 3565458.1 | 1093.49 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2085 | Orange 1 and 2 | 639201.8 | 3565443.4 | 1093.44 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2086 | Orange 1 and 2 | 639212.1 | 3565428.6 | 1093.37 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2087 | Orange 1 and 2 | 639205.8 | 3565414.6 | 1093.42 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2088 | Orange 1 and 2 | 639194.3 | 3565400.8 | 1093.49 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2089 | Orange 1 and 2 | 639182.8 | 3565387 | 1093.48 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2090 | Orange 1 and 2 | 639171.3 | 3565373.1 | 1093.45 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2091 | Orange 1 and 2 | 639159.7 | 3565359.3 | 1093.42 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2092 | Orange 1 and 2 | 639148.2 | 3565345.5 | 1093.36 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2093 | Orange 1 and 2 | 639136.7 | 3565331.7 | 1093.29 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2094 | Orange 1 and 2 | 639125.1 | 3565317.8 | 1093.21 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2095 | Orange 1 and 2 | 639113.6 | 3565304 | 1093.14 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2096 | Orange 1 and 2 | 639102.1 | 3565290.2 | 1093.07 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2097 | Orange 1 and 2 | 639094.6 | 3565274.9 | 1092.95 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2098 | Orange 1 and 2 | 639095.1 | 3565257 | 1093.33 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2099 | Orange 1 and 2 | 639099.4 | 3565242.9 | 1093.32 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2100 | Orange 1 and 2 | 639117.4 | 3565242.7 | 1093.31 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2101 | Orange 1 and 2 | 639135.4 | 3565242.4 | 1093.4 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2102 | Orange 1 and 2 | 639153.4 | 3565242.1 | 1093.47 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2103 | Orange 1 and 2 | 639171.4 | 3565241.9 | 1093.48 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2104 | Orange 1 and 2 | 639189.4 | 3565241.6 | 1093.35 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2105 | Orange 1 and 2 | 639207.4 | 3565241.4 | 1093.27 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2106 | Orange 1 and 2 | 639225.4 | 3565241.1 | 1093.16 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2107 | Orange 1 and 2 | 639243.4 | 3565240.8 | 1093.05 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2108 | Orange 1 and 2 | 639261.4 | 3565240.6 | 1093 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2109 | Orange 1 and 2 | 639279.4 | 3565240.3 | 1092.98 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2110 | Orange 1 and 2 | 639297.4 | 3565240 | 1092.96 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2111 | Orange 1 and 2 | 639315.4 | 3565239.8 | 1092.88 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2112 | Orange 1 and 2 | 639333.4 | 3565239.5 | 1092.63 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2113 | Orange 1 and 2 | 639351.4 | 3565239.2 | 1092.34 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2114 | Orange 1 and 2 | 639369.4 | 3565239 | 1092.26 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2115 | Orange 1 and 2 | 639387.4 | 3565238.7 | 1092.23 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2116 | Orange 1 and 2 | 639405.4 | 3565238.4 | 1091.12 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2117 | Orange 1 and 2 | 639423.3 | 3565238.9 | 1090.19 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2118 | Orange 1 and 2 | 639439.8 | 3565246 | 1090.23 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2119 | Orange 1 and 2 | 639456.4 | 3565253.1 | 1090.33 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2120 | Orange 1 and 2 | 639472.9 | 3565260.2 | 1090.41 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2121 | Orange 1 and 2 | 639489.4 | 3565267.3 | 1090.49 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1O2122 | Orange 1 and 2 | 639506 | 3565274.3 | 1090.58 | 3.4 | 8.372093 | 3.162791 | 0.00079385 | 7.939E-05 | 0 | 0.000642 | 6.42E-05 | 0.0001 | 1.00024E-05 | 0 | 8.08E-05 | 8.08413E-06 |
| O1123 | Orange 1 | 639523.2 | 3565278.5 | 1090.65 | 3.4 | 8.372093 | 3.162791 | 0.00028771 | 2.877E-05 | 0 | 0.000233 | 2.33E-05 | 3.63E-05 | 3.62504E-06 | 0 | 2.93E-05 | 2.92983E-06 |
| O1124 | Orange 1 | 639541.2 | 3565279.3 | 1090.6 | 3.4 | 8.372093 | 3.162791 | 0.00028771 | 2.877E-05 | 0 | 0.000233 | 2.33E-05 | 3.63E-05 | 3.62504E-06 | 0 | 2.93E-05 | 2.92983E-06 |
| O1125 | Orange 1 | 639559.2 | 3565280.1 | 1090.46 | 3.4 | 8.372093 | 3.162791 | 0.00028771 | 2.877E-05 | 0 | 0.000233 | 2.33E-05 | 3.63E-05 | 3.62504E-06 | 0 | 2.93E-05 | 2.92983E-06 |
| O1126 | Orange 1 | 639561.7 | 3565262.8 | 1090.46 | 3.4 | 8.372093 | 3.162791 | 0.00028771 | 2.877E-05 | 0 | 0.000233 | 2.33E-05 | 3.63E-05 | 3.62504E-06 | 0 | 2.93E-05 | 2.92983E-06 |
| O1127 | Orange 1 | 639564.9 | 3565245.2 | 1090.42 | 3.4 | 8.372093 | 3.162791 | 0.00028771 | 2.877E-05 | 0 | 0.000233 | 2.33E-05 | 3.63E-05 | 3.62504E-06 | 0 | 2.93E-05 | 2.92983E-06 |
| O1128 | Orange 1 | 639569.3 | 3565227.7 | 1090.4 | 3.4 | 8.372093 | 3.162791 | 0.00028771 | 2.877E-05 | 0 | 0.000233 | 2.33E-05 | 3.63E-05 | 3.62504E-06 | 0 | 2.93E-05 | 2.92983E-06 |
| O1129 | Orange 1 | 639572.6 | 3565210 | 1090.38 | 3.4 | 8.372093 | 3.162791 | 0.00028771 | 2.877E-05 | 0 | 0.000233 | 2.33E-05 | 3.63E-05 | 3.62504E-06 | 0 | 2.93E-05 | 2.92983E-06 |
| O2130 | Orange 2 | 639539.5 | 3565286.7 | 1090.61 | 3.4 | 8.372093 | 3.162791 | 0.00050615 | 5.061E-05 | 0 | 0.000409 | 4.09E-05 | 6.38E-05 | 6.37735E-06 | 0 | 5.15E-05 | 5.1543E-06 |
| O2131 | Orange 2 | 639556.6 | 3565292.5 | 1090.48 | 3.4 | 8.372093 | 3.162791 | 0.00050615 | 5.061E-05 | 0 | 0.000409 | 4.09E-05 | 6.38E-05 | 6.37735E-06 | 0 | 5.15E-05 | 5.1543E-06 |
| O2132 | Orange 2 | 639573.6 | 3565298.3 | 1090.36 | 3.4 | 8.372093 | 3.162791 | 0.00050615 | 5.061E-05 | 0 | 0.000409 | 4.09E-05 | 6.38E-05 | 6.37735E-06 | 0 | 5.15E-05 | 5.1543E-06 |
| O2133 | Orange 2 | 639588.2 | 3565308.7 | 1090.26 | 3.4 | 8.372093 | 3.162791 | 0.00050615 | 5.061E-05 | 0 | 0.000409 | 4.09E-05 | 6.38E-05 | 6.37735E-06 | 0 | 5.15E-05 | 5.1543E-06 |
| O2134 | Orange 2 | 639602.6 | 3565319.6 | 1089.83 | 3.4 | 8.372093 | 3.162791 | 0.00050615 | 5.061E-05 | 0 | 0.000409 | 4.09E-05 | 6.38E-05 | 6.37735E-06 | 0 | 5.15E-05 | 5.1543E-06 |
| O2135 | Orange 2 | 639614.2 | 3565333 | 1089.2 | 3.4 | 8.372093 | 3.162791 | 0.00050615 | 5.061E-05 | 0 | 0.000409 | 4.09E-05 | 6.38E-05 | 6.37735E-06 | 0 | 5.15E-05 | 5.1543E-06 |
| O2136 | Orange 2 | 639624.5 | 3565347.8 | 1089.43 | 3.4 | 8.372093 | 3.162791 | 0.00050615 | 5.061E-05 | 0 | 0.000409 | 4.09E-05 | 6.38E-05 | 6.37735E-06 | 0 | 5.15E-05 | 5.1543E-06 |
| O2137 | Orange 2 | 639634.8 | 3565362.5 | 1089.83 | 3.4 | 8.372093 | 3.162791 | 0.00050615 | 5.061E-05 | 0 | 0.000409 | 4.09E-05 | 6.38E-05 | 6.37735E-06 | 0 | 5.15E-05 | 5.1543E-06 |
| O2138 | Orange 2 | 639635.7 | 3565380.4 | 1089.02 | 3.4 | 8.372093 | 3.162791 | 0.00050615 | 5.061E-05 | 0 | 0.000409 | 4.09E-05 | 6.38E-05 | 6.37735E-06 | 0 | 5.15E-05 | 5.1543E-06 |
| O2139 | Orange 2 | 639636.1 | 3565398.4 | 1088.86 | 3.4 | 8.372093 | 3.162791 | 0.00050615 | 5.061E-05 | 0 | 0.000409 | 4.09E-05 | 6.38E-05 | 6.37735E-06 | 0 | 5.15E-05 | 5.1543E-06 |
| O2140 | Orange 2 | 639636.4 | 3565416.4 | 1088.8 | 3.4 | 8.372093 | 3.162791 | 0.00050615 | 5.061E-05 | 0 | 0.000409 | 4.09E-05 | 6.38E-05 | 6.37735E-06 | 0 | 5.15E-05 | 5.1543E-06 |
| R1R2141 | Red 1 and 2 | 639120.6 | 3565537.9 | 1093.12 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2142 | Red 1 and 2 | 639117.2 | 3565524.7 | 1093.25 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2143 | Red 1 and 2 | 639099.2 | 3565525.4 | 1093.24 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2144 | Red 1 and 2 | 639081.2 | 3565526.2 | 1093.25 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |

| Volume Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | | | Long-Term Emissions (lb/hr) | | Short-Term Emissions (g/s) | | | Long-Term Emissions (g/s) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Release Height (m) | Initial Lateral Dimension (m) | Initial Vertical Dimension (m) | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| R1R2145 | Red 1 and 2 | 639063.2 | 3565526.9 | 1093.25 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2146 | Red 1 and 2 | 639045.2 | 3565527.7 | 1093.23 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2147 | Red 1 and 2 | 639027.3 | 3565528.4 | 1093.16 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2148 | Red 1 and 2 | 639009.3 | 3565529.2 | 1093.25 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2149 | Red 1 and 2 | 638991.3 | 3565529.9 | 1093.24 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2150 | Red 1 and 2 | 638973.5 | 3565526.9 | 1093.23 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2151 | Red 1 and 2 | 638956.5 | 3565521.4 | 1093.26 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2152 | Red 1 and 2 | 638939.6 | 3565515.2 | 1093.32 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2153 | Red 1 and 2 | 638922.7 | 3565508.9 | 1093.36 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2154 | Red 1 and 2 | 638905.8 | 3565502.7 | 1093.36 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2155 | Red 1 and 2 | 638888.9 | 3565496.4 | 1093.37 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2156 | Red 1 and 2 | 638872.1 | 3565490.2 | 1093.37 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2157 | Red 1 and 2 | 638855.2 | 3565483.9 | 1093.39 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2158 | Red 1 and 2 | 638838.3 | 3565477.7 | 1093.42 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2159 | Red 1 and 2 | 638822.2 | 3565469.8 | 1093.38 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2160 | Red 1 and 2 | 638806.5 | 3565460.9 | 1093.26 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2161 | Red 1 and 2 | 638793.7 | 3565448.7 | 1093.11 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2162 | Red 1 and 2 | 638782.4 | 3565434.7 | 1093.04 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2163 | Red 1 and 2 | 638778.3 | 3565418 | 1093.25 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2164 | Red 1 and 2 | 638777.8 | 3565400 | 1093.3 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2165 | Red 1 and 2 | 638777.3 | 3565382 | 1093.37 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2166 | Red 1 and 2 | 638776.7 | 3565364 | 1093.52 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2167 | Red 1 and 2 | 638776.2 | 3565346 | 1093.62 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2168 | Red 1 and 2 | 638775.7 | 3565328.1 | 1093.75 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2169 | Red 1 and 2 | 638775.2 | 3565310.1 | 1093.83 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2170 | Red 1 and 2 | 638774.7 | 3565292.1 | 1093.86 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2171 | Red 1 and 2 | 638774.2 | 3565274.1 | 1093.98 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2172 | Red 1 and 2 | 638773.7 | 3565256.1 | 1094.61 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2173 | Red 1 and 2 | 638773.2 | 3565238.1 | 1094.73 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2174 | Red 1 and 2 | 638772.7 | 3565220.1 | 1094.86 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2175 | Red 1 and 2 | 638772.2 | 3565202.1 | 1094.92 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2176 | Red 1 and 2 | 638779.4 | 3565191.4 | 1095.01 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2177 | Red 1 and 2 | 638797.4 | 3565190.9 | 1094.99 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2178 | Red 1 and 2 | 638815.4 | 3565190.4 | 1095.06 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2179 | Red 1 and 2 | 638833.4 | 3565190 | 1095.08 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2180 | Red 1 and 2 | 638851.4 | 3565189.5 | 1094.99 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2181 | Red 1 and 2 | 638869.4 | 3565189 | 1094.6 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2182 | Red 1 and 2 | 638887.4 | 3565188.5 | 1094.07 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2183 | Red 1 and 2 | 638905.3 | 3565188 | 1093.8 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2184 | Red 1 and 2 | 638923.3 | 3565187.6 | 1093.5 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2185 | Red 1 and 2 | 638941.3 | 3565187.1 | 1093.34 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2186 | Red 1 and 2 | 638952 | 3565179.5 | 1093.5 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2187 | Red 1 and 2 | 638952.1 | 3565161.5 | 1093.81 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2188 | Red 1 and 2 | 638952.1 | 3565143.5 | 1094.15 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2189 | Red 1 and 2 | 638952.2 | 3565125.5 | 1094.37 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2190 | Red 1 and 2 | 638952.2 | 3565107.5 | 1094.48 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2191 | Red 1 and 2 | 638952.3 | 3565089.5 | 1094.52 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2192 | Red 1 and 2 | 638952.3 | 3565071.5 | 1094.46 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2193 | Red 1 and 2 | 638952.4 | 3565053.5 | 1094.51 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2194 | Red 1 and 2 | 638952.4 | 3565035.5 | 1094.49 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2195 | Red 1 and 2 | 638952.5 | 3565017.5 | 1094.33 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2196 | Red 1 and 2 | 638952.5 | 3564999.5 | 1093.96 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2197 | Red 1 and 2 | 638952.6 | 3564981.5 | 1093.6 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2198 | Red 1 and 2 | 638962 | 3564967.3 | 1093.38 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2199 | Red 1 and 2 | 638976.4 | 3564957 | 1093.49 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2200 | Red 1 and 2 | 638992.8 | 3564949.7 | 1093.39 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2201 | Red 1 and 2 | 639009.3 | 3564942.4 | 1093.05 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2202 | Red 1 and 2 | 639025.7 | 3564935.1 | 1092.79 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2203 | Red 1 and 2 | 639042.2 | 3564927.8 | 1092.7 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2204 | Red 1 and 2 | 639058.6 | 3564920.5 | 1092.67 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2205 | Red 1 and 2 | 639075.1 | 3564913.2 | 1092.73 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2206 | Red 1 and 2 | 639091.5 | 3564905.8 | 1092.71 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2207 | Red 1 and 2 | 639108 | 3564898.5 | 1092.82 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2208 | Red 1 and 2 | 639125.6 | 3564896.7 | 1093 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2209 | Red 1 and 2 | 639143.6 | 3564896.4 | 1093.04 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2210 | Red 1 and 2 | 639161.6 | 3564896.1 | 1092.88 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2211 | Red 1 and 2 | 639179.6 | 3564895.8 | 1092.66 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2212 | Red 1 and 2 | 639197.6 | 3564895.5 | 1092.57 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2213 | Red 1 and 2 | 639215.6 | 3564895.1 | 1092.39 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2214 | Red 1 and 2 | 639233.6 | 3564893.8 | 1092.34 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2215 | Red 1 and 2 | 639251.5 | 3564892.3 | 1092.39 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2216 | Red 1 and 2 | 639269.5 | 3564890.8 | 1092.27 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2217 | Red 1 and 2 | 639287.4 | 3564889.3 | 1091.85 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2218 | Red 1 and 2 | 639305.3 | 3564887.8 | 1091.71 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2219 | Red 1 and 2 | 639323.3 | 3564886.3 | 1091.63 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2220 | Red 1 and 2 | 639341.2 | 3564884.8 | 1091.47 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2221 | Red 1 and 2 | 639349.4 | 3564869.1 | 1091.35 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2222 | Red 1 and 2 | 639365.9 | 3564862.4 | 1091.32 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1R2223 | Red 1 and 2 | 639382.7 | 3564860.5 | 1091.15 | 3.4 | 8.372093 | 3.162791 | 0.00189186 | 0.0001892 | 0 | 0.001529 | 0.000153 | 0.000238 | 2.3837E-05 | 0 | 0.000193 | 1.92655E-05 |
| R1224 | Red 1 | 639399.3 | 3564867.3 | 1091.06 | 3.4 | 8.372093 | 3.162791 | 0.00131884 | 0.0001319 | 0 | 0.001066 | 0.000107 | 0.000166 | 1.66172E-05 | 0 | 0.000134 | 1.34303E-05 |
| R1225 | Red 1 | 639414.1 | 3564877.1 | 1091 | 3.4 | 8.372093 | 3.162791 | 0.00131884 | 0.0001319 | 0 | 0.001066 | 0.000107 | 0.000166 | 1.66172E-05 | 0 | 0.000134 | 1.34303E-05 |
| R1226 | Red 1 | 639429.1 | 3564884.6 | 1090.96 | 3.4 | 8.372093 | 3.162791 | 0.00131884 | 0.0001319 | 0 | 0.001066 | 0.000107 | 0.000166 | 1.66172E-05 | 0 | 0.000134 | 1.34303E-05 |
| R1227 | Red 1 | 639447.1 | 3564883.9 | 1090.8 | 3.4 | 8.372093 | 3.162791 | 0.00131884 | 0.0001319 | 0 | 0.001066 | 0.000107 | 0.000166 | 1.66172E-05 | 0 | 0.000134 | 1.34303E-05 |
| GRN228 | Green | 639126.6 | 3565539.3 | 1093.08 | 3.4 | 8.372093 | 3.162791 | 0.00058054 | 5.805E-05 | 0 | 0.000469 | 4.69E-05 | 7.31E-05 | 7.3147E-06 | 0 | 5.91E-05 | 5.91188E-06 |
| GRN229 | Green | 639133.9 | 3565522.8 | 1093.27 | 3.4 | 8.372093 | 3.162791 | 0.00058054 | 5.805E-05 | 0 | 0.000469 | 4.69E-05 | 7.31E-05 | 7.3147E-06 | 0 | 5.91E-05 | 5.91188E-06 |
| GRN230 | Green | 639141.1 | 3565506.3 | 1093.39 | 3.4 | 8.372093 | 3.162791 | 0.00058054 | 5.805E-05 | 0 | 0.000469 | 4.69E-05 | 7.31E-05 | 7.3147E-06 | 0 | 5.91E-05 | 5.91188E-06 |
| GRN231 | Green | 639148.3 | 3565489.8 | 1093.43 | 3.4 | 8.372093 | 3.162791 | 0.00058054 | 5.805E-05 | 0 | 0.000469 | 4.69E-05 | 7.31E-05 | 7.3147E-06 | 0 | 5.91E-05 | 5.91188E-06 |
| GRN232 | Green | 639160.7 | 3565477.4 | 1093.47 | 3.4 | 8.372093 | 3.162791 | 0.00058054 | 5.805E-05 | 0 | 0.000469 | 4.69E-05 | 7.31E-05 | 7.3147E-06 | 0 | 5.91E-05 | 5.91188E-06 |
| GRN233 | Green | 639174.9 | 3565466.3 | 1093.49 | 3.4 | 8.372093 | 3.162791 | 0.00058054 | 5.805E-05 | 0 | 0.000469 | 4.69E-05 | 7.31E-05 | 7.3147E-06 | 0 | 5.91E-05 | 5.91188E-06 |
| GRN234 | Green | 639186.3 | 3565452.5 | 1093.52 | 3.4 | 8.372093 | 3.162791 | 0.00058054 | 5.805E-05 | 0 | 0.000469 | 4.69E-05 | 7.31E-05 | 7.3147E-06 | 0 | 5.91E-05 | 5.91188E-06 |
| GRN235 | Green | 639189.9 | 3565435.1 | 1093.58 | 3.4 | 8.372093 | 3.162791 | 0.00058054 | 5.805E-05 | 0 | 0.000469 | 4.69E-05 | 7.31E-05 | 7.3147E-06 | 0 | 5.91E-05 | 5.91188E-06 |
| GRN236 | Green | 639191.2 | 3565417.5 | 1093.51 | 3.4 | 8.372093 | 3.162791 | 0.00058054 | 5.805E-05 | 0 | 0.000469 | 4.69E-05 | 7.31E-05 | 7.3147E-06 | 0 | 5.91E-05 | 5.91188E-06 |
| GRN237 | Green | 639182.2 | 3565401.9 | 1093.51 | 3.4 | 8.372093 | 3.162791 | 0.00058054 | 5.805E-05 | 0 | 0.000469 | 4.69E-05 | 7.31E-05 | 7.3147E-06 | 0 | 5.91E-05 | 5.91188E-06 |
| GRN238 | Green | 639171.2 | 3565388.1 | 1093.48 | 3.4 | 8.372093 | 3.162791 | 0.00058054 | 5.805E-05 | 0 | 0.000469 | 4.69E-05 | 7.31E-05 | 7.3147E-06 | 0 | 5.91E-05 | 5.91188E-06 |
| GRN239 | Green | 639154.8 | 3565383.2 | 1093.48 | 3.4 | 8.372093 | 3.162791 | 0.00058054 | 5.805E-05 | 0 | 0.000469 | 4.69E-05 | 7.31E-05 | 7.3147E-06 | 0 | 5.91E-05 | 5.91188E-06 |
| GRN240 | Green | 639138.3 | 3565376.8 | 1093.47 | 3.4 | 8.372093 | 3.162791 | 0.00058054 | 5.805E-05 | 0 | 0.000469 | 4.69E-05 | 7.31E-05 | 7.3147E-06 | 0 | 5.91E-05 | 5.91188E-06 |
| GRN241 | Green | 639121.3 | 3565375.8 | 1093.47 | 3.4 | 8.372093 | 3.162791 | 0.00058054 | 5.805E-05 | 0 | 0.000469 | 4.69E-05 | 7.31E-05 | 7.3147E-06 | 0 | 5.91E-05 | 5.91188E-06 |
| GRN242 | Green | 639105.3 | 3565379.5 | 1093.47 | 3.4 | 8.372093 | 3.162791 | 0.00058054 | 5.805E-05 | 0 | 0.000469 | 4.69E-05 | 7.31E-05 | 7.3147E-06 | 0 | 5.91E-05 | 5.91188E-06 |

| Volume Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | | | Long-Term Emissions (lb/hr) | | Short-Term Emissions (g/s) | | | Long-Term Emissions (g/s) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Emission Units | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Release Height (m) | Initial Lateral Dimension (m) | Initial Vertical Dimension (m) | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ | 24-hr $PM_{10}$ | 24-hr $PM_{2.5}$ | $H_2S$ | Annual $PM_{10}$ | Annual $PM_{2.5}$ |
| BLUE243 | Blue | 638906.6 | 3565565.6 | 1093.07 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE244 | Blue | 638906.7 | 3565583.6 | 1093.17 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE245 | Blue | 638906.8 | 3565601.6 | 1092.98 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE246 | Blue | 638906.9 | 3565619.6 | 1092.9 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE247 | Blue | 638907.1 | 3565637.6 | 1092.79 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE248 | Blue | 638893 | 3565641.4 | 1092.86 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE249 | Blue | 638875 | 3565641.3 | 1093.05 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE250 | Blue | 638857 | 3565641.2 | 1093.07 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE251 | Blue | 638839 | 3565641.1 | 1093.29 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE252 | Blue | 638821 | 3565641 | 1093.44 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE253 | Blue | 638803 | 3565640.9 | 1093.62 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE254 | Blue | 638785 | 3565640.8 | 1093.93 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE255 | Blue | 638767 | 3565640.7 | 1094.26 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE256 | Blue | 638749 | 3565640.7 | 1094.39 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE257 | Blue | 638731 | 3565640.6 | 1094.52 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE258 | Blue | 638713 | 3565640.5 | 1094.72 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE259 | Blue | 638695 | 3565640.4 | 1094.77 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE260 | Blue | 638677 | 3565640.3 | 1095.18 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE261 | Blue | 638659 | 3565640.2 | 1095.07 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE262 | Blue | 638641 | 3565640.1 | 1095.14 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE263 | Blue | 638623 | 3565640 | 1095.13 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE264 | Blue | 638605 | 3565639.9 | 1095.2 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE265 | Blue | 638587 | 3565639.8 | 1095.23 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE266 | Blue | 638569 | 3565639.7 | 1095.35 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE267 | Blue | 638553.7 | 3565642.3 | 1095.29 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE268 | Blue | 638553.9 | 3565660.3 | 1095.1 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE269 | Blue | 638554.1 | 3565678.3 | 1094.96 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE270 | Blue | 638554.3 | 3565696.3 | 1094.87 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE271 | Blue | 638554.5 | 3565714.3 | 1094.77 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE272 | Blue | 638554.6 | 3565732.3 | 1094.62 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| BLUE273 | Blue | 638554.8 | 3565750.3 | 1094.59 | 3.4 | 8.372093 | 3.162791 | 0.00087712 | 8.771E-05 | 0 | 0.000709 | 7.09E-05 | 0.000111 | 1.10515E-05 | 0 | 8.93E-05 | 8.93204E-06 |
| REC1 | Pig Receiver | 639444.48 | 3565129.27 | 1090.29 | 0.762 | 0.353568 | 0.710184 | 0 | 0 | #REF! | 0 | 0 | 0 | 0 | #REF! | 0 | 0 |
| REC2 | Pig Receiver | 639307.68 | 3565616.31 | 1090.5 | 0.762 | 0.353568 | 0.710184 | 0 | 0 | #REF! | 0 | 0 | 0 | 0 | #REF! | 0 | 0 |
| REC3 | Pig Receiver | 639289 | 3564912 | 1091.98 | 0.762 | 0.353568 | 0.710184 | 0 | 0 | #REF! | 0 | 0 | 0 | 0 | #REF! | 0 | 0 |
| REC4 | Pig Receiver | 639286 | 3564921 | 1092.09 | 0.762 | 0.353568 | 0.710184 | 0 | 0 | #REF! | 0 | 0 | 0 | 0 | #REF! | 0 | 0 |
| REC5 | Pig Receiver | 638891.26 | 3565000.22 | 1093.81 | 0.762 | 0.353568 | 0.710184 | 0 | 0 | #REF! | 0 | 0 | 0 | 0 | #REF! | 0 | 0 |
| REC8 | Pig Receiver | 639430.7 | 3565122.22 | 1090.2 | 0.762 | 0.353568 | 0.710184 | 0 | 0 | #REF! | 0 | 0 | 0 | 0 | #REF! | 0 | 0 |
| REC9 | Pig Receiver | 639429.84 | 3565538.3 | 1090.24 | 0.762 | 0.353568 | 0.710184 | 0 | 0 | #REF! | 0 | 0 | 0 | 0 | #REF! | 0 | 0 |
| LAU1 | Pig Launcher | 639302.32 | 3565634.42 | 1090.69 | 0.762 | 0.353568 | 0.710184 | 0 | 0 | #REF! | 0 | 0 | 0 | 0 | #REF! | 0 | 0 |
| LAU2 | Pig Launcher | 639652.45 | 3564850.18 | 1089.03 | 0.762 | 0.353568 | 0.710184 | 0 | 0 | #REF! | 0 | 0 | 0 | 0 | #REF! | 0 | 0 |
| LAU3 | Pig Launcher | 639263 | 3564922 | 1092.16 | 0.762 | 0.353568 | 0.710184 | 0 | 0 | #REF! | 0 | 0 | 0 | 0 | #REF! | 0 | 0 |
| LAU4 | Pig Launcher | 639303.12 | 3565242.78 | 1093 | 0.762 | 0.353568 | 0.710184 | 0 | 0 | #REF! | 0 | 0 | 0 | 0 | #REF! | 0 | 0 |
| LAU5 | Pig Launcher | 639362.08 | 3565239.57 | 1092.24 | 0.762 | 0.353568 | 0.710184 | 0 | 0 | #REF! | 0 | 0 | 0 | 0 | #REF! | 0 | 0 |
| LAU6 | Pig Launcher | 639221.3 | 3565513.72 | 1093.24 | 0.762 | 0.353568 | 0.710184 | 0 | 0 | #REF! | 0 | 0 | 0 | 0 | #REF! | 0 | 0 |
| 1EP1T | Train 1 Venting SSM | 639227.8 | 3565009.6 | 1092.6 | 4.572 | 25.17969 | 1.063256 | 6.7863 | 0.0000 | 9.42E-02 | 4.63E-03 | 4.62E-04 | ###### | 0.00000000 | ###### | ###### | 0.00005827 |
| 2EP1T | Train 2 Venting SSM | 639000.3 | 3565399.2 | 1093.61 | 4.572 | 7.589278 | 1.063256 | 0.0000 | 0.0000 | 6.38E-02 | 4.63E-03 | 4.62E-04 | ###### | 0.00000000 | ###### | ###### | 0.00005827 |
| 3EP1T | Train 3 Venting SSM | 638841.1 | 3565382.9 | 1093.47 | 4.572 | 5.9172 | 1.063256 | 0.0000 | 0.0000 | 1.12E-01 | 4.63E-03 | 4.62E-04 | ###### | 0.00000000 | ###### | ###### | 0.00005827 |
| 4EP1T | Train 4 Venting SSM | 638783 | 3565787.3 | 1091.86 | 4.572 | 36.14258 | 1.063256 | 0.0000 | 0.0000 | 4.56E-02 | 4.63E-03 | 4.62E-04 | ###### | 0.00000000 | ###### | ###### | 0.00005827 |
| 5EP1T | Train 5 Venting SSM | 638611.9 | 3565851.9 | 1094.56 | 4.572 | 7.250245 | 1.063256 | 0.0000 | 0.0000 | 4.56E-02 | 4.63E-03 | 4.62E-04 | ###### | 0.00000000 | ###### | ###### | 0.00005827 |
| 6EP1T | Train 6 Venting SSM | 638963.1 | 3565826.7 | 1091.89 | 4.572 | 7.427248 | 1.063256 | 0.0000 | 0.0000 | 9.26E-03 | 4.63E-03 | 4.62E-04 | ###### | 0.00000000 | ###### | ###### | 0.00005827 |
| 2.5EP1T | Train 2.5 Venting SSM | 639510.3 | 3565175.8 | 1090.64 | 4.572 | 7.06951 | 1.063256 | 0.0000 | 0.0000 | 1.79E+00 | 4.63E-03 | 4.62E-04 | ###### | 0.00000000 | ###### | ###### | 0.00005827 |
| 5.5EP1T | Train 5.5 Venting SSM | 639530.9 | 3565459.5 | 1089.8 | 4.572 | 6.931758 | 1.063256 | 0.0000 | 0.0000 | 1.70E+01 | 4.63E-03 | 4.62E-04 | ###### | 0.00000000 | ###### | ###### | 0.00005827 |
| 2LOAD | Sour Water Loading - | 639585.16 | 3565230.21 | 1090.32 | 3.9624 | 0.232558 | 0.921488 | 0.00 | 0 | 0.08 | 0 | 0 | 0 | 0 | ###### | 0 | 0 |
| 4LOAD | Sour Water Loading - | 639611.04 | 3565413.64 | 1089.08 | 3.9624 | 0.232558 | 0.921488 | 0.00 | 0 | 0.09 | 0 | 0 | 0 | 0 | ###### | 0 | 0 |

| Area Sources | | Source Location | | | Source Parameters | | | Short-Term Emissions (lb/hr) | Short-Term Emissions (g/s-$m^2$) |
|---|---|---|---|---|---|---|---|---|---|
| ission Un | Description | X Coordinate (m) | Y Coordinate (m) | Elevation (m) | Release Height (m) | Initial Vertical Dimension (m) | Area ($m^2$) | $H_2S$ | $H_2S$ |
| FUG1 | FUG-2 | 638534.7 | 3565990 | 1094.96 | 4.57 | 1.06 | 210192.10 | 5.70E-05 | 3.42E-11 |
| FUG | FUG | 638786.2 | 3565548 | 1092.71 | 4.57 | 1.06 | 270946.60 | 4.36E-04 | 2.03E-10 |
| FUGAGI1 | FUG-AGI1 | 639414.9 | 3565298 | 1090.08 | 4.57 | 1.06 | 46492.97 | 0.25 | 6.73E-07 |
| FUGAGI2 | FUG-AGI2 | 639414.9 | 3565543 | 1089.95 | 4.57 | 1.06 | 56792.60 | 0.51 | 1.13E-06 |

# APPENDIX B. $PM_{10}$ SURROUNDING SOURCE INVENTORY

```
** Surrounding sources generated by New Mexico Environment Department, Air Quality
Bureau
** Particulate Matter (10 microns or less) sources generated 27-JAN-24
CO STARTING
CO TITLEONE Sources within 25km  of Lat/lon=32.21055556, -103.52388889 UTM=639113.7,
3564730, Zone=13
CO TITLETWO (plus very large sources within 50km).
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO RUNORNOT RUN
CO AVERTIME 24, PERIOD
CO POLLUTID PM10
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
************************************************************
** 0km away. Facility ID=29885 Name=Red Hills Gas Processing Plant
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21112    Permit=4310 Title V
** lat,long,datum=32.210556, -103.523889, WGS84
** Total Particulate Matter (10 microns or less) emissions=25.12tons/year
*****************Facility sources: ****************************
** NMED source ID=29885EQPT1 Facility's ID=1-EP-1
** Description=Hot Oil Heater Construction date=15-NOV-10
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6844hr/yr, 19hr/day
SO LOCATION 29885E1 POINT 639113.704 3564730.017 0
SO SRCPARAM 29885E1 .0345235 15.24 602.04 5.54 1.27
** NMED source ID=29885EQPT10 Facility's ID=1.5-EP-1d
** Description=Removed, Amine Heater (Reboiler) Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 29885E10 POINT 639121.24 3564737.038 0
SO SRCPARAM 29885E10 -.0184083 4.57 602.04 81.66 .3
** NMED source ID=29885EQPT24 Facility's ID=2-EP-1b
** Description=HMO Heater - Cryo 2 Train Construction date=23-MAY-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5180hr/yr, 14hr/day
SO LOCATION 29885E24 POINT 639114.454 3564740.59 0
SO SRCPARAM 29885E24 .014956 6.78 316.48 2.24 1.17
** NMED source ID=29885EQPT28 Facility's ID=EP-5
** Description=Thermal Oxidizer (TO) Construction date=20-JUL-16
** SCC=31000404
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
```

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SO LOCATION 29885E28 POINT 639106.857 3564738.498 0
SO SRCPARAM 29885E28 .0261824 23.16 1088.71 1.38 3.05
** NMED source ID=29885EQPT32 Facility's ID=2-EP-1e
** Description=Glycol Dehydrator Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8634hr/yr, 24hr/day
SO LOCATION 29885E32 POINT 639102.616 3564731.598 0
SO SRCPARAM 29885E32 .0028728 6.1 602.04 15.15 .2
** NMED source ID=29885EQPT34 Facility's ID=2-EP-1h
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8634hr/yr, 24hr/day
SO LOCATION 29885E34 POINT 639104.268 3564723.444 0
SO SRCPARAM 29885E34 .0291862 7.56 491.48 2.28 1.07
** NMED source ID=29885EQPT37 Facility's ID=3-EP-1a
** Description=Mol Sieve Heater - Cryo 3 Train Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2856hr/yr, 8hr/day
SO LOCATION 29885E37 POINT 639111.217 3564718.482 0
SO SRCPARAM 29885E37 .0051785 6.71 560.93 7.11 .41
** NMED source ID=29885EQPT38 Facility's ID=3-EP-1b
** Description=HMO Heater - Cryo 3 Train Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5141hr/yr, 14hr/day
SO LOCATION 29885E38 POINT 639119.9 3564719.624 0
SO SRCPARAM 29885E38 .0345235 7.87 493.71 5.91 .71
** NMED source ID=29885EQPT39 Facility's ID=3-EP-1d
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E39 POINT 639125.61 3564726.552 0
SO SRCPARAM 29885E39 .0517852 4.57 491.48 12.41 .46
** NMED source ID=29885EQPT40 Facility's ID=3-EP-1e
** Description=Glycol Dehydrator Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8569hr/yr, 23hr/day
SO LOCATION 29885E40 POINT 639125.045 3564735.733 0
SO SRCPARAM 29885E40 .0028728 6.1 602.04 16.63 .21
** NMED source ID=29885EQPT44 Facility's ID=EP-6
** Description=Thermal Oxidizer (TO) Construction date=24-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885E44 POINT 639118.21 3564742.211 0
```

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SO SRCPARAM 29885E44 .0261824 15.24 1088.71 2.8 2.13
** NMED source ID=29885EQPT46 Facility's ID=2a-EP-1d
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8634hr/yr, 24hr/day
SO LOCATION 29885E46 POINT 639108.574 3564742.288 0
SO SRCPARAM 29885E46 .0291862 7.56 491.48 2.28 1.07
** NMED source ID=29885EQPT47 Facility's ID=3-EP-1h
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E47 POINT 639101.313 3564735.622 0
SO SRCPARAM 29885E47 .0503992 4.57 491.48 12.41 .46
** NMED source ID=29885EQPT55 Facility's ID=4-EP-1b
** Description=HMO Heater - Cryo 4 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5178hr/yr, 14hr/day
SO LOCATION 29885E55 POINT 639100.533 3564725.576 0
SO SRCPARAM 29885E55 .0345235 7.87 493.71 7.96 .71
** NMED source ID=29885EQPT57 Facility's ID=4-EP-1a
** Description=Mol Sieve Heater - Cryo 4 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2877hr/yr, 8hr/day
SO LOCATION 29885E57 POINT 639106.951 3564717.525 0
SO SRCPARAM 29885E57 .0051785 6.71 464.82 8.56 .41
** NMED source ID=29885EQPT58 Facility's ID=4-EP-1d
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8631hr/yr, 24hr/day
SO LOCATION 29885E58 POINT 639117.353 3564715.984 0
SO SRCPARAM 29885E58 .0291963 4.57 491.48 12.41 .46
** NMED source ID=29885EQPT59 Facility's ID=4-EP-1e
** Description=Glycol Dehydrator Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8631hr/yr, 24hr/day
SO LOCATION 29885E59 POINT 639126.193 3564722.076 0
SO SRCPARAM 29885E59 .0028728 6.1 602.04 16.63 .21
** NMED source ID=29885EQPT60 Facility's ID=4-EP-1h
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8631hr/yr, 24hr/day
SO LOCATION 29885E60 POINT 639128.55 3564732.774 0
SO SRCPARAM 29885E60 .0291963 4.57 491.48 12.41 .46
```

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** NMED source ID=29885EQPT63 Facility's ID=EP-8
** Description=Thermal Oxidizer (TO) Construction date=24-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885E63 POINT 639122.866 3564742.395 0
SO SRCPARAM 29885E63 .0261824 15.24 1088.71 2.8 2.13
** NMED source ID=29885EQPT64 Facility's ID=5-EP-1a
** Description=Amine Unit & Glycol Dehydrator Reboiler  Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8615hr/yr, 24hr/day
SO LOCATION 29885E64 POINT 639111.936 3564745.617 0
SO SRCPARAM 29885E64 .0517852 4.57 491.48 12.41 .46
** NMED source ID=29885EQPT65 Facility's ID=5-EP-1b
** Description=Glycol Dehydrator Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8615hr/yr, 24hr/day
SO LOCATION 29885E65 POINT 639101.549 3564740.422 0
SO SRCPARAM 29885E65 .0028728 6.1 602.04 16.63 .21
** NMED source ID=29885EQPT66 Facility's ID=5-EP-1c
** Description=Mole Sieve Heater - Cryo 5 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2871hr/yr, 8hr/day
SO LOCATION 29885E66 POINT 639097.418 3564729.332 0
SO SRCPARAM 29885E66 .0051785 6.71 464.82 8.56 .41
** NMED source ID=29885EQPT67 Facility's ID=5-EP-1d
** Description=HMO Heater - Cryo 5 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5169hr/yr, 14hr/day
SO LOCATION 29885E67 POINT 639102.044 3564718.201 0
SO SRCPARAM 29885E67 .014956 7.87 493.71 7.96 .71
** NMED source ID=29885EQPT71 Facility's ID=6-EP-1a
** Description=Amine Unit & Glycol Dehydrator Reboiler  Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2532hr/yr, 7hr/day
SO LOCATION 29885E71 POINT 639113.218 3564713.124 0
SO SRCPARAM 29885E71 .0517852 4.57 491.48 12.41 .46
** NMED source ID=29885EQPT72 Facility's ID=6-EP-1b
** Description=Glycol Dehydrator Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E72 POINT 639125.061 3564717.1 0
SO SRCPARAM 29885E72 .0028728 6.1 602.04 16.63 .21
** NMED source ID=29885EQPT73 Facility's ID=6-EP-1c
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** Description=Mole Sieve Heater - Cryo 6 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=836hr/yr, 2hr/day
SO LOCATION 29885E73 POINT 639131.117 3564728.278 0
SO SRCPARAM 29885E73 .0051785 6.71 464.82 8.56 .41
** NMED source ID=29885EQPT74 Facility's ID=6-EP-1d
** Description=HMO Heater - Cryo 6 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1519hr/yr, 4hr/day
SO LOCATION 29885E74 POINT 639127.87 3564740.796 0
SO SRCPARAM 29885E74 .014956 7.87 493.71 7.96 .71
** NMED source ID=29885EQPT77 Facility's ID=7-EP-1c
** Description=Mole Sieve Heater - Cryo 7 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E77 POINT 639116.772 3564747.855 0
SO SRCPARAM 29885E77 .0051785 6.71 464.82 8.56 .41
** NMED source ID=29885EQPT78 Facility's ID=7-EP-1d
** Description=HMO Heater - Cryo 7 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E78 POINT 639103.626 3564745.411 0
SO SRCPARAM 29885E78 .014956 7.87 493.71 7.96 .71
** NMED source ID=29885EQPT85 Facility's ID=EP-10
** Description=Thermal Oxidizer (TO) Construction date=24-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E85 POINT 639095.545 3564734.483 0
SO SRCPARAM 29885E85 .0261824 15.24 1088.71 2.8 2.13
**********END OF 29885: Red Hills Gas Processing Plant
INFO**********************************
************************************************************
** 1.48km away. Facility ID=33152 Name=PolyNatura - Ochoa Mine Project
** Company ID=12322 Name=PolyNatura Corp
** SIC=1474 NAIC=212391   Permit=5384 NSR
** lat,long,datum=32.19975, -103.533111, NAD83
** Total Particulate Matter (10 microns or less) emissions=182.24tons/year
*****************Facility sources: ****************************
** NMED source ID=33152AREA3 Facility's ID=S189/S190
** Description=Product/Recycle Haul Road Ochoa Plant Construction date=10-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152A3 VOLUME 638260.858 3563520.142 0
SO SRCPARAM 33152A3 .062999 10 10 9.3
```

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** NMED source ID=33152AREA5 Facility's ID=S191/S192/S193
** Description=Additive/Equipment/De-Duster Delivery Haul Road Construction
date=10-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152A5 VOLUME 638268.394 3563527.163 0
SO SRCPARAM 33152A5 .0172617 1 .47 .93
** NMED source ID=33152AREA8 Facility's ID=S194
** Description=Waste (Gypsum) Haul Road  Construction date=10-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152A8 VOLUME 638261.608 3563530.715 0
SO SRCPARAM 33152A8 .62999 10 50 9.3
** NMED source ID=33152EQPT63 Facility's ID=S18 A
** Description=Polyhalite Dryer Calciner (stack 3A) (S19A; S21A; S22A; S30A)
Construction date=10-DEC-13
** SCC=30502201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152E63 POINT 638254.011 3563528.623 0
SO SRCPARAM 33152E63 2.393962 76.81 519.26 28 3
** NMED source ID=33152EQPT71 Facility's ID=S34
** Description=SOP Product Dryer (Stack 4) (S32, S33, S35) Construction
date=10-DEC-13
** SCC=30502201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152E71 POINT 638249.77 3563521.723 0
SO SRCPARAM 33152E71 .0755988 64.62 422.04 19.34 .86
** NMED source ID=33152EQPT103 Facility's ID=S73 A
** Description=SOP Granulation Dryer stack 6 (S72, S85) Construction date=10-DEC-13
** SCC=30502201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 3152E103 POINT 638251.422 3563513.569 0
SO SRCPARAM 3152E103 .1385978 70.71 297.04 18.63 1.27
** NMED source ID=33152EQPT120 Facility's ID=S90
** Description=Langbeinite Product Dryer (stack 7) (S88, S89) Construction
date=10-DEC-13
** SCC=30502201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 3152E120 POINT 638258.371 3563508.607 0
SO SRCPARAM 3152E120 .0503992 64.62 449.82 17.28 .76
** NMED source ID=33152EQPT143 Facility's ID=S113
** Description=Langbeinite Glazing/Conditioning Dryer (Stack 10) (S111, S112, S114)
Construction date=10-DEC-13
** SCC=30502201
```

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 3152E143 POINT 638267.054 3563509.749 0
SO SRCPARAM 3152E143 .0755988 7 730 28 .3
** NMED source ID=33152EQPT216 Facility's ID=S196
** Description=Boiler 1 (Stack 12) Construction date=10-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 3152E216 POINT 638272.764 3563516.677 0
SO SRCPARAM 3152E216 .1007984 15.24 455.37 25.19 1.22
** NMED source ID=33152EQPT218 Facility's ID=S197
** Description=Boiler 2 (Stack 13) Construction date=10-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 3152E218 POINT 638272.199 3563525.858 0
SO SRCPARAM 3152E218 .1007984 15.24 455.37 25.19 1.22
** NMED source ID=33152RPNT10 Facility's ID=S195
** Description=Jal Loadout Haul Roads Construction date=10-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R10 VOLUME 638265.364 3563532.336 0
SO SRCPARAM 33152R10 .5543912 10 40 9.3
** NMED source ID=33152RPNT11 Facility's ID=Stk1
** Description=ROM Area Dust Collector (S3; S4; S5A,B; S6A,B; S7) Construction
date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R11 POINT 638255.728 3563532.413 0
SO SRCPARAM 33152R11 .0264596 30.78 297.04 16.11 .43
** NMED source ID=33152RPNT12 Facility's ID=Stk2
** Description=Crusher Area Dust Collector (S8 - S13; S14A,B; S15A,B) Construction
date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R12 POINT 638248.467 3563525.747 0
SO SRCPARAM 33152R12 .0755988 64.62 297.04 15.51 .74
** NMED source ID=33152RPNT13 Facility's ID=Stk5
** Description=SOP Area Dust Collector (S16AB; S17AB; S20AB; S23-S28; S36-S55;
S59-S68; S69AB; S70AB; S71AB; S74-S77; S78AB; S79AB; S80-S84; S86; S87; S124; S125;
S127; S128; S130-S134) Construction date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R13 POINT 638247.687 3563515.701 0
SO SRCPARAM 33152R13 .2267964 70.71 297.04 18.63 1.27
```

```
** NMED source ID=33152RPNT14 Facility's ID=Stk8
** Description=Langbeinite Area Dust Collector (S91, S94-S103, S104AB) Construction
date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R14 POINT 638254.105 3563507.65 0
SO SRCPARAM 33152R14 .1007984 64.62 297.04 15.97 .89
** NMED source ID=33152RPNT15 Facility's ID=Stk9
** Description=Langbeinite Compactor Dust Collector (S105; S106; S107AB; S108-S110;
S115-S123) Construction date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R15 POINT 638264.507 3563506.109 0
SO SRCPARAM 33152R15 .0881986 64.62 297.04 17.25 .91
** NMED source ID=33152RPNT16 Facility's ID=Stk11
** Description=Jal Loadout Facility Dust Collector (S146-S153; S155; S167-S171;
S174) Construction date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R16 POINT 638273.347 3563512.201 0
SO SRCPARAM 33152R16 .188997 38.1 297.04 15.24 1.19
** NMED source ID=33152RPNT17 Facility's ID=Ochoa PM Fugitives
** Description=Total Ochoa PM Fugitive emissions, except haul roads (S1, S2, S56,
S57, S92, S93, S126-S188, S175-S180) Construction date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R17 VOLUME 638275.704 3563522.899 0
SO SRCPARAM 33152R17 .3023952 10 20 9.3
** NMED source ID=33152RPNT18 Facility's ID=Jal Loadout PM Fugitives
** Description=Total Jal Loadout PM Fugitive emissions, except haul roads
(S136-S173) Construction date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R18 VOLUME 638270.02 3563532.52 0
SO SRCPARAM 33152R18 .3023952 10 20 9.3
**********END OF 33152: PolyNatura - Ochoa Mine Project
INFO************************************
************************************************************
** 1.69km away. Facility ID=39982 Name=EOG - Jupiter 19 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2056, -103.5069, WGS84
** Total Particulate Matter (10 microns or less) emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=39982EQPT5 Facility's ID=HTR-1E
```

```
** Description=Heater Treater (1.5 MMBtu/h) Construction date=18-MAY-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39982E5 VOLUME 640722.595 3564202.703 0
SO SRCPARAM 39982E5 .00126 4.88 .47 .93
** NMED source ID=39982EQPT6 Facility's ID=HTR-1W
** Description=Heater Treater (1.5 MMBtu/h) Construction date=18-MAY-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39982E6 VOLUME 640730.131 3564209.724 0
SO SRCPARAM 39982E6 .00126 4.88 .47 .93
**********END OF 39982: EOG - Jupiter 19 Fed Com CTB
INFO************************************
************************************************************
** 1.71km away. Facility ID=38504 Name=Leo Thorsness Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223267, -103.534069, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.16tons/year
*****************Facility sources: ******************************
** NMED source ID=38504AREA1 Facility's ID=HR-1
** Description=haul road Construction date=28-AUG-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38504A1 VOLUME 638134.989 3566126.05 0
SO SRCPARAM 38504A1 .1322979 10 10 9.3
** NMED source ID=38504EQPT3 Facility's ID=ENG-5
** Description=Caterpillar G3306, 203 HP Construction date=28-AUG-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7900hr/yr, 22hr/day
SO LOCATION 38504E3 POINT 638142.525 3566133.071 0
SO SRCPARAM 38504E3 .00126 4.57 880.93 56.25 .1
** NMED source ID=38504EQPT5 Facility's ID=GEN-1
** Description=PSI 390 HP generator Construction date=28-AUG-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3841hr/yr, 10hr/day
SO LOCATION 38504E5 POINT 638135.739 3566136.623 0
SO SRCPARAM 38504E5 .0050399 3.05 1005.37 112.55 .1
** NMED source ID=38504EQPT6 Facility's ID=HT-1
** Description=Heater Treater, 0.5 MMBtu/hr Construction date=28-AUG-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38504E6 VOLUME 638128.142 3566134.531 0
SO SRCPARAM 38504E6 .0005796 6.1 .47 .93
```

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** NMED source ID=38504EQPT7 Facility's ID=HT-2
** Description=Heater Treater, 0.5 MMBtu/hr Construction date=28-AUG-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38504E7 VOLUME 638123.901 3566127.631 0
SO SRCPARAM 38504E7 .0005796 6.1 .47 .93
** NMED source ID=38504EQPT26 Facility's ID=ENG-2
** Description=Caterpillar G3406NA, 215hp Construction date=13-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38504E26 POINT 638125.553 3566119.477 0
SO SRCPARAM 38504E26 .00252 2.5 898.71 73.66 .09
** NMED source ID=38504EQPT27 Facility's ID=ENG-6
** Description=Caterpillar G3406NA, 215hp Construction date=12-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38504E27 POINT 638132.502 3566114.515 0
SO SRCPARAM 38504E27 .00252 2.5 898.71 73.66 .09
**********END OF 38504: Leo Thorsness Facility
INFO**********************************
************************************************************
** 1.72km away. Facility ID=39913 Name=Broadside 12 Facility 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9134 NOI
** lat,long,datum=32.225803, -103.527072, NAD83
** Total Particulate Matter (10 microns or less) emissions=.57tons/year
*****************Facility sources: ****************************
** NMED source ID=39913AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=01-SEP-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39913A1 VOLUME 638790.526 3566416.216 0
SO SRCPARAM 39913A1 .2784556 10 20 9.3
** NMED source ID=39913EQPT2 Facility's ID=ENG 1
** Description=ENG 1 EQ000162142 Construction date=01-SEP-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39913E2 POINT 638798.062 3566423.237 0
SO SRCPARAM 39913E2 .0037799 3.6 853.15 19.96 .17
** NMED source ID=39913EQPT4 Facility's ID=HT-1
** Description=HT-1 EQ000717193 Construction date=01-SEP-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39913E4 VOLUME 638791.276 3566426.789 0
```

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SO SRCPARAM 39913E4 .0005796 9.14 .47 .93
**********END OF 39913: Broadside 12 Facility 1
INFO************************************
************************************************************
** 1.75km away. Facility ID=40312 Name=Broadside 12 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9510 NOI
** lat,long,datum=32.225971, -103.520534, NAD83
** Total Particulate Matter (10 microns or less) emissions=.32tons/year
*****************Facility sources: ****************************
** NMED source ID=40312EQPT1 Facility's ID=ENG-1
** Description=Combustion Engine Construction date=27-JAN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40312E1 POINT 639406.389 3566443.308 0
SO SRCPARAM 40312E1 .0088199 5.18 710.93 52.3 .25
**********END OF 40312: Broadside 12 Wellpad 2
INFO************************************
************************************************************
** 1.76km away. Facility ID=39788 Name=EOG - Falcon 25 Fed 1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.195, -103.5274, WGS84
** Total Particulate Matter (10 microns or less) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=39788EQPT2 Facility's ID=Heater-1
** Description=0.5 MM Btu/hr heater treater Construction date=15-JAN-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39788E2 VOLUME 638806.41 3563000.908 0
SO SRCPARAM 39788E2 .0005796 5.18 .47 .93
**********END OF 39788: EOG - Falcon 25 Fed 1H
INFO************************************
************************************************************
** 1.79km away. Facility ID=40140 Name=Devon - Broadside 12 Facility 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.225931, -103.518415, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.63tons/year
*****************Facility sources: ****************************
** NMED source ID=40140AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=15-SEP-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5136hr/yr, 24hr/day
SO LOCATION 40140A1 VOLUME 639606.138 3566441.626 0
SO SRCPARAM 40140A1 .2784556 10 20 9.3
**********END OF 40140: Devon - Broadside 12 Facility 2
```

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INFO**********************************
************************************************************
** 1.94km away. Facility ID=36406 Name=Sebastian Fed Com 2H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6667 NOI
** lat,long,datum=32.224177, -103.51112, WGS84
** Total Particulate Matter (10 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=36406AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=20-SEP-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36406A1 VOLUME 640296.29 3566256.678 0
SO SRCPARAM 36406A1 .0002898 1 .47 .93
** NMED source ID=36406EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 36406E4 VOLUME 640303.826 3566263.699 0
SO SRCPARAM 36406E4 .00126 6.71 .47 .93
**********END OF 36406: Sebastian Fed Com 2H Battery
INFO**********************************
************************************************************
** 2.04km away. Facility ID=39685 Name=Blue Krait 23 Wellpad 7
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=8945 NOI
** lat,long,datum=32.195933, -103.536886, NAD83
** Total Particulate Matter (10 microns or less) emissions=.77tons/year
*****************Facility sources: ****************************
** NMED source ID=39685EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=29-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39685E1 POINT 637910.773 3563092.133 0
SO SRCPARAM 39685E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=39685EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=29-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39685E2 POINT 637918.309 3563099.154 0
SO SRCPARAM 39685E2 .0037799 3.6 853.15 19.79 .17
** NMED source ID=39685EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=02-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39685E3 POINT 637911.523 3563102.706 0
SO SRCPARAM 39685E3 .0075599 4.39 778.71 13.8 .26
** NMED source ID=39685EQPT4 Facility's ID=ENG 4
** Description=ENG 4 Combustion Engine Construction date=02-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39685E4 POINT 637903.926 3563100.614 0
SO SRCPARAM 39685E4 .0037799 3.6 853.15 19.79 .17
**********END OF 39685: Blue Krait 23 Wellpad 7
INFO**********************************
************************************************************
** 2.24km away. Facility ID=40063 Name=Concrete Batch Plant, GCP5-9285
** Company ID=719 Name=Roswell Ready Mix Company
** SIC=3273 NAIC=32732    Permit=9285 GCP5
** lat,long,datum=32.22806, -103.51224, NAD83
** Total Particulate Matter (10 microns or less) emissions=95tons/year
*****************Facility sources: ******************************
** NMED source ID=40063ACT 1 Facility's ID=GCP-5
** Description=Concrete Batch Plant Construction date=17-JUL-21
** SCC=30501199
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40063@1 VOLUME 640184.781 3566685.695 0
SO SRCPARAM 40063@1 2.7328336 10 220 9.3
**********END OF 40063: Concrete Batch Plant, GCP5-9285
INFO**********************************
************************************************************
** 2.39km away. Facility ID=40875 Name=Blue Krait 23 Wellpad 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9847 NOI
** lat,long,datum=32.196517, -103.543112, NAD83
** Total Particulate Matter (10 microns or less) emissions=.39tons/year
*****************Facility sources: ******************************
** NMED source ID=40875EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=09-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40875E1 POINT 637322.987 3563148.906 0
SO SRCPARAM 40875E1 .0075599 4.39 778.71 13.8 .26
** NMED source ID=40875EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Engine Construction date=09-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40875E2 POINT 637330.523 3563155.927 0
SO SRCPARAM 40875E2 .0037799 3.6 853.15 19.79 .17
**********END OF 40875: Blue Krait 23 Wellpad 6
INFO**********************************
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************************************************************
** 2.76km away. Facility ID=38952 Name=Carl Mottek Fed Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.22393, -103.49917, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.99tons/year
*****************Facility sources: ****************************
** NMED source ID=38952AREA1 Facility's ID=HR-01
** Description=Unpaved Haul Road Construction date=28-OCT-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38952A1 VOLUME 641422.826 3566244.965 0
SO SRCPARAM 38952A1 .3439745 10 30 9.3
** NMED source ID=38952EQPT2 Facility's ID=HT-01
** Description=0.5 MMBTU/h heater treater Construction date=28-OCT-19
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38952E2 VOLUME 641430.362 3566251.986 0
SO SRCPARAM 38952E2 .0002898 10 .47 .93
** NMED source ID=38952EQPT3 Facility's ID=ENG-01
** Description=400 hp Caterpillar CG137-8 Construction date=28-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8689hr/yr, 24hr/day
SO LOCATION 38952E3 POINT 641423.576 3566255.538 0
SO SRCPARAM 38952E3 .0075599 6.1 804.26 13.5 .27
** NMED source ID=38952EQPT12 Facility's ID=GEN-1
** Description=4-Stroke Rich Burn Compressor Engine Construction date=16-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38952E12 POINT 641415.979 3566253.446 0
SO SRCPARAM 38952E12 .0037799 4.51 1023.15 16.65 .21
** NMED source ID=38952EQPT24 Facility's ID=GEN-2
** Description=4-Stroke Rich Burn Compressor Engine Construction date=16-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38952E24 POINT 641411.738 3566246.546 0
SO SRCPARAM 38952E24 .0037799 4.51 1023.15 16.65 .21
** NMED source ID=38952EQPT25 Facility's ID=GEN-3
** Description=4-Stroke Rich Burn Compressor Engine Construction date=16-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38952E25 POINT 641413.39 3566238.392 0
SO SRCPARAM 38952E25 .0037799 4.51 1023.15 16.65 .21
**********END OF 38952: Carl Mottek Fed Tank Battery
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INFO**********************************
************************************************************
** 2.76km away. Facility ID=34645 Name=Abu Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19, -103.5075, NAD83
** Total Particulate Matter (10 microns or less) emissions=4.35tons/year
*****************Facility sources: ****************************
** NMED source ID=34645EQPT1 Facility's ID=ENG-1
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8759hr/yr, 24hr/day
SO LOCATION 34645E1 POINT 640690.05 3562472.466 0
SO SRCPARAM 34645E1 .0201597 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT2 Facility's ID=ENG-2
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8746hr/yr, 24hr/day
SO LOCATION 34645E2 POINT 640697.586 3562479.487 0
SO SRCPARAM 34645E2 .0201597 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT3 Facility's ID=ENG-3
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8745hr/yr, 24hr/day
SO LOCATION 34645E3 POINT 640690.8 3562483.039 0
SO SRCPARAM 34645E3 .0201597 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT4 Facility's ID=ENG-4
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8544hr/yr, 24hr/day
SO LOCATION 34645E4 POINT 640683.203 3562480.947 0
SO SRCPARAM 34645E4 .0201597 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT5 Facility's ID=ENG-5
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8781hr/yr, 24hr/day
SO LOCATION 34645E5 POINT 640678.962 3562474.047 0
SO SRCPARAM 34645E5 .0201597 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT6 Facility's ID=ENG-6
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
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date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8437hr/yr, 23hr/day
SO LOCATION 34645E6 POINT 640680.614 3562465.893 0
SO SRCPARAM 34645E6 .0201597 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT7 Facility's ID=HTR-1
** Description=1.5 MMBtu/hr Heater Construction date=15-DEC-14
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 34645E7 VOLUME 640687.563 3562460.931 0
SO SRCPARAM 34645E7 .00126 2.44 .47 .93
** NMED source ID=34645EQPT8 Facility's ID=REB-1
** Description=0.75 MMBtu/hr TEG Reboiler Construction date=15-DEC-14
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 34645E8 POINT 640696.246 3562462.073 0
SO SRCPARAM 34645E8 .00126 2.44 588.71 7.22 .15
**********END OF 34645: Abu Compressor Station
INFO************************************
************************************************************
** 2.8km away. Facility ID=39449 Name=Devon - Blue Krait 23 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.198574, -103.550084, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.97tons/year
*****************Facility sources: ******************************
** NMED source ID=39449EQPT15 Facility's ID=LPC-3
** Description=Low Pressure Compressor Engine Construction date=27-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1440hr/yr, 24hr/day
SO LOCATION 39449E15 POINT 636662.685 3563368.063 0
SO SRCPARAM 39449E15 .00252 2.68 922.04 67.27 .09
** NMED source ID=39449RPNT2 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=27-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1440hr/yr, 24hr/day
SO LOCATION 39449R2 VOLUME 636670.221 3563375.084 0
SO SRCPARAM 39449R2 .2784556 10 20 9.3
**********END OF 39449: Devon - Blue Krait 23 CTB 2
INFO************************************
************************************************************
** 2.96km away. Facility ID=39951 Name=EOG - Falcon 25 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1841, -103.527, WGS84
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** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=39951EQPT1 Facility's ID=HTR-1
** Description=Heater Treater 1.5 MMBTU/hr Construction date=09-JUN-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39951E1 VOLUME 638860.671 3561793.032 0
SO SRCPARAM 39951E1 .00126 4.88 .47 .93
**********END OF 39951: EOG - Falcon 25 Fed Com CTB
INFO**********************************
************************************************************
** 3.1km away. Facility ID=39998 Name=Yukon 20 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2071, -103.4912, NAD83
** Total Particulate Matter (10 microns or less) emissions=.19tons/year
*****************Facility sources: ******************************
** NMED source ID=39998EQPT4 Facility's ID=HTR-3
** Description=Heater Treater Construction date=04-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E4 VOLUME 642200.111 3564389.663 0
SO SRCPARAM 39998E4 .00126 4.88 .47 .93
** NMED source ID=39998EQPT12 Facility's ID=HTR-1
** Description=Heater Treater Construction date=08-DEC-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E12 VOLUME 642207.647 3564396.684 0
SO SRCPARAM 39998E12 .00126 4.88 .47 .93
** NMED source ID=39998EQPT13 Facility's ID=HTR-2
** Description=Heater Treater Construction date=08-DEC-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E13 VOLUME 642200.861 3564400.236 0
SO SRCPARAM 39998E13 .00126 4.88 .47 .93
** NMED source ID=39998EQPT19 Facility's ID=ENG-4
** Description=Gas Lift Engine Construction date=07-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E19 POINT 642193.264 3564398.144 0
SO SRCPARAM 39998E19 .00252 3.96 899.82 25.12 .13
**********END OF 39998: Yukon 20 Fed Com CTB
INFO**********************************
************************************************************
** 3.22km away. Facility ID=38910 Name=Mark West - Bell Lake South Compressor
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Station
** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.237897, -103.512808, WGS84
** Total Particulate Matter (10 microns or less) emissions=7.35tons/year
*****************Facility sources: ****************************
** NMED source ID=38910EQPT1 Facility's ID=Reboil-1
** Description=TEG Reboiler 1.5 MMscfd Construction date=05-APR-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38910E1 POINT 640116.154 3567775.511 0
SO SRCPARAM 38910E1 .00126 4.88 588.71 2.35 .4
** NMED source ID=38910EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine CAT 3608, 2500HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7125hr/yr, 24hr/day
SO LOCATION 38910E2 POINT 640123.69 3567782.532 0
SO SRCPARAM 38910E2 .0314995 7.01 718.71 57.49 .41
** NMED source ID=38910EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine CAT 3608, 2500HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7225hr/yr, 24hr/day
SO LOCATION 38910E3 POINT 640116.904 3567786.084 0
SO SRCPARAM 38910E3 .0314995 7.01 708.15 57.94 .41
** NMED source ID=38910EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine CAT 3516J, 1380HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6863hr/yr, 24hr/day
SO LOCATION 38910E4 POINT 640109.307 3567783.992 0
SO SRCPARAM 38910E4 .0188997 7.01 713.71 52 .3
** NMED source ID=38910EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7400hr/yr, 24hr/day
SO LOCATION 38910E5 POINT 640105.066 3567777.092 0
SO SRCPARAM 38910E5 .0214197 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7192hr/yr, 24hr/day
SO LOCATION 38910E6 POINT 640106.718 3567768.938 0
SO SRCPARAM 38910E6 .0214197 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=05-APR-19
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6892hr/yr, 24hr/day
SO LOCATION 38910E7 POINT 640113.667 3567763.976 0
SO SRCPARAM 38910E7 .0214197 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT8 Facility's ID=ENG-7
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6988hr/yr, 24hr/day
SO LOCATION 38910E8 POINT 640122.35 3567765.118 0
SO SRCPARAM 38910E8 .0214197 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT15 Facility's ID=ENG-8
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=12-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6027hr/yr, 24hr/day
SO LOCATION 38910E15 POINT 640128.06 3567772.046 0
SO SRCPARAM 38910E15 .0188997 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT16 Facility's ID=ENG-9
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=12-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38910E16 POINT 640127.495 3567781.227 0
SO SRCPARAM 38910E16 .0214197 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT19 Facility's ID=ECD-1
** Description=Enclosed Combustion Device 500 m scf/d Construction date=29-NOV-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=500hr/yr, 24hr/day
SO LOCATION 38910E19 POINT 640120.66 3567787.705 0
SO SRCPARAM 38910E19 .0466193 9.75 1273 20 2.13
** NMED source ID=38910EQPT20 Facility's ID=ECD-2
** Description=Enclosed Combustion Device 30 M scf/d Construction date=29-NOV-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38910E20 POINT 640111.024 3567787.782 0
SO SRCPARAM 38910E20 .00252 3.66 1273 20 1.22
**********END OF 38910: Mark West - Bell Lake South Compressor Station
INFO************************************
************************************************************
** 3.25km away. Facility ID=32699 Name=EOG - Hawk 25 Fed No 1H and Falcon 25 Fed No
2H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.182, -103.5311, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.69tons/year
*****************Facility sources: ****************************
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** NMED source ID=32699AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Roads Construction date=31-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32699A1 VOLUME 638477.304 3561554.935 0
SO SRCPARAM 32699A1 .0579591 1 .47 .93
** NMED source ID=32699EQPT3 Facility's ID=HT-1
** Description=Heater Treater (0.5 MM BTU/hr) Construction date=31-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7332hr/yr, 24hr/day
SO LOCATION 32699E3 VOLUME 638484.84 3561561.956 0
SO SRCPARAM 32699E3 .00126 5.18 .47 .93
** NMED source ID=32699EQPT4 Facility's ID=HT-2
** Description=Heater Treater (0.5 MM BTU/hr) Construction date=31-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8773hr/yr, 24hr/day
SO LOCATION 32699E4 VOLUME 638478.054 3561565.508 0
SO SRCPARAM 32699E4 .00126 5.18 .47 .93
** NMED source ID=32699EQPT5 Facility's ID=HT-3
** Description=Heater Treater (0.5 MM BTU/hr) Construction date=31-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32699E5 VOLUME 638470.457 3561563.416 0
SO SRCPARAM 32699E5 .00126 5.18 .47 .93
**********END OF 32699: EOG - Hawk 25 Fed No 1H and Falcon 25 Fed No 2H
INFO**********************************
************************************************************
** 3.3km away. Facility ID=40279 Name=Tap Rock - Prometheus D CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199421, -103.556337, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.84tons/year
*****************Facility sources: ****************************
** NMED source ID=40279AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=13-JAN-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279A1 VOLUME 636071.99 3563454.03 0
SO SRCPARAM 40279A1 .3527944 10 30 9.3
** NMED source ID=40279EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3606 1875 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279E1 POINT 636079.526 3563461.051 0
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SO SRCPARAM 40279E1 .0151198 4.57 725.93 174.96 .2
** NMED source ID=40279EQPT2 Facility's ID=GEN-1
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279E2 POINT 636072.74 3563464.603 0
SO SRCPARAM 40279E2 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40279EQPT3 Facility's ID=GEN-2
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279E3 POINT 636065.143 3563462.511 0
SO SRCPARAM 40279E3 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40279EQPT4 Facility's ID=GEN-3
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279E4 POINT 636060.902 3563455.611 0
SO SRCPARAM 40279E4 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40279EQPT5 Facility's ID=GEN-4
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279E5 POINT 636062.554 3563447.457 0
SO SRCPARAM 40279E5 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40279EQPT6 Facility's ID=HT-1
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279E6 POINT 636069.503 3563442.495 0
SO SRCPARAM 40279E6 .00252 4.57 510.93 .4 .3
** NMED source ID=40279EQPT7 Facility's ID=HT-2
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279E7 POINT 636078.186 3563443.637 0
SO SRCPARAM 40279E7 .00252 4.57 510.93 .4 .3
**********END OF 40279: Tap Rock - Prometheus D CTB
INFO************************************
************************************************************
** 3.3km away. Facility ID=40266 Name=EOG - Denali Local Gas Lift
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2017, -103.4905, WGS84
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** Total Particulate Matter (10 microns or less) emissions=4.46tons/year
*****************Facility sources: ******************************
** NMED source ID=40266EQPT2 Facility's ID=ENG -1
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E2 POINT 642274.499 3563791.931 0
SO SRCPARAM 40266E2 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E3 POINT 642282.035 3563798.952 0
SO SRCPARAM 40266E3 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E4 POINT 642275.249 3563802.504 0
SO SRCPARAM 40266E4 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E5 POINT 642267.652 3563800.412 0
SO SRCPARAM 40266E5 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E6 POINT 642263.411 3563793.512 0
SO SRCPARAM 40266E6 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E7 POINT 642265.063 3563785.358 0
SO SRCPARAM 40266E7 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT9 Facility's ID=HTR-1
** Description=Separator Heater Construction date=17-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E9 POINT 642272.012 3563780.396 0
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SO SRCPARAM 40266E9 .00126 3.05 588.71 .95 .52
** NMED source ID=40266EQPT11 Facility's ID=RBL-1
** Description=Dehy Reboiler Construction date=17-DEC-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E11 POINT 642280.695 3563781.538 0
SO SRCPARAM 40266E11 .00126 6.1 588.71 .11 1.83
**********END OF 40266: EOG - Denali Local Gas Lift
INFO**********************************
************************************************************
** 3.31km away. Facility ID=32162 Name=EOG - Vanguard 30 State Com 1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.181675, -103.515464, WGS84
** Total Particulate Matter (10 microns or less) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=32162EQPT9 Facility's ID=HTR- 1
** Description=0.5 MMBtu/h Heater Treater Construction date=17-DEC-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8723hr/yr, 24hr/day
SO LOCATION 32162E9 VOLUME 639951.993 3561539.147 0
SO SRCPARAM 32162E9 .0005796 4.57 .47 .93
**********END OF 32162: EOG - Vanguard 30 State Com 1H
INFO**********************************
************************************************************
** 3.42km away. Facility ID=38948 Name=Charles Ling East Fed Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.237744, -103.540898, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.39tons/year
*****************Facility sources: ****************************
** NMED source ID=38948EQPT15 Facility's ID=HT-01
** Description=Heater Treater Global Vessels 0.5 MMbtu/hr Construction
date=08-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38948E15 POINT 637469.627 3567722.24 0
SO SRCPARAM 38948E15 .00126 10.67 422.04 135.85 .2
** NMED source ID=38948EQPT17 Facility's ID=FL-1-LP-NO
** Description=Flare 0.1 MMscfd Construction date=08-AUG-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38948E17 POINT 637477.163 3567729.261 0
SO SRCPARAM 38948E17 .00126 12.19 1273 20 20.806
** NMED source ID=38948EQPT25 Facility's ID=FL-1-HP-SSM
** Description=Flare 8.6 MMscfd Construction date=05-AUG-20
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** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38948E25 POINT 637470.377 3567732.813 0
SO SRCPARAM 38948E25 .0307813 12.19 1273 20 5.885
** NMED source ID=38948EQPT29 Facility's ID=ENG-2
** Description=Engine 2 Construction date=12-MAR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38948E29 POINT 637462.78 3567730.721 0
SO SRCPARAM 38948E29 .00126 6.1 1005.37 4.2 .3
** NMED source ID=38948EQPT30 Facility's ID=ENG-1
** Description=Engine 1 Construction date=09-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38948E30 POINT 637458.539 3567723.821 0
SO SRCPARAM 38948E30 .0037799 6.1 810.37 10.52 .3
** NMED source ID=38948RPNT2 Facility's ID=HR-01
** Description=Unpaved Haul Road Construction date=08-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38948R2 VOLUME 637460.191 3567715.667 0
SO SRCPARAM 38948R2 .0050399 1 .47 .93
**********END OF 38948: Charles Ling East Fed Tank Battery
INFO**********************************
************************************************************
** 3.43km away. Facility ID=35483 Name=Dragon 36 State Nos 501H, 502H, 701H, 706H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.17971, -103.52411, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.17tons/year
*****************Facility sources: ****************************
** NMED source ID=35483EQPT17 Facility's ID=HEATER-1
** Description=0.75 MM Btu/hr Heater Treater Construction date=10-JUL-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35483E17 VOLUME 639139.818 3561310.084 0
SO SRCPARAM 35483E17 .00126 5.18 .47 .93
** NMED source ID=35483EQPT18 Facility's ID=HEATER-2
** Description=0.75 MM Btu/hr Heater Treater Construction date=10-JUL-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35483E18 VOLUME 639147.354 3561317.105 0
SO SRCPARAM 35483E18 .00126 5.18 .47 .93
** NMED source ID=35483RPNT1 Facility's ID=ROAD
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** Description=Haul Roads Construction date=02-AUG-16
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 2hr/day
SO LOCATION 35483R1 VOLUME 639140.568 3561320.657 0
SO SRCPARAM 35483R1 .0894586 10 10 9.3
**********END OF 35483: Dragon 36 State Nos 501H, 502H, 701H, 706H
INFO**********************************
************************************************************
** 3.48km away. Facility ID=38491 Name=EOG - Dragon Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.179322, -103.526394, WGS84
** Total Particulate Matter (10 microns or less) emissions=5tons/year
*****************Facility sources: ******************************
** NMED source ID=38491EQPT1 Facility's ID=ENG-2
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8437hr/yr, 23hr/day
SO LOCATION 38491E1 POINT 638925.062 3561264.118 0
SO SRCPARAM 38491E1 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT2 Facility's ID=ENG-4
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8097hr/yr, 22hr/day
SO LOCATION 38491E2 POINT 638932.598 3561271.139 0
SO SRCPARAM 38491E2 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT3 Facility's ID=ENG-5
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8034hr/yr, 22hr/day
SO LOCATION 38491E3 POINT 638925.812 3561274.691 0
SO SRCPARAM 38491E3 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT4 Facility's ID=ENG-6
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8643hr/yr, 24hr/day
SO LOCATION 38491E4 POINT 638918.215 3561272.599 0
SO SRCPARAM 38491E4 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT5 Facility's ID=ENG-7
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38491E5 POINT 638913.974 3561265.699 0
SO SRCPARAM 38491E5 .0151198 8.53 719.26 27.43 .51
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** NMED source ID=38491EQPT6 Facility's ID=ENG-9
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38491E6 POINT 638915.626 3561257.545 0
SO SRCPARAM 38491E6 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT8 Facility's ID=Heater-1
** Description=Separator Heater Construction date=01-AUG-18
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38491E8 POINT 638922.575 3561252.583 0
SO SRCPARAM 38491E8 .0005796 7 730 28 .3
** NMED source ID=38491EQPT10 Facility's ID=ENG-3
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8680hr/yr, 24hr/day
SO LOCATION 38491E10 POINT 638931.258 3561253.725 0
SO SRCPARAM 38491E10 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT11 Facility's ID=ENG-8
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38491E11 POINT 638936.968 3561260.653 0
SO SRCPARAM 38491E11 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT16 Facility's ID=Reboiler-1
** Description=Reboiler Dehydrator Construction date=01-AUG-18
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38491E16 POINT 638936.403 3561269.834 0
SO SRCPARAM 38491E16 .00126 7 730 28 .3
** NMED source ID=38491EQPT17 Facility's ID=ENG-1
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8106hr/yr, 22hr/day
SO LOCATION 38491E17 POINT 638929.568 3561276.312 0
SO SRCPARAM 38491E17 .0151198 8.53 719.26 27.43 .51
**********END OF 38491: EOG - Dragon Localized Gas Lift Station
INFO***********************************
************************************************************
** 3.57km away. Facility ID=40277 Name=Prometheus C CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199493, -103.559476, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.12tons/year
```

**********Facility sources: **********
** NMED source ID=40277AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=13-JAN-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40277A1 VOLUME 635775.99 3563458.042 0
SO SRCPARAM 40277A1 .3527944 10 30 9.3
** NMED source ID=40277EQPT6 Facility's ID=HT-1
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40277E6 POINT 635783.526 3563465.063 0
SO SRCPARAM 40277E6 .00252 4.57 510.93 .4 .3
** NMED source ID=40277EQPT7 Facility's ID=HT-2
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40277E7 POINT 635776.74 3563468.615 0
SO SRCPARAM 40277E7 .00252 4.57 510.93 .4 .3
** NMED source ID=40277EQPT24 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=09-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40277E24 POINT 635769.143 3563466.523 0
SO SRCPARAM 40277E24 .0151198 6.1 700.93 76.78 .3
** NMED source ID=40277EQPT25 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=09-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40277E25 POINT 635764.902 3563459.623 0
SO SRCPARAM 40277E25 .0125998 4.57 719.26 52.3 .3
**********END OF 40277: Prometheus C CTB INFO**********
**********
** 3.6km away. Facility ID=33901 Name=Hawk 35 Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1801, -103.5367, WGS84
** Total Particulate Matter (10 microns or less) emissions=.03tons/year
**********Facility sources: **********
** NMED source ID=33901EQPT6 Facility's ID=HTR-1
** Description=Heater Treater,  0.75-mmBTU/hr Construction date=18-JUN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 33901E6 POINT 637952.192 3561337.102 0

```
SO SRCPARAM 33901E6 .00126 4.88 588.71 .21 1.22
**********END OF 33901: Hawk 35 Fed CTB INFO**********************************
************************************************************
** 3.74km away. Facility ID=38310 Name=Targa - Blu Compressor Station
** Company ID=901 Name=Versado Gas Processors, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.209103, -103.484219, WGS84
** Total Particulate Matter (10 microns or less) emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=38310EQPT6 Facility's ID=H-1
** Description=TEG Reboiler 3.0 MM Btu/hr Construction date=12-FEB-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38310E6 POINT 642854.986 3564620.98 0
SO SRCPARAM 38310E6 .00252 6.1 477.59 .52 1.07
**********END OF 38310: Targa - Blu Compressor Station
INFO**********************************
************************************************************
** 3.76km away. Facility ID=40742 Name=South Bell Lake Pad 5
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.243999, -103.518564, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40742EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=21-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40742E3 POINT 639564.465 3568444.499 0
SO SRCPARAM 40742E3 .00126 4.57 333.15 7.99 .09
** NMED source ID=40742EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=21-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40742E4 POINT 639572.001 3568451.52 0
SO SRCPARAM 40742E4 .00126 4.57 333.15 7.99 .09
**********END OF 40742: South Bell Lake Pad 5
INFO**********************************
************************************************************
** 3.8km away. Facility ID=39780 Name=Kaiser-Francis - South Bell Lake Pad 3
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.24465, -103.524856, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=39780EQPT2 Facility's ID=HT-1
** Description=Heater Treater (0.75 MM BTU/h) Construction date=11-DEC-20
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39780E2 VOLUME 638970.654 3568508.508 0
SO SRCPARAM 39780E2 .00126 4.57 .47 .93
** NMED source ID=39780EQPT6 Facility's ID=HT-2
** Description=Heater Treater (0.75 MM BTU/h) Construction date=09-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39780E6 VOLUME 638978.19 3568515.529 0
SO SRCPARAM 39780E6 .00126 4.57 .47 .93
**********END OF 39780: Kaiser-Francis - South Bell Lake Pad 3
INFO**********************************
************************************************************
** 3.86km away. Facility ID=40276 Name=Tap Rock - Prometheus B CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19947, -103.56268, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.84tons/year
*****************Facility sources: ****************************
** NMED source ID=40276AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=13-JAN-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276A1 VOLUME 635474.005 3563451.45 0
SO SRCPARAM 40276A1 .3527944 10 30 9.3
** NMED source ID=40276EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3606 1875 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276E1 POINT 635481.541 3563458.471 0
SO SRCPARAM 40276E1 .0151198 4.57 725.93 174.96 .2
** NMED source ID=40276EQPT2 Facility's ID=GEN-1
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276E2 POINT 635474.755 3563462.023 0
SO SRCPARAM 40276E2 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40276EQPT3 Facility's ID=GEN-2
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276E3 POINT 635467.158 3563459.931 0
SO SRCPARAM 40276E3 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40276EQPT4 Facility's ID=GEN-3
```

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** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276E4 POINT 635462.917 3563453.031 0
SO SRCPARAM 40276E4 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40276EQPT5 Facility's ID=GEN-4
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276E5 POINT 635464.569 3563444.877 0
SO SRCPARAM 40276E5 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40276EQPT6 Facility's ID=HT-1
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276E6 POINT 635471.518 3563439.915 0
SO SRCPARAM 40276E6 .00252 4.57 510.93 .4 .3
** NMED source ID=40276EQPT7 Facility's ID=HT-2
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276E7 POINT 635480.201 3563441.057 0
SO SRCPARAM 40276E7 .00252 4.57 510.93 .4 .3
**********END OF 40276: Tap Rock - Prometheus B CTB
INFO************************************
************************************************************
** 3.86km away. Facility ID=37834 Name=Coyote Station
** Company ID=13675 Name=EnLink Delaware Crude Pipeline LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.208861, -103.564872, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.77tons/year
*****************Facility sources: ******************************
** NMED source ID=37834RPNT3 Facility's ID=UR-01
** Description=Unpaved Road Dust Construction date=07-FEB-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37834R3 VOLUME 635253.48 3564489.787 0
SO SRCPARAM 37834R3 .1007984 10 10 9.3
**********END OF 37834: Coyote Station INFO************************************
************************************************************
** 3.9km away. Facility ID=40760 Name=South Bell Lake Pad 7
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.245011, -103.516236, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
```

**********Facility sources: **********
** NMED source ID=40760EQPT3 Facility's ID=HT-1
** Description=Heater Treater HT-1 Construction date=02-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40760E3 VOLUME 639782.254 3568559.721 0
SO SRCPARAM 40760E3 .00126 4.57 .47 .93
** NMED source ID=40760EQPT4 Facility's ID=HT-2
** Description=Heater Treater HT-2 Construction date=02-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40760E4 VOLUME 639789.79 3568566.742 0
SO SRCPARAM 40760E4 .00126 4.57 .47 .93
**********END OF 40760: South Bell Lake Pad 7
INFO**********
**********
** 3.95km away. Facility ID=38949 Name=Charles Ling West Fed Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.23838, -103.54995, NAD83
** Total Particulate Matter (10 microns or less) emissions=.52tons/year
**********Facility sources: **********
** NMED source ID=38949EQPT13 Facility's ID=HT-1
** Description=Heater Treater 0.5 MMBtu/hr Construction date=16-MAY-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38949E13 POINT 636615.76 3567781.195 0
SO SRCPARAM 38949E13 .0002898 9.14 422.04 20.97 .2
** NMED source ID=38949EQPT24 Facility's ID=ENG-1a
** Description=Compressor Engine CAT CG137-8 Construction date=09-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38949E24 POINT 636623.296 3567788.216 0
SO SRCPARAM 38949E24 .0037799 3.66 808.71 96.56 .1
** NMED source ID=38949RPNT2 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=16-MAY-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38949R2 VOLUME 636616.51 3567791.768 0
SO SRCPARAM 38949R2 .0440993 1 .47 .93
**********END OF 38949: Charles Ling West Fed Tank Battery
INFO**********
**********
** 3.95km away. Facility ID=38279 Name=Kaiser-Francis - South Bell Lake Pad 2
** Company ID=433 Name=Kaiser-Francis Oil Company

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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2452, -103.5327, NAD83
** Total Particulate Matter (10 microns or less) emissions=.12tons/year
*****************Facility sources: ****************************
** NMED source ID=38279EQPT1 Facility's ID=HTR-1
** Description=Heater Treater 1MM btu/h Construction date=06-SEP-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38279E1 POINT 638230.781 3568559.355 0
SO SRCPARAM 38279E1 -.00126 4.57 369.82 7.99 .09
** NMED source ID=38279EQPT9 Facility's ID=HTR-2
** Description=Heater Treater 1MM btu/h Construction date=22-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38279E9 POINT 638238.317 3568566.376 0
SO SRCPARAM 38279E9 -.00126 4.57 369.82 7.99 .09
** NMED source ID=38279EQPT10 Facility's ID=HTR-3
** Description=Heater Treater 1MM btu/h Construction date=22-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38279E10 POINT 638231.531 3568569.928 0
SO SRCPARAM 38279E10 -.00126 4.57 369.82 7.99 .09
** NMED source ID=38279EQPT11 Facility's ID=HTR-4
** Description=Heater Treater 1MM btu/h Construction date=22-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38279E11 POINT 638223.934 3568567.836 0
SO SRCPARAM 38279E11 -.00126 4.57 369.82 7.99 .09
**********END OF 38279: Kaiser-Francis - South Bell Lake Pad 2
INFO***********************************
************************************************************
** 4.02km away. Facility ID=40239 Name=South Bell Lake Pad 4
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2466, -103.52168, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40239EQPT4 Facility's ID=HT-1
** Description=Heater Treater Construction date=08-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40239E4 VOLUME 639266.911 3568728.806 0
SO SRCPARAM 40239E4 .00126 4.57 .47 .93
** NMED source ID=40239EQPT5 Facility's ID=HT-2
** Description=Heater Treater Construction date=08-JUL-22
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40239E5 VOLUME 639274.447 3568735.827 0
SO SRCPARAM 40239E5 .00126 4.57 .47 .93
**********END OF 40239: South Bell Lake Pad 4
INFO**********************************
************************************************************
** 4.1km away. Facility ID=40233 Name=Kaiser Francis - South Bell Lake Pad 1
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.24728, -103.52756, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40233EQPT3 Facility's ID=HT-1
** Description=Heater Treater 0.75 MMBtu/hr Construction date=01-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40233E3 POINT 638711.892 3568796.58 0
SO SRCPARAM 40233E3 .00126 4.57 369.82 7.99 .09
** NMED source ID=40233EQPT4 Facility's ID=HT-2
** Description=Heater Treater 0.75 MMBtu/hr Construction date=01-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40233E4 POINT 638719.428 3568803.601 0
SO SRCPARAM 40233E4 .00126 4.57 369.82 7.99 .09
**********END OF 40233: Kaiser Francis - South Bell Lake Pad 1
INFO**********************************
************************************************************
** 4.13km away. Facility ID=40780 Name=South Bell Lake Pad 9
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.24507, -103.5079, NAD83
** Total Particulate Matter (10 microns or less) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=40780EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=18-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40780E3 POINT 640567.557 3568577.146 0
SO SRCPARAM 40780E3 .00126 4.57 369.82 7.99 .09
** NMED source ID=40780EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=18-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40780E4 POINT 640575.093 3568584.167 0
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SO SRCPARAM 40780E4 .00126 4.57 369.82 7.99 .09
**********END OF 40780: South Bell Lake Pad 9
INFO**********************************
************************************************************
** 4.17km away. Facility ID=40296 Name=South Bell Lake Pad 6
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.24691, -103.51301, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40296EQPT2 Facility's ID=HT-1
** Description=Heater Treater Construction date=27-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40296E2 VOLUME 640083.283 3568774.455 0
SO SRCPARAM 40296E2 .00126 4.57 .47 .93
** NMED source ID=40296EQPT3 Facility's ID=HT-2
** Description=Heater Treater Construction date=27-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40296E3 VOLUME 640090.819 3568781.476 0
SO SRCPARAM 40296E3 .00126 4.57 .47 .93
**********END OF 40296: South Bell Lake Pad 6
INFO**********************************
************************************************************
** 4.2km away. Facility ID=40275 Name=Prometheus A CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.200389, -103.566877, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.69tons/year
*****************Facility sources: ****************************
** NMED source ID=40275AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=13-JAN-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275A1 VOLUME 635077.024 3563548.049 0
SO SRCPARAM 40275A1 .3527944 10 30 9.3
** NMED source ID=40275EQPT2 Facility's ID=GEN-1
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E2 POINT 635084.56 3563555.07 0
SO SRCPARAM 40275E2 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40275EQPT3 Facility's ID=GEN-2
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E3 POINT 635077.774 3563558.622 0
SO SRCPARAM 40275E3 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40275EQPT4 Facility's ID=GEN-3
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E4 POINT 635070.177 3563556.53 0
SO SRCPARAM 40275E4 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40275EQPT5 Facility's ID=GEN-4
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E5 POINT 635065.936 3563549.63 0
SO SRCPARAM 40275E5 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40275EQPT6 Facility's ID=HT-1
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E6 POINT 635067.588 3563541.476 0
SO SRCPARAM 40275E6 .00252 4.57 510.93 .4 .3
** NMED source ID=40275EQPT7 Facility's ID=HT-2
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E7 POINT 635074.537 3563536.514 0
SO SRCPARAM 40275E7 .00252 4.57 510.93 .4 .3
** NMED source ID=40275EQPT20 Facility's ID=ENG-2
** Description=Caterpillar G3516 1380 hp Construction date=29-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E20 POINT 635083.22 3563537.656 0
SO SRCPARAM 40275E20 .0113398 4.57 784.82 106.68 .2
**********END OF 40275: Prometheus A CTB INFO************************************
************************************************************
** 4.22km away. Facility ID=763 Name=Bell Lake Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=2208 NSR
** lat,long,datum=32.2484, -103.521883, Unknown
** Total Particulate Matter (10 microns or less) emissions=5.9tons/year
*****************Facility sources: ******************************
** NMED source ID=763EQPT12 Facility's ID=E3
** Description=Waukesha L7042GSI Construction date=10-AUG-17
** SCC=31000203
```

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5530hr/yr, 24hr/day
SO LOCATION 763E12 POINT 639245.038 3568928.096 0
SO SRCPARAM 763E12 .0251996 7.62 824.82 36.39 .2
** NMED source ID=763EQPT13 Facility's ID=E4
** Description=Waukesha L7042GSI Construction date=10-AUG-17
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7720hr/yr, 24hr/day
SO LOCATION 763E13 POINT 639252.574 3568935.117 0
SO SRCPARAM 763E13 .0251996 7.62 880.37 36.39 .2
** NMED source ID=763EQPT16 Facility's ID=E5
** Description=Waukesha L7042GSI Construction date=29-SEP-17
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5362hr/yr, 24hr/day
SO LOCATION 763E16 POINT 639245.788 3568938.669 0
SO SRCPARAM 763E16 .0251996 7.62 880.37 36.39 .2
** NMED source ID=763EQPT17 Facility's ID=E6
** Description=Waukesha L7042GSI Construction date=29-SEP-17
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 763E17 POINT 639238.191 3568936.577 0
SO SRCPARAM 763E17 .0251996 7.62 880.37 36.39 .2
** NMED source ID=763EQPT18 Facility's ID=E7
** Description=Waukesha L7042GSI Construction date=29-SEP-17
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 763E18 POINT 639233.95 3568929.677 0
SO SRCPARAM 763E18 .0251996 7.62 880.37 36.39 .2
** NMED source ID=763EQPT19 Facility's ID=E8
** Description=Waukesha L7042GSI Construction date=29-SEP-17
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 763E19 POINT 639235.602 3568921.523 0
SO SRCPARAM 763E19 .0251996 7.62 880.37 36.39 .2
**********END OF 763: Bell Lake Compressor Station
INFO**********************************
************************************************************
** 4.29km away. Facility ID=39997 Name=Galleon 21 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.198, -103.4808, NAD83
** Total Particulate Matter (10 microns or less) emissions=.6tons/year
****************Facility sources: ****************************
** NMED source ID=39997EQPT4 Facility's ID=HTR-1
** Description=Heater Construction date=04-JUN-21
```

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** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E4 VOLUME 643194.64 3563394.619 0
SO SRCPARAM 39997E4 .00126 4.88 .47 .93
** NMED source ID=39997EQPT12 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=15-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E12 POINT 643202.176 3563401.64 0
SO SRCPARAM 39997E12 .0075599 3.96 1085.93 82.3 .13
** NMED source ID=39997EQPT13 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=15-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E13 POINT 643195.39 3563405.192 0
SO SRCPARAM 39997E13 .0088199 3.96 1003.71 82.91 .13
** NMED source ID=39997EQPT14 Facility's ID=HTR-2
** Description=Heater Construction date=15-JUN-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E14 VOLUME 643187.793 3563403.1 0
SO SRCPARAM 39997E14 .00126 4.88 .47 .93
**********END OF 39997: Galleon 21 Fed Com CTB
INFO**********************************
************************************************************
** 4.29km away. Facility ID=39074 Name=Kaiser - South Bell Lake Pad 0
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.248226, -103.533656, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=39074EQPT1 Facility's ID=HTR-1
** Description=0.75 MM BTU/hr Heater Treater Construction date=18-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39074E1 VOLUME 638136.129 3568893.595 0
SO SRCPARAM 39074E1 .00126 4.57 .47 .93
** NMED source ID=39074EQPT6 Facility's ID=HTR-2
** Description=0.75 MM BTU/hr Heater Treater Construction date=02-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39074E6 VOLUME 638143.665 3568900.616 0
SO SRCPARAM 39074E6 .00126 4.57 .47 .93
**********END OF 39074: Kaiser - South Bell Lake Pad 0
```

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INFO**********************************
************************************************************
** 4.31km away. Facility ID=39857 Name=EOG - Frazier 27 State Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1908, -103.5632, WGS84
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=39857EQPT4 Facility's ID=HT-1
** Description=Heater Treater Construction date=23-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39857E4 VOLUME 635437.833 3562489.629 0
SO SRCPARAM 39857E4 .00126 5.18 .47 .93
**********END OF 39857: EOG - Frazier 27 State Com CTB
INFO**********************************
************************************************************
** 4.4km away. Facility ID=40031 Name=Achilles Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.204215, -103.570033, NAD83
** Total Particulate Matter (10 microns or less) emissions=5.11tons/year
*****************Facility sources: ******************************
** NMED source ID=40031EQPT2 Facility's ID=RBL-1
** Description=Dehy Reboiler (1.5 MMBTU/hr) Construction date=24-JUN-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 40031E2 POINT 634773.89 3563968.242 0
SO SRCPARAM 40031E2 .00252 3.05 588.71 3.99 .3
** NMED source ID=40031EQPT6 Facility's ID=ENG-3
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8171hr/yr, 22hr/day
SO LOCATION 40031E6 POINT 634781.426 3563975.263 0
SO SRCPARAM 40031E6 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT7 Facility's ID=ENG-4
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2417hr/yr, 7hr/day
SO LOCATION 40031E7 POINT 634774.64 3563978.815 0
SO SRCPARAM 40031E7 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT8 Facility's ID=ENG-5
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8354hr/yr, 23hr/day
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SO LOCATION 40031E8 POINT 634767.043 3563976.723 0
SO SRCPARAM 40031E8 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT9 Facility's ID=ENG-6
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6577hr/yr, 18hr/day
SO LOCATION 40031E9 POINT 634762.802 3563969.823 0
SO SRCPARAM 40031E9 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT10 Facility's ID=ENG-7
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6665hr/yr, 18hr/day
SO LOCATION 40031E10 POINT 634764.454 3563961.669 0
SO SRCPARAM 40031E10 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT11 Facility's ID=ENG-8
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8397hr/yr, 23hr/day
SO LOCATION 40031E11 POINT 634771.403 3563956.707 0
SO SRCPARAM 40031E11 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT12 Facility's ID=ENG-9
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40031E12 POINT 634780.086 3563957.849 0
SO SRCPARAM 40031E12 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT13 Facility's ID=ENG-10
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=01-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40031E13 POINT 634785.796 3563964.777 0
SO SRCPARAM 40031E13 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT14 Facility's ID=ENG-11
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=01-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40031E14 POINT 634785.231 3563973.958 0
SO SRCPARAM 40031E14 .0163797 7.01 718.15 33.95 .46
**********END OF 40031: Achilles Compressor Station
INFO**********************************
************************************************************
** 4.41km away. Facility ID=37544 Name=South Bell Lake Pad 11
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
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** lat,long,datum=32.245417, -103.50175, NAD83
** Total Particulate Matter (10 microns or less) emissions=.71tons/year
*****************Facility sources: ****************************
** NMED source ID=37544EQPT5 Facility's ID=HT-1
** Description=Heater treater Construction date=19-JUN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37544E5 POINT 641146.456 3568623.685 0
SO SRCPARAM 37544E5 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT15 Facility's ID=HT-3
** Description=Heater Treater Construction date=19-JUN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37544E15 POINT 641153.992 3568630.706 0
SO SRCPARAM 37544E15 .00252 4.57 294.26 10.44 .09
** NMED source ID=37544EQPT16 Facility's ID=HT-2
** Description=Heater Treater Construction date=19-JUN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37544E16 POINT 641147.206 3568634.258 0
SO SRCPARAM 37544E16 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT19 Facility's ID=HT-4
** Description=Heater Treater Construction date=28-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6816hr/yr, 24hr/day
SO LOCATION 37544E19 POINT 641139.609 3568632.166 0
SO SRCPARAM 37544E19 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT20 Facility's ID=HS-1
** Description=Heated separator Construction date=28-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6816hr/yr, 24hr/day
SO LOCATION 37544E20 POINT 641135.368 3568625.266 0
SO SRCPARAM 37544E20 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT21 Facility's ID=HS-2
** Description=Heated separator Construction date=28-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6816hr/yr, 24hr/day
SO LOCATION 37544E21 POINT 641137.02 3568617.112 0
SO SRCPARAM 37544E21 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT22 Facility's ID=HS-3
** Description=Heated separator Construction date=28-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6816hr/yr, 24hr/day
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SO LOCATION 37544E22 POINT 641143.969 3568612.15 0
SO SRCPARAM 37544E22 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT23 Facility's ID=HS-4
** Description=Heated separator Construction date=28-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6816hr/yr, 24hr/day
SO LOCATION 37544E23 POINT 641152.652 3568613.292 0
SO SRCPARAM 37544E23 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT29 Facility's ID=HT-5
** Description=Heater Treater Construction date=11-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37544E29 POINT 641158.362 3568620.22 0
SO SRCPARAM 37544E29 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT30 Facility's ID=HT-6
** Description=Heater Treater Construction date=11-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37544E30 POINT 641157.797 3568629.401 0
SO SRCPARAM 37544E30 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=11-OCT-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37544R3 VOLUME 641150.962 3568635.879 0
SO SRCPARAM 37544R3 .0667789 10 10 9.3
**********END OF 37544: South Bell Lake Pad 11
INFO**********************************
************************************************************
** 4.43km away. Facility ID=34824 Name=Plantview Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=6036 NSR
** lat,long,datum=32.244011, -103.549392, Unknown
** Total Particulate Matter (10 microns or less) emissions=.7tons/year
*****************Facility sources: ****************************
** NMED source ID=34824EQPT25 Facility's ID=Reboil-3
** Description=Amine Unit Reboiler 21 MMBtu/hr Construction date=03-JAN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34824E25 POINT 636659.903 3568406.17 0
SO SRCPARAM 34824E25 .0201345 9.14 588.71 .24 .71
**********END OF 34824: Plantview Compressor Station
INFO**********************************
************************************************************
** 4.44km away. Facility ID=33935 Name=EOG - Mars 3 State No 1H
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** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.239936, -103.555808, WGS84
** Total Particulate Matter (10 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=33935AREA1 Facility's ID=HAUL
** Description=Haul Road Emissions Construction date=28-AUG-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8040hr/yr, 24hr/day
SO LOCATION 33935A1 VOLUME 636061.48 3567946.258 0
SO SRCPARAM 33935A1 .00126 1 .47 .93
**********END OF 33935: EOG - Mars 3 State No 1H
INFO*********************************
************************************************************
** 4.51km away. Facility ID=40078 Name=Apollo D CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199522, -103.569978, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.96tons/year
*****************Facility sources: ****************************
** NMED source ID=40078AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=22-JUL-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40078A1 VOLUME 634785.996 3563448.04 0
SO SRCPARAM 40078A1 .3527944 10 30 9.3
** NMED source ID=40078EQPT3 Facility's ID=GEN-1
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40078E3 POINT 634793.532 3563455.061 0
SO SRCPARAM 40078E3 .0176397 4.57 1005.37 178 .1
** NMED source ID=40078EQPT4 Facility's ID=GEN-2
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40078E4 POINT 634786.746 3563458.613 0
SO SRCPARAM 40078E4 .0176397 4.57 1005.37 178 .1
** NMED source ID=40078EQPT7 Facility's ID=HT-1
** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40078E7 VOLUME 634779.149 3563456.521 0
SO SRCPARAM 40078E7 .0037799 4.57 .47 .93
** NMED source ID=40078EQPT8 Facility's ID=HT-2
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** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40078E8 VOLUME 634774.908 3563449.621 0
SO SRCPARAM 40078E8 .0037799 4.57 .47 .93
** NMED source ID=40078EQPT19 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=04-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40078E19 POINT 634776.56 3563441.467 0
SO SRCPARAM 40078E19 .0125998 4.57 729.82 164.9 .2
**********END OF 40078: Apollo D CTB INFO**********************************
************************************************************
** 4.56km away. Facility ID=38567 Name=Diamond 31 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.17, -103.516703, WGS84
** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=38567EQPT20 Facility's ID=HTR-1
** Description=Heater Treater Construction date=16-JUL-18
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38567E20 VOLUME 639853.025 3560243.224 0
SO SRCPARAM 38567E20 .00126 6.1 .47 .93
**********END OF 38567: Diamond 31 Fed Com CTB
INFO**********************************
************************************************************
** 4.6km away. Facility ID=39075 Name=South Bell Lake Pad 10
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.247581, -103.502208, NAD83
** Total Particulate Matter (10 microns or less) emissions=.36tons/year
*****************Facility sources: ******************************
** NMED source ID=39075EQPT1 Facility's ID=HT-1
** Description=Heater Treater Construction date=17-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39075E1 POINT 641099.957 3568862.991 0
SO SRCPARAM 39075E1 .00252 4.57 644.26 10.44 .09
** NMED source ID=39075EQPT7 Facility's ID=HT-2
** Description=Heater Treater Construction date=09-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39075E7 POINT 641107.493 3568870.012 0
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SO SRCPARAM 39075E7 .00252 4.57 644.26 10.44 .09
** NMED source ID=39075EQPT8 Facility's ID=HT-3
** Description=Heater Treater Construction date=09-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39075E8 POINT 641100.707 3568873.564 0
SO SRCPARAM 39075E8 .00252 4.57 644.26 10.44 .09
** NMED source ID=39075EQPT9 Facility's ID=HT-4
** Description=Heater Treater Construction date=09-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39075E9 POINT 641093.11 3568871.472 0
SO SRCPARAM 39075E9 .00252 4.57 644.26 10.44 .09
** NMED source ID=39075EQPT31 Facility's ID=REB-1
** Description=Glycol Reboiler Construction date=21-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39075E31 POINT 641088.869 3568864.572 0
SO SRCPARAM 39075E31 .00252 4.57 644.26 10.44 .09
** NMED source ID=39075RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=21-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39075R3 VOLUME 641090.521 3568856.418 0
SO SRCPARAM 39075R3 .0667789 10 10 9.3
**********END OF 39075: South Bell Lake Pad 10
INFO**********************************
************************************************************
** 4.65km away. Facility ID=39461 Name=South Bell Lake Pad 13
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.244185, -103.494577, NAD83
** Total Particulate Matter (10 microns or less) emissions=.36tons/year
*****************Facility sources: ******************************
** NMED source ID=39461EQPT10 Facility's ID=HS-1
** Description=2.0 MMBtu/h Heated Seperator Construction date=24-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2904hr/yr, 24hr/day
SO LOCATION 39461E10 VOLUME 641824.189 3568496.555 0
SO SRCPARAM 39461E10 .00252 4.57 .47 .93
** NMED source ID=39461EQPT11 Facility's ID=HS-2
** Description=2.0 MMBtu/h Heated Seperator Construction date=24-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2904hr/yr, 24hr/day
```

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SO LOCATION 39461E11 VOLUME 641831.725 3568503.576 0
SO SRCPARAM 39461E11 .00252 4.57 .47 .93
** NMED source ID=39461EQPT12 Facility's ID=HT-1
** Description=2.0 MMBtu/h Heater Treater Construction date=24-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2904hr/yr, 24hr/day
SO LOCATION 39461E12 VOLUME 641824.939 3568507.128 0
SO SRCPARAM 39461E12 .00252 4.57 .47 .93
** NMED source ID=39461EQPT13 Facility's ID=HT-2
** Description=2.0 MMBtu/h Heater Treater Construction date=24-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2904hr/yr, 24hr/day
SO LOCATION 39461E13 VOLUME 641817.342 3568505.036 0
SO SRCPARAM 39461E13 .00252 4.57 .47 .93
** NMED source ID=39461EQPT15 Facility's ID=HT-3
** Description=2.0 MMBtu/h Heater Treater Construction date=08-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39461E15 VOLUME 641813.101 3568498.136 0
SO SRCPARAM 39461E15 .00252 4.57 .47 .93
** NMED source ID=39461RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=08-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39461R3 VOLUME 641814.753 3568489.982 0
SO SRCPARAM 39461R3 .0667789 10 10 9.3
**********END OF 39461: South Bell Lake Pad 13
INFO**********************************
************************************************************
** 4.67km away. Facility ID=35517 Name=Frazier 34 Hearns 27
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.183547, -103.561831, WGS84
** Total Particulate Matter (10 microns or less) emissions=.2tons/year
*****************Facility sources: ****************************
** NMED source ID=35517RPNT7 Facility's ID=HHAUL
** Description=Haul Road Fugitives Construction date=28-OCT-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35517R7 VOLUME 635577.645 3561687.28 0
SO SRCPARAM 35517R7 .0050399 1 .47 .93
**********END OF 35517: Frazier 34 Hearns 27
INFO**********************************
************************************************************
** 4.73km away. Facility ID=39577 Name=The Contest CTB
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** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.229897, -103.479136, NAD83
** Total Particulate Matter (10 microns or less) emissions=.4tons/year
*****************Facility sources: ****************************
** NMED source ID=39577AREA1 Facility's ID=HR-1
** Description=Haul Roads Construction date=25-JUN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39577A1 VOLUME 643301.449 3566933.04 0
SO SRCPARAM 39577A1 .1763972 10 10 9.3
**********END OF 39577: The Contest CTB INFO************************************
************************************************************
** 4.73km away. Facility ID=38830 Name=Zeus CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.225585, -103.570904, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.61tons/year
*****************Facility sources: ****************************
** NMED source ID=38830AREA4 Facility's ID=HR-1
** Description=Unpaved Haul Roads 1 Construction date=17-MAR-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830A4 VOLUME 634660.284 3566336.254 0
SO SRCPARAM 38830A4 .0881986 10 10 9.3
** NMED source ID=38830AREA5 Facility's ID=HR-2
** Description=Unpaved Haul Roads 2 Construction date=17-MAR-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830A5 VOLUME 634667.82 3566343.275 0
SO SRCPARAM 38830A5 .0440993 1 .47 .93
** NMED source ID=38830EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38830E1 VOLUME 634661.034 3566346.827 0
SO SRCPARAM 38830E1 .00126 3.66 .47 .93
** NMED source ID=38830EQPT2 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38830E2 VOLUME 634653.437 3566344.735 0
SO SRCPARAM 38830E2 .00126 3.66 .47 .93
** NMED source ID=38830EQPT9 Facility's ID=ENG-1
** Description=CAT 3516 1340 HP Compressor Engine Construction date=17-MAR-21
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E9 POINT 634649.196 3566337.835 0
SO SRCPARAM 38830E9 .0151198 4.57 834.26 216.1 .15
** NMED source ID=38830EQPT10 Facility's ID=ENG-2
** Description=145 HP CAT G3306NA Construction date=17-MAR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E10 POINT 634650.848 3566329.681 0
SO SRCPARAM 38830E10 .00252 3.66 831.48 37.19 .1
** NMED source ID=38830EQPT11 Facility's ID=ENG-3
** Description=145 HP CAT G3306NA Construction date=17-MAR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E11 POINT 634657.797 3566324.719 0
SO SRCPARAM 38830E11 .00252 3.66 831.48 37.19 .1
** NMED source ID=38830EQPT19 Facility's ID=HT-3
** Description=Heater Treater 3 Construction date=17-MAR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E19 VOLUME 634666.48 3566325.861 0
SO SRCPARAM 38830E19 .00126 3.66 .47 .93
** NMED source ID=38830EQPT20 Facility's ID=HT-4
** Description=Heater Treater 4 Construction date=17-MAR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E20 VOLUME 634672.19 3566332.789 0
SO SRCPARAM 38830E20 .00126 3.66 .47 .93
** NMED source ID=38830EQPT21 Facility's ID=HT-5
** Description=Heater Treater 5 Construction date=17-MAR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E21 VOLUME 634671.625 3566341.97 0
SO SRCPARAM 38830E21 .00126 3.66 .47 .93
** NMED source ID=38830EQPT22 Facility's ID=HT-6
** Description=Heater Treater 6 Construction date=17-MAR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E22 VOLUME 634664.79 3566348.448 0
SO SRCPARAM 38830E22 .00126 7.32 .47 .93
** NMED source ID=38830EQPT55 Facility's ID=ENG-4
** Description=1380 HP Compressor Engine Construction date=28-NOV-23
** SCC=20200254
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E55 POINT 634655.154 3566348.525 0
SO SRCPARAM 38830E55 .0125998 4.57 716.48 33.95 .38
**********END OF 38830: Zeus CTB INFO**********************************
************************************************************
** 4.86km away. Facility ID=37770 Name=EOG - Hearns Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.178322, -103.558642, Unknown
** Total Particulate Matter (10 microns or less) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=37770EQPT16 Facility's ID=HTR-1
** Description=Heater Treater, 0.5 MMBtu/hr Construction date=02-FEB-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37770E16 VOLUME 635886.065 3561112.057 0
SO SRCPARAM 37770E16 .0005796 5.18 .47 .93
**********END OF 37770: EOG - Hearns Localized Gas Lift Station
INFO**********************************
************************************************************
** 4.9km away. Facility ID=40077 Name=Tap Rock - Apollo C CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19954, -103.574285, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.85tons/year
*****************Facility sources: ****************************
** NMED source ID=40077AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=22-JUL-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40077A1 VOLUME 634379.979 3563444.643 0
SO SRCPARAM 40077A1 .3527944 10 30 9.3
** NMED source ID=40077EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=22-JUL-21
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40077E1 POINT 634387.515 3563451.664 0
SO SRCPARAM 40077E1 .0125998 4.57 728.71 111.86 .2
** NMED source ID=40077EQPT4 Facility's ID=GEN-1
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40077E4 POINT 634380.729 3563455.216 0
SO SRCPARAM 40077E4 .0176397 4.57 1005.37 178 .1
** NMED source ID=40077EQPT5 Facility's ID=GEN-2
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** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40077E5 POINT 634373.132 3563453.124 0
SO SRCPARAM 40077E5 .0176397 4.57 1005.37 178 .1
** NMED source ID=40077EQPT6 Facility's ID=HT-1
** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40077E6 VOLUME 634368.891 3563446.224 0
SO SRCPARAM 40077E6 .0037799 4.57 .47 .93
** NMED source ID=40077EQPT7 Facility's ID=HT-2
** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40077E7 VOLUME 634370.543 3563438.07 0
SO SRCPARAM 40077E7 .0037799 4.57 .47 .93
**********END OF 40077: Tap Rock - Apollo C CTB
INFO************************************
************************************************************
** 4.91km away. Facility ID=39465 Name=Bell Lake Unit South Pad 15
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.244141, -103.490027, NAD83
** Total Particulate Matter (10 microns or less) emissions=.71tons/year
*****************Facility sources: ******************************
** NMED source ID=39465EQPT19 Facility's ID=HS-1
** Description=Heated Separator Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E19 POINT 642252.951 3568497.697 0
SO SRCPARAM 39465E19 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT20 Facility's ID=HS-2
** Description=Heated Separator Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E20 POINT 642260.487 3568504.718 0
SO SRCPARAM 39465E20 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT21 Facility's ID=HS-3
** Description=Heated Separator Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E21 POINT 642253.701 3568508.27 0
SO SRCPARAM 39465E21 .00252 4.57 644.26 10.44 .09
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** NMED source ID=39465EQPT22 Facility's ID=HS-4
** Description=Heated Separator Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E22 POINT 642246.104 3568506.178 0
SO SRCPARAM 39465E22 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT23 Facility's ID=HT-1
** Description=Heater Treater Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E23 POINT 642241.863 3568499.278 0
SO SRCPARAM 39465E23 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT24 Facility's ID=HT-2
** Description=Heater Treater Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E24 POINT 642243.515 3568491.124 0
SO SRCPARAM 39465E24 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT25 Facility's ID=HT-3
** Description=Heater Treater Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E25 POINT 642250.464 3568486.162 0
SO SRCPARAM 39465E25 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT26 Facility's ID=HT-4
** Description=Heater Treater Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E26 POINT 642259.147 3568487.304 0
SO SRCPARAM 39465E26 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT29 Facility's ID=HT-5
** Description=Heater Treater Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39465E29 POINT 642264.857 3568494.232 0
SO SRCPARAM 39465E29 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT30 Facility's ID=HT-6
** Description=Heater Treater Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39465E30 POINT 642264.292 3568503.413 0
SO SRCPARAM 39465E30 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465RPNT3 Facility's ID=HR
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** Description=Unpaved Haul Road Emissions Construction date=02-OCT-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39465R3 VOLUME 642257.457 3568509.891 0
SO SRCPARAM 39465R3 .0667789 10 10 9.3
**********END OF 39465: Bell Lake Unit South Pad 15
INFO**********************************
************************************************************
** 4.92km away. Facility ID=40416 Name=Hawk 35 Fed South CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1711, -103.5474, WGS84
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40416EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=26-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40416E2 VOLUME 636956.831 3560325.677 0
SO SRCPARAM 40416E2 .00126 4.88 .47 .93
** NMED source ID=40416EQPT10 Facility's ID=HTR-2
** Description=Heater Treater Construction date=03-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40416E10 VOLUME 636964.367 3560332.698 0
SO SRCPARAM 40416E10 .00126 4.88 .47 .93
**********END OF 40416: Hawk 35 Fed South CTB
INFO**********************************
************************************************************
** 4.92km away. Facility ID=39081 Name=Dillon 31 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.169, -103.506111, WGS84
** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=39081EQPT9 Facility's ID=HTR-1
** Description=Heater Treater Construction date=08-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39081E9 POINT 640853.332 3560146.181 0
SO SRCPARAM 39081E9 .00126 6.1 588.71 .19 1.83
**********END OF 39081: Dillon 31 Fed Com CTB
INFO**********************************
************************************************************
** 5.06km away. Facility ID=38644 Name=Pirate State No301H
** Company ID=13537 Name=Permian Resources
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.211333, -103.470208, WGS84
** Total Particulate Matter (10 microns or less) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=38644EQPT10 Facility's ID=HT-1
** Description=Heater Treater Construction date=13-JUN-18
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38644E10 VOLUME 644172.071 3564886.918 0
SO SRCPARAM 38644E10 .0005796 6.1 .47 .93
**********END OF 38644: Pirate State No301H
INFO*************************************
************************************************************
** 5.1km away. Facility ID=40536 Name=Sea Snake 35 Wellpad 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9676 NOI
** lat,long,datum=32.254583, -103.538913, NAD83
** Total Particulate Matter (10 microns or less) emissions=.5tons/year
*****************Facility sources: ****************************
** NMED source ID=40536EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40536E1 POINT 637631.257 3569591.595 0
SO SRCPARAM 40536E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=40536EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40536E2 POINT 637638.793 3569598.616 0
SO SRCPARAM 40536E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40536: Sea Snake 35 Wellpad 6
INFO*************************************
************************************************************
** 5.15km away. Facility ID=38141 Name=Pirate State No 101H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.211253, -103.469167, WGS84
** Total Particulate Matter (10 microns or less) emissions=.74tons/year
*****************Facility sources: ****************************
** NMED source ID=38141EQPT5 Facility's ID=H-1
** Description=heater treater; 1.0 MMBtu/h Construction date=05-DEC-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7176hr/yr, 24hr/day
SO LOCATION 38141E5 VOLUME 644270.314 3564879.446 0
SO SRCPARAM 38141E5 .00126 4.57 .47 .93
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** NMED source ID=38141EQPT6 Facility's ID=ECD
** Description=Enclosed Combustion Device: 14.87 Mscf/h Construction date=04-DEC-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38141E6 POINT 644277.85 3564886.467 0
SO SRCPARAM 38141E6 .0043091 6.1 1273 20 .84
** NMED source ID=38141RPNT1 Facility's ID=HAUL
** Description=Haul Roads Construction date=06-DEC-17
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38141R1 VOLUME 644271.064 3564890.019 0
SO SRCPARAM 38141R1 .0755988 10 10 9.3
**********END OF 38141: Pirate State No 101H
INFO**********************************
************************************************************
** 5.22km away. Facility ID=38448 Name=Stonewall 28 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.192528, -103.472713, WGS84
** Total Particulate Matter (10 microns or less) emissions=.62tons/year
*****************Facility sources: ****************************
** NMED source ID=38448EQPT16 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8746hr/yr, 24hr/day
SO LOCATION 38448E16 VOLUME 643965.59 3562798.778 0
SO SRCPARAM 38448E16 .00126 4.88 .47 .93
** NMED source ID=38448EQPT17 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=06-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E17 POINT 643973.126 3562805.799 0
SO SRCPARAM 38448E17 .0075599 3.96 803.71 59.13 .13
** NMED source ID=38448EQPT18 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=06-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E18 POINT 643966.34 3562809.351 0
SO SRCPARAM 38448E18 .0088199 3.96 1003.71 82.91 .13
** NMED source ID=38448EQPT20 Facility's ID=HTR-2
** Description=Heater Treater Construction date=06-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E20 VOLUME 643958.743 3562807.259 0
```

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SO SRCPARAM 38448E20 .00126 4.88 .47 .93
** NMED source ID=38448EQPT21 Facility's ID=HTR-3
** Description=Heater Treater Construction date=06-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E21 VOLUME 643954.502 3562800.359 0
SO SRCPARAM 38448E21 .00126 4.88 .47 .93
**********END OF 38448: Stonewall 28 Fed Com CTB
INFO**********************************
************************************************************
** 5.24km away. Facility ID=39956 Name=Bald Eagle LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1839, -103.4781, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.28tons/year
*****************Facility sources: ******************************
** NMED source ID=39956EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine CAT G3606 Construction date=04-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E2 POINT 643471.284 3561835.053 0
SO SRCPARAM 39956E2 .0163797 8.53 719.26 27.49 .51
** NMED source ID=39956EQPT9 Facility's ID=HTR-1
** Description=Seperator Heater Construction date=04-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E9 POINT 643478.82 3561842.074 0
SO SRCPARAM 39956E9 .00126 6.1 588.71 .11 1.83
** NMED source ID=39956EQPT11 Facility's ID=RBL-1
** Description=Dehy Reboiler Construction date=04-MAY-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E11 POINT 643472.034 3561845.626 0
SO SRCPARAM 39956E11 .00126 2.44 588.71 .22 1.07
** NMED source ID=39956EQPT16 Facility's ID=ENG-2
** Description=Compressor Engine CAT G3608 Construction date=05-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E16 POINT 643464.437 3561843.534 0
SO SRCPARAM 39956E16 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39956EQPT17 Facility's ID=ENG-3
** Description=Compressor Engine CAT G3608 Construction date=05-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 39956E17 POINT 643460.196 3561836.634 0
SO SRCPARAM 39956E17 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39956EQPT18 Facility's ID=ENG-4
** Description=Compressor Engine CAT G3608 Construction date=05-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E18 POINT 643461.848 3561828.48 0
SO SRCPARAM 39956E18 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39956EQPT19 Facility's ID=ENG-5
** Description=Compressor Engine CAT G3608 Construction date=05-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E19 POINT 643468.797 3561823.518 0
SO SRCPARAM 39956E19 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39956EQPT20 Facility's ID=ENG-6
** Description=Compressor Engine CAT G3608 Construction date=05-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E20 POINT 643477.48 3561824.66 0
SO SRCPARAM 39956E20 .0214197 8.84 688.15 25.09 .61
**********END OF 39956: Bald Eagle LGL Station
INFO***********************************
************************************************************
** 5.25km away. Facility ID=38489 Name=Pirate State Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.203228, -103.468788, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.21tons/year
*****************Facility sources: ****************************
** NMED source ID=38489EQPT1 Facility's ID=1
** Description=Compressor Engine CAT G3516 1380 hp w/catalyst Construction
date=29-JUN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7988hr/yr, 22hr/day
SO LOCATION 38489E1 POINT 644318.711 3563990.277 0
SO SRCPARAM 38489E1 .0125998 7.37 725.93 29.93 .41
** NMED source ID=38489EQPT2 Facility's ID=2
** Description=Compressor Engine CAT G3516 1380 hp w/catalyst Construction
date=29-JUN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38489E2 POINT 644326.247 3563997.298 0
SO SRCPARAM 38489E2 .0125998 7.37 725.93 29.93 .41
** NMED source ID=38489EQPT6 Facility's ID=6
** Description=Dehydrator Reboiler 1, 0.75 MMBtu/hr Construction date=29-JUN-18
```

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** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8219hr/yr, 23hr/day
SO LOCATION 38489E6 POINT 644319.461 3564000.85 0
SO SRCPARAM 38489E6 .00126 3.05 588.71 1.34 .3
** NMED source ID=38489EQPT7 Facility's ID=7
** Description=Glycol Reboiler Construction date=29-JUN-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8640hr/yr, 24hr/day
SO LOCATION 38489E7 POINT 644311.864 3563998.758 0
SO SRCPARAM 38489E7 .0005796 3.05 588.71 1.34 .3
** NMED source ID=38489EQPT11 Facility's ID=14
** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8298hr/yr, 23hr/day
SO LOCATION 38489E11 POINT 644307.623 3563991.858 0
SO SRCPARAM 38489E11 .0163797 7.01 707.59 33.83 .46
** NMED source ID=38489EQPT12 Facility's ID=15
** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8371hr/yr, 23hr/day
SO LOCATION 38489E12 POINT 644309.275 3563983.704 0
SO SRCPARAM 38489E12 .0163797 7.01 707.59 33.83 .46
** NMED source ID=38489EQPT13 Facility's ID=16
** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7262hr/yr, 20hr/day
SO LOCATION 38489E13 POINT 644316.224 3563978.742 0
SO SRCPARAM 38489E13 .0163797 7.01 707.59 33.83 .46
** NMED source ID=38489EQPT19 Facility's ID=19
** Description=Glycol Reboiler Construction date=23-MAY-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8640hr/yr, 24hr/day
SO LOCATION 38489E19 POINT 644324.907 3563979.884 0
SO SRCPARAM 38489E19 .0005796 3.05 588.71 1.98 .3
** NMED source ID=38489EQPT20 Facility's ID=22
** Description=Combustor Construction date=26-DEC-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38489E20 POINT 644330.617 3563986.812 0
SO SRCPARAM 38489E20 .0002898 7.62 1273 20 20.806
** NMED source ID=38489EQPT21 Facility's ID=23
** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-FEB-21
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8307hr/yr, 23hr/day
SO LOCATION 38489E21 POINT 644330.052 3563995.993 0
SO SRCPARAM 38489E21 .0163797 7.01 707.59 33.83 .46
**********END OF 38489: Pirate State Compressor Station
INFO**********************************
************************************************************
** 5.26km away. Facility ID=40537 Name=Sea Snake 35 Wellpad 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9677 NOI
** lat,long,datum=32.254438, -103.544605, NAD83
** Total Particulate Matter (10 microns or less) emissions=.5tons/year
*****************Facility sources: ******************************
** NMED source ID=40537EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40537E1 POINT 637095.25 3569568.235 0
SO SRCPARAM 40537E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=40537EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40537E2 POINT 637102.786 3569575.256 0
SO SRCPARAM 40537E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40537: Sea Snake 35 Wellpad 5
INFO**********************************
************************************************************
** 5.28km away. Facility ID=5694 Name=Keystone 6 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.16445, -103.510687, WGS84
** Total Particulate Matter (10 microns or less) emissions=.61tons/year
*****************Facility sources: ******************************
** NMED source ID=5694EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5694E1 POINT 640428.817 3559635.778 0
SO SRCPARAM 5694E1 .0075599 3.96 803.71 58.52 .13
** NMED source ID=5694EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5694E2 POINT 640436.353 3559642.799 0
SO SRCPARAM 5694E2 .0088199 3.96 1003.71 82.3 .13
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** NMED source ID=5694EQPT4 Facility's ID=HTR-1
** Description=Heater Treater Construction date=12-JUL-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5694E4 VOLUME 640429.567 3559646.351 0
SO SRCPARAM 5694E4 .00126 7.32 .47 .93
** NMED source ID=5694EQPT5 Facility's ID=HTR-2
** Description=Heater Treater Construction date=12-JUL-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5694E5 VOLUME 640421.97 3559644.259 0
SO SRCPARAM 5694E5 .00126 4.88 .47 .93
**********END OF 5694: Keystone 6 Fed Com CTB
INFO**********************************
************************************************************
** 5.29km away. Facility ID=40081 Name=Apollo B CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199573, -103.578517, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.96tons/year
*****************Facility sources: ****************************
** NMED source ID=40081AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=22-JUL-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40081A1 VOLUME 633981.01 3563443.019 0
SO SRCPARAM 40081A1 .3527944 10 30 9.3
** NMED source ID=40081EQPT4 Facility's ID=GEN-1
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40081E4 POINT 633988.546 3563450.04 0
SO SRCPARAM 40081E4 .0176397 4.57 1005.37 178 .1
** NMED source ID=40081EQPT5 Facility's ID=GEN-2
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40081E5 POINT 633981.76 3563453.592 0
SO SRCPARAM 40081E5 .0176397 4.57 1005.37 178 .1
** NMED source ID=40081EQPT6 Facility's ID=HT-1
** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40081E6 VOLUME 633974.163 3563451.5 0
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SO SRCPARAM 40081E6 .0037799 4.57 .47 .93
** NMED source ID=40081EQPT7 Facility's ID=HT-2
** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40081E7 VOLUME 633969.922 3563444.6 0
SO SRCPARAM 40081E7 .0037799 4.57 .47 .93
** NMED source ID=40081EQPT18 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=01-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40081E18 POINT 633971.574 3563436.446 0
SO SRCPARAM 40081E18 .0125998 4.57 729.82 164.9 .2
**********END OF 40081: Apollo B CTB INFO************************************
************************************************************
** 5.3km away. Facility ID=39360 Name=Poseidon A CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.227263, -103.576644, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.06tons/year
*****************Facility sources: ****************************
** NMED source ID=39360AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Roads Construction date=11-FEB-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39360A1 VOLUME 634116.904 3566515.098 0
SO SRCPARAM 39360A1 .3527944 10 30 9.3
** NMED source ID=39360EQPT3 Facility's ID=HT-1
** Description=1.0 MMBtu/h Heater Treater Construction date=11-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7320hr/yr, 24hr/day
SO LOCATION 39360E3 VOLUME 634124.44 3566522.119 0
SO SRCPARAM 39360E3 .00126 6.1 .47 .93
** NMED source ID=39360EQPT19 Facility's ID=ENG-2
** Description=CAT G3516 1380 hp compressor engine Construction date=18-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39360E19 POINT 634117.654 3566525.671 0
SO SRCPARAM 39360E19 .0125998 3.66 724.82 110.31 .2
** NMED source ID=39360EQPT21 Facility's ID=HT-2
** Description=3.0 MMBtu/h Heater Treater Construction date=18-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39360E21 VOLUME 634110.057 3566523.579 0
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SO SRCPARAM 39360E21 .0037799 6.1 .47 .93
** NMED source ID=39360EQPT22 Facility's ID=ENG-3
** Description=CAT G3516 1380 hp compressor engine Construction date=24-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39360E22 POINT 634105.816 3566516.679 0
SO SRCPARAM 39360E22 .0125998 3.66 724.82 110.31 .2
**********END OF 39360: Poseidon A CTB INFO************************************
************************************************************
** 5.33km away. Facility ID=39975 Name=Raider Fed 502/701H Central Tank Battery
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1966, -103.469734, NAD83
** Total Particulate Matter (10 microns or less) emissions=.33tons/year
*****************Facility sources: ******************************
** NMED source ID=39975EQPT1 Facility's ID=HT-1
** Description=0.5 MMBtu/hr Heater Treater Construction date=13-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39975E1 VOLUME 644240.001 3563254.206 0
SO SRCPARAM 39975E1 .00126 6.1 .47 .93
** NMED source ID=39975EQPT10 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=01-AUG-21
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39975E10 POINT 644247.537 3563261.227 0
SO SRCPARAM 39975E10 .0088199 4.57 812.59 42.28 .15
**********END OF 39975: Raider Fed 502/701H Central Tank Battery
INFO**********************************
************************************************************
** 5.34km away. Facility ID=38358 Name=Convoy Central CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1921, -103.5762, WGS84
** Total Particulate Matter (10 microns or less) emissions=.28tons/year
*****************Facility sources: ******************************
** NMED source ID=38358EQPT17 Facility's ID=HTR-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38358E17 VOLUME 634210.388 3562617.446 0
SO SRCPARAM 38358E17 .0002898 7.32 .47 .93
** NMED source ID=38358EQPT20 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=10-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38358E20 POINT 634217.924 3562624.467 0
SO SRCPARAM 38358E20 .0075599 3.96 1085.93 82.3 .13
** NMED source ID=38358EQPT22 Facility's ID=HTR-2
** Description=Heater Construction date=10-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38358E22 VOLUME 634211.138 3562628.019 0
SO SRCPARAM 38358E22 .0002898 4.88 .47 .93
**********END OF 38358: Convoy Central CTB INFO**********************************
************************************************************
** 5.38km away. Facility ID=40752 Name=Lacey Swiss 1 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1624, -103.5283, WGS84
** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=40752EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=26-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40752E2 VOLUME 638771.018 3559385.66 0
SO SRCPARAM 40752E2 .00126 6.1 .47 .93
**********END OF 40752: Lacey Swiss 1 Fed Com CTB
INFO**********************************
************************************************************
** 5.39km away. Facility ID=40213 Name=Kaiser - South Bell Lake Pad 14
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.247938, -103.487496, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40213EQPT2 Facility's ID=HT-1
** Description=Heater Treater` Construction date=04-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40213E2 POINT 642485.487 3568922.003 0
SO SRCPARAM 40213E2 .00126 4.57 369.82 7.99 .09
** NMED source ID=40213EQPT3 Facility's ID=HT-2
** Description=Heater Treater` Construction date=04-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40213E3 POINT 642493.023 3568929.024 0
SO SRCPARAM 40213E3 .00126 4.57 369.82 7.99 .09
**********END OF 40213: Kaiser - South Bell Lake Pad 14
INFO**********************************
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** 5.41km away. Facility ID=40324 Name=Sea Snake 35 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.256561, -103.542309, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.99tons/year
*****************Facility sources: ******************************
** NMED source ID=40324EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=16-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40324E2 VOLUME 637308.353 3569806.531 0
SO SRCPARAM 40324E2 .00252 9.14 .47 .93
** NMED source ID=40324RPNT4 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=16-MAR-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40324R4 VOLUME 637315.889 3569813.552 0
SO SRCPARAM 40324R4 .2784556 10 20 9.3
**********END OF 40324: Sea Snake 35 CTB 3 INFO************************************
************************************************************
** 5.42km away. Facility ID=38349 Name=Cobalt 32 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.16945, -103.49298, WGS84
** Total Particulate Matter (10 microns or less) emissions=.64tons/year
*****************Facility sources: ******************************
** NMED source ID=38349EQPT6 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=28-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E6 POINT 642090.831 3560213.337 0
SO SRCPARAM 38349E6 .0075599 3.96 803.71 59.13 .13
** NMED source ID=38349EQPT7 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=28-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E7 POINT 642098.367 3560220.358 0
SO SRCPARAM 38349E7 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=38349EQPT18 Facility's ID=HTR-1
** Description=Heater Treater Construction date=28-AUG-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E18 VOLUME 642091.581 3560223.91 0
SO SRCPARAM 38349E18 .00126 7.32 .47 .93
```

```
** NMED source ID=38349EQPT19 Facility's ID=HTR-2
** Description=Heater Treater Construction date=28-AUG-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E19 VOLUME 642083.984 3560221.818 0
SO SRCPARAM 38349E19 .00126 4.88 .47 .93
** NMED source ID=38349EQPT20 Facility's ID=HTR-3
** Description=Heater Treater Construction date=28-AUG-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E20 VOLUME 642079.743 3560214.918 0
SO SRCPARAM 38349E20 .00126 4.88 .47 .93
**********END OF 38349: Cobalt 32 State CTB
INFO***********************************
************************************************************
** 5.46km away. Facility ID=39031 Name=Pirate State CTB1
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223875, -103.468111, WGS84
** Total Particulate Matter (10 microns or less) emissions=.29tons/year
*****************Facility sources: ****************************
** NMED source ID=39031EQPT14 Facility's ID=ENG-1
** Description=Caterpillar CG137-8 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 39031E14 POINT 644349.894 3566280.184 0
SO SRCPARAM 39031E14 .0075599 3.66 807.59 15.24 .25
** NMED source ID=39031EQPT17 Facility's ID=HT-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 39031E17 VOLUME 644357.43 3566287.205 0
SO SRCPARAM 39031E17 .00126 3.96 .47 .93
**********END OF 39031: Pirate State CTB1 INFO************************************
************************************************************
** 5.5km away. Facility ID=39420 Name=EOG - Stonewall Northeast 28 Fe Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.195, -103.4685, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.6tons/year
*****************Facility sources: ****************************
** NMED source ID=39420AREA1 Facility's ID=HAUL
** Description=Haul Road Construction date=18-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
```

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SO LOCATION 39420A1 VOLUME 644358.854 3563078.481 0
SO SRCPARAM 39420A1 .0460271 1 .47 .93
**********END OF 39420: EOG - Stonewall Northeast 28 Fe Com CTB
INFO**********************************
************************************************************
** 5.56km away. Facility ID=38706 Name=Raider Federal Com No101H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.196067, -103.467442, WGS84
** Total Particulate Matter (10 microns or less) emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=38706EQPT5 Facility's ID=HT-1
** Description=0.5 MMBtu/h Heater Treater Construction date=20-NOV-20
** SCC=unknown
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8088hr/yr, 24hr/day
SO LOCATION 38706E5 VOLUME 644456.905 3563198.194 0
SO SRCPARAM 38706E5 .0005796 3.96 .47 .93
**********END OF 38706: Raider Federal Com No101H
INFO**********************************
************************************************************
** 5.57km away. Facility ID=39958 Name=Raider Fed Com CTB No 2
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.197222, -103.466944, WGS84
** Total Particulate Matter (10 microns or less) emissions=.29tons/year
*****************Facility sources: ******************************
** NMED source ID=39958EQPT2 Facility's ID=HT-1
** Description=1 MMBtu/h Heater Treater Construction date=26-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39958E2 VOLUME 644502.025 3563326.91 0
SO SRCPARAM 39958E2 .00126 3.96 .47 .93
** NMED source ID=39958EQPT18 Facility's ID=ENG-1
** Description=CAT G3306B 203 hp compressor engine Construction date=26-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39958E18 POINT 644509.561 3563333.931 0
SO SRCPARAM 39958E18 .0075599 3.66 799.82 15.15 .25
**********END OF 39958: Raider Fed Com CTB No 2
INFO**********************************
************************************************************
** 5.58km away. Facility ID=40214 Name=Kaiser-Francis - South Bell Lake Pad 16
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.247871, -103.484399, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
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** NMED source ID=40214EQPT2 Facility's ID=HT-1
** Description=Heater Treater Construction date=08-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40214E2 POINT 642777.375 3568918.69 0
SO SRCPARAM 40214E2 .00126 4.57 369.82 7.99 .09
** NMED source ID=40214EQPT3 Facility's ID=HT-2
** Description=Heater Treater Construction date=08-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40214E3 POINT 642784.911 3568925.711 0
SO SRCPARAM 40214E3 .00126 4.57 369.82 7.99 .09
**********END OF 40214: Kaiser-Francis - South Bell Lake Pad 16
INFO**********************************
************************************************************
** 5.62km away. Facility ID=38295 Name=Romeo Federal Com No1H and No701H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.209192, -103.464233, WGS84
** Total Particulate Matter (10 microns or less) emissions=.29tons/year
*****************Facility sources: ****************************
** NMED source ID=38295EQPT3 Facility's ID=HT-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7128hr/yr, 24hr/day
SO LOCATION 38295E3 POINT 644738.623 3564657.592 0
SO SRCPARAM 38295E3 .00126 3.96 588.71 2.26 .3
** NMED source ID=38295EQPT11 Facility's ID=ENG-1
** Description=CAT CG137-8, 400 hp Construction date=12-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38295E11 POINT 644746.159 3564664.613 0
SO SRCPARAM 38295E11 .0075599 3.66 802.59 15.1 .25
**********END OF 38295: Romeo Federal Com No1H and No701H
INFO**********************************
************************************************************
** 5.68km away. Facility ID=40380 Name=Helios Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.2043, -103.5837, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.25tons/year
*****************Facility sources: ****************************
** NMED source ID=40380EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=02-MAR-09
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E2 POINT 633485.541 3563960.609 0
SO SRCPARAM 40380E2 .0151198 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=16-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E3 POINT 633493.077 3563967.63 0
SO SRCPARAM 40380E3 .0151198 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=16-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E4 POINT 633486.291 3563971.182 0
SO SRCPARAM 40380E4 .0151198 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=16-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E5 POINT 633478.694 3563969.09 0
SO SRCPARAM 40380E5 .0151198 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=16-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E6 POINT 633474.453 3563962.19 0
SO SRCPARAM 40380E6 .0151198 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=16-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E7 POINT 633476.105 3563954.036 0
SO SRCPARAM 40380E7 .0151198 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT9 Facility's ID=RBL-1
** Description=Dehydrator Reboiler Construction date=16-OCT-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5700hr/yr, 16hr/day
SO LOCATION 40380E9 POINT 633483.054 3563949.074 0
SO SRCPARAM 40380E9 .00252 3.05 588.71 3.99 .3
**********END OF 40380: Helios Compressor Station
INFO**********************************
************************************************************
** 5.73km away. Facility ID=38561 Name=Flowmaster 3H 6H 7H CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223861, -103.465111, NAD83
** Total Particulate Matter (10 microns or less) emissions=.21tons/year
*****************Facility sources: ****************************
** NMED source ID=38561EQPT2 Facility's ID=HTR-1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38561E2 VOLUME 644632.636 3566282.667 0
SO SRCPARAM 38561E2 .00126 4.57 .47 .93
** NMED source ID=38561EQPT3 Facility's ID=ENG-1
** Description=Compressor Engine 1 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8678hr/yr, 24hr/day
SO LOCATION 38561E3 POINT 644640.172 3566289.688 0
SO SRCPARAM 38561E3 .0037799 4.51 1000.37 72.33 .13
** NMED source ID=38561RPNT2 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38561R2 VOLUME 644633.386 3566293.24 0
SO SRCPARAM 38561R2 .0017262 1 .47 .93
**********END OF 38561: Flowmaster 3H 6H 7H CTB
INFO**********************************
************************************************************
** 5.73km away. Facility ID=39005 Name=Durango 2 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1616, -103.5427, WGS84
** Total Particulate Matter (10 microns or less) emissions=.64tons/year
*****************Facility sources: ****************************
** NMED source ID=39005EQPT7 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39005E7 VOLUME 637414.271 3559278.491 0
SO SRCPARAM 39005E7 .00126 4.88 .47 .93
** NMED source ID=39005EQPT8 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8679hr/yr, 24hr/day
SO LOCATION 39005E8 VOLUME 637421.807 3559285.512 0
SO SRCPARAM 39005E8 .00126 7.32 .47 .93
** NMED source ID=39005EQPT18 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=17-JUL-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39005E18 POINT 637415.021 3559289.064 0
SO SRCPARAM 39005E18 .0075599 3.96 803.71 59.13 .13
** NMED source ID=39005EQPT19 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=17-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39005E19 POINT 637407.424 3559286.972 0
SO SRCPARAM 39005E19 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=39005EQPT20 Facility's ID=HTR-3
** Description=Heater Treater Construction date=17-JUL-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39005E20 VOLUME 637403.183 3559280.072 0
SO SRCPARAM 39005E20 .00126 4.88 .47 .93
**********END OF 39005: Durango 2 State CTB
INFO************************************
************************************************************
** 5.76km away. Facility ID=40080 Name=Tap Rock - Apollo A CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199604, -103.583619, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.85tons/year
*****************Facility sources: ****************************
** NMED source ID=40080AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=22-JUL-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40080A1 VOLUME 633500.036 3563440.108 0
SO SRCPARAM 40080A1 .3527944 10 30 9.3
** NMED source ID=40080EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=22-JUL-21
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40080E1 POINT 633507.572 3563447.129 0
SO SRCPARAM 40080E1 .0125998 4.57 728.71 111.86 .2
** NMED source ID=40080EQPT4 Facility's ID=GEN-1
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40080E4 POINT 633500.786 3563450.681 0
SO SRCPARAM 40080E4 .0176397 4.57 1005.37 178 .1
** NMED source ID=40080EQPT5 Facility's ID=GEN-2
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** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40080E5 POINT 633493.189 3563448.589 0
SO SRCPARAM 40080E5 .0176397 4.57 1005.37 178 .1
** NMED source ID=40080EQPT6 Facility's ID=HT-1
** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40080E6 VOLUME 633488.948 3563441.689 0
SO SRCPARAM 40080E6 .0037799 4.57 .47 .93
** NMED source ID=40080EQPT7 Facility's ID=HT-2
** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40080E7 VOLUME 633490.6 3563433.535 0
SO SRCPARAM 40080E7 .0037799 4.57 .47 .93
**********END OF 40080: Tap Rock - Apollo A CTB
INFO************************************
************************************************************
** 5.89km away. Facility ID=38110 Name=Area 4 Central Tank Battery
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.244282, -103.572043, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.8tons/year
*****************Facility sources: ******************************
** NMED source ID=38110RPNT2 Facility's ID=ROAD
** Description=Haul Road Fugitives Construction date=31-JUL-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38110R2 VOLUME 634525.388 3568407.605 0
SO SRCPARAM 38110R2 .0503992 1 .47 .93
**********END OF 38110: Area 4 Central Tank Battery
INFO************************************
************************************************************
** 5.98km away. Facility ID=38785 Name=Flowmaster Fee 24-34-15 2H-14H-15H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.211906, -103.460372, NAD83
** Total Particulate Matter (10 microns or less) emissions=.25tons/year
*****************Facility sources: ******************************
** NMED source ID=38785EQPT2 Facility's ID=HTR-1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
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SO LOCATION 38785E2 VOLUME 645098.231 3564963.683 0
SO SRCPARAM 38785E2 .00126 6.1 .47 .93
** NMED source ID=38785EQPT3 Facility's ID=ENG-01
** Description=Gas Lift Compressor Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7815hr/yr, 24hr/day
SO LOCATION 38785E3 POINT 645105.767 3564970.704 0
SO SRCPARAM 38785E3 .0037799 3.84 744.26 74.62 .09
** NMED source ID=38785EQPT7 Facility's ID=ENG-02
** Description=VRU Engine Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7030hr/yr, 24hr/day
SO LOCATION 38785E7 POINT 645098.981 3564974.256 0
SO SRCPARAM 38785E7 .00126 3.84 846.48 145.91 .09
** NMED source ID=38785RPNT2 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38785R2 VOLUME 645091.384 3564972.164 0
SO SRCPARAM 38785R2 .0017262 1 .47 .93
**********END OF 38785: Flowmaster Fee 24-34-15 2H-14H-15H
INFO**********************************
**************************************************************
** 5.98km away. Facility ID=38330 Name=Flowmaster 24-34-15 4H-8H-5H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223861, -103.462389, NAD83
** Total Particulate Matter (10 microns or less) emissions=.25tons/year
*****************Facility sources: ****************************
** NMED source ID=38330EQPT2 Facility's ID=HTR-1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38330E2 VOLUME 644889.157 3566286.336 0
SO SRCPARAM 38330E2 .00126 4.6 .47 .93
** NMED source ID=38330EQPT3 Facility's ID=ENG-01
** Description=Gas Lift Compressor Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4003hr/yr, 24hr/day
SO LOCATION 38330E3 POINT 644896.693 3566293.357 0
SO SRCPARAM 38330E3 .0037799 4.51 1000.37 72.33 .13
** NMED source ID=38330EQPT8 Facility's ID=HTR-2
** Description=Heater Treater 2 Construction date=28-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38330E8 VOLUME 644889.907 3566296.909 0
SO SRCPARAM 38330E8 .00126 4.57 .47 .93
** NMED source ID=38330RPNT2 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38330R2 VOLUME 644882.31 3566294.817 0
SO SRCPARAM 38330R2 .00126 1 .47 .93
**********END OF 38330: Flowmaster 24-34-15 4H-8H-5H
INFO**********************************
************************************************************
** 6.05km away. Facility ID=38093 Name=EOG - Hearns 34 State Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.169092, -103.565428, WGS84
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=38093EQPT8 Facility's ID=HTR-2
** Description=1.5 MMBtu/hr, separator heater Construction date=02-NOV-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8768hr/yr, 24hr/day
SO LOCATION 38093E8 POINT 635259.892 3560080.26 0
SO SRCPARAM 38093E8 .00126 6.1 588.71 .19 1.83
** NMED source ID=38093EQPT12 Facility's ID=HTR-1
** Description=0.75 MMBtu/hr, separator heater Construction date=07-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38093E12 POINT 635267.428 3560087.281 0
SO SRCPARAM 38093E12 .00126 4.88 588.71 .21 1.22
**********END OF 38093: EOG - Hearns 34 State Com CTB
INFO**********************************
************************************************************
** 6.12km away. Facility ID=40883 Name=Shiprock 5 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.163111, -103.491115, WGS84
** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=40883EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=10-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40883E2 VOLUME 642276.548 3559513.047 0
SO SRCPARAM 40883E2 .00126 6.1 .47 .93
**********END OF 40883: Shiprock 5 Fed Com CTB
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INFO**********************************
************************************************************
** 6.18km away. Facility ID=36132 Name=EOG - Aladdin Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.155492, -103.532005, NAD83
** Total Particulate Matter (10 microns or less) emissions=6.93tons/year
*****************Facility sources: ****************************
** NMED source ID=36132EQPT1 Facility's ID=ENG-1
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8779hr/yr, 24hr/day
SO LOCATION 36132E1 POINT 638432.075 3558615.059 0
SO SRCPARAM 36132E1 .0214197 8.84 718.15 26 .61
** NMED source ID=36132EQPT7 Facility's ID=Heater-1
** Description=0.75 MMBtu/hr Heater Treater Construction date=01-DEC-15
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E7 VOLUME 638439.611 3558622.08 0
SO SRCPARAM 36132E7 .0002898 3.96 .47 .93
** NMED source ID=36132EQPT8 Facility's ID=ENG-2
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E8 POINT 638432.825 3558625.632 0
SO SRCPARAM 36132E8 .0214197 8.84 718.15 26 .61
** NMED source ID=36132EQPT9 Facility's ID=ENG-3
** Description=25000-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8744hr/yr, 24hr/day
SO LOCATION 36132E9 POINT 638425.228 3558623.54 0
SO SRCPARAM 36132E9 .0214197 8.84 718.15 26 .61
** NMED source ID=36132EQPT10 Facility's ID=ENG-4
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E10 POINT 638420.987 3558616.64 0
SO SRCPARAM 36132E10 .0214197 8.84 718.15 26 .61
** NMED source ID=36132EQPT11 Facility's ID=ENG-5
** Description=25000-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
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** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8090hr/yr, 22hr/day
SO LOCATION 36132E11 POINT 638422.639 3558608.486 0
SO SRCPARAM 36132E11 .0214197 8.84 718.15 26 .61
** NMED source ID=36132EQPT12 Facility's ID=ENG-6
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E12 POINT 638429.588 3558603.524 0
SO SRCPARAM 36132E12 .0214197 8.84 718.15 26 .61
** NMED source ID=36132EQPT13 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler Construction date=01-DEC-15
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 36132E13 POINT 638438.271 3558604.666 0
SO SRCPARAM 36132E13 .00252 3.96 588.71 4.15 .3
** NMED source ID=36132EQPT31 Facility's ID=ENG-7
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=02-MAY-19
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E31 POINT 638443.981 3558611.594 0
SO SRCPARAM 36132E31 .0214197 8.84 718.15 26 .61
** NMED source ID=36132EQPT32 Facility's ID=ENG-8
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=02-MAY-19
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8711hr/yr, 24hr/day
SO LOCATION 36132E32 POINT 638443.416 3558620.775 0
SO SRCPARAM 36132E32 .0214197 8.84 718.15 26 .61
** NMED source ID=36132EQPT34 Facility's ID=ENG-9
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=02-JAN-20
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1512hr/yr, 24hr/day
SO LOCATION 36132E34 POINT 638436.581 3558627.253 0
SO SRCPARAM 36132E34 .0214197 8.84 718.15 26 .61
**********END OF 36132: EOG - Aladdin Compressor Station
INFO**********************************
************************************************************
** 6.21km away. Facility ID=39148 Name=Milky Way Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
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** lat,long,datum=32.217797, -103.589281, WGS84
** Total Particulate Matter (10 microns or less) emissions=6.83tons/year
*****************Facility sources: ****************************
** NMED source ID=39148EQPT1 Facility's ID=ENG-1
** Description=2500 HP CAT G3608A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7608hr/yr, 24hr/day
SO LOCATION 39148E1 POINT 632939.847 3565449.979 0
SO SRCPARAM 39148E1 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT2 Facility's ID=ENG-2
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6984hr/yr, 24hr/day
SO LOCATION 39148E2 POINT 632947.383 3565457 0
SO SRCPARAM 39148E2 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT3 Facility's ID=ENG-3
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6984hr/yr, 24hr/day
SO LOCATION 39148E3 POINT 632940.597 3565460.552 0
SO SRCPARAM 39148E3 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT4 Facility's ID=ENG-4
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6984hr/yr, 24hr/day
SO LOCATION 39148E4 POINT 632933 3565458.46 0
SO SRCPARAM 39148E4 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT5 Facility's ID=ENG-5
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6480hr/yr, 24hr/day
SO LOCATION 39148E5 POINT 632928.759 3565451.56 0
SO SRCPARAM 39148E5 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT6 Facility's ID=ENG-6
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6480hr/yr, 24hr/day
SO LOCATION 39148E6 POINT 632930.411 3565443.406 0
SO SRCPARAM 39148E6 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT7 Facility's ID=ENG-7
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6480hr/yr, 24hr/day
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SO LOCATION 39148E7 POINT 632937.36 3565438.444 0
SO SRCPARAM 39148E7 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT8 Facility's ID=ENG-8
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7608hr/yr, 24hr/day
SO LOCATION 39148E8 POINT 632946.043 3565439.586 0
SO SRCPARAM 39148E8 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT13 Facility's ID=Reboiler-1
** Description=2 MMbtu/hr Dehydrator Reboiler Construction date=26-SEP-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39148E13 POINT 632951.753 3565446.514 0
SO SRCPARAM 39148E13 .00252 3.96 588.71 5.3 .3
** NMED source ID=39148EQPT14 Facility's ID=Heater-1
** Description=0.35 MMbtu/hr Separator Heater Construction date=26-SEP-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7944hr/yr, 24hr/day
SO LOCATION 39148E14 POINT 632951.188 3565455.695 0
SO SRCPARAM 39148E14 .0002898 3.96 588.71 .94 .3
** NMED source ID=39148EQPT16 Facility's ID=ENG-9
** Description=2500 HP CAT G3608A4 Engine Construction date=21-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39148E16 POINT 632944.353 3565462.173 0
SO SRCPARAM 39148E16 .0214197 6.1 712.04 46.33 .46
**********END OF 39148: Milky Way Compressor Station
INFO**********************************
************************************************************
** 6.21km away. Facility ID=36279 Name=Thistle Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.252, -103.5681, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.16tons/year
****************Facility sources: ****************************
** NMED source ID=36279EQPT1 Facility's ID=E-1
** Description=Waukesha L-7042GSI with NSCR and AFR Construction date=07-JAN-16
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36279E1 POINT 634885.473 3569268.184 0
SO SRCPARAM 36279E1 .0299119 4.57 880.37 35.97 .38
** NMED source ID=36279EQPT2 Facility's ID=E-2
** Description=Waukesha L-7042GSI with NSCR and AFR Construction date=07-JAN-16
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=55hr/yr, 24hr/day
SO LOCATION 36279E2 POINT 634893.009 3569275.205 0
SO SRCPARAM 36279E2 .0299119 4.57 880.37 35.97 .38
** NMED source ID=36279EQPT3 Facility's ID=E-3
** Description=Waukesha L-7042GSI with NSCR and AFR Construction date=07-JAN-16
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7519hr/yr, 24hr/day
SO LOCATION 36279E3 POINT 634886.223 3569278.757 0
SO SRCPARAM 36279E3 .0299119 4.57 880.37 35.97 .38
** NMED source ID=36279EQPT9 Facility's ID=E-4
** Description=Waukesha L-7042GSI with NSCR and AFR Construction date=02-AUG-16
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3712hr/yr, 24hr/day
SO LOCATION 36279E9 POINT 634878.626 3569276.665 0
SO SRCPARAM 36279E9 .0299119 4.57 880.37 35.97 .38
**********END OF 36279: Thistle Booster Station
INFO************************************
************************************************************
** 6.34km away. Facility ID=40158 Name=MarkWest - Mid Bell Lake Compressor Station
** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.2671, -103.5157, WGS84
** Total Particulate Matter (10 microns or less) emissions=6.29tons/year
*****************Facility sources: ******************************
** NMED source ID=40158EQPT1 Facility's ID=ENG-1
** Description=Caterpillar 3608A  2500 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5776hr/yr, 24hr/day
SO LOCATION 40158E1 POINT 639798.889 3571009.273 0
SO SRCPARAM 40158E1 .0277196 7.01 695.37 59.19 .41
** NMED source ID=40158EQPT2 Facility's ID=ENG-3
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5393hr/yr, 24hr/day
SO LOCATION 40158E2 POINT 639806.425 3571016.294 0
SO SRCPARAM 40158E2 .0188997 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT4 Facility's ID=ENG-2
** Description=Caterpillar 3608A  2500 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5337hr/yr, 24hr/day
SO LOCATION 40158E4 POINT 639799.639 3571019.846 0
SO SRCPARAM 40158E4 .0277196 7.01 695.37 59.19 .41
** NMED source ID=40158EQPT5 Facility's ID=ENG-4
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5230hr/yr, 24hr/day
SO LOCATION 40158E5 POINT 639792.042 3571017.754 0
SO SRCPARAM 40158E5 .0188997 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT6 Facility's ID=ENG-5
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5651hr/yr, 24hr/day
SO LOCATION 40158E6 POINT 639787.801 3571010.854 0
SO SRCPARAM 40158E6 .0188997 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT7 Facility's ID=ENG-6
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4575hr/yr, 24hr/day
SO LOCATION 40158E7 POINT 639789.453 3571002.7 0
SO SRCPARAM 40158E7 .0188997 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT8 Facility's ID=ENG-7
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4438hr/yr, 24hr/day
SO LOCATION 40158E8 POINT 639796.402 3570997.738 0
SO SRCPARAM 40158E8 .0188997 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT9 Facility's ID=ENG-8
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4569hr/yr, 24hr/day
SO LOCATION 40158E9 POINT 639805.085 3570998.88 0
SO SRCPARAM 40158E9 .0188997 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT10 Facility's ID=GEN-1
** Description=Generator engine, 350 kW Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6768hr/yr, 24hr/day
SO LOCATION 40158E10 POINT 639810.795 3571005.808 0
SO SRCPARAM 40158E10 .0062999 4.51 1005.37 83.21 .3
** NMED source ID=40158EQPT11 Facility's ID=GEN-2
** Description=Generator engine, 350 kW Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6768hr/yr, 24hr/day
SO LOCATION 40158E11 POINT 639810.23 3571014.989 0
SO SRCPARAM 40158E11 .0062999 4.51 1005.37 83.21 .3
** NMED source ID=40158EQPT13 Facility's ID=Reboil-1
** Description=TEG Reboiler 1.5 MMBtu/h Construction date=03-SEP-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=6744hr/yr, 24hr/day
SO LOCATION 40158E13 POINT 639803.395 3571021.467 0
SO SRCPARAM 40158E13 .00126 4.88 588.71 2.35 .4
** NMED source ID=40158EQPT18 Facility's ID=ECD-1
** Description=500 Mscf/d Combustor (Process) Construction date=03-SEP-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=385hr/yr, 24hr/day
SO LOCATION 40158E18 POINT 639793.759 3571021.544 0
SO SRCPARAM 40158E18 .0453593 9.75 1273 20 2.13
** NMED source ID=40158EQPT19 Facility's ID=ECD-2
** Description=30 Mscf/d Combustor (Process) Construction date=03-SEP-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6744hr/yr, 24hr/day
SO LOCATION 40158E19 POINT 639786.498 3571014.878 0
SO SRCPARAM 40158E19 .00252 3.66 1273 20 1.22
**********END OF 40158: MarkWest - Mid Bell Lake Compressor Station
INFO**********************************
************************************************************
** 6.37km away. Facility ID=39944 Name=Hyperion B CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.208622, -103.591511, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.09tons/year
*****************Facility sources: ******************************
** NMED source ID=39944EQPT1 Facility's ID=HT-1
** Description=heater treater 1: 3 MMBtu/h Construction date=31-MAR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39944E1 VOLUME 632743.015 3564430.074 0
SO SRCPARAM 39944E1 .00252 4.57 .47 .93
** NMED source ID=39944EQPT2 Facility's ID=ENG-1
** Description=CAT G3516J: 4SLB, 1380hp w/ oxidation catalyst Construction
date=31-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39944E2 POINT 632750.551 3564437.095 0
SO SRCPARAM 39944E2 .0125998 4.57 716.48 33.95 .38
** NMED source ID=39944EQPT3 Facility's ID=ENG-2
** Description=CAT G3516J: 4SLB, 1380hp w/ oxidation catalyst Construction
date=31-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39944E3 POINT 632743.765 3564440.647 0
SO SRCPARAM 39944E3 .0125998 4.57 716.48 33.95 .38
** NMED source ID=39944EQPT19 Facility's ID=HT-1
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** Description=3.0 MMBtu/hr heater treater Construction date=31-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39944E19 VOLUME 632736.168 3564438.555 0
SO SRCPARAM 39944E19 .0037799 4.57 .47 .93
**********END OF 39944: Hyperion B CTB INFO**********************************
************************************************************
** 6.41km away. Facility ID=37222 Name=Tap Rock - Brininstool 4 State No. 4H
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=6977 NOI
** lat,long,datum=32.239931, -103.5824, WGS84
** Total Particulate Matter (10 microns or less) emissions=.6tons/year
*****************Facility sources: ****************************
** NMED source ID=37222AREA1 Facility's ID=Haul Roads
** Description=Haul Road Fugitives Construction date=28-JUL-16
** SCC=31000102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=52hr/yr, 1hr/day
SO LOCATION 37222A1 VOLUME 633555.955 3567912.316 0
SO SRCPARAM 37222A1 .0172617 1 .47 .93
**********END OF 37222: Tap Rock - Brininstool 4 State No. 4H
INFO**********************************
************************************************************
** 6.48km away. Facility ID=39977 Name=EOG - Thrasher 33 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1701, -103.4744, WGS84
** Total Particulate Matter (10 microns or less) emissions=.1tons/year
*****************Facility sources: ****************************
** NMED source ID=39977EQPT1 Facility's ID=HTR-1E
** Description=Heater Treater, 1.5 MMBtu/hr Construction date=16-JUL-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39977E1 VOLUME 643841.822 3560310.09 0
SO SRCPARAM 39977E1 .00126 4.88 .47 .93
** NMED source ID=39977EQPT3 Facility's ID=HTR-1W
** Description=1.5 MMBtu/hr Heater Treater Construction date=16-JUL-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39977E3 VOLUME 643849.358 3560317.111 0
SO SRCPARAM 39977E3 .00126 4.88 .47 .93
**********END OF 39977: EOG - Thrasher 33 Fed Com CTB
INFO**********************************
************************************************************
** 6.48km away. Facility ID=40159 Name=Juliet Fed Com 27 CTB Facility
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
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** lat,long,datum=32.189988, -103.459545, WGS84
** Total Particulate Matter (10 microns or less) emissions=.61tons/year
*****************Facility sources: ****************************
** NMED source ID=40159EQPT4 Facility's ID=HT-3
** Description=Heater Treater Burner Construction date=01-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40159E4 VOLUME 645211 3562534.895 0
SO SRCPARAM 40159E4 .00126 6.1 .47 .93
** NMED source ID=40159EQPT14 Facility's ID=ENG-2
** Description=203 HP Engine Construction date=20-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40159E14 POINT 645218.536 3562541.916 0
SO SRCPARAM 40159E14 .0075599 2.44 863.15 25.58 .15
** NMED source ID=40159EQPT15 Facility's ID=ENG-3
** Description=203 HP Engine Construction date=20-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40159E15 POINT 645211.75 3562545.468 0
SO SRCPARAM 40159E15 .0075599 2.44 863.15 25.58 .15
**********END OF 40159: Juliet Fed Com 27 CTB Facility
INFO*************************************
************************************************************
** 6.5km away. Facility ID=39179 Name=Proclamation Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.16309, -103.56401, WGS84
** Total Particulate Matter (10 microns or less) emissions=5.04tons/year
*****************Facility sources: ****************************
** NMED source ID=39179EQPT1 Facility's ID=Dehydrator Reboiler
** Description=dehydrator reboiler Construction date=15-OCT-19
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E1 POINT 635402.482 3559416.658 0
SO SRCPARAM 39179E1 .00126 3.96 588.71 2.62 .3
** NMED source ID=39179EQPT2 Facility's ID=Heater-1
** Description=Separator heater Construction date=15-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E2 POINT 635410.018 3559423.679 0
SO SRCPARAM 39179E2 .00126 3.96 588.71 1.31 .3
** NMED source ID=39179EQPT15 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E15 POINT 635403.232 3559427.231 0
SO SRCPARAM 39179E15 .0239396 7.62 718.15 37.28 .51
** NMED source ID=39179EQPT16 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E16 POINT 635395.635 3559425.139 0
SO SRCPARAM 39179E16 .0239396 7.62 718.15 37.28 .51
** NMED source ID=39179EQPT17 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E17 POINT 635391.394 3559418.239 0
SO SRCPARAM 39179E17 .0239396 7.62 718.15 37.28 .51
** NMED source ID=39179EQPT18 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E18 POINT 635393.046 3559410.085 0
SO SRCPARAM 39179E18 .0239396 7.62 718.15 37.28 .51
** NMED source ID=39179EQPT19 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E19 POINT 635399.995 3559405.123 0
SO SRCPARAM 39179E19 .0239396 7.62 718.15 37.28 .51
** NMED source ID=39179EQPT20 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E20 POINT 635408.678 3559406.265 0
SO SRCPARAM 39179E20 .0239396 7.62 718.15 37.28 .51
**********END OF 39179: Proclamation Localized Gas Lift Station
INFO**********************************
************************************************************
** 6.59km away. Facility ID=34027 Name=Thistle Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.211978, -103.593828, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.85tons/year
****************Facility sources: ****************************
** NMED source ID=34027EQPT4 Facility's ID=0316
** Description=Compressor Engine CAT G3606 1775-hp Construction date=02-AUG-18
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8256hr/yr, 23hr/day
SO LOCATION 34027E4 POINT 632519.762 3564799.263 0
SO SRCPARAM 34027E4 .0151198 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT5 Facility's ID=0317
** Description=Compressor Engine CAT G3606 1775-hp Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8414hr/yr, 23hr/day
SO LOCATION 34027E5 POINT 632527.298 3564806.284 0
SO SRCPARAM 34027E5 .0151198 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT6 Facility's ID=Rbl-1
** Description=Dehydrator Reboiler 1 0.75 MMBtu/hr Construction date=02-AUG-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8550hr/yr, 23hr/day
SO LOCATION 34027E6 POINT 632520.512 3564809.836 0
SO SRCPARAM 34027E6 .00126 3.05 588.71 1.98 .3
** NMED source ID=34027EQPT7 Facility's ID=0489
** Description=Compressor Engine CAT G3606 1775-hp Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8187hr/yr, 22hr/day
SO LOCATION 34027E7 POINT 632512.915 3564807.744 0
SO SRCPARAM 34027E7 .0151198 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT8 Facility's ID=0490
** Description=Compressor Engine CAT G3606 1775-hp Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8358hr/yr, 23hr/day
SO LOCATION 34027E8 POINT 632508.674 3564800.844 0
SO SRCPARAM 34027E8 .0151198 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT9 Facility's ID=Rbl-2
** Description=Dehydrator Reboiler 2 0.75 MMBtu/hr Construction date=02-AUG-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8550hr/yr, 23hr/day
SO LOCATION 34027E9 POINT 632510.326 3564792.69 0
SO SRCPARAM 34027E9 .00126 3.05 588.71 1.98 .3
** NMED source ID=34027EQPT10 Facility's ID=3336
** Description=Compressor Engine CAT G3606 1875-hp Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8226hr/yr, 23hr/day
SO LOCATION 34027E10 POINT 632517.275 3564787.728 0
SO SRCPARAM 34027E10 .0151198 7.01 718.71 33.95 .46
** NMED source ID=34027EQPT16 Facility's ID=AU-RB
** Description=Amine Reboiler, Southtex, RW-2100, 20-MMBtu/hr Construction
date=04-JUL-19
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34027E16 POINT 632525.958 3564788.87 0
SO SRCPARAM 34027E16 .0188997 6.1 588.71 17.37 .53
** NMED source ID=34027EQPT23 Facility's ID=0584
** Description=Compressor Engine CAT G3606 1775-hp Construction date=15-NOV-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7392hr/yr, 20hr/day
SO LOCATION 34027E23 POINT 632531.668 3564795.798 0
SO SRCPARAM 34027E23 .0151198 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT24 Facility's ID=ENG-6
** Description=Compressor Engine CAT G3606 1775-hp Construction date=01-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7925hr/yr, 22hr/day
SO LOCATION 34027E24 POINT 632531.103 3564804.979 0
SO SRCPARAM 34027E24 .0151198 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT25 Facility's ID=1201
** Description=Compressor Engine CAT G3606 1875-hp Construction date=05-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7925hr/yr, 22hr/day
SO LOCATION 34027E25 POINT 632524.268 3564811.457 0
SO SRCPARAM 34027E25 .0151198 7.01 718.71 33.95 .46
**********END OF 34027: Thistle Compressor Station
INFO**********************************
************************************************************
** 6.62km away. Facility ID=38963 Name=Will Kane 15 Fee 3H 6H 7H 10H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.21245, -103.453622, NAD83
** Total Particulate Matter (10 microns or less) emissions=.12tons/year
*****************Facility sources: ****************************
** NMED source ID=38963AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=02-DEC-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38963A1 VOLUME 645733.566 3565033.128 0
SO SRCPARAM 38963A1 .00126 1 .47 .93
** NMED source ID=38963EQPT5 Facility's ID=HTR-01
** Description=Heater Treater Burner 1 Construction date=02-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7916hr/yr, 24hr/day
SO LOCATION 38963E5 VOLUME 645741.102 3565040.149 0
SO SRCPARAM 38963E5 .00126 4.6 .47 .93
** NMED source ID=38963EQPT9 Facility's ID=ENG-01C
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** Description=VRU Engine Construction date=10-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8605hr/yr, 24hr/day
SO LOCATION 38963E9 POINT 645734.316 3565043.701 0
SO SRCPARAM 38963E9 .00126 2.99 878.15 42.52 .08
**********END OF 38963: Will Kane 15 Fee 3H 6H 7H 10H
INFO**********************************
************************************************************
** 6.68km away. Facility ID=36420 Name=Eata Fajita A B C CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6669 NOI
** lat,long,datum=32.226259, -103.592399, WGS84
** Total Particulate Matter (10 microns or less) emissions=.32tons/year
*****************Facility sources: ****************************
** NMED source ID=36420AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=10-MAY-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36420A1 VOLUME 632633.704 3566384.23 0
SO SRCPARAM 36420A1 .0011466 1 .47 .93
** NMED source ID=36420EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 36420E4 VOLUME 632641.24 3566391.251 0
SO SRCPARAM 36420E4 .0005796 6.71 .47 .93
** NMED source ID=36420EQPT6 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=01-FEB-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36420E6 POINT 632634.454 3566394.803 0
SO SRCPARAM 36420E6 .0037799 4.57 867.59 16.4 .15
** NMED source ID=36420EQPT7 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=01-FEB-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36420E7 POINT 632626.857 3566392.711 0
SO SRCPARAM 36420E7 .0037799 4.57 867.59 16.4 .15
** NMED source ID=36420EQPT8 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=29-OCT-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36420E8 VOLUME 632622.616 3566385.811 0
SO SRCPARAM 36420E8 .0005796 6.71 .47 .93
```

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** NMED source ID=36420EQPT9 Facility's ID=HT-03
** Description=Heater Treater Burners Construction date=29-OCT-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36420E9 VOLUME 632624.268 3566377.657 0
SO SRCPARAM 36420E9 .0005796 6.71 .47 .93
**********END OF 36420: Eata Fajita A B C CTB
INFO**********************************
************************************************************
** 6.82km away. Facility ID=34675 Name=Atoka Bank & Heartthrob Battery
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=5990 NOI
** lat,long,datum=32.224167, -103.594444, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.9tons/year
*****************Facility sources: ******************************
** NMED source ID=34675AREA1 Facility's ID=HAUL
** Description=Haul road emissions Construction date=04-SEP-14
** SCC=unknown
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8568hr/yr, 24hr/day
SO LOCATION 34675A1 VOLUME 632444.028 3566149.786 0
SO SRCPARAM 34675A1 .1637974 10 10 9.3
**********END OF 34675: Atoka Bank & Heartthrob Battery
INFO**********************************
************************************************************
** 6.87km away. Facility ID=38810 Name=Sheba and Solomon CTBs
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19659, -103.452791, WGS84
** Total Particulate Matter (10 microns or less) emissions=8.43tons/year
*****************Facility sources: ******************************
** NMED source ID=38810AREA1 Facility's ID=HAUL-2-1
** Description=Unpaved Haul Roads Construction date=28-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38810A1 VOLUME 645837.2 3563275.958 0
SO SRCPARAM 38810A1 .0743388 10 10 9.3
** NMED source ID=38810AREA2 Facility's ID=HAUL-1-1
** Description=Unpaved Haul Roads Construction date=28-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38810A2 VOLUME 645844.736 3563282.979 0
SO SRCPARAM 38810A2 .0743388 10 10 9.3
** NMED source ID=38810EQPT32 Facility's ID=ENG
** Description=600 hp CAT CG137-12 compressor engine Construction date=12-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=720hr/yr, 24hr/day
SO LOCATION 38810E32 POINT 645837.95 3563286.531 0
SO SRCPARAM 38810E32 .0113398 5.94 816.48 35.84 .2
**********END OF 38810: Sheba and Solomon CTBs
INFO**********************************
************************************************************
** 6.91km away. Facility ID=38958 Name=Devon - Thistle Unit 33 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257397, -103.571961, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.8tons/year
*****************Facility sources: ****************************
** NMED source ID=38958AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=15-MAY-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38958A1 VOLUME 634513.772 3569861.66 0
SO SRCPARAM 38958A1 .2771956 10 20 9.3
**********END OF 38958: Devon - Thistle Unit 33 CTB 1
INFO**********************************
************************************************************
** 6.92km away. Facility ID=33454 Name=Sea Snake 35 State 1H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5543 NOI
** lat,long,datum=32.269397, -103.547539, NAD83
** Total Particulate Matter (10 microns or less) emissions=.34tons/year
*****************Facility sources: ****************************
** NMED source ID=33454AREA1 Facility's ID=20
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33454A1 VOLUME 636796.402 3571222.883 0
SO SRCPARAM 33454A1 .2784556 10 20 9.3
** NMED source ID=33454EQPT5 Facility's ID=7
** Description=Heater_EQ000146813 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33454E5 VOLUME 636803.938 3571229.904 0
SO SRCPARAM 33454E5 .0005796 9.14 .47 .93
** NMED source ID=33454EQPT9 Facility's ID=8
** Description=Heater_EQ000146828 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33454E9 VOLUME 636797.152 3571233.456 0
SO SRCPARAM 33454E9 .0005796 9.14 .47 .93
**********END OF 33454: Sea Snake 35 State 1H
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INFO**********************************
************************************************************
** 6.98km away. Facility ID=32175 Name=Diamond 8 Fed Com No 4H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=211111   Permit=unknown
** lat,long,datum=32.1514, -103.4992, WGS84
** Total Particulate Matter (10 microns or less) emissions=.21tons/year
*****************Facility sources: ******************************
** NMED source ID=32175AREA1 Facility's ID=Haul
** Description=Haul Road Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32175A1 VOLUME 641532.221 3558204.082 0
SO SRCPARAM 32175A1 .0050399 1 .47 .93
** NMED source ID=32175EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32175E2 POINT 641539.757 3558211.103 0
SO SRCPARAM 32175E2 .0005796 6.1 588.71 28 1.83
**********END OF 32175: Diamond 8 Fed Com No 4H
INFO**********************************
************************************************************
** 7.01km away. Facility ID=38366 Name=Heartthrob 17 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2182, -103.59772, WGS84
** Total Particulate Matter (10 microns or less) emissions=.09tons/year
*****************Facility sources: ******************************
** NMED source ID=38366EQPT17 Facility's ID=HT-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38366E17 VOLUME 632143.941 3565484.245 0
SO SRCPARAM 38366E17 .00126 5.18 .47 .93
** NMED source ID=38366EQPT19 Facility's ID=HT-2
** Description=Heater Treater Construction date=22-MAR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38366E19 VOLUME 632151.477 3565491.266 0
SO SRCPARAM 38366E19 .00126 5.18 .47 .93
**********END OF 38366: Heartthrob 17 State CTB
INFO**********************************
************************************************************
** 7.04km away. Facility ID=40211 Name=Sheba Fed Com 505H and Solomon Fed Com 506H
** Company ID=13537 Name=Permian Resources
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.190819, -103.452877, NAD83
** Total Particulate Matter (10 microns or less) emissions=.52tons/year
*****************Facility sources: ****************************
** NMED source ID=40211EQPT3 Facility's ID=H-1
** Description=1.0 MMBtu/hr Heater Treater Construction date=14-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40211E3 VOLUME 645838.3 3562636.048 0
SO SRCPARAM 40211E3 .00126 4.88 .47 .93
** NMED source ID=40211EQPT6 Facility's ID=H-2
** Description=1.0 MMBtu/hr Heater Treater Construction date=14-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40211E6 VOLUME 645845.836 3562643.069 0
SO SRCPARAM 40211E6 .00126 4.88 .47 .93
** NMED source ID=40211EQPT7 Facility's ID=H-3
** Description=0.75 MMBtu/hr Heater Treater Construction date=14-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40211E7 VOLUME 645839.05 3562646.621 0
SO SRCPARAM 40211E7 .00126 4.88 .47 .93
** NMED source ID=40211EQPT8 Facility's ID=H-4
** Description=0.75 MMBtu/hr Heater Treater Construction date=14-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40211E8 VOLUME 645831.453 3562644.529 0
SO SRCPARAM 40211E8 .00126 4.88 .47 .93
** NMED source ID=40211EQPT23 Facility's ID=ENG-2
** Description=Gas Lift Engine Construction date=02-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40211E23 POINT 645827.212 3562637.629 0
SO SRCPARAM 40211E23 .0037799 3.05 858.15 25.69 .15
** NMED source ID=40211EQPT28 Facility's ID=ENG-1
** Description=Gas Lift Engine Construction date=05-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40211E28 POINT 645828.864 3562629.475 0
SO SRCPARAM 40211E28 .0075599 3.66 778.71 14.62 .25
**********END OF 40211: Sheba Fed Com 505H and Solomon Fed Com 506H
INFO**********************************
************************************************************
** 7.13km away. Facility ID=31804 Name=Diamond 8 Fed Com No3H
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** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1514, -103.4949, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.65tons/year
*****************Facility sources: ****************************
** NMED source ID=31804AREA1 Facility's ID=Haul
** Description=Haul Road Emissions Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8682hr/yr, 24hr/day
SO LOCATION 31804A1 VOLUME 641937.771 3558209.744 0
SO SRCPARAM 31804A1 .0579591 1 .47 .93
** NMED source ID=31804EQPT2 Facility's ID=HT-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8682hr/yr, 24hr/day
SO LOCATION 31804E2 VOLUME 641945.307 3558216.765 0
SO SRCPARAM 31804E2 .0005796 6.1 .47 .93
**********END OF 31804: Diamond 8 Fed Com No3H
INFO*************************************
************************************************************
** 7.2km away. Facility ID=32642 Name=Thistle Unit 44 H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5157 NOI
** lat,long,datum=32.255, -103.579472, NAD83
** Total Particulate Matter (10 microns or less) emissions=.49tons/year
*****************Facility sources: ****************************
** NMED source ID=32642AREA1 Facility's ID=HR-01
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32642A1 VOLUME 633809.73 3569586.535 0
SO SRCPARAM 32642A1 .2784556 10 20 9.3
** NMED source ID=32642EQPT11 Facility's ID=HT-01
** Description=Heater_EQ000170672 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32642E11 VOLUME 633817.266 3569593.556 0
SO SRCPARAM 32642E11 .0005796 9.14 .47 .93
** NMED source ID=32642EQPT12 Facility's ID=HT-02
** Description=Heater_EQ000170887 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32642E12 VOLUME 633810.48 3569597.108 0
SO SRCPARAM 32642E12 .0005796 9.14 .47 .93
**********END OF 32642: Thistle Unit 44 H INFO*************************************
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**************************************************************
** 7.25km away. Facility ID=33674 Name=Gramma Ridge Battery
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=5601 NOI
** lat,long,datum=32.223663, -103.448462, NAD83
** Total Particulate Matter (10 microns or less) emissions=.35tons/year
*****************Facility sources: ******************************
** NMED source ID=33674AREA1 Facility's ID=ROAD
** Description=Road Emissions Construction date=25-OCT-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33674A1 VOLUME 646201.954 3566283.256 0
SO SRCPARAM 33674A1 .0100798 1 .47 .93
** NMED source ID=33674EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33674E6 VOLUME 646209.49 3566290.277 0
SO SRCPARAM 33674E6 .0005796 6.1 .47 .93
**********END OF 33674: Gramma Ridge Battery
INFO**********************************
**************************************************************
** 7.29km away. Facility ID=40800 Name=Monet Gas Lift Station
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9786 NOI
** lat,long,datum=32.166, -103.5806, WGS84
** Total Particulate Matter (10 microns or less) emissions=.78tons/year
*****************Facility sources: ******************************
** NMED source ID=40800AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=23-NOV-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40800A1 VOLUME 633833.78 3559718.505 0
SO SRCPARAM 40800A1 .0125998 1 .47 .93
** NMED source ID=40800EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40800E1 POINT 633841.316 3559725.526 0
SO SRCPARAM 40800E1 .0075599 3.66 1003.71 57.91 .15
** NMED source ID=40800EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40800E2 POINT 633834.53 3559729.078 0
```

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SO SRCPARAM 40800E2 .0075599 3.66 1003.71 57.91 .15
** NMED source ID=40800EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40800E3 POINT 633826.933 3559726.986 0
SO SRCPARAM 40800E3 .0075599 3.66 1003.71 57.91 .15
**********END OF 40800: Monet Gas Lift Station
INFO**********************************
************************************************************
** 7.31km away. Facility ID=39309 Name=Hyperion A CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.207381, -103.601399, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.63tons/year
*****************Facility sources: ****************************
** NMED source ID=39309EQPT13 Facility's ID=ENG-1
** Description=Caterpillar G3516J 1380 HP Construction date=31-OCT-23
** SCC=20200252
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39309E13 POINT 631812.83 3564280.326 0
SO SRCPARAM 39309E13 .0125998 4.57 716.48 33.95 .38
** NMED source ID=39309EQPT14 Facility's ID=ENG-2
** Description=Waukesha L7055GSI 1680HP Construction date=31-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39309E14 POINT 631820.366 3564287.347 0
SO SRCPARAM 39309E14 .0327595 4.57 910.37 89.61 .24
** NMED source ID=39309EQPT15 Facility's ID=HT-3
** Description=Heater Treater Construction date=31-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39309E15 VOLUME 631813.58 3564290.899 0
SO SRCPARAM 39309E15 .00126 4.57 .47 .93
**********END OF 39309: Hyperion A CTB INFO**********************************
************************************************************
** 7.39km away. Facility ID=40123 Name=Monet Federal 4 C CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9337 NOI
** lat,long,datum=32.165, -103.581, WGS84
** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=40123AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=26-MAY-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40123A1 VOLUME 633797.523 3559607.147 0
SO SRCPARAM 40123A1 .0002898 1 .47 .93
** NMED source ID=40123EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=26-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40123E3 VOLUME 633805.059 3559614.168 0
SO SRCPARAM 40123E3 .00126 6.1 .47 .93
**********END OF 40123: Monet Federal 4 C CTB
INFO**********************************
************************************************************
** 7.48km away. Facility ID=41017 Name=Firebird LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.17175, -103.45908, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.48tons/year
*****************Facility sources: ****************************
** NMED source ID=41017EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine 1, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E2 POINT 645283.806 3560513.602 0
SO SRCPARAM 41017E2 .0214197 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine 2, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E3 POINT 645291.342 3560520.623 0
SO SRCPARAM 41017E3 .0214197 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine 3, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E4 POINT 645284.556 3560524.175 0
SO SRCPARAM 41017E4 .0214197 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine 4, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E5 POINT 645276.959 3560522.083 0
SO SRCPARAM 41017E5 .0214197 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine 5, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E6 POINT 645272.718 3560515.183 0
SO SRCPARAM 41017E6 .0214197 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine 6, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E7 POINT 645274.37 3560507.029 0
SO SRCPARAM 41017E7 .0214197 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT10 Facility's ID=HTR-1
** Description=Heater Treater, 1.0 MMBtu/hr Construction date=05-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E10 VOLUME 645281.319 3560502.067 0
SO SRCPARAM 41017E10 .00126 3.05 .47 .93
** NMED source ID=41017EQPT11 Facility's ID=RBL-1
** Description=Dehy Reboiler, 1.5 MMBtu/hr Construction date=05-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E11 POINT 645290.002 3560503.209 0
SO SRCPARAM 41017E11 .00126 4.57 588.71 3.96 .3
**********END OF 41017: Firebird LGL Station
INFO**********************************
************************************************************
** 7.49km away. Facility ID=37223 Name=Tap Rock - Bettis 20 State Com No. 5H
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=6976 NOI
** lat,long,datum=32.196481, -103.601631, WGS84
** Total Particulate Matter (10 microns or less) emissions=.6tons/year
*****************Facility sources: ****************************
** NMED source ID=37223AREA1 Facility's ID=Haul Roads
** Description=Haul Road Fugitives Construction date=28-JUL-16
** SCC=31000102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=52hr/yr, 1hr/day
SO LOCATION 37223A1 VOLUME 631806.683 3563071.663 0
SO SRCPARAM 37223A1 .0172617 1 .47 .93
**********END OF 37223: Tap Rock - Bettis 20 State Com No. 5H
INFO**********************************
************************************************************
** 7.51km away. Facility ID=39550 Name=Brad Lummis Fed Com Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.208748, -103.444165, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.2tons/year
*****************Facility sources: ****************************
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** NMED source ID=39550AREA1 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=26-JUN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39550A1 VOLUME 646630.849 3564635.576 0
SO SRCPARAM 39550A1 .3086951 10 20 9.3
** NMED source ID=39550EQPT1 Facility's ID=HT-1
** Description=Heater Treater Construction date=26-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39550E1 VOLUME 646638.385 3564642.597 0
SO SRCPARAM 39550E1 .0005796 6.1 .47 .93
** NMED source ID=39550EQPT2 Facility's ID=HT-2
** Description=Heater Treater Construction date=26-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39550E2 VOLUME 646631.599 3564646.149 0
SO SRCPARAM 39550E2 .0005796 6.1 .47 .93
** NMED source ID=39550EQPT3 Facility's ID=ENG-1
** Description=1380-hp Caterpillar 3516J engine Construction date=26-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 23hr/day
SO LOCATION 39550E3 POINT 646624.002 3564644.057 0
SO SRCPARAM 39550E3 .0138598 7.62 728.15 73.43 .25
** NMED source ID=39550EQPT4 Facility's ID=ENG-2
** Description=92-hp GM 5.7L engine Construction date=26-JUN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39550E4 POINT 646619.761 3564637.157 0
SO SRCPARAM 39550E4 .00252 3.05 922.04 49.99 .09
** NMED source ID=39550EQPT5 Facility's ID=GEN-1
** Description=390-hp PSI 14.6L generator Construction date=26-JUN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39550E5 POINT 646621.413 3564629.003 0
SO SRCPARAM 39550E5 .0075599 3.05 1023.15 112.56 .1
** NMED source ID=39550EQPT6 Facility's ID=GEN-2
** Description=581 hp PSI 21.9L generator Construction date=26-JUN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39550E6 POINT 646628.362 3564624.041 0
SO SRCPARAM 39550E6 .0113398 2.74 1023.15 177.88 .1
** NMED source ID=39550EQPT27 Facility's ID=HT-3
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** Description=Heater Treater Construction date=08-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39550E27 VOLUME 646637.045 3564625.183 0
SO SRCPARAM 39550E27 .0005796 6.1 .47 .93
**********END OF 39550: Brad Lummis Fed Com Facility
INFO**********************************
************************************************************
** 7.53km away. Facility ID=37570 Name=Vaca Draw 4H Battery
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=7147 NOI
** lat,long,datum=32.1518, -103.56342, WGS84
** Total Particulate Matter (10 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=37570EQPT8 Facility's ID=HT-01
** Description=Heater Treater Construction date=25-OCT-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37570E8 VOLUME 635474.826 3558165.786 0
SO SRCPARAM 37570E8 .00126 7.32 .47 .93
**********END OF 37570: Vaca Draw 4H Battery
INFO**********************************
************************************************************
** 7.58km away. Facility ID=6487 Name=Blue Quail Unload
** Company ID=13605 Name=NGL Water Solutions Permian LLC
** SIC=1311 NAIC=21112    Permit=10029 NOI
** lat,long,datum=32.209153, -103.604369, WGS84
** Total Particulate Matter (10 microns or less) emissions=.19tons/year
*****************Facility sources: ******************************
** NMED source ID=6487ACT 1 Facility's ID=Roads1
** Description=Paved Haul Road Emissions Construction date=08-AUG-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6487@1 VOLUME 631530.344 3564473.131 0
SO SRCPARAM 6487@1 .00252 1 .47 .93
** NMED source ID=6487ACT 2 Facility's ID=Road2
** Description=Paved Haul Road Emissions Construction date=08-AUG-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6487@2 VOLUME 631537.88 3564480.152 0
SO SRCPARAM 6487@2 .00126 1 .47 .93
** NMED source ID=6487EQPT1 Facility's ID=GEN1
** Description=Emergency Generator Construction date=08-AUG-23
** SCC=20200202
** Potential operating rate=500hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 6487E1 POINT 631531.094 3564483.704 0
SO SRCPARAM 6487E1 .00252 3.05 949.82 49.01 .15
SO EMISFACT 6487E1 HROFDY 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
**********END OF 6487: Blue Quail Unload INFO**************************************
**********************************************************
** 7.64km away. Facility ID=29120 Name=Thistle Unit 10 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4169 NOI
** lat,long,datum=32.270761, -103.562864, NAD83
** Total Particulate Matter (10 microns or less) emissions=.18tons/year
*****************Facility sources: ******************************
** NMED source ID=29120AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 29120A1 VOLUME 635350.898 3571354.661 0
SO SRCPARAM 29120A1 .2784556 10 20 9.3
** NMED source ID=29120EQPT8 Facility's ID=HT-1
** Description=Heater Treater 1_EQ000176118 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 29120E8 VOLUME 635358.434 3571361.682 0
SO SRCPARAM 29120E8 .0005796 9.14 .47 .93
**********END OF 29120: Thistle Unit 10 Battery
INFO**********************************
**********************************************************
** 7.69km away. Facility ID=40723 Name=Venom Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.183801, -103.599196, WGS84
** Total Particulate Matter (10 microns or less) emissions=13.62tons/year
*****************Facility sources: ******************************
** NMED source ID=40723EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E2 POINT 632054.532 3561668.943 0
SO SRCPARAM 40723E2 .0239396 6.61 704.26 46.3 .46
SO EMISFACT 40723E2 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40723EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E3 POINT 632062.068 3561675.964 0
SO SRCPARAM 40723E3 .0239396 6.61 704.26 46.3 .46
SO EMISFACT 40723E3 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
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** NMED source ID=40723EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E4 POINT 632055.282 3561679.516 0
SO SRCPARAM 40723E4 .0239396 6.61 704.26 46.3 .46
SO EMISFACT 40723E4 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40723EQPT7 Facility's ID=HT-1
** Description=Heater Construction date=08-NOV-22
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E7 POINT 632047.685 3561677.424 0
SO SRCPARAM 40723E7 .00252 3.96 588.71 9.08 .3
** NMED source ID=40723EQPT8 Facility's ID=REB-1
** Description=Glycol Dehydrator Reboiler Construction date=08-NOV-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E8 POINT 632043.444 3561670.524 0
SO SRCPARAM 40723E8 .00252 3.96 588.71 13.62 .3
** NMED source ID=40723EQPT9 Facility's ID=T-1
** Description=Turbine Construction date=08-NOV-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E9 POINT 632045.096 3561662.37 0
SO SRCPARAM 40723E9 .1574975 11.43 727.59 43.16 2.13
** NMED source ID=40723EQPT10 Facility's ID=T-2
** Description=Turbine Construction date=08-NOV-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E10 POINT 632052.045 3561657.408 0
SO SRCPARAM 40723E10 .1574975 11.43 727.59 43.16 2.13
**********END OF 40723: Venom Compressor Station
INFO************************************
************************************************************
** 7.9km away. Facility ID=39822 Name=Mandelbaum A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.227639, -103.4425, NAD83
** Total Particulate Matter (10 microns or less) emissions=.68tons/year
*****************Facility sources: ******************************
** NMED source ID=39822AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=07-JAN-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39822A1 VOLUME 646757.424 3566732.182 0
SO SRCPARAM 39822A1 .1322979 10 10 9.3
** NMED source ID=39822EQPT5 Facility's ID=HT-1
** Description=Heater Treater Construction date=07-JAN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39822E5 POINT 646764.96 3566739.203 0
SO SRCPARAM 39822E5 .0037799 3.66 510.93 .61 .3
** NMED source ID=39822EQPT6 Facility's ID=HT-2
** Description=Heater Treater Construction date=07-JAN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39822E6 POINT 646758.174 3566742.755 0
SO SRCPARAM 39822E6 .0037799 3.66 510.93 .61 .3
** NMED source ID=39822EQPT19 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=26-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39822E19 POINT 646750.577 3566740.663 0
SO SRCPARAM 39822E19 .0125998 9.14 728.71 38.25 .36
**********END OF 39822: Mandelbaum A CTB INFO**********************************
************************************************************
** 7.94km away. Facility ID=37112 Name=COG - Macho State 2H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6930 NOI
** lat,long,datum=32.234188, -103.603479, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.5tons/year
*****************Facility sources: ******************************
** NMED source ID=37112AREA1 Facility's ID=HR-1
** Description=Haul Roads 900 ft 6 trucks/d Construction date=08-JUL-16
** SCC=31000101
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37112A1 VOLUME 631578.152 3567249.618 0
SO SRCPARAM 37112A1 .0431543 1 .47 .93
**********END OF 37112: COG - Macho State 2H Battery
INFO**********************************
************************************************************
** 7.96km away. Facility ID=38009 Name=Antietam 9 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.150744, -103.570275, WGS84
** Total Particulate Matter (10 microns or less) emissions=.64tons/year
*****************Facility sources: ******************************
** NMED source ID=38009EQPT17 Facility's ID=HTR-1
** Description=Heater Construction date=21-JUN-23
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E17 POINT 634829.87 3558040.11 0
SO SRCPARAM 38009E17 .00126 4.88 588.71 .21 1.22
** NMED source ID=38009EQPT18 Facility's ID=HTR-2
** Description=Heater Construction date=21-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E18 POINT 634837.406 3558047.131 0
SO SRCPARAM 38009E18 .00126 7.32 588.71 .19 1.83
** NMED source ID=38009EQPT21 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=08-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E21 POINT 634830.62 3558050.683 0
SO SRCPARAM 38009E21 .0075599 3.96 803.71 58.52 .13
** NMED source ID=38009EQPT22 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=08-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E22 POINT 634823.023 3558048.591 0
SO SRCPARAM 38009E22 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=38009EQPT23 Facility's ID=HTR-3
** Description=Heater Construction date=08-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E23 POINT 634818.782 3558041.691 0
SO SRCPARAM 38009E23 .00126 4.88 588.71 .21 1.22
**********END OF 38009: Antietam 9 Fed Com CTB
INFO**********************************
************************************************************
** 7.96km away. Facility ID=39782 Name=EOG - Kestrel 26 Fed No 311H Facility
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.182447, -103.446153, NAD83
** Total Particulate Matter (10 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=39782EQPT4 Facility's ID=HTR-1
** Description=0.75 MMBtu/hr heater treater Construction date=22-JAN-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39782E4 VOLUME 646485.611 3561717.04 0
SO SRCPARAM 39782E4 .00126 5.18 .47 .93
**********END OF 39782: EOG - Kestrel 26 Fed No 311H Facility
INFO**********************************
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************************************************************
** 7.98km away. Facility ID=39339 Name=EOG - Red Hills North Unit TB 12
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.139, -103.5282, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.63tons/year
*****************Facility sources: ******************************
** NMED source ID=39339AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=30-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8776hr/yr, 24hr/day
SO LOCATION 39339A1 VOLUME 638815.917 3556791.64 0
SO SRCPARAM 39339A1 .0579591 1 .47 .93
**********END OF 39339: EOG - Red Hills North Unit TB 12
INFO*********************************
************************************************************
** 8km away. Facility ID=39664 Name=EOG - Boa Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1864, -103.6039, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.96tons/year
*****************Facility sources: ******************************
** NMED source ID=39664EQPT1 Facility's ID=Reboiler-1
** Description=Deydrator Reboiler Construction date=21-SEP-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1848hr/yr, 24hr/day
SO LOCATION 39664E1 POINT 631607.305 3561951.302 0
SO SRCPARAM 39664E1 .00126 3.96 588.71 2.65 .3
** NMED source ID=39664EQPT2 Facility's ID=ENG-1
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664E2 POINT 631614.841 3561958.323 0
SO SRCPARAM 39664E2 .0151198 8.53 701.48 27.86 .51
** NMED source ID=39664EQPT3 Facility's ID=ENG-2
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664E3 POINT 631608.055 3561961.875 0
SO SRCPARAM 39664E3 .0151198 8.53 701.48 27.86 .51
** NMED source ID=39664EQPT4 Facility's ID=ENG-3
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664E4 POINT 631600.458 3561959.783 0
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SO SRCPARAM 39664E4 .0151198 8.53 701.48 27.86 .51
** NMED source ID=39664EQPT5 Facility's ID=ENG-4
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664E5 POINT 631596.217 3561952.883 0
SO SRCPARAM 39664E5 .0214197 8.84 688.15 25.51 .61
** NMED source ID=39664EQPT6 Facility's ID=ENG-5
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39664E6 POINT 631597.869 3561944.729 0
SO SRCPARAM 39664E6 .0214197 8.84 688.15 25.51 .61
** NMED source ID=39664EQPT7 Facility's ID=ENG-6
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39664E7 POINT 631604.818 3561939.767 0
SO SRCPARAM 39664E7 .0214197 8.84 688.15 25.51 .61
** NMED source ID=39664EQPT10 Facility's ID=Heater-1
** Description=Seperator Heater Construction date=21-SEP-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664E10 VOLUME 631613.501 3561940.909 0
SO SRCPARAM 39664E10 .00126 3.96 .47 .93
**********END OF 39664: EOG - Boa Localized Gas Lift Station
INFO**********************************
************************************************************
** 8.01km away. Facility ID=39006 Name=EOG - Gunslinger Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1456, -103.4874, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.88tons/year
*****************Facility sources: ******************************
** NMED source ID=39006EQPT2 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.5 MMbtu/hr Construction date=12-OCT-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E2 POINT 642654.162 3557576.66 0
SO SRCPARAM 39006E2 .00126 3.96 588.71 .44 .91
** NMED source ID=39006EQPT3 Facility's ID=Heater-1
** Description=Separator Heater 0.50 MMbtu/hr Construction date=12-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39006E3 POINT 642661.698 3557583.681 0
SO SRCPARAM 39006E3 .0005796 3.96 588.71 .15 .91
** NMED source ID=39006EQPT4 Facility's ID=ENG-6
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=13-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E4 POINT 642654.912 3557587.233 0
SO SRCPARAM 39006E4 .0214197 6.1 688.15 25.24 .61
** NMED source ID=39006EQPT5 Facility's ID=ENG-1
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=15-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E5 POINT 642647.315 3557585.141 0
SO SRCPARAM 39006E5 .0214197 6.1 688.15 25.24 .61
** NMED source ID=39006EQPT6 Facility's ID=ENG-2
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=15-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E6 POINT 642643.074 3557578.241 0
SO SRCPARAM 39006E6 .0214197 6.1 688.15 25.24 .61
** NMED source ID=39006EQPT7 Facility's ID=ENG-3
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=15-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E7 POINT 642644.726 3557570.087 0
SO SRCPARAM 39006E7 .0151198 8.53 719.26 27.43 .51
** NMED source ID=39006EQPT8 Facility's ID=ENG-4
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=05-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E8 POINT 642651.675 3557565.125 0
SO SRCPARAM 39006E8 .0151198 8.53 719.26 27.43 .51
** NMED source ID=39006EQPT9 Facility's ID=ENG-5
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=15-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E9 POINT 642660.358 3557566.267 0
SO SRCPARAM 39006E9 .0151198 8.53 719.26 27.43 .51
**********END OF 39006: EOG - Gunslinger Localized Gas Lift Station
INFO**********************************
************************************************************
** 8.1km away. Facility ID=38906 Name=Devon - Bell Lake 19 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
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** lat,long,datum=32.199481, -103.6089, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.68tons/year
*****************Facility sources: ****************************
** NMED source ID=38906AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=05-APR-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8568hr/yr, 24hr/day
SO LOCATION 38906A1 VOLUME 631117.163 3563395.354 0
SO SRCPARAM 38906A1 .2784556 10 20 9.3
** NMED source ID=38906EQPT3 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater 1 Construction date=05-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38906E3 VOLUME 631124.699 3563402.375 0
SO SRCPARAM 38906E3 .0037799 9.14 .47 .93
** NMED source ID=38906EQPT16 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater Treater 2 Construction date=23-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7224hr/yr, 24hr/day
SO LOCATION 38906E16 VOLUME 631117.913 3563405.927 0
SO SRCPARAM 38906E16 .0037799 9.14 .47 .93
** NMED source ID=38906EQPT17 Facility's ID=LPC-3
** Description=92 hp Low Pressure Compressor Engine Construction date=06-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7224hr/yr, 24hr/day
SO LOCATION 38906E17 POINT 631110.316 3563403.835 0
SO SRCPARAM 38906E17 .00252 1.8 922.04 67.27 .09
**********END OF 38906: Devon - Bell Lake 19 CTB 3
INFO************************************
************************************************************
** 8.12km away. Facility ID=7515 Name=Harrier 35 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.17618, -103.44787, WGS84
** Total Particulate Matter (10 microns or less) emissions=.37tons/year
*****************Facility sources: ****************************
** NMED source ID=7515EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=08-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7515E1 POINT 646333.754 3561019.922 0
SO SRCPARAM 7515E1 .0075599 4.57 1003.71 16.37 .28
** NMED source ID=7515EQPT5 Facility's ID=Heater-1
** Description=Heater Construction date=08-SEP-23
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7515E5 POINT 646341.29 3561026.943 0
SO SRCPARAM 7515E5 .00126 3.05 588.71 3.41 .3
** NMED source ID=7515EQPT6 Facility's ID=Heater-2
** Description=Heater Construction date=08-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7515E6 POINT 646334.504 3561030.495 0
SO SRCPARAM 7515E6 .00126 3.05 588.71 6.83 .3
**********END OF 7515: Harrier 35 Fed Com CTB
INFO**********************************
************************************************************
** 8.14km away. Facility ID=7552 Name=Keller 33 34 Battery
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=10103 NOI
** lat,long,datum=32.26635, -103.46807, WGS84
** Total Particulate Matter (10 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=7552EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-AUG-09
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7552E1 POINT 644286.567 3570989.185 0
SO SRCPARAM 7552E1 .0005796 3.05 310.93 .23 .15
** NMED source ID=7552EQPT2 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-AUG-09
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7552E2 POINT 644294.103 3570996.206 0
SO SRCPARAM 7552E2 .0005796 3.05 310.93 .23 .15
**********END OF 7552: Keller 33 34 Battery
INFO**********************************
************************************************************
** 8.16km away. Facility ID=33269 Name=Vaca 11 Fed Com No2H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1383, -103.5385, WGS84
** Total Particulate Matter (10 microns or less) emissions=.12tons/year
*****************Facility sources: ******************************
** NMED source ID=33269AREA1 Facility's ID=Haul
** Description=Haul Road Emissions Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8012hr/yr, 24hr/day
SO LOCATION 33269A1 VOLUME 637845.412 3556700.805 0
SO SRCPARAM 33269A1 .00252 1 .47 .93
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** NMED source ID=33269EQPT3 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8012hr/yr, 24hr/day
SO LOCATION 33269E3 VOLUME 637852.948 3556707.826 0
SO SRCPARAM 33269E3 .0005796 4.57 .47 .93
**********END OF 33269: Vaca 11 Fed Com No2H
INFO**********************************
************************************************************
** 8.33km away. Facility ID=32116 Name=Red Hills Enterprise Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.135833, -103.528611, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.02tons/year
*****************Facility sources: ****************************
** NMED source ID=32116EQPT5 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler Construction date=12-FEB-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32116E5 POINT 638781.946 3556440.014 0
SO SRCPARAM 32116E5 .0005796 3.96 588.71 1.31 .3
** NMED source ID=32116EQPT12 Facility's ID=ENG-1
** Description=Caterpillar G3516B 4SLB Compressor Engine Construction date=12-FEB-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7686hr/yr, 21hr/day
SO LOCATION 32116E12 POINT 638789.482 3556447.035 0
SO SRCPARAM 32116E12 .0125998 6.71 812.59 33.68 .4
** NMED source ID=32116EQPT13 Facility's ID=ENG-2
** Description=Caterpillar G3516B 4SLB Compressor Engine Construction date=12-FEB-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7691hr/yr, 21hr/day
SO LOCATION 32116E13 POINT 638782.696 3556450.587 0
SO SRCPARAM 32116E13 .0125998 6.71 812.59 33.68 .4
** NMED source ID=32116EQPT15 Facility's ID=Heater-1
** Description=Separator Heater Construction date=27-MAR-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32116E15 POINT 638775.099 3556448.495 0
SO SRCPARAM 32116E15 .0005796 3.96 588.71 1.31 .3
** NMED source ID=32116EQPT17 Facility's ID=ENG-3
** Description=Caterpillar G3606 A4 4SLB Compressor Engine Construction
date=17-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 32116E17 POINT 638770.858 3556441.595 0
SO SRCPARAM 32116E17 .0151198 6.71 719.26 43.22 .4
** NMED source ID=32116EQPT18 Facility's ID=ENG-4
** Description=Caterpillar G3606 A4 4SLB Compressor Engine Construction
date=17-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32116E18 POINT 638772.51 3556433.441 0
SO SRCPARAM 32116E18 .0151198 6.71 719.26 43.22 .4
**********END OF 32116: Red Hills Enterprise Compressor Station
INFO**********************************
************************************************************
** 8.4km away. Facility ID=40265 Name=Honey Buzzard 35 State Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1714, -103.4477, WGS84
** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=40265EQPT1 Facility's ID=HTR-1
** Description=1.5 MM Btu/h Heater Treater Construction date=30-DEC-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40265E1 VOLUME 646357.43 3560490.227 0
SO SRCPARAM 40265E1 .00126 6.1 .47 .93
**********END OF 40265: Honey Buzzard 35 State Com CTB
INFO**********************************
************************************************************
** 8.42km away. Facility ID=38540 Name=Nocaster 19 Federal Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.284086, -103.502861, WGS84
** Total Particulate Matter (10 microns or less) emissions=.11tons/year
*****************Facility sources: ****************************
** NMED source ID=38540EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38540E4 VOLUME 640981.968 3572909.206 0
SO SRCPARAM 38540E4 .00126 4.57 .47 .93
** NMED source ID=38540EQPT7 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38540E7 POINT 640989.504 3572916.227 0
SO SRCPARAM 38540E7 .00252 4.88 833.15 41.39 .25
**********END OF 38540: Nocaster 19 Federal Battery
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INFO**********************************
************************************************************
** 8.45km away. Facility ID=32167 Name=EOG - Vaca 14 Fed No 3H, 4H & 6H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.136, -103.541, WGS84
** Total Particulate Matter (10 microns or less) emissions=.3tons/year
*****************Facility sources: ****************************
** NMED source ID=32167EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine CAT G3306 NA Construction date=01-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32167E2 POINT 637613.05 3556442.627 0
SO SRCPARAM 32167E2 .00252 3.41 867.04 24.35 .13
** NMED source ID=32167EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32167E3 POINT 637620.586 3556449.648 0
SO SRCPARAM 32167E3 .0037799 4.57 261.28 23.96 .15
** NMED source ID=32167EQPT6 Facility's ID=Heater-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7127hr/yr, 20hr/day
SO LOCATION 32167E6 VOLUME 637613.8 3556453.2 0
SO SRCPARAM 32167E6 .0005796 6.1 .47 .93
** NMED source ID=32167EQPT7 Facility's ID=Heater-2
** Description=Heater Construction date=01-JAN-20
** SCC=31000128
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7127hr/yr, 20hr/day
SO LOCATION 32167E7 VOLUME 637606.203 3556451.108 0
SO SRCPARAM 32167E7 .0005796 6.1 .47 .93
** NMED source ID=32167EQPT8 Facility's ID=Heater-3
** Description=Heater Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7127hr/yr, 20hr/day
SO LOCATION 32167E8 VOLUME 637601.962 3556444.208 0
SO SRCPARAM 32167E8 .0005796 6.1 .47 .93
**********END OF 32167: EOG - Vaca 14 Fed No 3H, 4H & 6H
INFO**********************************
************************************************************
** 8.46km away. Facility ID=38462 Name=Dee Boot Fee CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.195, -103.436, NAD83
```

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** Total Particulate Matter (10 microns or less) emissions=.21tons/year
*****************Facility sources: ******************************
** NMED source ID=38462AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=11-JAN-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38462A1 VOLUME 647422.625 3563122.588 0
SO SRCPARAM 38462A1 .0017262 1 .47 .93
** NMED source ID=38462EQPT1 Facility's ID=ENG-1
** Description=Gas Lift Compressor Construction date=11-JAN-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38462E1 POINT 647430.161 3563129.609 0
SO SRCPARAM 38462E1 .0037799 4.52 1000.37 50.22 .15
** NMED source ID=38462EQPT11 Facility's ID=HTR-1
** Description=Heater Treater 1, Burner Construction date=11-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38462E11 VOLUME 647423.375 3563133.161 0
SO SRCPARAM 38462E11 .0002898 4.6 .47 .93
** NMED source ID=38462EQPT16 Facility's ID=HTR-2
** Description=Heater Treater 2 Burner Construction date=11-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38462E16 VOLUME 647415.778 3563131.069 0
SO SRCPARAM 38462E16 .0002898 4.6 .47 .93
**********END OF 38462: Dee Boot Fee CTB INFO************************************
************************************************************
** 8.47km away. Facility ID=38314 Name=Mamba South CTB Production Facility
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.184, -103.6082, WGS84
** Total Particulate Matter (10 microns or less) emissions=.76tons/year
*****************Facility sources: ******************************
** NMED source ID=38314EQPT15 Facility's ID=HTR-1
** Description=Heater 1.5 MMBtu/hr Construction date=06-JUL-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38314E15 POINT 631205.361 3561679.984 0
SO SRCPARAM 38314E15 .00126 5.18 588.71 6.83 .3
** NMED source ID=38314EQPT16 Facility's ID=ENG-1
** Description=Compressor Engine CAT 1380-hp Construction date=06-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 38314E16 POINT 631212.897 3561687.005 0
SO SRCPARAM 38314E16 .0138598 7.01 806.48 59.04 .3
** NMED source ID=38314RPNT3 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=06-JUL-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8779hr/yr, 24hr/day
SO LOCATION 38314R3 VOLUME 631206.111 3561690.557 0
SO SRCPARAM 38314R3 .0075599 1 .47 .93
**********END OF 38314: Mamba South CTB Production Facility
INFO**********************************
************************************************************
** 8.59km away. Facility ID=38163 Name=Broadcaster 29 Fed 3H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7579 NOI
** lat,long,datum=32.282401, -103.490591, NAD83
** Total Particulate Matter (10 microns or less) emissions=.13tons/year
****************Facility sources: ****************************
** NMED source ID=38163AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=04-APR-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38163A1 VOLUME 642140.148 3572738.597 0
SO SRCPARAM 38163A1 .00252 1 .47 .93
** NMED source ID=38163EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38163E4 VOLUME 642147.684 3572745.618 0
SO SRCPARAM 38163E4 .00126 6.71 .47 .93
** NMED source ID=38163EQPT6 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=01-JUN-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38163E6 VOLUME 642140.898 3572749.17 0
SO SRCPARAM 38163E6 .00126 6.71 .47 .93
**********END OF 38163: Broadcaster 29 Fed 3H Battery
INFO**********************************
************************************************************
** 8.61km away. Facility ID=38538 Name=Stratocaster 20-1H Federal Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7919 NOI
** lat,long,datum=32.2848, -103.498242, WGS84
** Total Particulate Matter (10 microns or less) emissions=.03tons/year
****************Facility sources: ****************************
** NMED source ID=38538AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=29-JUN-23
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** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38538A1 VOLUME 641415.863 3572994.445 0
SO SRCPARAM 38538A1 .00126 1 .47 .93
** NMED source ID=38538EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38538E4 VOLUME 641423.399 3573001.466 0
SO SRCPARAM 38538E4 .00126 6.71 .47 .93
**********END OF 38538: Stratocaster 20-1H Federal Battery
INFO**********************************
************************************************************
** 8.62km away. Facility ID=40730 Name=Zion Compressor Station
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257089, -103.450687, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.25tons/year
*****************Facility sources: ****************************
** NMED source ID=40730EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=01-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E2 POINT 645938.799 3569985.978 0
SO SRCPARAM 40730E2 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40730EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=01-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E3 POINT 645946.335 3569992.999 0
SO SRCPARAM 40730E3 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40730EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=01-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E4 POINT 645939.549 3569996.551 0
SO SRCPARAM 40730E4 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40730EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=01-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E5 POINT 645931.952 3569994.459 0
SO SRCPARAM 40730E5 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40730EQPT7 Facility's ID=REB-1
```

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** Description=Dehydrator Reboiler Construction date=01-DEC-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E7 POINT 645927.711 3569987.559 0
SO SRCPARAM 40730E7 .00126 5.79 533.15 .07 .46
**********END OF 40730: Zion Compressor Station
INFO**********************************
************************************************************
** 8.65km away. Facility ID=33138 Name=Cimarex - Tres Equis 5 State 1H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=5378 NOI
** lat,long,datum=32.253069, -103.600731, NAD83
** Total Particulate Matter (10 microns or less) emissions=.65tons/year
*****************Facility sources: ******************************
** NMED source ID=33138EQPT1 Facility's ID=ENG1
** Description=Ajax DPC 2802LE 384 hp Construction date=24-JUL-14
** SCC=20200252
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33138E1 POINT 631809.808 3569346.156 0
SO SRCPARAM 33138E1 .0186981 6.61 513.71 13.99 .36
**********END OF 33138: Cimarex - Tres Equis 5 State 1H
INFO**********************************
************************************************************
** 8.69km away. Facility ID=39254 Name=Getty 5 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1544, -103.588, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.47tons/year
*****************Facility sources: ******************************
** NMED source ID=39254AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=13-DEC-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8741hr/yr, 24hr/day
SO LOCATION 39254A1 VOLUME 633152.853 3558423.349 0
SO SRCPARAM 39254A1 .0579591 1 .47 .93
** NMED source ID=39254EQPT10 Facility's ID=HTR-1
** Description=1.5 MMBtu/hr Heater Construction date=13-DEC-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8741hr/yr, 24hr/day
SO LOCATION 39254E10 POINT 633160.389 3558430.37 0
SO SRCPARAM 39254E10 .00252 5.18 588.71 6.83 .3
** NMED source ID=39254EQPT11 Facility's ID=FracHTR-1
** Description=0.5 MMBtu/hr Heater Construction date=13-DEC-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39254E11 POINT 633153.603 3558433.922 0
SO SRCPARAM 39254E11 .00126 5.18 588.71 2.29 .3
** NMED source ID=39254EQPT12 Facility's ID=FracENG-1
** Description=400 hp CG137-8 Caterpillar NG Engine Construction date=13-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39254E12 POINT 633146.006 3558431.83 0
SO SRCPARAM 39254E12 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39254EQPT13 Facility's ID=FracENG-2
** Description=400 hp CG137-8 Caterpillar NG Engine Construction date=13-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39254E13 POINT 633141.765 3558424.93 0
SO SRCPARAM 39254E13 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39254EQPT14 Facility's ID=FracENG-3
** Description=400 hp CG137-8 Caterpillar NG Engine Construction date=13-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39254E14 POINT 633143.417 3558416.776 0
SO SRCPARAM 39254E14 .0075599 6.1 790.93 23.04 .2
**********END OF 39254: Getty 5 Fed Com CTB
INFO**********************************
************************************************************
** 8.86km away. Facility ID=38404 Name=Cimarex - Canyonlands 2 State Com 1H and 2H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=7807 NOI
** lat,long,datum=32.242197, -103.437575, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.8tons/year
*****************Facility sources: ****************************
** NMED source ID=38404RPNT5 Facility's ID=FUGAREA
** Description=Haul Road Fugitives Construction date=05-JUL-18
** SCC=31000299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38404R5 VOLUME 647198.057 3568352.888 0
SO SRCPARAM 38404R5 .0881986 10 10 9.3
**********END OF 38404: Cimarex - Canyonlands 2 State Com 1H and 2H
INFO**********************************
************************************************************
** 8.93km away. Facility ID=33215 Name=Thistle North Central CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5424 NOI
** lat,long,datum=32.284, -103.562, NAD83
** Total Particulate Matter (10 microns or less) emissions=.25tons/year
*****************Facility sources: ****************************
** NMED source ID=33215AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
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** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33215A1 VOLUME 635412.602 3572823.459 0
SO SRCPARAM 33215A1 .2784556 10 20 9.3
** NMED source ID=33215EQPT4 Facility's ID=HT-1
** Description=Heater_EQ000171100 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33215E4 VOLUME 635420.138 3572830.48 0
SO SRCPARAM 33215E4 .0005796 9.14 .47 .93
** NMED source ID=33215EQPT12 Facility's ID=HT-2
** Description=Heater_EQ000171102 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33215E12 VOLUME 635413.352 3572834.032 0
SO SRCPARAM 33215E12 .00126 9.14 .47 .93
**********END OF 33215: Thistle North Central CTB
INFO**********************************
************************************************************
** 8.96km away. Facility ID=32644 Name=Bell Lake 19 ST 1H CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5159 NOI
** lat,long,datum=32.196464, -103.617564, WGS84
** Total Particulate Matter (10 microns or less) emissions=.71tons/year
*****************Facility sources: ****************************
** NMED source ID=32644AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32644A1 VOLUME 630304.775 3563050.354 0
SO SRCPARAM 32644A1 .2784556 10 20 9.3
** NMED source ID=32644EQPT16 Facility's ID=HT-2
** Description=Heater_EQ000143592 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32644E16 VOLUME 630312.311 3563057.375 0
SO SRCPARAM 32644E16 .0005796 9.14 .47 .93
** NMED source ID=32644EQPT18 Facility's ID=HT-1
** Description=Heater_EQ000062993 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32644E18 VOLUME 630305.525 3563060.927 0
SO SRCPARAM 32644E18 .0005796 9.14 .47 .93
** NMED source ID=32644EQPT25 Facility's ID=ENG-1
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** Description=Engine 1 Construction date=21-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32644E25 POINT 630297.928 3563058.835 0
SO SRCPARAM 32644E25 .0037799 3.6 853.15 19.79 .17
**********END OF 32644: Bell Lake 19 ST 1H CTB
INFO**********************************
************************************************************
** 9.04km away. Facility ID=30327 Name=Thistle Unit 20H CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4439 NOI
** lat,long,datum=32.282539, -103.568286, NAD83
** Total Particulate Matter (10 microns or less) emissions=.76tons/year
*****************Facility sources: ******************************
** NMED source ID=30327AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8352hr/yr, 24hr/day
SO LOCATION 30327A1 VOLUME 634822.775 3572653.569 0
SO SRCPARAM 30327A1 1.0898827 10 90 9.3
** NMED source ID=30327EQPT2 Facility's ID=Heater_5928
** Description=Heater_EQ000175928 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8352hr/yr, 24hr/day
SO LOCATION 30327E2 VOLUME 634830.311 3572660.59 0
SO SRCPARAM 30327E2 .0005796 9.14 .47 .93
**********END OF 30327: Thistle Unit 20H CTB
INFO**********************************
************************************************************
** 9.1km away. Facility ID=6294 Name=Dingo CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.233, -103.431, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.15tons/year
*****************Facility sources: ******************************
** NMED source ID=6294EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=18-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6294E1 POINT 647832.462 3567342.299 0
SO SRCPARAM 6294E1 .0075599 4.57 806.48 22.62 .2
** NMED source ID=6294EQPT4 Facility's ID=GEN-1
** Description=Generator Engine Construction date=18-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 6294E4 POINT 647839.998 3567349.32 0
SO SRCPARAM 6294E4 .0075599 4.57 1005.37 27.31 .2
** NMED source ID=6294EQPT5 Facility's ID=GEN-2
** Description=Generator Engine Construction date=18-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6294E5 POINT 647833.212 3567352.872 0
SO SRCPARAM 6294E5 .0075599 4.57 1005.37 27.31 .2
** NMED source ID=6294EQPT6 Facility's ID=GEN-3
** Description=Generator Engine Construction date=18-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6294E6 POINT 647825.615 3567350.78 0
SO SRCPARAM 6294E6 .0075599 4.57 1005.37 27.31 .2
** NMED source ID=6294EQPT7 Facility's ID=HT-1
** Description=Heater Treater Construction date=18-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6294E7 VOLUME 647821.374 3567343.88 0
SO SRCPARAM 6294E7 .00252 4.57 .47 .93
**********END OF 6294: Dingo CTB INFO**********************************
************************************************************
** 9.14km away. Facility ID=5701 Name=Betty 5 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.15573, -103.59618, WGS84
** Total Particulate Matter (10 microns or less) emissions=.59tons/year
*****************Facility sources: ******************************
** NMED source ID=5701EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5701E1 POINT 632379.481 3558560.701 0
SO SRCPARAM 5701E1 .0075599 3.96 803.71 58.52 .13
** NMED source ID=5701EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5701E2 POINT 632387.017 3558567.722 0
SO SRCPARAM 5701E2 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=5701EQPT5 Facility's ID=HTR-1
** Description=Heater Treater Construction date=12-JAN-24
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 5701E5 POINT 632380.231 3558571.274 0
SO SRCPARAM 5701E5 .00126 4.88 588.71 .21 1.22
** NMED source ID=5701EQPT6 Facility's ID=HTR-2
** Description=Heater Treater Construction date=12-JAN-24
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5701E6 POINT 632372.634 3558569.182 0
SO SRCPARAM 5701E6 .00126 4.88 588.71 .21 1.22
**********END OF 5701: Betty 5 Fed Com CTB INFO************************************
************************************************************
** 9.17km away. Facility ID=39517 Name=Antero 14 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1298, -103.5431, WGS84
** Total Particulate Matter (10 microns or less) emissions=.62tons/year
*****************Facility sources: ******************************
** NMED source ID=39517EQPT9 Facility's ID=HTR-1
** Description=Heater Treater Construction date=05-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39517E9 POINT 637424.257 3555752.611 0
SO SRCPARAM 39517E9 .00126 4.88 588.71 .21 1.22
** NMED source ID=39517EQPT10 Facility's ID=HTR-2
** Description=Heater Construction date=05-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39517E10 POINT 637431.793 3555759.632 0
SO SRCPARAM 39517E10 .00126 4.88 588.71 .21 1.22
** NMED source ID=39517EQPT21 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=11-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39517E21 POINT 637425.007 3555763.184 0
SO SRCPARAM 39517E21 .0075599 3.96 803.71 59.13 .13
** NMED source ID=39517EQPT22 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=11-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39517E22 POINT 637417.41 3555761.092 0
SO SRCPARAM 39517E22 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=39517EQPT23 Facility's ID=HTR-3
** Description=Heater Construction date=11-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 39517E23 POINT 637413.169 3555754.192 0
SO SRCPARAM 39517E23 .00126 4.88 588.71 .21 1.22
**********END OF 39517: Antero 14 Fed Com CTB
INFO*************************************
************************************************************
** 9.36km away. Facility ID=34175 Name=Cimarex Energy - Dos Equis 13 Federal 1H and
2H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223961, -103.621961, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.83tons/year
*****************Facility sources: ******************************
** NMED source ID=34175EQPT2 Facility's ID=H1
** Description=Heater Treater 0.5 MMBtu/hr Construction date=13-NOV-14
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8430hr/yr, 23hr/day
SO LOCATION 34175E2 VOLUME 629851.204 3566093.353 0
SO SRCPARAM 34175E2 .00126 4.57 .47 .93
** NMED source ID=34175EQPT3 Facility's ID=GLYEX
** Description=Glycol Reboiler, 2.0 MMBtu/hr Construction date=13-NOV-14
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34175E3 POINT 629858.74 3566100.374 0
SO SRCPARAM 34175E3 .00126 3.05 477.59 4.05 .15
** NMED source ID=34175EQPT13 Facility's ID=ENG4
** Description=Compressor Engine 415HP Construction date=27-MAR-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34175E13 POINT 629851.954 3566103.926 0
SO SRCPARAM 34175E13 .0075599 4.27 864.82 32.37 .2
** NMED source ID=34175EQPT15 Facility's ID=H2
** Description=Heater Treater 0.5 MMBtu/hr Construction date=27-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8430hr/yr, 23hr/day
SO LOCATION 34175E15 VOLUME 629844.357 3566101.834 0
SO SRCPARAM 34175E15 .00126 4.57 .47 .93
** NMED source ID=34175RPNT1 Facility's ID=FUGAREA
** Description=Haul Roads Fugitives Emissions Construction date=13-NOV-14
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8430hr/yr, 23hr/day
SO LOCATION 34175R1 VOLUME 629840.116 3566094.934 0
SO SRCPARAM 34175R1 .1159182 10 10 9.3
**********END OF 34175: Cimarex Energy - Dos Equis 13 Federal 1H and 2H
INFO*************************************
************************************************************
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** 9.39km away. Facility ID=38486 Name=XTO - Mis Amigos Production Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.258333, -103.606111, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.43tons/year
*****************Facility sources: ******************************
** NMED source ID=38486RPNT3 Facility's ID=Road
** Description=Haul Roads Construction date=05-JUL-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38486R3 VOLUME 631295.396 3569923.135 0
SO SRCPARAM 38486R3 .1688373 10 10 9.3
**********END OF 38486: XTO - Mis Amigos Production Battery
INFO*************************************
************************************************************
** 9.42km away. Facility ID=39089 Name=EOG - Taipan Adder 31 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1706, -103.612, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.32tons/year
*****************Facility sources: ******************************
** NMED source ID=39089AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=22-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7930hr/yr, 24hr/day
SO LOCATION 39089A1 VOLUME 630866.272 3560189.833 0
SO SRCPARAM 39089A1 .1184381 10 10 9.3
** NMED source ID=39089EQPT7 Facility's ID=Frac ENG-1
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39089E7 POINT 630873.808 3560196.854 0
SO SRCPARAM 39089E7 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39089EQPT8 Facility's ID=Frac ENG-2
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39089E8 POINT 630867.022 3560200.406 0
SO SRCPARAM 39089E8 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39089EQPT9 Facility's ID=Frac ENG-3
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39089E9 POINT 630859.425 3560198.314 0
SO SRCPARAM 39089E9 .0075599 6.1 790.93 23.04 .2
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** NMED source ID=39089EQPT10 Facility's ID=Frac HTR-1
** Description=Heater, 0.5-MMBtu/hr Construction date=22-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39089E10 POINT 630855.184 3560191.414 0
SO SRCPARAM 39089E10 .00126 5.18 588.71 2.29 .3
** NMED source ID=39089EQPT11 Facility's ID=HTR-1
** Description=Heater, 1.5-MMBtu/hr Construction date=22-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6082hr/yr, 24hr/day
SO LOCATION 39089E11 POINT 630856.836 3560183.26 0
SO SRCPARAM 39089E11 .00252 5.18 588.71 6.86 .3
**********END OF 39089: EOG - Taipan Adder 31 State CTB
INFO**********************************
************************************************************
** 9.43km away. Facility ID=40221 Name=Appaloosa 18 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1267, -103.51, WGS84
** Total Particulate Matter (10 microns or less) emissions=.1tons/year
*****************Facility sources: ****************************
** NMED source ID=40221EQPT1 Facility's ID=HTR-1W
** Description=Heater Treater Construction date=12-NOV-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40221E1 VOLUME 640551.522 3555451.658 0
SO SRCPARAM 40221E1 .00126 6.1 .47 .93
** NMED source ID=40221EQPT12 Facility's ID=HTR-1E
** Description=Heater Treater Construction date=10-MAY-22
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40221E12 VOLUME 640559.058 3555458.679 0
SO SRCPARAM 40221E12 .00126 6.1 .47 .93
**********END OF 40221: Appaloosa 18 Fed Com CTB
INFO**********************************
************************************************************
** 9.44km away. Facility ID=31863 Name=XTO - Mis Amigos and Estancia Tank Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.254722, -103.609444, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.88tons/year
*****************Facility sources: ****************************
** NMED source ID=31863EQPT20 Facility's ID=GEN1
** Description=Generator 581 hp Construction date=07-JUN-19
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31863E20 POINT 630986.608 3569518.743 0
SO SRCPARAM 31863E20 .0163797 4.57 1005.37 215.25 .09
** NMED source ID=31863EQPT21 Facility's ID=GEN2
** Description=Generator 581 hp Construction date=07-JUN-19
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31863E21 POINT 630994.144 3569525.764 0
SO SRCPARAM 31863E21 .0163797 4.57 1005.37 215.25 .09
** NMED source ID=31863EQPT22 Facility's ID=GEN3
** Description=Generator 581 hp Construction date=07-JUN-19
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31863E22 POINT 630987.358 3569529.316 0
SO SRCPARAM 31863E22 .0163797 4.57 1005.37 215.25 .09
** NMED source ID=31863RPNT1 Facility's ID=ROAD
** Description=Haul Roads Construction date=03-DEC-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31863R1 VOLUME 630979.761 3569527.224 0
SO SRCPARAM 31863R1 .0428393 1 .47 .93
**********END OF 31863: XTO - Mis Amigos and Estancia Tank Battery
INFO************************************
************************************************************
** 9.45km away. Facility ID=38309 Name=Copperhead Compressor Station
** Company ID=265 Name=Targa Midstream Services LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.212128, -103.624164, WGS84
** Total Particulate Matter (10 microns or less) emissions=.82tons/year
*****************Facility sources: ****************************
** NMED source ID=38309EQPT2 Facility's ID=H-1
** Description=3.0 MMBtu/hr Construction date=05-APR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7884hr/yr, 22hr/day
SO LOCATION 38309E2 POINT 629660.397 3564778.884 0
SO SRCPARAM 38309E2 .00252 4.57 477.59 .52 1.07
** NMED source ID=38309EQPT13 Facility's ID=EM-1b
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E13 POINT 629667.933 3564785.905 0
SO SRCPARAM 38309E13 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT14 Facility's ID=EM-1a
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E14 POINT 629661.147 3564789.457 0
SO SRCPARAM 38309E14 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT15 Facility's ID=EM-2a
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E15 POINT 629653.55 3564787.365 0
SO SRCPARAM 38309E15 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT16 Facility's ID=EM-2b
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E16 POINT 629649.309 3564780.465 0
SO SRCPARAM 38309E16 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT17 Facility's ID=EM-3a
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E17 POINT 629650.961 3564772.311 0
SO SRCPARAM 38309E17 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT18 Facility's ID=EM-3b
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E18 POINT 629657.91 3564767.349 0
SO SRCPARAM 38309E18 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT19 Facility's ID=EM-4b
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E19 POINT 629666.593 3564768.491 0
SO SRCPARAM 38309E19 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT20 Facility's ID=EM-4a
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E20 POINT 629672.303 3564775.419 0
SO SRCPARAM 38309E20 .00252 4.51 734.26 119.27 .2
**********END OF 38309: Copperhead Compressor Station
INFO**********************************
************************************************************
** 9.5km away. Facility ID=38905 Name=Ruiz Compressor Station
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** Company ID=9960 Name=DCP Operating Company LP
** SIC=4922 NAIC=48621    Permit=unknown
** lat,long,datum=32.143056, -103.5855, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.58tons/year
*****************Facility sources: ****************************
** NMED source ID=38905EQPT18 Facility's ID=ENG-1
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8228hr/yr, 24hr/day
SO LOCATION 38905E18 POINT 633405.15 3557168.851 0
SO SRCPARAM 38905E18 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT20 Facility's ID=ENG-2
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7506hr/yr, 24hr/day
SO LOCATION 38905E20 POINT 633412.686 3557175.872 0
SO SRCPARAM 38905E20 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT21 Facility's ID=ENG-3
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7123hr/yr, 24hr/day
SO LOCATION 38905E21 POINT 633405.9 3557179.424 0
SO SRCPARAM 38905E21 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT22 Facility's ID=ENG-4
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1306hr/yr, 24hr/day
SO LOCATION 38905E22 POINT 633398.303 3557177.332 0
SO SRCPARAM 38905E22 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT23 Facility's ID=ENG-5
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E23 POINT 633394.062 3557170.432 0
SO SRCPARAM 38905E23 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT24 Facility's ID=ENG-6
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E24 POINT 633395.714 3557162.278 0
SO SRCPARAM 38905E24 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT25 Facility's ID=ENG-7
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E25 POINT 633402.663 3557157.316 0
SO SRCPARAM 38905E25 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT26 Facility's ID=ENG-8
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E26 POINT 633411.346 3557158.458 0
SO SRCPARAM 38905E26 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT27 Facility's ID=ENG-9
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E27 POINT 633417.056 3557165.386 0
SO SRCPARAM 38905E27 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT28 Facility's ID=ENG-10
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E28 POINT 633416.491 3557174.567 0
SO SRCPARAM 38905E28 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT32 Facility's ID=GEN-1
** Description=Natural Gas Generator CAT G3406 276 hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E32 POINT 633409.656 3557181.045 0
SO SRCPARAM 38905E32 .0050399 7.32 814.82 27.46 .38
**********END OF 38905: Ruiz Compressor Station
INFO**********************************
************************************************************
** 9.54km away. Facility ID=39575 Name=Bandit Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.1753, -103.6162, WGS84
** Total Particulate Matter (10 microns or less) emissions=6.89tons/year
*****************Facility sources: ****************************
** NMED source ID=39575EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E1 POINT 630463.543 3560705.772 0
SO SRCPARAM 39575E1 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=25-JUN-20
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E2 POINT 630471.079 3560712.793 0
SO SRCPARAM 39575E2 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E3 POINT 630464.293 3560716.345 0
SO SRCPARAM 39575E3 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E4 POINT 630456.696 3560714.253 0
SO SRCPARAM 39575E4 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT5 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E5 POINT 630452.455 3560707.353 0
SO SRCPARAM 39575E5 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT6 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E6 POINT 630454.107 3560699.199 0
SO SRCPARAM 39575E6 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT7 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E7 POINT 630461.056 3560694.237 0
SO SRCPARAM 39575E7 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT8 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E8 POINT 630469.739 3560695.379 0
SO SRCPARAM 39575E8 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT9 Facility's ID=ENG-9
** Description=Caterpillar G3608LE 2500hp Construction date=25-JUN-20
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E9 POINT 630475.449 3560702.307 0
SO SRCPARAM 39575E9 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT19 Facility's ID=RBL-1
** Description=Dehy Reboiler 2.0 MM BTU/h Construction date=25-JUN-20
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E19 POINT 630474.884 3560711.488 0
SO SRCPARAM 39575E19 .00252 6.1 588.71 .15 1.83
** NMED source ID=39575EQPT20 Facility's ID=HTR-1
** Description=Heater Treater Construction date=25-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E20 POINT 630468.049 3560717.966 0
SO SRCPARAM 39575E20 .00252 6.1 588.71 .15 1.83
**********END OF 39575: Bandit Compressor Station
INFO**********************************
************************************************************
** 9.59km away. Facility ID=35315 Name=Thistle Unit 28 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6200 NOI
** lat,long,datum=32.282458, -103.580006, NAD83
** Total Particulate Matter (10 microns or less) emissions=.55tons/year
*****************Facility sources: ******************************
** NMED source ID=35315AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35315A1 VOLUME 633719.138 3572629.916 0
SO SRCPARAM 35315A1 .2784556 10 20 9.3
** NMED source ID=35315EQPT5 Facility's ID=Heater_3915
** Description=Heater_EQ000013915 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35315E5 VOLUME 633726.674 3572636.937 0
SO SRCPARAM 35315E5 .0005796 9.14 .47 .93
** NMED source ID=35315EQPT15 Facility's ID=31 Heater Treater
** Description=Heater Treater Construction date=30-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35315E15 VOLUME 633719.888 3572640.489 0
SO SRCPARAM 35315E15 .00126 9.14 .47 .93
**********END OF 35315: Thistle Unit 28 CTB 1
INFO**********************************
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** 9.65km away. Facility ID=30182 Name=Thistle Unit 18 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4406 NOI
** lat,long,datum=32.282547, -103.581053, NAD83
** Total Particulate Matter (10 microns or less) emissions=.26tons/year
*****************Facility sources: ****************************
** NMED source ID=30182AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 30182A1 VOLUME 633620.404 3572638.478 0
SO SRCPARAM 30182A1 1.0898827 10 90 9.3
** NMED source ID=30182EQPT5 Facility's ID=Heater_4866
** Description=Heater_EQ000114866 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 30182E5 VOLUME 633627.94 3572645.499 0
SO SRCPARAM 30182E5 .0005796 9.14 .47 .93
**********END OF 30182: Thistle Unit 18 Battery
INFO**********************************
************************************************************
** 9.65km away. Facility ID=40015 Name=Dos Equis Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.237985, -103.621083, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.78tons/year
*****************Facility sources: ****************************
** NMED source ID=40015EQPT4 Facility's ID=ENG-2
** Description=Compressor Engine (1775 hp) 4SLB Construction date=17-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40015E4 POINT 629913.984 3567649.122 0
SO SRCPARAM 40015E4 .0151198 4.51 729.82 27.01 .24
** NMED source ID=40015EQPT5 Facility's ID=ENG-3
** Description=Compressor Engine (1775 hp) 4SLB Construction date=17-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40015E5 POINT 629921.52 3567656.143 0
SO SRCPARAM 40015E5 .0151198 4.51 729.82 27.01 .24
** NMED source ID=40015EQPT6 Facility's ID=ENG-4
** Description=Compressor Engine (1775 hp) 4SLB Construction date=17-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40015E6 POINT 629914.734 3567659.695 0
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SO SRCPARAM 40015E6 .0151198 4.51 729.82 27.01 .24
** NMED source ID=40015EQPT7 Facility's ID=ENG-5
** Description=Compressor Engine (1775 hp) 4SLB Construction date=17-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40015E7 POINT 629907.137 3567657.603 0
SO SRCPARAM 40015E7 .0151198 4.51 729.82 27.01 .24
** NMED source ID=40015EQPT10 Facility's ID=RBL-1
** Description=Dehy Reboiler (1.0 MMBTU/hr) Construction date=17-JUN-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8641hr/yr, 24hr/day
SO LOCATION 40015E10 POINT 629902.896 3567650.703 0
SO SRCPARAM 40015E10 .00126 3.05 588.71 1.98 .3
** NMED source ID=40015EQPT11 Facility's ID=RBL-2
** Description=Dehy Reboiler (1.0 MMBTU/hr) Construction date=17-JUN-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40015E11 POINT 629904.548 3567642.549 0
SO SRCPARAM 40015E11 .00126 3.05 588.71 1.98 .3
** NMED source ID=40015EQPT13 Facility's ID=ENG-6
** Description=Compressor Engine (1875 hp) 4SLB Construction date=30-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2190hr/yr, 6hr/day
SO LOCATION 40015E13 POINT 629911.497 3567637.587 0
SO SRCPARAM 40015E13 .0163797 4.51 729.82 27.01 .24
**********END OF 40015: Dos Equis Compressor Station
INFO************************************
************************************************************
** 9.66km away. Facility ID=33938 Name=Cimarex - Tres Equis State
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.25301, -103.61342, WGS84
** Total Particulate Matter (10 microns or less) emissions=.68tons/year
*****************Facility sources: ******************************
** NMED source ID=33938AREA1 Facility's ID=HR
** Description=Hauling Roads Construction date=06-JAN-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33938A1 VOLUME 630614.5 3569324.103 0
SO SRCPARAM 33938A1 .1159182 10 10 9.3
** NMED source ID=33938EQPT18 Facility's ID=H-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8768hr/yr, 24hr/day
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SO LOCATION 33938E18 POINT 630622.036 3569331.124 0
SO SRCPARAM 33938E18 .00126 4.57 477.59 4.05 .15
** NMED source ID=33938EQPT19 Facility's ID=H-2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8768hr/yr, 24hr/day
SO LOCATION 33938E19 POINT 630615.25 3569334.676 0
SO SRCPARAM 33938E19 .00126 4.57 477.59 4.05 .15
** NMED source ID=33938EQPT20 Facility's ID=H-3
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8768hr/yr, 24hr/day
SO LOCATION 33938E20 POINT 630607.653 3569332.584 0
SO SRCPARAM 33938E20 .00126 4.57 477.59 4.05 .15
** NMED source ID=33938EQPT24 Facility's ID=ENG3
** Description=Compressor Engine, Cat G3306TA, 203-hp Construction date=06-JAN-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33938E24 POINT 630603.412 3569325.684 0
SO SRCPARAM 33938E24 .0037799 3.66 841.48 37.16 .13
**********END OF 33938: Cimarex - Tres Equis State
INFO***********************************
************************************************************
** 9.69km away. Facility ID=39553 Name=Bull Run Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1564, -103.6044, WGS84
** Total Particulate Matter (10 microns or less) emissions=8.42tons/year
*****************Facility sources: ****************************
** NMED source ID=39553EQPT1 Facility's ID=RBL-1
** Description=Dehydrator Reboiler Construction date=17-JUN-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E1 POINT 631603.309 3558624.896 0
SO SRCPARAM 39553E1 .00252 6.1 588.71 .22 1.83
** NMED source ID=39553EQPT2 Facility's ID=HTR-1
** Description=Separator heater Construction date=17-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E2 POINT 631610.845 3558631.917 0
SO SRCPARAM 39553E2 .00252 6.1 588.71 .15 1.83
** NMED source ID=39553EQPT21 Facility's ID=ENG-1
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E21 POINT 631604.059 3558635.469 0
SO SRCPARAM 39553E21 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT22 Facility's ID=ENG-2
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E22 POINT 631596.462 3558633.377 0
SO SRCPARAM 39553E22 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT23 Facility's ID=ENG-3
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E23 POINT 631592.221 3558626.477 0
SO SRCPARAM 39553E23 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT24 Facility's ID=ENG-4
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E24 POINT 631593.873 3558618.323 0
SO SRCPARAM 39553E24 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT25 Facility's ID=ENG-5
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E25 POINT 631600.822 3558613.361 0
SO SRCPARAM 39553E25 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT26 Facility's ID=ENG-6
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E26 POINT 631609.505 3558614.503 0
SO SRCPARAM 39553E26 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT27 Facility's ID=ENG-7
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E27 POINT 631615.215 3558621.431 0
SO SRCPARAM 39553E27 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT28 Facility's ID=ENG-8
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39553E28 POINT 631614.65 3558630.612 0
SO SRCPARAM 39553E28 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT29 Facility's ID=ENG-9
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E29 POINT 631607.815 3558637.09 0
SO SRCPARAM 39553E29 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT30 Facility's ID=ENG-10
** Description=Compressor Engine Construction date=01-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E30 POINT 631598.179 3558637.167 0
SO SRCPARAM 39553E30 .0428393 8.84 849.26 15.88 .61
**********END OF 39553: Bull Run Compressor Station
INFO**********************************
************************************************************
** 9.71km away. Facility ID=33339 Name=Tumbling Dice 2 State Com No 1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1528, -103.4467, WGS84
** Total Particulate Matter (10 microns or less) emissions=.6tons/year
*****************Facility sources: ****************************
** NMED source ID=33339AREA1 Facility's ID=HAUL
** Description=Haul Road Emissions Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5953hr/yr, 21hr/day
SO LOCATION 33339A1 VOLUME 646481.489 3558429.535 0
SO SRCPARAM 33339A1 .0163797 1 .47 .93
** NMED source ID=33339EQPT4 Facility's ID=HTR-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5267hr/yr, 21hr/day
SO LOCATION 33339E4 VOLUME 646489.025 3558436.556 0
SO SRCPARAM 33339E4 .0005796 4.57 .47 .93
**********END OF 33339: Tumbling Dice 2 State Com No 1H
INFO**********************************
************************************************************
** 9.76km away. Facility ID=39528 Name=Devon- Danger Noodle 29 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.271288, -103.598597, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.18tons/year
*****************Facility sources: ****************************
** NMED source ID=39528AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=06-MAY-20
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** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528A1 VOLUME 631984.471 3571368.563 0
SO SRCPARAM 39528A1 .2784556 10 20 9.3
** NMED source ID=39528EQPT1 Facility's ID=HT-1
** Description=Heater Treater  3 MMBtu/hr Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E1 VOLUME 631992.007 3571375.584 0
SO SRCPARAM 39528E1 .0037799 9.14 .47 .93
** NMED source ID=39528EQPT2 Facility's ID=GEN-1
** Description=Generator 1 550 HP Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E2 POINT 631985.221 3571379.136 0
SO SRCPARAM 39528E2 .0100798 3.51 1005.37 77.48 .15
** NMED source ID=39528EQPT3 Facility's ID=GEN-2
** Description=Generator 2 550 HP Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E3 POINT 631977.624 3571377.044 0
SO SRCPARAM 39528E3 .0100798 3.51 1005.37 77.48 .15
** NMED source ID=39528EQPT4 Facility's ID=GEN-3
** Description=Generator 3 550 HP Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E4 POINT 631973.383 3571370.144 0
SO SRCPARAM 39528E4 .0100798 3.51 1005.37 77.48 .15
** NMED source ID=39528EQPT16 Facility's ID=HT-2
** Description=Heater Treater  3 MMBtu/hr Construction date=25-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E16 VOLUME 631975.035 3571361.99 0
SO SRCPARAM 39528E16 .0037799 9.14 .47 .93
**********END OF 39528: Devon- Danger Noodle 29 CTB 1
INFO************************************
************************************************************
** 9.78km away. Facility ID=39794 Name=Devon - Bell Lake 24 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.200308, -103.626987, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.47tons/year
*****************Facility sources: ******************************
** NMED source ID=39794AREA1 Facility's ID=ROAD-1
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** Description=Unpaved Haul Road Construction date=16-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39794A1 VOLUME 629411.071 3563465.117 0
SO SRCPARAM 39794A1 .2784556 10 20 9.3
** NMED source ID=39794EQPT3 Facility's ID=HT-1
** Description=Heater Treater Construction date=16-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39794E3 VOLUME 629418.607 3563472.138 0
SO SRCPARAM 39794E3 .0037799 9.14 .47 .93
** NMED source ID=39794EQPT13 Facility's ID=LPC 3
** Description=92 hp, GM 5.7L engine/compressor Construction date=18-FEB-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39794E13 POINT 629411.821 3563475.69 0
SO SRCPARAM 39794E13 .00252 2.68 922.04 67.27 .08
**********END OF 39794: Devon - Bell Lake 24 CTB 3
INFO**********************************
************************************************************
** 9.86km away. Facility ID=38552 Name=EOG - Caballo Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.124931, -103.550833, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.35tons/year
*****************Facility sources: ******************************
** NMED source ID=38552EQPT1 Facility's ID=ENG-2
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8227hr/yr, 23hr/day
SO LOCATION 38552E1 POINT 636702.024 3555202.991 0
SO SRCPARAM 38552E1 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38552EQPT2 Facility's ID=ENG-4
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8667hr/yr, 24hr/day
SO LOCATION 38552E2 POINT 636709.56 3555210.012 0
SO SRCPARAM 38552E2 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38552EQPT3 Facility's ID=ENG-5
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8634hr/yr, 24hr/day
SO LOCATION 38552E3 POINT 636702.774 3555213.564 0
SO SRCPARAM 38552E3 .0151198 8.53 719.26 27.43 .51
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** NMED source ID=38552EQPT4 Facility's ID=ENG-6
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38552E4 POINT 636695.177 3555211.472 0
SO SRCPARAM 38552E4 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38552EQPT8 Facility's ID=Heater-1
** Description=Separator Heater Construction date=01-AUG-18
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38552E8 POINT 636690.936 3555204.572 0
SO SRCPARAM 38552E8 .0005796 7 730 28 .3
** NMED source ID=38552EQPT10 Facility's ID=ENG-3
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7494hr/yr, 21hr/day
SO LOCATION 38552E10 POINT 636692.588 3555196.418 0
SO SRCPARAM 38552E10 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38552EQPT16 Facility's ID=Reboiler-1
** Description=Reboiler Dehydrator Construction date=01-AUG-18
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38552E16 POINT 636699.537 3555191.456 0
SO SRCPARAM 38552E16 .00126 7 730 28 .3
** NMED source ID=38552EQPT17 Facility's ID=ENG-1
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38552E17 POINT 636708.22 3555192.598 0
SO SRCPARAM 38552E17 .0151198 8.53 719.26 27.43 .51
**********END OF 38552: EOG - Caballo Localized Gas Lift Station
INFO************************************
************************************************************
** 9.87km away. Facility ID=38015 Name=Devon - Thistle Unit 22 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.295333, -103.554583, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.13tons/year
*****************Facility sources: ****************************
** NMED source ID=38015AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=20-DEC-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38015A1 VOLUME 636094.17 3574089.257 0
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SO SRCPARAM 38015A1 .2784556 10 20 9.3
** NMED source ID=38015EQPT1 Facility's ID=HT-1
** Description=1.0 MMBtu/hr Heater treater Construction date=20-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38015E1 VOLUME 636101.706 3574096.278 0
SO SRCPARAM 38015E1 .00126 9.14 .47 .93
** NMED source ID=38015EQPT2 Facility's ID=HT-2
** Description=1.0 MMBtu/hr Heater treater Construction date=20-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38015E2 VOLUME 636094.92 3574099.83 0
SO SRCPARAM 38015E2 .00126 9.14 .47 .93
** NMED source ID=38015EQPT3 Facility's ID=HT-3
** Description=1.0 MMBtu/hr Heater treater Construction date=20-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38015E3 VOLUME 636087.323 3574097.738 0
SO SRCPARAM 38015E3 .00126 9.14 .47 .93
** NMED source ID=38015EQPT4 Facility's ID=HT-4
** Description=1.0 MMBtu/hr Heater treater Construction date=20-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38015E4 VOLUME 636083.082 3574090.838 0
SO SRCPARAM 38015E4 .00126 9.14 .47 .93
** NMED source ID=38015EQPT5 Facility's ID=HT-5
** Description=1.0 MMBtu/hr Heater treater Construction date=20-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38015E5 VOLUME 636084.734 3574082.684 0
SO SRCPARAM 38015E5 .00126 9.14 .47 .93
** NMED source ID=38015EQPT7 Facility's ID=LPC-1
** Description=188hp Low Pressure Compressor Engine w/NSCR catalyst Construction
date=20-DEC-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38015E7 POINT 636091.683 3574077.722 0
SO SRCPARAM 38015E7 .0037799 2.5 919.82 51.44 .1
** NMED source ID=38015EQPT8 Facility's ID=LPC-2
** Description=188hp Low Pressure Compressor Engine w/NSCR catalyst Construction
date=20-DEC-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38015E8 POINT 636100.366 3574078.864 0
SO SRCPARAM 38015E8 .0037799 2.5 919.82 51.44 .1
** NMED source ID=38015EQPT9 Facility's ID=MPC-1
** Description=188hp Mid Pressure Compressor Engine w/NSCR catalyst Construction
date=20-DEC-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38015E9 POINT 636106.076 3574085.792 0
SO SRCPARAM 38015E9 .0037799 2.5 919.82 51.44 .1
**********END OF 38015: Devon - Thistle Unit 22 CTB 2
INFO**********************************
************************************************************
** 9.89km away. Facility ID=7643 Name=Silver Train 17 Fed Com West CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.126333, -103.490483, WGS84
** Total Particulate Matter (10 microns or less) emissions=.58tons/year
*****************Facility sources: ****************************
** NMED source ID=7643EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=14-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7643E1 POINT 642393.314 3555436.607 0
SO SRCPARAM 7643E1 .0075599 4.88 1000.37 14.94 .28
** NMED source ID=7643EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=14-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7643E2 POINT 642400.85 3555443.628 0
SO SRCPARAM 7643E2 .0075599 4.57 803.71 22.07 .2
** NMED source ID=7643EQPT5 Facility's ID=Heater-1
** Description=Heater Treater Construction date=14-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7643E5 VOLUME 642394.064 3555447.18 0
SO SRCPARAM 7643E5 .00126 3.96 .47 .93
** NMED source ID=7643EQPT6 Facility's ID=Heater-2
** Description=Heater Treater Construction date=14-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7643E6 VOLUME 642386.467 3555445.088 0
SO SRCPARAM 7643E6 .00126 5.18 .47 .93
**********END OF 7643: Silver Train 17 Fed Com West CTB
INFO**********************************
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** 9.97km away. Facility ID=40980 Name=Supreme Federal 21M CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9905 NOI
** lat,long,datum=32.285524, -103.581822, WGS84
** Total Particulate Matter (10 microns or less) emissions=.14tons/year
*****************Facility sources: ******************************
** NMED source ID=40980AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=28-MAR-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40980A1 VOLUME 633543.617 3572967.557 0
SO SRCPARAM 40980A1 .0005796 1 .47 .93
** NMED source ID=40980EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=28-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40980E1 POINT 633551.153 3572974.578 0
SO SRCPARAM 40980E1 .00252 3.66 874.82 17.89 .15
** NMED source ID=40980EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=28-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40980E4 VOLUME 633544.367 3572978.13 0
SO SRCPARAM 40980E4 .00126 6.71 .47 .93
**********END OF 40980: Supreme Federal 21M CTB
INFO**********************************
************************************************************
** 9.98km away. Facility ID=40084 Name=EOG - Streetcar Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1284, -103.5662, WGS84
** Total Particulate Matter (10 microns or less) emissions=6.85tons/year
*****************Facility sources: ******************************
** NMED source ID=40084EQPT9 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler, 2.0 MMBtu/hr Construction date=23-JUL-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E9 POINT 635247.18 3555568.165 0
SO SRCPARAM 40084E9 .00252 3.96 588.71 5.3 .3
** NMED source ID=40084EQPT10 Facility's ID=Heater-1
** Description=Seperator heater, 0.75 MMBtu/hr Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E10 VOLUME 635254.716 3555575.186 0
SO SRCPARAM 40084E10 .00126 3.96 .47 .93
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** NMED source ID=40084EQPT11 Facility's ID=ENG-1
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E11 POINT 635247.93 3555578.738 0
SO SRCPARAM 40084E11 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT12 Facility's ID=ENG-2
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E12 POINT 635240.333 3555576.646 0
SO SRCPARAM 40084E12 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT13 Facility's ID=ENG-3
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E13 POINT 635236.092 3555569.746 0
SO SRCPARAM 40084E13 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT14 Facility's ID=ENG-4
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E14 POINT 635237.744 3555561.592 0
SO SRCPARAM 40084E14 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT15 Facility's ID=ENG-5
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E15 POINT 635244.693 3555556.63 0
SO SRCPARAM 40084E15 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT16 Facility's ID=ENG-6
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E16 POINT 635253.376 3555557.772 0
SO SRCPARAM 40084E16 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT17 Facility's ID=ENG-7
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E17 POINT 635259.086 3555564.7 0
SO SRCPARAM 40084E17 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT18 Facility's ID=ENG-8
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** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E18 POINT 635258.521 3555573.881 0
SO SRCPARAM 40084E18 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT19 Facility's ID=ENG-9
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E19 POINT 635251.686 3555580.359 0
SO SRCPARAM 40084E19 .0214197 6.1 712.59 46.02 .46
**********END OF 40084: EOG - Streetcar Compressor Station
INFO**********************************
************************************************************
** 10.02km away. Facility ID=38711 Name=Devon - Flagler 8 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.140547, -103.590822, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.1tons/year
*****************Facility sources: ******************************
** NMED source ID=38711AREA1 Facility's ID=ROAD-1
** Description=Haul roads Construction date=29-NOV-18
** SCC=31000299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38711A1 VOLUME 632906.814 3556884.122 0
SO SRCPARAM 38711A1 .3275948 10 30 9.3
**********END OF 38711: Devon - Flagler 8 CTB 3
INFO**********************************
************************************************************
** 10.02km away. Facility ID=39368 Name=EOG- Caballo Sec 23 Tank Battery
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.122, -103.5429, WGS84
** Total Particulate Matter (10 microns or less) emissions=.88tons/year
*****************Facility sources: ******************************
** NMED source ID=39368AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=06-FEB-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
SO LOCATION 39368A1 VOLUME 637454.82 3554888.155 0
SO SRCPARAM 39368A1 .0579591 1 .47 .93
** NMED source ID=39368EQPT1 Facility's ID=HT-1
** Description=Heater Construction date=06-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
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SO LOCATION 39368E1 POINT 637462.356 3554895.176 0
SO SRCPARAM 39368E1 .0005796 3.96 588.71 2.26 .3
** NMED source ID=39368EQPT2 Facility's ID=HT-2
** Description=Heater Construction date=06-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
SO LOCATION 39368E2 POINT 637455.57 3554898.728 0
SO SRCPARAM 39368E2 .0005796 3.96 588.71 2.26 .3
** NMED source ID=39368EQPT3 Facility's ID=HT-3
** Description=Heater Construction date=06-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
SO LOCATION 39368E3 POINT 637447.973 3554896.636 0
SO SRCPARAM 39368E3 .0005796 3.96 588.71 2.26 .3
** NMED source ID=39368EQPT4 Facility's ID=HT-4
** Description=Heater Construction date=06-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
SO LOCATION 39368E4 POINT 637443.732 3554889.736 0
SO SRCPARAM 39368E4 .0005796 3.96 588.71 2.26 .3
** NMED source ID=39368EQPT5 Facility's ID=HT-5
** Description=Heater Construction date=06-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
SO LOCATION 39368E5 POINT 637445.384 3554881.582 0
SO SRCPARAM 39368E5 .0005796 3.96 588.71 2.26 .3
** NMED source ID=39368EQPT6 Facility's ID=HT-6
** Description=Heater Construction date=06-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
SO LOCATION 39368E6 POINT 637452.333 3554876.62 0
SO SRCPARAM 39368E6 .0005796 3.96 588.71 2.26 .3
** NMED source ID=39368EQPT7 Facility's ID=HT-7
** Description=Heater Construction date=06-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
SO LOCATION 39368E7 POINT 637461.016 3554877.762 0
SO SRCPARAM 39368E7 .0005796 3.96 588.71 2.26 .3
**********END OF 39368: EOG- Caballo Sec 23 Tank Battery
INFO************************************
************************************************************
** 10.03km away. Facility ID=6434 Name=Shurvesa Booster Station
** Company ID=14250 Name=ETP Crude LLC
** SIC=4612 NAIC=48611    Permit=10026 NOI
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** lat,long,datum=32.24171, -103.623783, NAD83
** Total Particulate Matter (10 microns or less) emissions=.48tons/year
*****************Facility sources: ****************************
** NMED source ID=6434EQPT2 Facility's ID=GEN-1
** Description=Diesel generator Construction date=07-DEC-23
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6434E2 POINT 629654.292 3568058.814 0
SO SRCPARAM 6434E2 .0050399 2.87 705.37 34.5 .25
** NMED source ID=6434EQPT3 Facility's ID=GEN-2
** Description=Diesel generator Construction date=07-DEC-23
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6434E3 POINT 629661.828 3568065.835 0
SO SRCPARAM 6434E3 .0050399 2.87 705.37 34.5 .25
** NMED source ID=6434EQPT4 Facility's ID=GEN-3
** Description=Diesel generator Construction date=07-DEC-23
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6434E4 POINT 629655.042 3568069.387 0
SO SRCPARAM 6434E4 .0050399 2.87 705.37 34.5 .25
**********END OF 6434: Shurvesa Booster Station
INFO************************************
************************************************************
** 10.04km away. Facility ID=39298 Name=Dos Equis 12-13 Fed 5H 6H 73H 86H Facility
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.23617, -103.62615, WGS84
** Total Particulate Matter (10 microns or less) emissions=1tons/year
*****************Facility sources: ****************************
** NMED source ID=39298AREA1 Facility's ID=HR
** Description=Haul Road Construction date=15-MAR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298A1 VOLUME 629439.134 3567441.791 0
SO SRCPARAM 39298A1 .1159182 10 10 9.3
** NMED source ID=39298EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=14-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E1 VOLUME 629446.67 3567448.812 0
SO SRCPARAM 39298E1 .00126 4.57 .47 .93
** NMED source ID=39298EQPT2 Facility's ID=HTR-2
** Description=Heater Treater Construction date=14-JAN-20
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E2 VOLUME 629439.884 3567452.364 0
SO SRCPARAM 39298E2 .00126 4.57 .47 .93
** NMED source ID=39298EQPT5 Facility's ID=Flare 1
** Description=Flare Construction date=14-JAN-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E5 POINT 629432.287 3567450.272 0
SO SRCPARAM 39298E5 .0037799 12.19 1273 20 .53
** NMED source ID=39298EQPT6 Facility's ID=Flare 2
** Description=High Pressure Flare Construction date=14-JAN-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E6 POINT 629428.046 3567443.372 0
SO SRCPARAM 39298E6 .0002898 15.24 1273 20 20.806
** NMED source ID=39298EQPT13 Facility's ID=Flare 1 SSM
** Description=Flare Construction date=06-APR-20
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E13 POINT 629429.698 3567435.218 0
SO SRCPARAM 39298E13 .0074843 12.19 1273 20 .53
** NMED source ID=39298EQPT14 Facility's ID=Flare 2 SSM
** Description=High Pressure Flare Construction date=06-APR-20
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E14 POINT 629436.647 3567430.256 0
SO SRCPARAM 39298E14 .0048887 15.24 1273 20 2.632
**********END OF 39298: Dos Equis 12-13 Fed 5H 6H 73H 86H Facility
INFO**********************************
************************************************************
** 10.06km away. Facility ID=38670 Name=Thistle Unit 22 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=8043 NOI
** lat,long,datum=32.296528, -103.556944, NAD83
** Total Particulate Matter (10 microns or less) emissions=.5tons/year
*****************Facility sources: ****************************
** NMED source ID=38670EQPT1 Facility's ID=Engine_6370
** Description=Engine_EQ000246370 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7584hr/yr, 24hr/day
SO LOCATION 38670E1 POINT 635870.065 3574218.744 0
SO SRCPARAM 38670E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=38670EQPT2 Facility's ID=ENG 3
** Description=Engine 3 Construction date=24-JUN-22
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38670E2 POINT 635877.601 3574225.765 0
SO SRCPARAM 38670E2 .0075599 5.85 772.59 31.91 .27
**********END OF 38670: Thistle Unit 22 Wellpad 2
INFO**********************************
************************************************************
** 10.07km away. Facility ID=36055 Name=Thistle Unit 22 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6532 NOI
** lat,long,datum=32.295608, -103.560217, NAD83
** Total Particulate Matter (10 microns or less) emissions=.21tons/year
*****************Facility sources: ****************************
** NMED source ID=36055AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 36055A1 VOLUME 635563.239 3574112.606 0
SO SRCPARAM 36055A1 .2784556 10 20 9.3
** NMED source ID=36055EQPT6 Facility's ID=HT-1
** Description=Heater_EQ000061302 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36055E6 VOLUME 635570.775 3574119.627 0
SO SRCPARAM 36055E6 .0005796 9.14 .47 .93
** NMED source ID=36055EQPT14 Facility's ID=HT-2
** Description=Heater_EQ000061108 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36055E14 VOLUME 635563.989 3574123.179 0
SO SRCPARAM 36055E14 .0005796 9.14 .47 .93
**********END OF 36055: Thistle Unit 22 CTB 1
INFO**********************************
************************************************************
** 10.1km away. Facility ID=35592 Name=Brininstool Compressor Station
** Company ID=265 Name=Targa Midstream Services LLC
** SIC=1311 NAIC=21112    Permit=6317 Title V
** lat,long,datum=32.300228, -103.540425, WGS84
** Total Particulate Matter (10 microns or less) emissions=12.48tons/year
*****************Facility sources: ****************************
** NMED source ID=35592EQPT30 Facility's ID=C-09
** Description=1478 hp Waukesha RICE 4SRB Construction date=03-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8193hr/yr, 22hr/day
SO LOCATION 35592E30 POINT 637419.961 3574649.994 0
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SO SRCPARAM 35592E30 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT31 Facility's ID=C-10
** Description=1478 hp Waukesha RICE 4SRB Construction date=03-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8299hr/yr, 23hr/day
SO LOCATION 35592E31 POINT 637427.497 3574657.015 0
SO SRCPARAM 35592E31 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT32 Facility's ID=C-02a
** Description=1478 hp Waukesha RICE 4SRB Construction date=10-JUL-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8246hr/yr, 23hr/day
SO LOCATION 35592E32 POINT 637420.711 3574660.567 0
SO SRCPARAM 35592E32 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT33 Facility's ID=C-01a
** Description=1478 hp Waukesha RICE 4SRB Construction date=16-NOV-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8207hr/yr, 22hr/day
SO LOCATION 35592E33 POINT 637413.114 3574658.475 0
SO SRCPARAM 35592E33 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT34 Facility's ID=C-08a
** Description=1478 hp Waukesha RICE 4SRB Construction date=25-FEB-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8162hr/yr, 22hr/day
SO LOCATION 35592E34 POINT 637408.873 3574651.575 0
SO SRCPARAM 35592E34 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT35 Facility's ID=C-13
** Description=1478 hp Waukesha RICE 4SRB Construction date=18-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E35 POINT 637410.525 3574643.421 0
SO SRCPARAM 35592E35 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT39 Facility's ID=C-11
** Description=1875 hp Waukesha RICE 4SLB Construction date=18-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4321hr/yr, 12hr/day
SO LOCATION 35592E39 POINT 637417.474 3574638.459 0
SO SRCPARAM 35592E39 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT40 Facility's ID=C-12
** Description=1875 hp Waukesha RICE 4SLB Construction date=18-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E40 POINT 637426.157 3574639.601 0
SO SRCPARAM 35592E40 .0277196 12.19 880.93 63.98 .3
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** NMED source ID=35592EQPT41 Facility's ID=C-07a
** Description=1478 hp Waukesha RICE 4SRB Construction date=29-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E41 POINT 637431.867 3574646.529 0
SO SRCPARAM 35592E41 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT42 Facility's ID=C-03
** Description=1478 hp Waukesha RICE 4SRB Construction date=06-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E42 POINT 637431.302 3574655.71 0
SO SRCPARAM 35592E42 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT43 Facility's ID=C-05a
** Description=1478 hp Waukesha RICE 4SRB Construction date=13-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E43 POINT 637424.467 3574662.188 0
SO SRCPARAM 35592E43 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT45 Facility's ID=C-04
** Description=1478 hp Waukesha RICE 4SRB Construction date=12-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E45 POINT 637414.831 3574662.265 0
SO SRCPARAM 35592E45 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT46 Facility's ID=C-06
** Description=1478 hp Waukesha RICE 4SRB Construction date=01-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E46 POINT 637407.57 3574655.599 0
SO SRCPARAM 35592E46 .0277196 12.19 880.93 63.98 .3
**********END OF 35592: Brininstool Compressor Station
INFO**********************************
************************************************************
** 10.16km away. Facility ID=33093 Name=Double X 25 Federal 4H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=5340 NOI
** lat,long,datum=32.195019, -103.630211, NAD83
** Total Particulate Matter (10 microns or less) emissions=.75tons/year
*****************Facility sources: ****************************
** NMED source ID=33093EQPT5 Facility's ID=H1
** Description=Heater 0.5 MMBTU/h Construction date=24-SEP-14
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6338hr/yr, 17hr/day
SO LOCATION 33093E5 POINT 629114.644 3562874.903 0
```

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SO SRCPARAM 33093E5 .0005796 4.57 810.93 5.26 .15
** NMED source ID=33093EQPT19 Facility's ID=Flare 1 Normal
** Description=Flare (Normal) Construction date=26-JAN-16
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6338hr/yr, 17hr/day
SO LOCATION 33093E19 POINT 629122.18 3562881.924 0
SO SRCPARAM 33093E19 .0002898 8.23 1273 20 20.806
** NMED source ID=33093EQPT23 Facility's ID=ENG 1
** Description=Compressor Engine Construction date=13-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33093E23 POINT 629115.394 3562885.476 0
SO SRCPARAM 33093E23 .0176397 4.57 1014.82 253.53 .15
** NMED source ID=33093EQPT24 Facility's ID=ENG 2
** Description=Compressor Engine Construction date=13-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33093E24 POINT 629107.797 3562883.384 0
SO SRCPARAM 33093E24 .0037799 3.05 712.04 253.53 .15
**********END OF 33093: Double X 25 Federal 4H
INFO**********************************
************************************************************
** 10.16km away. Facility ID=40288 Name=EOG - Genie Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1266, -103.4816, WGS84
** Total Particulate Matter (10 microns or less) emissions=6.85tons/year
*****************Facility sources: ******************************
** NMED source ID=40288EQPT2 Facility's ID=ENG-1
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E2 POINT 643230.919 3555477.986 0
SO SRCPARAM 40288E2 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT3 Facility's ID=ENG-2
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E3 POINT 643238.455 3555485.007 0
SO SRCPARAM 40288E3 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT4 Facility's ID=ENG-3
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40288E4 POINT 643231.669 3555488.559 0
SO SRCPARAM 40288E4 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT5 Facility's ID=ENG-4
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E5 POINT 643224.072 3555486.467 0
SO SRCPARAM 40288E5 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT6 Facility's ID=ENG-5
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E6 POINT 643219.831 3555479.567 0
SO SRCPARAM 40288E6 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT7 Facility's ID=ENG-6
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E7 POINT 643221.483 3555471.413 0
SO SRCPARAM 40288E7 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT8 Facility's ID=ENG-7
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E8 POINT 643228.432 3555466.451 0
SO SRCPARAM 40288E8 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT9 Facility's ID=ENG-8
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E9 POINT 643237.115 3555467.593 0
SO SRCPARAM 40288E9 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT10 Facility's ID=ENG-9
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E10 POINT 643242.825 3555474.521 0
SO SRCPARAM 40288E10 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT13 Facility's ID=Heater-1
** Description=Heater Treater Construction date=23-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E13 VOLUME 643242.26 3555483.702 0
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SO SRCPARAM 40288E13 .00126 3.96 .47 .93
** NMED source ID=40288EQPT15 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler Construction date=23-DEC-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E15 POINT 643235.425 3555490.18 0
SO SRCPARAM 40288E15 .00252 3.96 588.71 5.27 .3
**********END OF 40288: EOG - Genie Compressor Station
INFO**********************************
************************************************************
** 10.21km away. Facility ID=38124 Name=Streetcar 15 Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.12386, -103.55911, WGS84
** Total Particulate Matter (10 microns or less) emissions=.64tons/year
*****************Facility sources: ******************************
** NMED source ID=38124EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38124E1 POINT 635922.758 3555073.785 0
SO SRCPARAM 38124E1 .0075599 3.96 803.71 58.52 .13
** NMED source ID=38124EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38124E2 POINT 635930.294 3555080.806 0
SO SRCPARAM 38124E2 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=38124EQPT5 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38124E5 VOLUME 635923.508 3555084.358 0
SO SRCPARAM 38124E5 .00126 4.88 .47 .93
** NMED source ID=38124EQPT19 Facility's ID=HTR-2
** Description=Heater Treater Construction date=02-NOV-17
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38124E19 VOLUME 635915.911 3555082.266 0
SO SRCPARAM 38124E19 .00126 7.32 .47 .93
** NMED source ID=38124EQPT20 Facility's ID=HTR-3
** Description=Heater Treater Construction date=16-JAN-24
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38124E20 VOLUME 635911.67 3555075.366 0
SO SRCPARAM 38124E20 .00126 4.88 .47 .93
**********END OF 38124: Streetcar 15 Fed CTB
INFO**********************************
************************************************************
** 10.22km away. Facility ID=41024 Name=North Thistle 15 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9944 NOI
** lat,long,datum=32.298772, -103.55388, NAD83
** Total Particulate Matter (10 microns or less) emissions=.63tons/year
*****************Facility sources: ******************************
** NMED source ID=41024EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=07-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41024E1 POINT 636155.225 3574471.407 0
SO SRCPARAM 41024E1 .0075599 4.39 778.71 13.8 .26
** NMED source ID=41024EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=07-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41024E2 POINT 636162.761 3574478.428 0
SO SRCPARAM 41024E2 .0075599 4.39 778.71 13.8 .26
** NMED source ID=41024EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=07-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41024E3 POINT 636155.975 3574481.98 0
SO SRCPARAM 41024E3 .0037799 3.6 853.15 19.79 .17
**********END OF 41024: North Thistle 15 Wellpad 3
INFO**********************************
************************************************************
** 10.23km away. Facility ID=38914 Name=Oryx Delaware - Highway 128 Station
** Company ID=13566 Name=Oryx Delaware Oil Transport LLC
** SIC=4612 NAIC=48611    Permit=8259 NOI
** lat,long,datum=32.143528, -103.449564, WGS84
** Total Particulate Matter (10 microns or less) emissions=10.28tons/year
*****************Facility sources: ******************************
** NMED source ID=38914AREA1 Facility's ID=ROAD-1
** Description=0.10 round trip delivery route Construction date=01-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A1 VOLUME 646226.18 3557397.72 0
SO SRCPARAM 38914A1 .0277196 1 .47 .93
** NMED source ID=38914AREA2 Facility's ID=ROAD-2
** Description=0.11 round trip delivery route Construction date=01-AUG-19
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** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A2 VOLUME 646233.716 3557404.741 0
SO SRCPARAM 38914A2 .0327595 1 .47 .93
** NMED source ID=38914AREA3 Facility's ID=ROAD-3
** Description=0.13 round trip delivery route Construction date=01-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A3 VOLUME 646226.93 3557408.293 0
SO SRCPARAM 38914A3 .0365394 1 .47 .93
** NMED source ID=38914AREA4 Facility's ID=ROAD-4
** Description=0.15 round trip delivery route Construction date=01-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A4 VOLUME 646219.333 3557406.201 0
SO SRCPARAM 38914A4 .0415793 1 .47 .93
** NMED source ID=38914AREA5 Facility's ID=ROAD-5
** Description=0.16 round trip delivery route Construction date=01-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A5 VOLUME 646215.092 3557399.301 0
SO SRCPARAM 38914A5 .0453593 1 .47 .93
** NMED source ID=38914AREA6 Facility's ID=ROAD-6
** Description=0.18 round trip delivery route Construction date=01-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A6 VOLUME 646216.744 3557391.147 0
SO SRCPARAM 38914A6 .0503992 1 .47 .93
** NMED source ID=38914AREA7 Facility's ID=ROAD-7
** Description=0.19 round trip delivery route Construction date=01-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A7 VOLUME 646223.693 3557386.185 0
SO SRCPARAM 38914A7 .0554391 1 .47 .93
** NMED source ID=38914AREA8 Facility's ID=ROAD-8
** Description=0.21 round trip delivery route Construction date=01-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A8 VOLUME 646232.376 3557387.327 0
SO SRCPARAM 38914A8 .0592191 1 .47 .93
** NMED source ID=38914EQPT1 Facility's ID=GEN-1
** Description=PSI D146TIC 362 hp generator engine Construction date=01-AUG-19
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5856hr/yr, 24hr/day
SO LOCATION 38914E1 POINT 646238.086 3557394.255 0
SO SRCPARAM 38914E1 .0037799 3 1005.37 50.29 .09
** NMED source ID=38914EQPT2 Facility's ID=GEN-2
** Description=PSI D146TIC 362 hp generator engine Construction date=01-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5856hr/yr, 24hr/day
SO LOCATION 38914E2 POINT 646237.521 3557403.436 0
SO SRCPARAM 38914E2 .0037799 3 1005.37 50.29 .09
** NMED source ID=38914EQPT3 Facility's ID=GEN-3
** Description=PSI D146TIC 362 hp generator engine Construction date=01-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5856hr/yr, 24hr/day
SO LOCATION 38914E3 POINT 646230.686 3557409.914 0
SO SRCPARAM 38914E3 .0037799 3 1005.37 50.29 .09
** NMED source ID=38914EQPT4 Facility's ID=GEN-4
** Description=PSI D146TIC 362 hp generator engine Construction date=01-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5856hr/yr, 24hr/day
SO LOCATION 38914E4 POINT 646221.05 3557409.991 0
SO SRCPARAM 38914E4 .0037799 3 1005.37 50.29 .09
**********END OF 38914: Oryx Delaware - Highway 128 Station
INFO**********************************
************************************************************
** 10.4km away. Facility ID=41032 Name=North Thistle 15 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9946 NOI
** lat,long,datum=32.298777, -103.56021, NAD83
** Total Particulate Matter (10 microns or less) emissions=.63tons/year
*****************Facility sources: ******************************
** NMED source ID=41032EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=08-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41032E1 POINT 635559.18 3574463.939 0
SO SRCPARAM 41032E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=41032EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=08-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41032E2 POINT 635566.716 3574470.96 0
SO SRCPARAM 41032E2 .0075599 4.39 778.71 13.8 .26
** NMED source ID=41032EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=08-MAY-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41032E3 POINT 635559.93 3574474.512 0
SO SRCPARAM 41032E3 .0037799 3.6 853.15 19.79 .17
**********END OF 41032: North Thistle 15 Wellpad 2
INFO**********************************
************************************************************
** 10.43km away. Facility ID=40305 Name=EOG - Driver 14 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3024, -103.5456, WGS84
** Total Particulate Matter (10 microns or less) emissions=.6tons/year
*****************Facility sources: ****************************
** NMED source ID=40305EQPT1 Facility's ID=HT-1
** Description=Heater Treater, 1.5 MMBty/hr Construction date=02-FEB-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40305E1 VOLUME 636929.419 3574884.166 0
SO SRCPARAM 40305E1 .00126 5.18 .47 .93
** NMED source ID=40305EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine, Cat G3606TALE (1875hp) Construction date=02-FEB-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40305E2 POINT 636936.955 3574891.187 0
SO SRCPARAM 40305E2 .0151198 9.14 702.04 34.59 .46
**********END OF 40305: EOG - Driver 14 Fed Com CTB
INFO**********************************
************************************************************
** 10.47km away. Facility ID=40978 Name=Calzone Federal 20 O CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9904 NOI
** lat,long,datum=32.285957, -103.590343, WGS84
** Total Particulate Matter (10 microns or less) emissions=.14tons/year
*****************Facility sources: ****************************
** NMED source ID=40978AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=08-MAR-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40978A1 VOLUME 632740.531 3573004.98 0
SO SRCPARAM 40978A1 .0005796 1 .47 .93
** NMED source ID=40978EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=20-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40978E1 POINT 632748.067 3573012.001 0
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SO SRCPARAM 40978E1 .00252 3.66 874.82 17.89 .15
** NMED source ID=40978EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=08-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40978E4 VOLUME 632741.281 3573015.553 0
SO SRCPARAM 40978E4 .00126 6.71 .47 .93
**********END OF 40978: Calzone Federal 20 O CTB
INFO************************************
************************************************************
** 10.52km away. Facility ID=40813 Name=North Thistle 15 Wellpad 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9801 NOI
** lat,long,datum=32.298695, -103.564315, NAD83
** Total Particulate Matter (10 microns or less) emissions=.59tons/year
*****************Facility sources: ****************************
** NMED source ID=40813EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=13-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40813E1 POINT 635172.773 3574449.665 0
SO SRCPARAM 40813E1 .0125998 5.85 772.59 21.02 .27
** NMED source ID=40813EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=13-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40813E2 POINT 635180.309 3574456.686 0
SO SRCPARAM 40813E2 .0037799 3.6 853.15 19.79 .17
**********END OF 40813: North Thistle 15 Wellpad 4
INFO************************************
************************************************************
** 10.56km away. Facility ID=32557 Name=Bell Lake 24 1H Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5138 NOI
** lat,long,datum=32.196442, -103.634739, NAD83
** Total Particulate Matter (10 microns or less) emissions=.4tons/year
*****************Facility sources: ****************************
** NMED source ID=32557AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32557A1 VOLUME 628685.802 3563027.227 0
SO SRCPARAM 32557A1 .2784556 10 20 9.3
** NMED source ID=32557EQPT19 Facility's ID=HT-1
** Description=Heater_EQ000151572 Construction date=01-JAN-20
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32557E19 VOLUME 628693.338 3563034.248 0
SO SRCPARAM 32557E19 .0005796 9.14 .47 .93
**********END OF 32557: Bell Lake 24 1H Battery
INFO*************************************
************************************************************
** 10.6km away. Facility ID=38860 Name=Devon - North Thistle 15 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.301106, -103.558861, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.32tons/year
*****************Facility sources: ******************************
** NMED source ID=38860AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=22-MAR-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38860A1 VOLUME 635682.732 3574723.846 0
SO SRCPARAM 38860A1 .2771956 10 20 9.3
** NMED source ID=38860EQPT13 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater treater 1 Construction date=22-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38860E13 VOLUME 635690.268 3574730.867 0
SO SRCPARAM 38860E13 .00252 9.14 .47 .93
** NMED source ID=38860EQPT14 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater treater 2 Construction date=22-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38860E14 VOLUME 635683.482 3574734.419 0
SO SRCPARAM 38860E14 .00252 9.14 .47 .93
** NMED source ID=38860EQPT15 Facility's ID=LPC-1
** Description=188 hp Cummins G855 Construction date=22-MAR-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38860E15 POINT 635675.885 3574732.327 0
SO SRCPARAM 38860E15 .0037799 2.5 949.82 64.8 .1
** NMED source ID=38860EQPT16 Facility's ID=LPC-2
** Description=188 hp Cummins G855 Construction date=22-MAR-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38860E16 POINT 635671.644 3574725.427 0
SO SRCPARAM 38860E16 .0037799 2.5 949.82 64.8 .1
** NMED source ID=38860EQPT17 Facility's ID=LPC-3
** Description=188 hp Cummins G855 Construction date=22-MAR-19
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38860E17 POINT 635673.296 3574717.273 0
SO SRCPARAM 38860E17 .0037799 2.5 949.82 64.8 .1
**********END OF 38860: Devon - North Thistle 15 CTB 2
INFO**********************************
************************************************************
** 10.66km away. Facility ID=38713 Name=Devon - Flagler 8 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.14055, -103.601158, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.1tons/year
*****************Facility sources: ****************************
** NMED source ID=38713AREA1 Facility's ID=ROAD-1
** Description=Haul roads Construction date=29-NOV-18
** SCC=31000299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38713A1 VOLUME 631931.884 3556871.742 0
SO SRCPARAM 38713A1 .3275948 10 30 9.3
**********END OF 38713: Devon - Flagler 8 CTB 1
INFO**********************************
************************************************************
** 10.71km away. Facility ID=40494 Name=Ocotillo Sunrise Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.13605, -103.45194, NAD83
** Total Particulate Matter (10 microns or less) emissions=.45tons/year
*****************Facility sources: ****************************
** NMED source ID=40494AREA1 Facility's ID=ROAD-1
** Description=HAUL ROADS Construction date=06-JUL-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40494A1 VOLUME 646013.988 3556565.465 0
SO SRCPARAM 40494A1 .2116766 10 20 9.3
** NMED source ID=40494EQPT4 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=06-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40494E4 VOLUME 646021.524 3556572.486 0
SO SRCPARAM 40494E4 .0005796 9.14 .47 .93
** NMED source ID=40494EQPT14 Facility's ID=ENG-1
** Description=VRU ENGINE Construction date=02-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2160hr/yr, 24hr/day
SO LOCATION 40494E14 POINT 646014.738 3556576.038 0
```

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SO SRCPARAM 40494E14 .00126 6.1 1005.37 8.58 .21
**********END OF 40494: Ocotillo Sunrise Tank Battery
INFO**********************************
************************************************************
** 10.71km away. Facility ID=38999 Name=EOG - Snake Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.156394, -103.617806, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.96tons/year
*****************Facility sources: ****************************
** NMED source ID=38999EQPT1 Facility's ID=ENG-1
** Description=1875 HP CAT G3606A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8291hr/yr, 23hr/day
SO LOCATION 38999E1 POINT 630339.041 3558607.916 0
SO SRCPARAM 38999E1 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38999EQPT2 Facility's ID=ENG-2
** Description=1875 HP CAT G3606A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8156hr/yr, 22hr/day
SO LOCATION 38999E2 POINT 630346.577 3558614.937 0
SO SRCPARAM 38999E2 .00126 8.53 719.26 27.43 .51
** NMED source ID=38999EQPT3 Facility's ID=ENG-3
** Description=1875 HP CAT G3606A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7625hr/yr, 21hr/day
SO LOCATION 38999E3 POINT 630339.791 3558618.489 0
SO SRCPARAM 38999E3 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38999EQPT4 Facility's ID=ENG-4
** Description=2500 HP CAT G3608A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38999E4 POINT 630332.194 3558616.397 0
SO SRCPARAM 38999E4 .0214197 8.84 718.15 26 .61
** NMED source ID=38999EQPT5 Facility's ID=ENG-5
** Description=2500 HP CAT G3608A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7080hr/yr, 24hr/day
SO LOCATION 38999E5 POINT 630327.953 3558609.497 0
SO SRCPARAM 38999E5 .0214197 8.84 256.48 26 .61
** NMED source ID=38999EQPT6 Facility's ID=ENG-6
** Description=2500 HP CAT G3608A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38999E6 POINT 630329.605 3558601.343 0
SO SRCPARAM 38999E6 .0214197 8.84 718.15 26 .61
** NMED source ID=38999EQPT12 Facility's ID=Reboiler-1
** Description=1 MMbtu/hr Dehydrator Reboiler Construction date=06-JUN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38999E12 POINT 630336.554 3558596.381 0
SO SRCPARAM 38999E12 .00126 3.96 588.71 2.62 .3
** NMED source ID=38999EQPT13 Facility's ID=Heater-1
** Description=0.5 MMbtu/hr Separator Heater Construction date=06-JUN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38999E13 POINT 630345.237 3558597.523 0
SO SRCPARAM 38999E13 .00126 3.96 588.71 1.31 .3
**********END OF 38999: EOG - Snake Localized Gas Lift Station
INFO**********************************
************************************************************
** 10.82km away. Facility ID=40433 Name=Mad Dog 26-35 Battery No1
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.281524, -103.445396, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.1tons/year
*****************Facility sources: ******************************
** NMED source ID=40433AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=17-AUG-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433A1 VOLUME 646397.99 3572702.169 0
SO SRCPARAM 40433A1 .0907186 10 10 9.3
** NMED source ID=40433EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=04-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E1 POINT 646405.526 3572709.19 0
SO SRCPARAM 40433E1 .0075599 6.17 695.37 37.61 .25
** NMED source ID=40433EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=04-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E2 POINT 646398.74 3572712.742 0
SO SRCPARAM 40433E2 .0037799 4.11 894.82 36.33 .13
** NMED source ID=40433EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=04-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E3 POINT 646391.143 3572710.65 0
SO SRCPARAM 40433E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40433EQPT9 Facility's ID=GEN-01
** Description=Generator Engine Construction date=17-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E9 POINT 646386.902 3572703.75 0
SO SRCPARAM 40433E9 .0100798 4.51 840.37 179.41 .09
** NMED source ID=40433EQPT11 Facility's ID=HT-01
** Description=Heater Treater Construction date=04-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E11 VOLUME 646388.554 3572695.596 0
SO SRCPARAM 40433E11 .00252 4.57 .47 .93
** NMED source ID=40433EQPT12 Facility's ID=HT-02
** Description=Heater Treater Construction date=04-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E12 VOLUME 646395.503 3572690.634 0
SO SRCPARAM 40433E12 .00126 4.57 .47 .93
** NMED source ID=40433EQPT13 Facility's ID=HT-03
** Description=Heater Treater Construction date=17-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E13 VOLUME 646404.186 3572691.776 0
SO SRCPARAM 40433E13 .00126 4.57 .47 .93
** NMED source ID=40433EQPT31 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=09-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E31 POINT 646409.896 3572698.704 0
SO SRCPARAM 40433E31 .0088199 4.42 989.82 70.41 .13
** NMED source ID=40433EQPT32 Facility's ID=GEN-02
** Description=Generator Engine Construction date=09-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E32 POINT 646409.331 3572707.885 0
SO SRCPARAM 40433E32 .0100798 4.51 840.37 179.41 .09
** NMED source ID=40433EQPT33 Facility's ID=GEN-03
** Description=Generator Engine Construction date=09-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40433E33 POINT 646402.496 3572714.363 0
SO SRCPARAM 40433E33 .0100798 4.51 840.37 179.41 .09
** NMED source ID=40433EQPT34 Facility's ID=HT-04
** Description=Heater Treater Construction date=09-NOV-23
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E34 POINT 646392.86 3572714.44 0
SO SRCPARAM 40433E34 .00126 4.57 533.15 3.93 .46
**********END OF 40433: Mad Dog 26-35 Battery No1
INFO**********************************
************************************************************
** 10.83km away. Facility ID=5799 Name=Queso Federal 36 J CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=10000 NOI
** lat,long,datum=32.257989, -103.624332, WGS84
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=5799AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=16-JUN-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5799A1 VOLUME 629579.439 3569862.852 0
SO SRCPARAM 5799A1 .0005796 1 .47 .93
** NMED source ID=5799EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5799E3 VOLUME 629586.975 3569869.873 0
SO SRCPARAM 5799E3 .00126 4.57 .47 .93
**********END OF 5799: Queso Federal 36 J CTB
INFO**********************************
************************************************************
** 10.86km away. Facility ID=40560 Name=Vaca 24 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.113, -103.526, WGS84
** Total Particulate Matter (10 microns or less) emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=40560EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=29-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40560E6 POINT 639062.877 3553912.1 0
SO SRCPARAM 40560E6 .00126 4.88 588.71 .21 1.22
** NMED source ID=40560EQPT7 Facility's ID=HTR-2
** Description=Heater Treater Construction date=29-AUG-22
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40560E7 POINT 639070.413 3553919.121 0
SO SRCPARAM 40560E7 .00126 6.1 588.71 .06 1.83
**********END OF 40560: Vaca 24 Fed Com CTB
INFO**********************************
************************************************************
** 10.88km away. Facility ID=39974 Name=Fernandez Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199989, -103.638718, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.94tons/year
*****************Facility sources: ****************************
** NMED source ID=39974EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E1 POINT 628305.742 3563415.69 0
SO SRCPARAM 39974E1 .0125998 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E2 POINT 628313.278 3563422.711 0
SO SRCPARAM 39974E2 .0125998 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E3 POINT 628306.492 3563426.263 0
SO SRCPARAM 39974E3 .0125998 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E4 POINT 628298.895 3563424.171 0
SO SRCPARAM 39974E4 .0125998 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT5 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E5 POINT 628294.654 3563417.271 0
SO SRCPARAM 39974E5 .0125998 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT6 Facility's ID=ENG-6
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** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E6 POINT 628296.306 3563409.117 0
SO SRCPARAM 39974E6 .0125998 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT7 Facility's ID=GEN-1
** Description=Generator Construction date=29-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E7 POINT 628303.255 3563404.155 0
SO SRCPARAM 39974E7 .0088199 3.15 1005.37 110.34 .1
**********END OF 39974: Fernandez Booster Station
INFO**********************************
************************************************************
** 10.88km away. Facility ID=39967 Name=EOG - Bronco LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1134, -103.5367, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.29tons/year
*****************Facility sources: ******************************
** NMED source ID=39967EQPT1 Facility's ID=ENG-1
** Description=4SLB, CAT G3608 2500 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E1 POINT 638052.698 3553942.684 0
SO SRCPARAM 39967E1 .0214197 6.1 688.15 25.51 .61
** NMED source ID=39967EQPT2 Facility's ID=ENG-2
** Description=4SLB, CAT G3608 2500 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E2 POINT 638060.234 3553949.705 0
SO SRCPARAM 39967E2 .0214197 6.1 688.15 25.51 .61
** NMED source ID=39967EQPT3 Facility's ID=ENG-3
** Description=4SLB, CAT G3608 2500 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E3 POINT 638053.448 3553953.257 0
SO SRCPARAM 39967E3 .0214197 6.1 688.15 25.51 .61
** NMED source ID=39967EQPT4 Facility's ID=ENG-4
** Description=4SLB, CAT G3608 2500 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E4 POINT 638045.851 3553951.165 0
SO SRCPARAM 39967E4 .0214197 6.1 688.15 25.51 .61
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** NMED source ID=39967EQPT5 Facility's ID=ENG-5
** Description=4SLB, CAT G3608 2500 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E5 POINT 638041.61 3553944.265 0
SO SRCPARAM 39967E5 .0214197 6.1 688.15 25.51 .61
** NMED source ID=39967EQPT6 Facility's ID=ENG-6
** Description=4SLB, CAT G3606 1875 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E6 POINT 638043.262 3553936.111 0
SO SRCPARAM 39967E6 .0151198 4.57 701.48 27.86 .51
** NMED source ID=39967EQPT7 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.0 MMbtu/hr Construction date=13-MAY-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E7 POINT 638050.211 3553931.149 0
SO SRCPARAM 39967E7 .00126 3.96 588.71 2.65 .3
** NMED source ID=39967EQPT8 Facility's ID=Heater-1
** Description=Separator Heater 1.5 MMbtu/hr Construction date=13-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E8 POINT 638058.894 3553932.291 0
SO SRCPARAM 39967E8 .00126 3.96 588.71 1.31 .3
**********END OF 39967: EOG - Bronco LGL Station
INFO**********************************
************************************************************
** 10.9km away. Facility ID=38864 Name=Green Drake 16 CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1263, -103.582777, WGS84
** Total Particulate Matter (10 microns or less) emissions=.11tons/year
*****************Facility sources: ****************************
** NMED source ID=38864EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=15-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38864E2 POINT 633686.431 3555314.664 0
SO SRCPARAM 38864E2 .00126 7.32 588.71 .19 1.83
** NMED source ID=38864EQPT3 Facility's ID=HTR-2
** Description=Heater Treater Construction date=15-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38864E3 POINT 633693.967 3555321.685 0
```

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SO SRCPARAM 38864E3 .00126 4.88 588.71 .21 1.22
** NMED source ID=38864EQPT17 Facility's ID=HTR-3
** Description=Heater Treater Construction date=06-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38864E17 POINT 633687.181 3555325.237 0
SO SRCPARAM 38864E17 .00126 4.88 588.71 .21 1.22
**********END OF 38864: Green Drake 16 CTB INFO************************************
************************************************************
** 10.93km away. Facility ID=5557 Name=Falcon Ridge CGL
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.247974, -103.416538, WGS84
** Total Particulate Matter (10 microns or less) emissions=5.32tons/year
*****************Facility sources: ******************************
** NMED source ID=5557ACT 1 Facility's ID=SITE-SSM
** Description=Startup, Shutdown, and Maintenance (SSM) Emissions Construction
date=10-JUL-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557@1 VOLUME 649170.751 3569022.394 0
SO SRCPARAM 5557@1 .0002898 1 .47 .93
** NMED source ID=5557EQPT3 Facility's ID=ENG-1
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E3 POINT 649178.287 3569029.415 0
SO SRCPARAM 5557E3 .0214197 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT4 Facility's ID=ENG-2
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E4 POINT 649171.501 3569032.967 0
SO SRCPARAM 5557E4 .0214197 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT5 Facility's ID=ENG-3
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E5 POINT 649163.904 3569030.875 0
SO SRCPARAM 5557E5 .0214197 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT6 Facility's ID=ENG-4
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 5557E6 POINT 649159.663 3569023.975 0
SO SRCPARAM 5557E6 .0214197 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT7 Facility's ID=ENG-5
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E7 POINT 649161.315 3569015.821 0
SO SRCPARAM 5557E7 .0214197 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT8 Facility's ID=ENG-6
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E8 POINT 649168.264 3569010.859 0
SO SRCPARAM 5557E8 .0214197 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT9 Facility's ID=ENG-7
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E9 POINT 649176.947 3569012.001 0
SO SRCPARAM 5557E9 .0214197 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT11 Facility's ID=REB-1
** Description=Dehy Reboiler Construction date=10-JUL-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E11 POINT 649182.657 3569018.929 0
SO SRCPARAM 5557E11 .00126 3.05 533.15 .16 .24
** NMED source ID=5557EQPT12 Facility's ID=REB-2
** Description=Dehy Reboiler Construction date=10-JUL-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E12 POINT 649182.092 3569028.11 0
SO SRCPARAM 5557E12 .00126 3.05 533.15 .16 .24
**********END OF 5557: Falcon Ridge CGL INFO************************************
************************************************************
** 11.05km away. Facility ID=39021 Name=Fascinator Federal Com C CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8357 NOI
** lat,long,datum=32.193844, -103.408222, WGS84
** Total Particulate Matter (10 microns or less) emissions=.51tons/year
*****************Facility sources: ******************************
** NMED source ID=39021AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=05-SEP-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39021A1 VOLUME 650043.168 3563032.862 0
SO SRCPARAM 39021A1 .0100798 1 .47 .93
** NMED source ID=39021EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39021E4 VOLUME 650050.704 3563039.883 0
SO SRCPARAM 39021E4 .00252 6.71 .47 .93
** NMED source ID=39021EQPT7 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=11-JAN-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39021E7 POINT 650043.918 3563043.435 0
SO SRCPARAM 39021E7 .00252 4.57 867.04 17.68 .15
** NMED source ID=39021EQPT8 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=18-JAN-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39021E8 POINT 650036.321 3563041.343 0
SO SRCPARAM 39021E8 .00252 4.57 867.04 17.68 .15
** NMED source ID=39021EQPT9 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=01-OCT-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39021E9 POINT 650032.08 3563034.443 0
SO SRCPARAM 39021E9 .00252 4.57 867.04 17.68 .15
** NMED source ID=39021EQPT10 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=18-JAN-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39021E10 POINT 650033.732 3563026.289 0
SO SRCPARAM 39021E10 .00252 4.57 867.04 17.68 .15
**********END OF 39021: Fascinator Federal Com C CTB
INFO**********************************
************************************************************
** 11.06km away. Facility ID=40389 Name=Jeff Hart West
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.269069, -103.428976, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.42tons/year
*****************Facility sources: ****************************
** NMED source ID=40389AREA1 Facility's ID=HR
** Description=Unpaved Roads Construction date=07-APR-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389A1 VOLUME 647964.661 3571343.875 0
SO SRCPARAM 40389A1 .2129366 10 20 9.3
** NMED source ID=40389EQPT1 Facility's ID=ENG-1
** Description=4SLB Compressor Engine Construction date=07-APR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E1 POINT 647972.197 3571350.896 0
SO SRCPARAM 40389E1 .0113398 6.1 717.04 52.12 .3
** NMED source ID=40389EQPT2 Facility's ID=ENG-2
** Description=4SRB Compressor Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E2 POINT 647965.411 3571354.448 0
SO SRCPARAM 40389E2 .00126 4.51 1005.37 21.68 .1
** NMED source ID=40389EQPT3 Facility's ID=ENG-3
** Description=4SRB Compressor Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E3 POINT 647957.814 3571352.356 0
SO SRCPARAM 40389E3 .00126 4.51 1005.37 21.68 .1
** NMED source ID=40389EQPT4 Facility's ID=ENG-4
** Description=4SRB Compressor Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E4 POINT 647953.573 3571345.456 0
SO SRCPARAM 40389E4 .00126 4.51 1005.37 21.68 .1
** NMED source ID=40389EQPT5 Facility's ID=ENG-5
** Description=4SRB Compressor Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E5 POINT 647955.225 3571337.302 0
SO SRCPARAM 40389E5 .00126 4.51 1005.37 21.68 .1
** NMED source ID=40389EQPT6 Facility's ID=ENG-6
** Description=4SRB Compressor Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E6 POINT 647962.174 3571332.34 0
SO SRCPARAM 40389E6 .00126 4.51 1005.37 21.68 .1
** NMED source ID=40389EQPT7 Facility's ID=ENG-7
** Description=4SRB Compressor Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
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SO LOCATION 40389E7 POINT 647970.857 3571333.482 0
SO SRCPARAM 40389E7 .00126 4.51 1005.37 21.68 .1
** NMED source ID=40389EQPT11 Facility's ID=GEN-1
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2856hr/yr, 24hr/day
SO LOCATION 40389E11 POINT 647976.567 3571340.41 0
SO SRCPARAM 40389E11 .0050399 6.1 1005.37 19.98 .3
** NMED source ID=40389EQPT12 Facility's ID=GEN-2
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2715hr/yr, 24hr/day
SO LOCATION 40389E12 POINT 647976.002 3571349.591 0
SO SRCPARAM 40389E12 .0050399 6.1 1005.37 19.98 .3
** NMED source ID=40389EQPT13 Facility's ID=GEN-3
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40389E13 POINT 647969.167 3571356.069 0
SO SRCPARAM 40389E13 .0050399 6.1 1005.37 19.98 .3
** NMED source ID=40389EQPT14 Facility's ID=GEN-4
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40389E14 POINT 647959.531 3571356.146 0
SO SRCPARAM 40389E14 .0050399 6.1 1005.37 19.98 .3
** NMED source ID=40389EQPT15 Facility's ID=GEN-5
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40389E15 POINT 647952.27 3571349.48 0
SO SRCPARAM 40389E15 .0050399 6.1 1005.37 19.98 .3
** NMED source ID=40389EQPT16 Facility's ID=GEN-6
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40389E16 POINT 647951.49 3571339.434 0
SO SRCPARAM 40389E16 .0050399 6.1 1005.37 19.98 .3
**********END OF 40389: Jeff Hart West INFO**********************************
************************************************************
** 11.15km away. Facility ID=39171 Name=NGL - Sidewinder Salt Water Disposal
** Company ID=13605 Name=NGL Water Solutions Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.132847, -103.449264, NAD83
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** Total Particulate Matter (10 microns or less) emissions=22.46tons/year
*****************Facility sources: ****************************
** NMED source ID=39171AREA1 Facility's ID=ROAD-1
** Description=Road Dust Construction date=03-OCT-19
** SCC=31000199
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39171A1 VOLUME 646271.53 3556214.004 0
SO SRCPARAM 39171A1 .7043288 10 60 9.3
** NMED source ID=39171EQPT1 Facility's ID=ENG 1-2
** Description=Generator Engine CAT G3516 2059-hp Construction date=03-OCT-19
** SCC=20200401
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4368hr/yr, 24hr/day
SO LOCATION 39171E1 POINT 646279.066 3556221.025 0
SO SRCPARAM 39171E1 .0768588 4.51 804.21 79.58 .3
**********END OF 39171: NGL - Sidewinder Salt Water Disposal
INFO**********************************
************************************************************
** 11.22km away. Facility ID=5857 Name=Gold Coast 26 Federal 1H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=10023 NOI
** lat,long,datum=32.182461, -103.638327, WGS84
** Total Particulate Matter (10 microns or less) emissions=.26tons/year
*****************Facility sources: ****************************
** NMED source ID=5857AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=06-JUL-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5857A1 VOLUME 628367.205 3561473.012 0
SO SRCPARAM 5857A1 .0088199 1 .47 .93
** NMED source ID=5857EQPT2 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-APR-13
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5857E2 VOLUME 628374.741 3561480.033 0
SO SRCPARAM 5857E2 .00126 6.71 .47 .93
**********END OF 5857: Gold Coast 26 Federal 1H Battery
INFO**********************************
************************************************************
** 11.23km away. Facility ID=38371 Name=Florence State 23 Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.284657, -103.443006, NAD83
** Total Particulate Matter (10 microns or less) emissions=5.77tons/year
*****************Facility sources: ****************************
** NMED source ID=38371AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=01-NOV-20
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** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38371A1 VOLUME 646618.039 3573052.774 0
SO SRCPARAM 38371A1 .2129366 10 20 9.3
** NMED source ID=38371EQPT4 Facility's ID=HT-1
** Description=0.5 MMBtu/h Heater Treater Construction date=01-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38371E4 VOLUME 646625.575 3573059.795 0
SO SRCPARAM 38371E4 .0005796 6.1 .47 .93
** NMED source ID=38371EQPT5 Facility's ID=HT-2
** Description=0.5 MMBtu/h Heater Treater Construction date=01-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38371E5 VOLUME 646618.789 3573063.347 0
SO SRCPARAM 38371E5 .0005796 6.1 .47 .93
** NMED source ID=38371EQPT22 Facility's ID=ENG-2
** Description=1380-hp Caterpillar 3516 Compressor Engine Construction
date=07-APR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E22 POINT 646611.192 3573061.255 0
SO SRCPARAM 38371E22 .0138598 6.1 717.04 52.21 .3
** NMED source ID=38371EQPT23 Facility's ID=ENG-3
** Description=1380-hp Caterpillar 3516 Compressor Engine Construction
date=07-APR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E23 POINT 646606.951 3573054.355 0
SO SRCPARAM 38371E23 .0138598 6.1 717.04 52.21 .3
** NMED source ID=38371EQPT24 Facility's ID=ENG-4
** Description=1380-hp Caterpillar 3516 Compressor Engine Construction
date=07-APR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E24 POINT 646608.603 3573046.201 0
SO SRCPARAM 38371E24 .0138598 6.1 717.04 52.21 .3
** NMED source ID=38371EQPT25 Facility's ID=ENG-5
** Description=84-hp Cummins G5.9L VRU Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3672hr/yr, 24hr/day
SO LOCATION 38371E25 POINT 646615.552 3573041.239 0
SO SRCPARAM 38371E25 .00126 4.51 1005.37 26.23 .09
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** NMED source ID=38371EQPT26 Facility's ID=ENG-6
** Description=84-hp Cummins G5.9L VRU Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E26 POINT 646624.235 3573042.381 0
SO SRCPARAM 38371E26 .00126 4.51 1005.37 26.23 .09
** NMED source ID=38371EQPT27 Facility's ID=ENG-7
** Description=84-hp Cummins G5.9L VRU Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E27 POINT 646629.945 3573049.309 0
SO SRCPARAM 38371E27 .00126 6.1 1005.37 26.23 .09
** NMED source ID=38371EQPT29 Facility's ID=GEN-1
** Description=581-hp PSI 21.9L generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3524hr/yr, 24hr/day
SO LOCATION 38371E29 POINT 646629.38 3573058.49 0
SO SRCPARAM 38371E29 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=38371EQPT30 Facility's ID=GEN-2
** Description=581-hp PSI 21.9L generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E30 POINT 646622.545 3573064.968 0
SO SRCPARAM 38371E30 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=38371EQPT31 Facility's ID=GEN-3
** Description=581-hp PSI 21.9L generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E31 POINT 646612.909 3573065.045 0
SO SRCPARAM 38371E31 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=38371EQPT33 Facility's ID=HT-3
** Description=Heater Treater Construction date=07-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E33 POINT 646605.648 3573058.379 0
SO SRCPARAM 38371E33 .00126 6.1 644.26 2.11 .2
** NMED source ID=38371EQPT35 Facility's ID=GEN-5
** Description=268-hp PSI 11.1L generator Construction date=04-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1057hr/yr, 24hr/day
SO LOCATION 38371E35 POINT 646604.868 3573048.333 0
SO SRCPARAM 38371E35 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38371EQPT36 Facility's ID=GEN-6
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** Description=268-hp PSI 11.1L generator Construction date=04-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E36 POINT 646611.286 3573040.282 0
SO SRCPARAM 38371E36 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38371EQPT37 Facility's ID=GEN-7
** Description=268-hp PSI 11.1L generator Construction date=04-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E37 POINT 646621.688 3573038.741 0
SO SRCPARAM 38371E37 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38371EQPT38 Facility's ID=GEN-8
** Description=268-hp PSI 11.1L generator Construction date=04-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E38 POINT 646630.528 3573044.833 0
SO SRCPARAM 38371E38 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38371EQPT39 Facility's ID=GEN-9
** Description=268-hp PSI 11.1L generator Construction date=04-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E39 POINT 646632.885 3573055.531 0
SO SRCPARAM 38371E39 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38371EQPT40 Facility's ID=GEN-4
** Description=236-hp PSI 8.1L generator Construction date=03-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E40 POINT 646627.201 3573065.152 0
SO SRCPARAM 38371E40 .0050399 6.1 1023.15 14.9 .21
**********END OF 38371: Florence State 23 Facility
INFO**********************************
************************************************************
** 11.29km away. Facility ID=40495 Name=Revolution Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1476, -103.6179, WGS84
** Total Particulate Matter (10 microns or less) emissions=13.62tons/year
*****************Facility sources: ****************************
** NMED source ID=40495EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=02-AUG-22
** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E2 POINT 630342.693 3557632.906 0
SO SRCPARAM 40495E2 .0239396 6.61 704.26 46.3 .46
```

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SO EMISFACT 40495E2 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40495EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=02-AUG-22
** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E3 POINT 630350.229 3557639.927 0
SO SRCPARAM 40495E3 .0239396 6.61 704.26 46.3 .46
SO EMISFACT 40495E3 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40495EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=02-AUG-22
** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E4 POINT 630343.443 3557643.479 0
SO SRCPARAM 40495E4 .0239396 6.61 704.26 46.3 .46
SO EMISFACT 40495E4 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40495EQPT8 Facility's ID=HT-1
** Description=Heater Construction date=02-AUG-22
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E8 POINT 630335.846 3557641.387 0
SO SRCPARAM 40495E8 .00252 3.96 588.71 9.08 .3
** NMED source ID=40495EQPT9 Facility's ID=REB-1
** Description=Glycol Dehydrator Reboiler Construction date=02-AUG-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E9 POINT 630331.605 3557634.487 0
SO SRCPARAM 40495E9 .00252 3.96 588.71 13.62 .3
** NMED source ID=40495EQPT10 Facility's ID=T-1
** Description=Turbine Construction date=02-AUG-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E10 POINT 630333.257 3557626.333 0
SO SRCPARAM 40495E10 .1574975 11.43 727.59 43.16 2.13
** NMED source ID=40495EQPT11 Facility's ID=T-2
** Description=Turbine Construction date=02-AUG-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E11 POINT 630340.206 3557621.371 0
SO SRCPARAM 40495E11 .1574975 11.43 727.59 43.16 2.13
**********END OF 40495: Revolution Compressor Station
INFO************************************
************************************************************
** 11.29km away. Facility ID=38450 Name=Caballo 23 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.111194, -103.547889, WGS84
** Total Particulate Matter (10 microns or less) emissions=.26tons/year
*****************Facility sources: ****************************
** NMED source ID=38450EQPT21 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=07-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38450E21 POINT 637000.286 3553683.846 0
SO SRCPARAM 38450E21 .0075599 3.96 1085.93 82.91 .13
**********END OF 38450: Caballo 23 Fed Com CTB
INFO**********************************
************************************************************
** 11.31km away. Facility ID=40244 Name=Devon - White Dove 17 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.309095, -103.494519, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.02tons/year
*****************Facility sources: ****************************
** NMED source ID=40244AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Road Construction date=12-DEC-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40244A1 VOLUME 641728.658 3575692.806 0
SO SRCPARAM 40244A1 .2784556 10 20 9.3
** NMED source ID=40244EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=10-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40244E1 VOLUME 641736.194 3575699.827 0
SO SRCPARAM 40244E1 .0037799 9.14 .47 .93
**********END OF 40244: Devon - White Dove 17 CTB 3
INFO**********************************
************************************************************
** 11.31km away. Facility ID=33461 Name=Cimarex - Triste Draw 25 Federal Com 1H 2H
7H & 5H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.26939, -103.62188, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.31tons/year
*****************Facility sources: ****************************
** NMED source ID=33461AREA1 Facility's ID=HAULROAD
** Description=Haul Roads Unpaved Construction date=03-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33461A1 VOLUME 629794.19 3571129.742 0
```

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SO SRCPARAM 33461A1 .1159182 10 10 9.3
** NMED source ID=33461EQPT14 Facility's ID=H1
** Description=2 MMbtu/h Heater Treater Construction date=23-NOV-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7878hr/yr, 22hr/day
SO LOCATION 33461E14 VOLUME 629801.726 3571136.763 0
SO SRCPARAM 33461E14 .00126 4.57 .47 .93
** NMED source ID=33461EQPT15 Facility's ID=H2
** Description=2 MMbtu/h Heater Treater Construction date=23-NOV-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7878hr/yr, 22hr/day
SO LOCATION 33461E15 VOLUME 629794.94 3571140.315 0
SO SRCPARAM 33461E15 .00126 4.57 .47 .93
** NMED source ID=33461EQPT16 Facility's ID=H3
** Description=2 MMbtu/h Heater Treater Construction date=23-NOV-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7878hr/yr, 22hr/day
SO LOCATION 33461E16 VOLUME 629787.343 3571138.223 0
SO SRCPARAM 33461E16 .00126 4.57 .47 .93
** NMED source ID=33461EQPT27 Facility's ID=H4
** Description=2 MMbtu/h Heater Treater Construction date=03-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7163hr/yr, 20hr/day
SO LOCATION 33461E27 VOLUME 629783.102 3571131.323 0
SO SRCPARAM 33461E27 .00126 4.57 .47 .93
** NMED source ID=33461EQPT33 Facility's ID=ENG-5
** Description=Compressor Engine (1380 hp) 4SLB Construction date=22-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33461E33 POINT 629784.754 3571123.169 0
SO SRCPARAM 33461E33 .0138598 6.86 724.26 52.55 .3
**********END OF 33461: Cimarex - Triste Draw 25 Federal Com 1H 2H 7H & 5H
INFO**********************************
************************************************************
** 11.32km away. Facility ID=32152 Name=Vaca 24 Fed Com 6H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1089, -103.5217, WGS84
** Total Particulate Matter (10 microns or less) emissions=.2tons/year
*****************Facility sources: ******************************
** NMED source ID=32152EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
```

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SO LOCATION 32152E2 VOLUME 639474.83 3553463.129 0
SO SRCPARAM 32152E2 .00252 4.57 .47 .93
** NMED source ID=32152EQPT14 Facility's ID=ENG-1
** Description=Gas Lift Engine Construction date=26-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32152E14 POINT 639482.366 3553470.15 0
SO SRCPARAM 32152E14 .00252 3.96 899.82 25.3 .13
**********END OF 32152: Vaca 24 Fed Com 6H INFO**********************************
************************************************************
** 11.33km away. Facility ID=36053 Name=Taipan 15-10 State Com BS CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6531 NOI
** lat,long,datum=32.309413, -103.552573, NAD83
** Total Particulate Matter (10 microns or less) emissions=.85tons/year
*****************Facility sources: ****************************
** NMED source ID=36053AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36053A1 VOLUME 636262.363 3575652.762 0
SO SRCPARAM 36053A1 1.0898827 10 90 9.3
** NMED source ID=36053EQPT10 Facility's ID=Heater_3582
** Description=Heater_EQ000173582 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36053E10 VOLUME 636269.899 3575659.783 0
SO SRCPARAM 36053E10 .0005796 9.14 .47 .93
**********END OF 36053: Taipan 15-10 State Com BS CTB
INFO**********************************
************************************************************
** 11.33km away. Facility ID=32166 Name=Vaca 24 Fed Com 4H 5H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.108772, -103.527056, WGS84
** Total Particulate Matter (10 microns or less) emissions=.42tons/year
*****************Facility sources: ****************************
** NMED source ID=32166EQPT2 Facility's ID=HTR-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6842hr/yr, 24hr/day
SO LOCATION 32166E2 VOLUME 638969.646 3553442.019 0
SO SRCPARAM 32166E2 .0005796 6.1 .47 .93
** NMED source ID=32166EQPT8 Facility's ID=ENG-1
** Description=Gas Lift Engine Construction date=16-MAY-22
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32166E8 POINT 638977.182 3553449.04 0
SO SRCPARAM 32166E8 .00252 3.96 867.04 24.38 .13
** NMED source ID=32166EQPT9 Facility's ID=ENG-2
** Description=Gas Lift Engine Construction date=16-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32166E9 POINT 638970.396 3553452.592 0
SO SRCPARAM 32166E9 .0037799 3.96 846.48 34.44 .13
** NMED source ID=32166EQPT10 Facility's ID=ENG-3
** Description=Gas Lift Engine Construction date=16-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32166E10 POINT 638962.799 3553450.5 0
SO SRCPARAM 32166E10 .0037799 3.96 846.48 34.44 .13
** NMED source ID=32166EQPT13 Facility's ID=HTR-2
** Description=Heater Construction date=16-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32166E13 VOLUME 638958.558 3553443.6 0
SO SRCPARAM 32166E13 .0005796 6.1 .47 .93
**********END OF 32166: Vaca 24 Fed Com 4H 5H
INFO**********************************
************************************************************
** 11.36km away. Facility ID=32153 Name=Vaca 24 Fed 2H-3H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.108775, -103.532739, WGS84
** Total Particulate Matter (10 microns or less) emissions=.14tons/year
*****************Facility sources: ******************************
** NMED source ID=32153EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8078hr/yr, 23hr/day
SO LOCATION 32153E2 VOLUME 638433.409 3553435.037 0
SO SRCPARAM 32153E2 .0005796 6.1 .47 .93
** NMED source ID=32153EQPT3 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8204hr/yr, 23hr/day
SO LOCATION 32153E3 VOLUME 638440.945 3553442.058 0
SO SRCPARAM 32153E3 .0005796 6.1 .47 .93
** NMED source ID=32153EQPT15 Facility's ID=ENG-1
** Description=Heater Treater Construction date=01-OCT-20
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32153E15 POINT 638434.159 3553445.61 0
SO SRCPARAM 32153E15 .00252 3.96 867.04 24.38 .13
**********END OF 32153: Vaca 24 Fed 2H-3H INFO**********************************
************************************************************
** 11.37km away. Facility ID=39462 Name=Eider Federal 23 B CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8753 NOI
** lat,long,datum=32.207931, -103.644583, WGS84
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=39462AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=26-MAY-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39462A1 VOLUME 627741.798 3564289.15 0
SO SRCPARAM 39462A1 .0008568 1 .47 .93
** NMED source ID=39462EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39462E4 VOLUME 627749.334 3564296.171 0
SO SRCPARAM 39462E4 .00126 6.71 .47 .93
**********END OF 39462: Eider Federal 23 B CTB
INFO**********************************
************************************************************
** 11.48km away. Facility ID=38889 Name=Blueberry Hill Fee 24 25 19 CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.203647, -103.402314, NAD83
** Total Particulate Matter (10 microns or less) emissions=.36tons/year
*****************Facility sources: ******************************
** NMED source ID=38889EQPT19 Facility's ID=HTR-1
** Description=Heater Treater Burner 1 Construction date=16-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38889E19 VOLUME 650583.974 3564127.931 0
SO SRCPARAM 38889E19 .00126 6.1 .47 .93
** NMED source ID=38889EQPT20 Facility's ID=HTR-2
** Description=Heater Treater Burner 2 Construction date=16-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38889E20 VOLUME 650591.51 3564134.952 0
SO SRCPARAM 38889E20 .00126 6.1 .47 .93
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** NMED source ID=38889EQPT21 Facility's ID=ENG-1
** Description=Gas Lift Compressor 1 Construction date=16-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38889E21 POINT 650584.724 3564138.504 0
SO SRCPARAM 38889E21 .00252 2.99 853.15 39.23 .12
** NMED source ID=38889EQPT23 Facility's ID=ENG-2
** Description=Gas Lift Compressor 2 Construction date=16-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38889E23 POINT 650577.127 3564136.412 0
SO SRCPARAM 38889E23 .00252 2.99 853.15 39.23 .12
** NMED source ID=38889EQPT27 Facility's ID=ENG-3
** Description=Gas Lift Compressor 3 Construction date=10-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38889E27 POINT 650572.886 3564129.512 0
SO SRCPARAM 38889E27 .00252 2.99 853.15 39.23 .12
** NMED source ID=38889EQPT28 Facility's ID=ENG-4
** Description=VRU Engine Construction date=10-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38889E28 POINT 650574.538 3564121.358 0
SO SRCPARAM 38889E28 .00126 2.99 919.82 51.45 .1
** NMED source ID=38889RPNT2 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=16-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38889R2 VOLUME 650581.487 3564116.396 0
SO SRCPARAM 38889R2 .00126 1 .47 .93
**********END OF 38889: Blueberry Hill Fee 24 25 19 CTB
INFO**********************************
************************************************************
** 11.48km away. Facility ID=38794 Name=Dogie Draw Ender Wiggins Pad
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.130389, -103.447267, NAD83
** Total Particulate Matter (10 microns or less) emissions=.4tons/year
*****************Facility sources: ****************************
** NMED source ID=38794AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=02-JAN-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38794A1 VOLUME 646463.844 3555944.218 0
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SO SRCPARAM 38794A1 .00252 1 .47 .93
** NMED source ID=38794EQPT5 Facility's ID=ENG-4
** Description=Removed-VRU Engine 2 Construction date=02-OCT-20
** SCC=20200253
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=7858hr/yr, 24hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 38794E5 POINT 646471.38 3555951.239 0
SO SRCPARAM 38794E5 -.0176397 4.52 919.82 51.45 .1
** NMED source ID=38794EQPT6 Facility's ID=HTR-02
** Description=Heater Treater 2 Construction date=22-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38794E6 VOLUME 646464.594 3555954.791 0
SO SRCPARAM 38794E6 .00126 4.57 .47 .93
** NMED source ID=38794EQPT12 Facility's ID=ENG-3
** Description=Removed-VRU Engine 1 Construction date=02-OCT-20
** SCC=20200253
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=7858hr/yr, 24hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 38794E12 POINT 646456.997 3555952.699 0
SO SRCPARAM 38794E12 -.0176397 4.52 919.82 51.45 .1
** NMED source ID=38794EQPT14 Facility's ID=HTR-01
** Description=Heater Treater 1 Construction date=22-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38794E14 VOLUME 646452.756 3555945.799 0
SO SRCPARAM 38794E14 .00126 4.57 .47 .93
** NMED source ID=38794EQPT47 Facility's ID=GEN-3
** Description=Removed-Generator Construction date=02-OCT-20
** SCC=20200253
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=7858hr/yr, 24hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 38794E47 POINT 646454.408 3555937.645 0
SO SRCPARAM 38794E47 -.0340195 3.51 744.26 144.17 .09
** NMED source ID=38794EQPT48 Facility's ID=GEN-4
** Description=Removed-Generator Construction date=02-OCT-20
** SCC=20200253
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 38794E48 POINT 646461.357 3555932.683 0
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SO SRCPARAM 38794E48 -.0340195 3.51 744.26 144.17 .09
** NMED source ID=38794EQPT63 Facility's ID=ENG-03
** Description=Gas Lift Compressor Engine 3 Construction date=17-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38794E63 POINT 646470.04 3555933.825 0
SO SRCPARAM 38794E63 .0037799 3.51 853.15 69.56 .09
** NMED source ID=38794EQPT64 Facility's ID=ENG-02
** Description=Gas Lift Compressor Engine 2 Construction date=16-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38794E64 POINT 646475.75 3555940.753 0
SO SRCPARAM 38794E64 .0037799 3.51 853.15 69.56 .09
**********END OF 38794: Dogie Draw Ender Wiggins Pad
INFO************************************
************************************************************
** 11.51km away. Facility ID=41023 Name=Eider Federal 23C CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9947 NOI
** lat,long,datum=32.207772, -103.646094, WGS84
** Total Particulate Matter (10 microns or less) emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=41023AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=13-APR-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41023A1 VOLUME 627599.603 3564269.729 0
SO SRCPARAM 41023A1 .0005796 1 .47 .93
** NMED source ID=41023EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=20-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41023E3 VOLUME 627607.139 3564276.75 0
SO SRCPARAM 41023E3 .00126 4.57 .47 .93
** NMED source ID=41023EQPT4 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=20-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41023E4 VOLUME 627600.353 3564280.302 0
SO SRCPARAM 41023E4 .00126 4.57 .47 .93
**********END OF 41023: Eider Federal 23C CTB
INFO************************************
************************************************************
** 11.68km away. Facility ID=38479 Name=EOG - Trapper Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
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** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.1074, -103.5013, WGS84
** Total Particulate Matter (10 microns or less) emissions=5tons/year
*****************Facility sources: ******************************
** NMED source ID=38479EQPT1 Facility's ID=ENG-2
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8683hr/yr, 24hr/day
SO LOCATION 38479E1 POINT 641402.035 3553323.424 0
SO SRCPARAM 38479E1 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT2 Facility's ID=ENG-4
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8692hr/yr, 24hr/day
SO LOCATION 38479E2 POINT 641409.571 3553330.445 0
SO SRCPARAM 38479E2 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT3 Facility's ID=ENG-5
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38479E3 POINT 641402.785 3553333.997 0
SO SRCPARAM 38479E3 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT4 Facility's ID=ENG-6
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38479E4 POINT 641395.188 3553331.905 0
SO SRCPARAM 38479E4 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT5 Facility's ID=ENG-7
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38479E5 POINT 641390.947 3553325.005 0
SO SRCPARAM 38479E5 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT6 Facility's ID=ENG-9
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38479E6 POINT 641392.599 3553316.851 0
SO SRCPARAM 38479E6 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT8 Facility's ID=Heater-1
** Description=Separator Heater Construction date=01-AUG-18
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38479E8 POINT 641399.548 3553311.889 0
SO SRCPARAM 38479E8 .0005796 7 730 28 .3
** NMED source ID=38479EQPT10 Facility's ID=ENG-3
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38479E10 POINT 641408.231 3553313.031 0
SO SRCPARAM 38479E10 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT11 Facility's ID=ENG-8
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38479E11 POINT 641413.941 3553319.959 0
SO SRCPARAM 38479E11 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT16 Facility's ID=Reboiler-1
** Description=Reboiler Dehydrator Construction date=01-AUG-18
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38479E16 POINT 641413.376 3553329.14 0
SO SRCPARAM 38479E16 .00126 7 730 28 .3
** NMED source ID=38479EQPT17 Facility's ID=ENG-1
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8770hr/yr, 24hr/day
SO LOCATION 38479E17 POINT 641406.541 3553335.618 0
SO SRCPARAM 38479E17 .0151198 8.53 719.26 27.43 .51
**********END OF 38479: EOG - Trapper Localized Gas Lift Station
INFO************************************
************************************************************
** 11.73km away. Facility ID=39308 Name=Icy 18 Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1358, -103.6116, WGS84
** Total Particulate Matter (10 microns or less) emissions=.36tons/year
*****************Facility sources: ******************************
** NMED source ID=39308EQPT10 Facility's ID=HTR-1
** Description=Heater, 1.5-MMBtu/hr Construction date=22-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3928hr/yr, 24hr/day
SO LOCATION 39308E10 POINT 630953.75 3556332.414 0
SO SRCPARAM 39308E10 .00126 7.32 588.71 .19 1.83
** NMED source ID=39308EQPT16 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=24-MAY-23
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39308E16 POINT 630961.286 3556339.435 0
SO SRCPARAM 39308E16 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=39308EQPT17 Facility's ID=HTR-2
** Description=Heater Treater Construction date=24-MAY-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39308E17 VOLUME 630954.5 3556342.987 0
SO SRCPARAM 39308E17 .00126 4.88 .47 .93
**********END OF 39308: Icy 18 Fed CTB INFO**********************************
************************************************************
** 11.74km away. Facility ID=39686 Name=Rojo 7811 27 Fed Com 10H Battery
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=8947 NOI
** lat,long,datum=32.108028, -103.55315, WGS84
** Total Particulate Matter (10 microns or less) emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=39686EQPT8 Facility's ID=HT-01
** Description=Heater Treater Construction date=22-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39686E8 VOLUME 636508.6 3553326.187 0
SO SRCPARAM 39686E8 .00126 7.32 .47 .93
** NMED source ID=39686EQPT9 Facility's ID=HT-02
** Description=Heater Treater Construction date=22-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39686E9 VOLUME 636516.136 3553333.208 0
SO SRCPARAM 39686E9 .00126 7.32 .47 .93
**********END OF 39686: Rojo 7811 27 Fed Com 10H Battery
INFO**********************************
************************************************************
** 11.75km away. Facility ID=37307 Name=Fascinator Fee Com 2H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7036 NOI
** lat,long,datum=32.181382, -103.403975, WGS84
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=37307AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=08-MAY-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37307A1 VOLUME 650464.047 3561657.205 0
SO SRCPARAM 37307A1 .0005796 1 .47 .93
** NMED source ID=37307EQPT4 Facility's ID=HT-01
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** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37307E4 VOLUME 650471.583 3561664.226 0
SO SRCPARAM 37307E4 .00126 6.71 .47 .93
** NMED source ID=37307EQPT6 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=08-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37307E6 VOLUME 650464.797 3561667.778 0
SO SRCPARAM 37307E6 .00126 6.71 .47 .93
**********END OF 37307: Fascinator Fee Com 2H Battery
INFO**********************************
************************************************************
** 11.75km away. Facility ID=39934 Name=Rojo 22 Fed Com 22H 25H Battery
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=9156 NOI
** lat,long,datum=32.1106, -103.5641, WGS84
** Total Particulate Matter (10 microns or less) emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=39934EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39934E3 VOLUME 635471.586 3553597.499 0
SO SRCPARAM 39934E3 .00126 7.32 .47 .93
** NMED source ID=39934EQPT4 Facility's ID=HT-02
** Description=Heater Treater Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39934E4 VOLUME 635479.122 3553604.52 0
SO SRCPARAM 39934E4 .00126 7.32 .47 .93
**********END OF 39934: Rojo 22 Fed Com 22H 25H Battery
INFO**********************************
************************************************************
** 11.79km away. Facility ID=40556 Name=Ender Wiggins 14 Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.130111, -103.442439, NAD83
** Total Particulate Matter (10 microns or less) emissions=.22tons/year
*****************Facility sources: ******************************
** NMED source ID=40556AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=06-OCT-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40556A1 VOLUME 646919.747 3555919.975 0
SO SRCPARAM 40556A1 .0151198 1 .47 .93
** NMED source ID=40556EQPT14 Facility's ID=HTR-1
** Description=1 MMBtu/h Heater Treater Construction date=06-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40556E14 VOLUME 646927.283 3555926.996 0
SO SRCPARAM 40556E14 .00126 4.88 .47 .93
** NMED source ID=40556EQPT26 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=12-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40556E26 POINT 646920.497 3555930.548 0
SO SRCPARAM 40556E26 .00252 3.51 853.15 69.56 .09
**********END OF 40556: Ender Wiggins 14 Fed Com CTB
INFO**********************************
************************************************************
** 11.87km away. Facility ID=41065 Name=Falcon Ridge CPF-OGS
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21113    Permit=9967 NOI
** lat,long,datum=32.247761, -103.405816, WGS84
** Total Particulate Matter (10 microns or less) emissions=.68tons/year
*****************Facility sources: ******************************
** NMED source ID=41065EQPT2 Facility's ID=HTR-1
** Description=Line Heater Construction date=02-MAY-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065E2 POINT 650181.286 3569013.73 0
SO SRCPARAM 41065E2 .0050399 3.05 310.93 2.24 .15
** NMED source ID=41065EQPT3 Facility's ID=HTR-2
** Description=Line Heater Construction date=02-MAY-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065E3 POINT 650188.822 3569020.751 0
SO SRCPARAM 41065E3 .0050399 3.05 310.93 2.24 .15
** NMED source ID=41065EQPT4 Facility's ID=HTR-3
** Description=Line Heater Construction date=02-MAY-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065E4 POINT 650182.036 3569024.303 0
SO SRCPARAM 41065E4 .0050399 3.05 310.93 2.24 .15
** NMED source ID=41065EQPT5 Facility's ID=HTR-4
** Description=Line Heater Construction date=02-MAY-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065E5 POINT 650174.439 3569022.211 0
SO SRCPARAM 41065E5 .0050399 3.05 310.93 2.24 .15
**********END OF 41065: Falcon Ridge CPF-OGS
INFO**********************************
************************************************************
** 11.87km away. Facility ID=39004 Name=Wild Weasel 22 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1198, -103.4578, WGS84
** Total Particulate Matter (10 microns or less) emissions=.58tons/year
*****************Facility sources: ****************************
** NMED source ID=39004EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8303hr/yr, 24hr/day
SO LOCATION 39004E6 VOLUME 645487.005 3554756.021 0
SO SRCPARAM 39004E6 .00126 4.88 .47 .93
** NMED source ID=39004EQPT7 Facility's ID=HTR-2
** Description=Heater Treater Construction date=05-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39004E7 VOLUME 645494.541 3554763.042 0
SO SRCPARAM 39004E7 .00126 4.88 .47 .93
** NMED source ID=39004EQPT18 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=08-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39004E18 POINT 645487.755 3554766.594 0
SO SRCPARAM 39004E18 .0075599 3.96 1085.93 82.3 .13
** NMED source ID=39004EQPT19 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=08-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39004E19 POINT 645480.158 3554764.502 0
SO SRCPARAM 39004E19 .0075599 3.96 1085.93 82.3 .13
**********END OF 39004: Wild Weasel 22 Fed Com CTB
INFO**********************************
************************************************************
** 11.87km away. Facility ID=39520 Name=Jeff Hart East TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.269455, -103.418749, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.76tons/year
*****************Facility sources: ****************************
** NMED source ID=39520AREA1 Facility's ID=HR-1
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** Description=Haul Roads Construction date=13-AUG-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39520A1 VOLUME 648927.351 3571400.821 0
SO SRCPARAM 39520A1 .2129366 10 20 9.3
** NMED source ID=39520EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=13-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39520E1 VOLUME 648934.887 3571407.842 0
SO SRCPARAM 39520E1 .0005796 6.1 .47 .93
** NMED source ID=39520EQPT2 Facility's ID=ENG-1
** Description=4SRB Compressor engine Construction date=13-AUG-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 21hr/day
SO LOCATION 39520E2 POINT 648928.101 3571411.394 0
SO SRCPARAM 39520E2 .00126 3.66 905.37 41.76 .1
** NMED source ID=39520EQPT3 Facility's ID=GEN-1
** Description=Generator 1 (4SRB) Construction date=13-AUG-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1654hr/yr, 24hr/day
SO LOCATION 39520E3 POINT 648920.504 3571409.302 0
SO SRCPARAM 39520E3 .0050399 6.1 1005.37 19.37 .3
** NMED source ID=39520EQPT10 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=13-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39520E10 VOLUME 648916.263 3571402.402 0
SO SRCPARAM 39520E10 .0005796 6.1 .47 .93
** NMED source ID=39520EQPT11 Facility's ID=ENG-2
** Description=4SRB Compressor Engine Construction date=13-AUG-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39520E11 POINT 648917.915 3571394.248 0
SO SRCPARAM 39520E11 .00126 4.57 880.93 56.25 .1
** NMED source ID=39520EQPT16 Facility's ID=ENG-4
** Description=4SRB Compressor Engine Construction date=06-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39520E16 POINT 648924.864 3571389.286 0
SO SRCPARAM 39520E16 .00126 4.51 1005.37 21.68 .1
** NMED source ID=39520EQPT17 Facility's ID=ENG-5
** Description=4SRB Compressor Engine Construction date=06-APR-22
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3336hr/yr, 24hr/day
SO LOCATION 39520E17 POINT 648933.547 3571390.428 0
SO SRCPARAM 39520E17 .00126 4.51 1005.37 21.68 .1
** NMED source ID=39520EQPT18 Facility's ID=ENG-6
** Description=4SRB Compressor Engine Construction date=06-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3336hr/yr, 24hr/day
SO LOCATION 39520E18 POINT 648939.257 3571397.356 0
SO SRCPARAM 39520E18 .00126 4.51 1005.37 21.68 .1
** NMED source ID=39520EQPT19 Facility's ID=GEN-2
** Description=Generator 2 (4SRB) Construction date=06-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1555hr/yr, 24hr/day
SO LOCATION 39520E19 POINT 648938.692 3571406.537 0
SO SRCPARAM 39520E19 .0050399 6.1 1005.37 19.37 .3
** NMED source ID=39520EQPT20 Facility's ID=GEN-3
** Description=Generator 3 (4SRB) Construction date=06-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39520E20 POINT 648931.857 3571413.015 0
SO SRCPARAM 39520E20 .0050399 6.1 1005.37 19.37 .3
** NMED source ID=39520EQPT33 Facility's ID=ENG-3
** Description=4SLB Compressor Engine Construction date=09-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39520E33 POINT 648922.221 3571413.092 0
SO SRCPARAM 39520E33 .0062999 6.1 772.59 28.82 .3
**********END OF 39520: Jeff Hart East TB INFO**********************************
************************************************************
** 11.89km away. Facility ID=40979 Name=Supreme Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.282387, -103.617332, WGS84
** Total Particulate Matter (10 microns or less) emissions=7.32tons/year
*****************Facility sources: ****************************
** NMED source ID=40979ACT 1 Facility's ID=HAUL
** Description=Unpaved Haul Roads Construction date=24-APR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979@1 VOLUME 630203.995 3572576.117 0
SO SRCPARAM 40979@1 .1146582 10 10 9.3
** NMED source ID=40979EQPT1 Facility's ID=C-01
** Description=Compressor Engine Construction date=24-APR-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E1 POINT 630211.531 3572583.138 0
SO SRCPARAM 40979E1 .0327595 6.71 910.37 13.2 .61
** NMED source ID=40979EQPT2 Facility's ID=C-02
** Description=Compressor Engine Construction date=24-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E2 POINT 630204.745 3572586.69 0
SO SRCPARAM 40979E2 .0327595 6.71 910.37 13.2 .61
** NMED source ID=40979EQPT3 Facility's ID=C-03
** Description=Compressor Engine Construction date=24-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E3 POINT 630197.148 3572584.598 0
SO SRCPARAM 40979E3 .0327595 6.71 910.37 13.2 .61
** NMED source ID=40979EQPT4 Facility's ID=C-04
** Description=Compressor Engine Construction date=24-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E4 POINT 630192.907 3572577.698 0
SO SRCPARAM 40979E4 .0327595 6.71 910.37 13.2 .61
** NMED source ID=40979EQPT5 Facility's ID=C-05
** Description=Compressor Engine Construction date=24-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E5 POINT 630194.559 3572569.544 0
SO SRCPARAM 40979E5 .0327595 6.71 910.37 13.2 .61
** NMED source ID=40979EQPT13 Facility's ID=GEN-1
** Description=Generator Construction date=24-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E13 POINT 630201.508 3572564.582 0
SO SRCPARAM 40979E13 .00126 1.8 922.04 21.88 .15
** NMED source ID=40979EQPT14 Facility's ID=Reb-1
** Description=Reboiler Construction date=24-APR-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E14 POINT 630210.191 3572565.724 0
SO SRCPARAM 40979E14 .00126 3.05 588.71 1.32 .61
** NMED source ID=40979EQPT30 Facility's ID=C-06
** Description=Compressor Engine Construction date=11-DEC-23
** SCC=20200254
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E30 POINT 630215.901 3572572.652 0
SO SRCPARAM 40979E30 .0176397 5.64 700.37 27.98 .51
** NMED source ID=40979EQPT31 Facility's ID=C-07
** Description=Compressor Engine Construction date=11-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E31 POINT 630215.336 3572581.833 0
SO SRCPARAM 40979E31 .0239396 5.64 708.15 37.64 .51
** NMED source ID=40979EQPT32 Facility's ID=EF-1
** Description=Enclosed Flare Construction date=11-DEC-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E32 POINT 630208.501 3572588.311 0
SO SRCPARAM 40979E32 .0176397 9.14 922.04 5.48 1.14
**********END OF 40979: Supreme Compressor Station
INFO**********************************
************************************************************
** 11.92km away. Facility ID=38762 Name=Gettysburg State Com 16C CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8118 NOI
** lat,long,datum=32.309617, -103.475833, WGS84
** Total Particulate Matter (10 microns or less) emissions=.09tons/year
*****************Facility sources: ******************************
** NMED source ID=38762AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=10-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38762A1 VOLUME 643487.146 3575775.545 0
SO SRCPARAM 38762A1 .0100798 1 .47 .93
** NMED source ID=38762EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38762E4 VOLUME 643494.682 3575782.566 0
SO SRCPARAM 38762E4 .00126 6.71 .47 .93
** NMED source ID=38762EQPT8 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=10-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38762E8 VOLUME 643487.896 3575786.118 0
SO SRCPARAM 38762E8 .00126 6.71 .47 .93
**********END OF 38762: Gettysburg State Com 16C CTB
INFO**********************************
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************************************************************
** 11.93km away. Facility ID=40155 Name=Landreth Fed Com No 1H Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=9368 NOI
** lat,long,datum=32.283754, -103.431377, NAD83
** Total Particulate Matter (10 microns or less) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=40155AREA1 Facility's ID=HR-1
** Description=Haul Roads Construction date=28-NOV-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40155A1 VOLUME 647714.693 3572968.623 0
SO SRCPARAM 40155A1 .0050399 1 .47 .93
** NMED source ID=40155EQPT2 Facility's ID=HT-1
** Description=Heater Treater Construction date=01-JAN-04
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40155E2 POINT 647722.229 3572975.644 0
SO SRCPARAM 40155E2 .0005796 6.1 644.26 3.76 .15
**********END OF 40155: Landreth Fed Com No 1H Facility
INFO**********************************
************************************************************
** 11.94km away. Facility ID=31802 Name=Black Mamba 15 State Com 2H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4860 NOI
** lat,long,datum=32.311583, -103.566639, NAD83
** Total Particulate Matter (10 microns or less) emissions=.33tons/year
*****************Facility sources: ****************************
** NMED source ID=31802AREA1 Facility's ID=HR-1
** Description=Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 31802A1 VOLUME 634934.837 3575875.536 0
SO SRCPARAM 31802A1 .2771956 10 20 9.3
** NMED source ID=31802EQPT11 Facility's ID=HT-01
** Description=Heater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8640hr/yr, 24hr/day
SO LOCATION 31802E11 VOLUME 634942.373 3575882.557 0
SO SRCPARAM 31802E11 .0005796 9.14 .47 .93
** NMED source ID=31802EQPT20 Facility's ID=HT-02
** Description=Heater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8640hr/yr, 24hr/day
SO LOCATION 31802E20 VOLUME 634935.587 3575886.109 0
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SO SRCPARAM 31802E20 .0005796 9.14 .47 .93
**********END OF 31802: Black Mamba 15 State Com 2H
INFO**********************************
************************************************************
** 12.06km away. Facility ID=35772 Name=Gettysburg 16 State 2H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6425 NOI
** lat,long,datum=32.311219, -103.47657, WGS84
** Total Particulate Matter (10 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=35772AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=29-JUN-15
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35772A1 VOLUME 643415.232 3575952.164 0
SO SRCPARAM 35772A1 .0002898 1 .47 .93
** NMED source ID=35772EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35772E4 VOLUME 643422.768 3575959.185 0
SO SRCPARAM 35772E4 .00126 4.57 .47 .93
**********END OF 35772: Gettysburg 16 State 2H Battery
INFO**********************************
************************************************************
** 12.08km away. Facility ID=642 Name=Double X Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.212, -103.6521, Unknown
** Total Particulate Matter (10 microns or less) emissions=1.63tons/year
*****************Facility sources: ****************************
** NMED source ID=642AREA1 Facility's ID=HAUL
** Description=Haul Road Emissions Construction date=03-NOV-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 642A1 VOLUME 627027.641 3564731.327 0
SO SRCPARAM 642A1 .0579591 1 .47 .93
**********END OF 642: Double X Booster Station
INFO**********************************
************************************************************
** 12.08km away. Facility ID=40217 Name=Pitchblende 29 Fed Com West CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.105, -103.4942, WGS84
** Total Particulate Matter (10 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=40217EQPT2 Facility's ID=HTR-1
```

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** Description=0.75 MMBtu/h Heater Treater Construction date=12-NOV-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40217E2 VOLUME 642075.703 3553066.696 0
SO SRCPARAM 40217E2 .00126 4.88 .47 .93
**********END OF 40217: Pitchblende 29 Fed Com West CTB
INFO**********************************
************************************************************
** 12.1km away. Facility ID=38778 Name=Dos Equis 11-14 Fed Com CTB
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.236122, -103.648758, NAD83
** Total Particulate Matter (10 microns or less) emissions=.69tons/year
*****************Facility sources: ****************************
** NMED source ID=38778AREA1 Facility's ID=HR
** Description=Haul Road Construction date=15-DEC-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38778A1 VOLUME 627308.985 3567409.443 0
SO SRCPARAM 38778A1 .1159182 10 10 9.3
** NMED source ID=38778EQPT8 Facility's ID=Flare1
** Description=Flare Construction date=11-JAN-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8488hr/yr, 23hr/day
SO LOCATION 38778E8 POINT 627316.521 3567416.464 0
SO SRCPARAM 38778E8 .0037799 12.19 1273 20 2.632
** NMED source ID=38778EQPT12 Facility's ID=Flare-SSM
** Description=Flare-SSM Construction date=15-DEC-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38778E12 POINT 627309.735 3567420.016 0
SO SRCPARAM 38778E12 .0089207 12.19 1273 20 4.652
** NMED source ID=38778EQPT13 Facility's ID=HTR-1
** Description=Heater Treater Construction date=15-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38778E13 VOLUME 627302.138 3567417.924 0
SO SRCPARAM 38778E13 .00126 4.57 .47 .93
** NMED source ID=38778EQPT14 Facility's ID=HTR-2
** Description=Heater Treater Construction date=15-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38778E14 VOLUME 627297.897 3567411.024 0
SO SRCPARAM 38778E14 .00126 4.57 .47 .93
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**********END OF 38778: Dos Equis 11-14 Fed Com CTB
INFO***********************************
************************************************************
** 12.12km away. Facility ID=8687 Name=Dogie Draw Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.130986, -103.436031, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.43tons/year
*****************Facility sources: ******************************
** NMED source ID=8687AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=18-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8687A1 VOLUME 647522.85 3556025.74 0
SO SRCPARAM 8687A1 .0188997 1 .47 .93
** NMED source ID=8687EQPT2 Facility's ID=GEN-01
** Description=Generator Engine 1 Construction date=18-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8687E2 POINT 647530.386 3556032.761 0
SO SRCPARAM 8687E2 .0113398 4.51 744.26 145.91 .09
** NMED source ID=8687EQPT3 Facility's ID=GEN-02
** Description=Generator Engine 2 Construction date=18-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8687E3 POINT 647523.6 3556036.313 0
SO SRCPARAM 8687E3 .0113398 4.51 744.26 145.91 .09
** NMED source ID=8687EQPT4 Facility's ID=GEN-03
** Description=Generator Engine 3 Construction date=18-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8687E4 POINT 647516.003 3556034.221 0
SO SRCPARAM 8687E4 .0113398 4.51 744.26 145.91 .09
** NMED source ID=8687EQPT6 Facility's ID=HTR-01
** Description=Heater Treater 1 Construction date=18-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8687E6 VOLUME 647511.762 3556027.321 0
SO SRCPARAM 8687E6 .00126 6.1 .47 .93
**********END OF 8687: Dogie Draw Fed Com CTB
INFO***********************************
************************************************************
** 12.13km away. Facility ID=39676 Name=IBEX 15-10 Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
```

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** lat,long,datum=32.299701, -103.449815, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.58tons/year
*****************Facility sources: ****************************
** NMED source ID=39676AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=02-SEP-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676A1 VOLUME 645952.672 3574711.34 0
SO SRCPARAM 39676A1 .0907186 10 10 9.3
** NMED source ID=39676EQPT1 Facility's ID=ENG-01
** Description=400 HP Compressor Engine Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676E1 POINT 645960.208 3574718.361 0
SO SRCPARAM 39676E1 .0075599 4.57 778.71 13.94 .26
** NMED source ID=39676EQPT5 Facility's ID=HT-01
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39676E5 VOLUME 645953.422 3574721.913 0
SO SRCPARAM 39676E5 .00126 4.57 .47 .93
** NMED source ID=39676EQPT6 Facility's ID=HT-02
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39676E6 VOLUME 645945.825 3574719.821 0
SO SRCPARAM 39676E6 .00126 4.57 .47 .93
** NMED source ID=39676EQPT7 Facility's ID=HT-03
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39676E7 VOLUME 645941.584 3574712.921 0
SO SRCPARAM 39676E7 .0037799 4.57 .47 .93
** NMED source ID=39676EQPT23 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=02-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676E23 POINT 645943.236 3574704.767 0
SO SRCPARAM 39676E23 .0075599 6.17 695.37 37.61 .25
** NMED source ID=39676EQPT24 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=02-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39676E24 POINT 645950.185 3574699.805 0
SO SRCPARAM 39676E24 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39676EQPT25 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=02-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676E25 POINT 645958.868 3574700.947 0
SO SRCPARAM 39676E25 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39676EQPT26 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=02-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676E26 POINT 645964.578 3574707.875 0
SO SRCPARAM 39676E26 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39676EQPT27 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=02-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676E27 POINT 645964.013 3574717.056 0
SO SRCPARAM 39676E27 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39676EQPT28 Facility's ID=ENG-07
** Description=Compressor Engine Construction date=02-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676E28 POINT 645957.178 3574723.534 0
SO SRCPARAM 39676E28 .0050399 4.11 894.82 36.52 .13
**********END OF 39676: IBEX 15-10 Battery INFO************************************
************************************************************
** 12.15km away. Facility ID=40604 Name=Green Eyeshade 12 J CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9730 NOI
** lat,long,datum=32.144218, -103.42152, WGS84
** Total Particulate Matter (10 microns or less) emissions=.14tons/year
*****************Facility sources: ******************************
** NMED source ID=40604AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=08-SEP-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40604A1 VOLUME 648870.261 3557512.654 0
SO SRCPARAM 40604A1 .0005796 1 .47 .93
** NMED source ID=40604EQPT2 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=08-SEP-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40604E2 VOLUME 648877.797 3557519.675 0
SO SRCPARAM 40604E2 .00252 6.1 .47 .93
** NMED source ID=40604EQPT3 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=08-SEP-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40604E3 VOLUME 648871.011 3557523.227 0
SO SRCPARAM 40604E3 .00252 6.1 .47 .93
**********END OF 40604: Green Eyeshade 12 J CTB
INFO**********************************
************************************************************
** 12.16km away. Facility ID=38051 Name=Triste Draw 25 West Battery
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.27169, -103.63086, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.64tons/year
*****************Facility sources: ******************************
** NMED source ID=38051AREA1 Facility's ID=HR
** Description=Unpaved Haul Road Construction date=01-NOV-17
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38051A1 VOLUME 628945.111 3571373.893 0
SO SRCPARAM 38051A1 .1159182 10 10 9.3
** NMED source ID=38051EQPT4 Facility's ID=Flare1
** Description=Flare (dual pressure) Construction date=20-SEP-17
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8700hr/yr, 24hr/day
SO LOCATION 38051E4 POINT 628952.647 3571380.914 0
SO SRCPARAM 38051E4 .00126 18.29 1273 20 20.806
** NMED source ID=38051EQPT5 Facility's ID=Flare2
** Description=High Pressure Flare-pilot Construction date=20-SEP-17
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8700hr/yr, 24hr/day
SO LOCATION 38051E5 POINT 628945.861 3571384.466 0
SO SRCPARAM 38051E5 .0002898 18.29 1273 20 20.806
** NMED source ID=38051EQPT14 Facility's ID=HTR1
** Description=Heater Treater Construction date=19-APR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8352hr/yr, 23hr/day
SO LOCATION 38051E14 VOLUME 628934.023 3571375.474 0
SO SRCPARAM 38051E14 .00126 4.57 .47 .93
** NMED source ID=38051EQPT30 Facility's ID=ENG5
** Description=Compressor Engine Construction date=16-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38051E30 POINT 628935.675 3571367.32 0
SO SRCPARAM 38051E30 .0138598 6.86 724.26 52.55 .3
** NMED source ID=38051EQPT31 Facility's ID=Flare2 SSM
** Description=High Pressure Flare-SSM Construction date=05-OCT-18
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38051E31 POINT 628942.624 3571362.358 0
SO SRCPARAM 38051E31 .0126628 18.29 1273 20 3.604
**********END OF 38051: Triste Draw 25 West Battery
INFO**********************************
************************************************************
** 12.19km away. Facility ID=40257 Name=Antelope 9 B3OB State Com #1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.312429, -103.476503, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.38tons/year
*****************Facility sources: ****************************
** NMED source ID=40257AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=26-APR-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257A1 VOLUME 643419.633 3576086.4 0
SO SRCPARAM 40257A1 .0907186 10 10 9.3
** NMED source ID=40257EQPT6 Facility's ID=HT-01
** Description=Heater Treater Construction date=29-NOV-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E6 VOLUME 643427.169 3576093.421 0
SO SRCPARAM 40257E6 .00126 4.57 .47 .93
** NMED source ID=40257EQPT7 Facility's ID=HT-02
** Description=Heater Treater Construction date=29-NOV-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E7 VOLUME 643420.383 3576096.973 0
SO SRCPARAM 40257E7 .00126 4.57 .47 .93
** NMED source ID=40257EQPT8 Facility's ID=HT-03
** Description=Heater Treater Construction date=29-NOV-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E8 VOLUME 643412.786 3576094.881 0
SO SRCPARAM 40257E8 .00126 4.57 .47 .93
** NMED source ID=40257EQPT9 Facility's ID=HT-04
** Description=Heater Treater Construction date=29-DEC-21
** SCC=31000405
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E9 VOLUME 643408.545 3576087.981 0
SO SRCPARAM 40257E9 .00252 4.57 .47 .93
** NMED source ID=40257EQPT13 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=29-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E13 POINT 643410.197 3576079.827 0
SO SRCPARAM 40257E13 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40257EQPT14 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=29-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E14 POINT 643417.146 3576074.865 0
SO SRCPARAM 40257E14 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40257EQPT15 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=29-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E15 POINT 643425.829 3576076.007 0
SO SRCPARAM 40257E15 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40257EQPT16 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=29-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E16 POINT 643431.539 3576082.935 0
SO SRCPARAM 40257E16 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40257EQPT17 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=26-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E17 POINT 643430.974 3576092.116 0
SO SRCPARAM 40257E17 .0075599 4.57 778.71 13.94 .26
** NMED source ID=40257EQPT18 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=26-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E18 POINT 643424.139 3576098.594 0
SO SRCPARAM 40257E18 .0075599 4.57 778.71 13.94 .26
**********END OF 40257: Antelope 9 B3OB State Com #1H Battery
INFO**********************************
************************************************************
** 12.2km away. Facility ID=26524 Name=Red Bull 31 State Facility
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** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21113    Permit=3589 NOI
** lat,long,datum=32.257361, -103.406778, NAD83
** Total Particulate Matter (10 microns or less) emissions=.4tons/year
*****************Facility sources: ****************************
** NMED source ID=26524AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=28-SEP-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 26524A1 VOLUME 650074.852 3570076.693 0
SO SRCPARAM 26524A1 .2784556 10 20 9.3
** NMED source ID=26524EQPT6 Facility's ID=HT-1
** Description=Heater_EQ000045691 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8184hr/yr, 24hr/day
SO LOCATION 26524E6 VOLUME 650082.388 3570083.714 0
SO SRCPARAM 26524E6 .0005796 9.14 .47 .93
** NMED source ID=26524EQPT12 Facility's ID=HT-2
** Description=Heater_EQ000045705 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8184hr/yr, 24hr/day
SO LOCATION 26524E12 VOLUME 650075.602 3570087.266 0
SO SRCPARAM 26524E12 .0005796 9.14 .47 .93
**********END OF 26524: Red Bull 31 State Facility
INFO*************************************
************************************************************
** 12.23km away. Facility ID=38827 Name=Delaware - Alamo Compressor Station
** Company ID=13452 Name=Delaware G & P, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.114519, -103.586975, NAD83
** Total Particulate Matter (10 microns or less) emissions=7.01tons/year
*****************Facility sources: ****************************
** NMED source ID=38827EQPT1 Facility's ID=E-1
** Description=Compressor Engine, Caterpillar, 2500 hp Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7409hr/yr, 24hr/day
SO LOCATION 38827E1 POINT 633307.528 3554003.427 0
SO SRCPARAM 38827E1 .0226796 7.53 718.15 104.06 .24
** NMED source ID=38827EQPT2 Facility's ID=E-2
** Description=Compressor Engine, Caterpillar, 2500 hp Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6168hr/yr, 24hr/day
SO LOCATION 38827E2 POINT 633315.064 3554010.448 0
SO SRCPARAM 38827E2 .0226796 7.53 718.15 104.06 .24
** NMED source ID=38827EQPT3 Facility's ID=E-3
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** Description=Compressor Engine, Caterpillar, 3750 hp Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6507hr/yr, 24hr/day
SO LOCATION 38827E3 POINT 633308.278 3554014 0
SO SRCPARAM 38827E3 .0340195 7.53 722.04 154.81 .24
** NMED source ID=38827EQPT4 Facility's ID=E-4
** Description=Compressor Engine, Caterpillar, 3750 hp Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7251hr/yr, 24hr/day
SO LOCATION 38827E4 POINT 633300.681 3554011.908 0
SO SRCPARAM 38827E4 .0340195 6.52 722.04 154.81 .24
** NMED source ID=38827EQPT5 Facility's ID=E-5
** Description=VRU Engine Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5270hr/yr, 24hr/day
SO LOCATION 38827E5 POINT 633296.44 3554005.008 0
SO SRCPARAM 38827E5 .00126 2.5 588.71 16.34 .09
** NMED source ID=38827EQPT6 Facility's ID=GEN-1
** Description=Generator Engine Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8607hr/yr, 24hr/day
SO LOCATION 38827E6 POINT 633298.092 3553996.854 0
SO SRCPARAM 38827E6 .0390594 3.51 1024.26 9.69 .09
** NMED source ID=38827EQPT7 Facility's ID=GEN2
** Description=Generator Engine Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=30hr/yr, 24hr/day
SO LOCATION 38827E7 POINT 633305.041 3553991.892 0
SO SRCPARAM 38827E7 .0390594 3.51 1024.26 9.69 .09
** NMED source ID=38827EQPT14 Facility's ID=E-6
** Description=Compressor Engine, Caterpillar, 2500 hp Construction date=04-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38827E14 POINT 633313.724 3553993.034 0
SO SRCPARAM 38827E14 .0226796 7.53 718.15 104.06 .24
** NMED source ID=38827EQPT15 Facility's ID=E-7
** Description=Compressor Engine, Caterpillar, 2500 hp Construction date=14-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38827E15 POINT 633319.434 3553999.962 0
SO SRCPARAM 38827E15 .0226796 7.53 718.15 104.06 .24
** NMED source ID=38827EQPT16 Facility's ID=E-8
** Description=Compressor Engine, Caterpillar, 3750 hp Construction date=14-JUL-22
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38827E16 POINT 633318.869 3554009.143 0
SO SRCPARAM 38827E16 .0340195 6.52 722.04 154.81 .24
** NMED source ID=38827RPNT4 Facility's ID=UR-01
** Description=Unpaved Road Dust Construction date=21-FEB-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38827R4 VOLUME 633312.034 3554015.621 0
SO SRCPARAM 38827R4 .1625374 10 10 9.3
**********END OF 38827: Delaware - Alamo Compressor Station
INFO**********************************
************************************************************
** 12.25km away. Facility ID=38269 Name=Fox 30 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1015, -103.5066, WGS84
** Total Particulate Matter (10 microns or less) emissions=.12tons/year
*****************Facility sources: ****************************
** NMED source ID=38269EQPT7 Facility's ID=HT-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38269E7 VOLUME 640910.994 3552662.403 0
SO SRCPARAM 38269E7 .00126 5.18 .47 .93
** NMED source ID=38269EQPT8 Facility's ID=HT-2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38269E8 VOLUME 640918.53 3552669.424 0
SO SRCPARAM 38269E8 .00126 5.18 .47 .93
**********END OF 38269: Fox 30 Fed Com CTB INFO**********************************
************************************************************
** 12.26km away. Facility ID=39922 Name=Wild Salsa CTB
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.28082, -103.624175, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.09tons/year
*****************Facility sources: ****************************
** NMED source ID=39922AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=26-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922A1 VOLUME 629561.773 3572394.11 0
SO SRCPARAM 39922A1 .1322979 10 10 9.3
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** NMED source ID=39922EQPT21 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E21 POINT 629569.309 3572401.131 0
SO SRCPARAM 39922E21 .0037799 4.57 930.37 13.77 .21
** NMED source ID=39922EQPT22 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E22 POINT 629562.523 3572404.683 0
SO SRCPARAM 39922E22 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT23 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E23 POINT 629554.926 3572402.591 0
SO SRCPARAM 39922E23 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT24 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E24 POINT 629550.685 3572395.691 0
SO SRCPARAM 39922E24 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT25 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E25 POINT 629552.337 3572387.537 0
SO SRCPARAM 39922E25 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT26 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E26 POINT 629559.286 3572382.575 0
SO SRCPARAM 39922E26 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT27 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E27 POINT 629567.969 3572383.717 0
SO SRCPARAM 39922E27 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT28 Facility's ID=ENG-8
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** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E28 POINT 629573.679 3572390.645 0
SO SRCPARAM 39922E28 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT29 Facility's ID=ENG-9
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E29 POINT 629573.114 3572399.826 0
SO SRCPARAM 39922E29 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT30 Facility's ID=ENG-10
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E30 POINT 629566.279 3572406.304 0
SO SRCPARAM 39922E30 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT31 Facility's ID=ENG-11
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E31 POINT 629556.643 3572406.381 0
SO SRCPARAM 39922E31 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT32 Facility's ID=ENG-12
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E32 POINT 629549.382 3572399.715 0
SO SRCPARAM 39922E32 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT33 Facility's ID=HT-1
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E33 VOLUME 629548.602 3572389.669 0
SO SRCPARAM 39922E33 .00126 4.57 .47 .93
** NMED source ID=39922EQPT34 Facility's ID=HT-2
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E34 VOLUME 629555.02 3572381.618 0
SO SRCPARAM 39922E34 .00126 4.57 .47 .93
** NMED source ID=39922EQPT35 Facility's ID=HT-3
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E35 VOLUME 629565.422 3572380.077 0
SO SRCPARAM 39922E35 .00126 4.57 .47 .93
** NMED source ID=39922EQPT36 Facility's ID=HT-4
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E36 VOLUME 629574.262 3572386.169 0
SO SRCPARAM 39922E36 .00126 4.57 .47 .93
** NMED source ID=39922EQPT37 Facility's ID=HT-5
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E37 VOLUME 629576.619 3572396.867 0
SO SRCPARAM 39922E37 .00126 4.57 .47 .93
** NMED source ID=39922EQPT38 Facility's ID=HT-6
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E38 VOLUME 629570.935 3572406.488 0
SO SRCPARAM 39922E38 .00126 4.57 .47 .93
** NMED source ID=39922EQPT39 Facility's ID=HT-7
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E39 VOLUME 629560.005 3572409.71 0
SO SRCPARAM 39922E39 .00126 4.57 .47 .93
** NMED source ID=39922EQPT40 Facility's ID=HT-8
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E40 VOLUME 629549.618 3572404.515 0
SO SRCPARAM 39922E40 .00126 4.57 .47 .93
** NMED source ID=39922EQPT41 Facility's ID=HT-9
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E41 VOLUME 629545.487 3572393.425 0
SO SRCPARAM 39922E41 .00126 4.57 .47 .93
** NMED source ID=39922EQPT42 Facility's ID=HT-10
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E42 VOLUME 629550.113 3572382.294 0
SO SRCPARAM 39922E42 .00126 4.57 .47 .93
** NMED source ID=39922EQPT43 Facility's ID=HT-11
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E43 VOLUME 629561.287 3572377.217 0
SO SRCPARAM 39922E43 .00126 4.57 .47 .93
** NMED source ID=39922EQPT44 Facility's ID=HT-14
** Description=Heater Treater 1 MMBtu/h Dual Burner Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E44 VOLUME 629573.13 3572381.193 0
SO SRCPARAM 39922E44 .00252 4.57 .47 .93
** NMED source ID=39922EQPT56 Facility's ID=GEN-1
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E56 POINT 629579.186 3572392.371 0
SO SRCPARAM 39922E56 .0088199 4.57 1005.37 49.01 .15
** NMED source ID=39922EQPT57 Facility's ID=GEN-2
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E57 POINT 629575.939 3572404.889 0
SO SRCPARAM 39922E57 .0088199 4.57 1005.37 49.01 .15
** NMED source ID=39922EQPT58 Facility's ID=GEN-3
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E58 POINT 629564.841 3572411.948 0
SO SRCPARAM 39922E58 .0088199 4.57 1005.37 49.01 .15
** NMED source ID=39922EQPT59 Facility's ID=GEN-4
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E59 POINT 629551.695 3572409.504 0
SO SRCPARAM 39922E59 .0062999 4.57 1005.37 36.85 .15
** NMED source ID=39922EQPT60 Facility's ID=GEN-5
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E60 POINT 629543.614 3572398.576 0
SO SRCPARAM 39922E60 .0062999 4.57 1005.37 36.85 .15
** NMED source ID=39922EQPT61 Facility's ID=GEN-6
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E61 POINT 629545.18 3572384.854 0
SO SRCPARAM 39922E61 .0062999 4.57 1005.37 36.85 .15
** NMED source ID=39922EQPT62 Facility's ID=GEN-7
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E62 POINT 629555.85 3572375.741 0
SO SRCPARAM 39922E62 .0050399 4.57 1005.37 29.21 .15
** NMED source ID=39922EQPT63 Facility's ID=HT-12
** Description=Heater Treater 0.75 MMBtu/h Construction date=26-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E63 VOLUME 629570.087 3572376.361 0
SO SRCPARAM 39922E63 .00126 4.57 .47 .93
** NMED source ID=39922EQPT64 Facility's ID=HT-13
** Description=Heater Treater 0.75 MMBtu/h Construction date=26-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E64 VOLUME 629580.233 3572386.678 0
SO SRCPARAM 39922E64 .00126 4.57 .47 .93
** NMED source ID=39922EQPT65 Facility's ID=HT-15
** Description=Heater Treater 1 MMBtu/h Dual Burner Construction date=26-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E65 VOLUME 629580.626 3572401.363 0
SO SRCPARAM 39922E65 .00252 4.57 .47 .93
**********END OF 39922: Wild Salsa CTB INFO**********************************
************************************************************
** 12.28km away. Facility ID=39183 Name=Bonaid Federal 17 D CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8501 NOI
** lat,long,datum=32.2231, -103.39438, WGS84
** Total Particulate Matter (10 microns or less) emissions=.34tons/year
*****************Facility sources: ****************************
** NMED source ID=39183EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39183E4 VOLUME 651299.623 3566295.734 0
SO SRCPARAM 39183E4 .00126 4.57 .47 .93
** NMED source ID=39183EQPT7 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=15-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39183E7 POINT 651307.159 3566302.755 0
SO SRCPARAM 39183E7 .0037799 3.66 833.15 61.72 .1
** NMED source ID=39183EQPT8 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=15-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39183E8 POINT 651300.373 3566306.307 0
SO SRCPARAM 39183E8 .0037799 3.66 833.15 61.72 .1
**********END OF 39183: Bonaid Federal 17 D CTB
INFO**********************************
************************************************************
** 12.33km away. Facility ID=38941 Name=Chevron - Cox 35 Fed 1H
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.254445, -103.644167, WGS84
** Total Particulate Matter (10 microns or less) emissions=.7tons/year
*****************Facility sources: ******************************
** NMED source ID=38941AREA1 Facility's ID=ROAD
** Description=Road Emissions Construction date=11-JUN-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38941A1 VOLUME 627715.915 3569446.187 0
SO SRCPARAM 38941A1 .0125998 1 .47 .93
** NMED source ID=38941EQPT1 Facility's ID=REB-1
** Description=0.2 MMBtu/hr TEG Reboiler Construction date=11-JUN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38941E1 POINT 627723.451 3569453.208 0
SO SRCPARAM 38941E1 .0002898 6.1 455.37 .77 .23
** NMED source ID=38941EQPT2 Facility's ID=HTR-1
** Description=0.2 MMBtu/hr heater treater Construction date=11-JUN-19
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38941E2 VOLUME 627716.665 3569456.76 0
SO SRCPARAM 38941E2 .0002898 6.1 .47 .93
** NMED source ID=38941EQPT3 Facility's ID=ENG-1
** Description=Caterpillar 3508 TALE 630 hp Construction date=11-JUN-19
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38941E3 POINT 627709.068 3569454.668 0
SO SRCPARAM 38941E3 .0062999 4.65 730.93 32 .26
** NMED source ID=38941RPNT3 Facility's ID=SITE-SSM
** Description=Startup, shutdown, maintenance Construction date=11-JUN-19
** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38941R3 VOLUME 627704.827 3569447.768 0
SO SRCPARAM 38941R3 .0002898 1 .47 .93
**********END OF 38941: Chevron - Cox 35 Fed 1H
INFO**********************************
************************************************************
** 12.43km away. Facility ID=40226 Name=EOG - Resolute 12 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1415, -103.6276, WGS84
** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=40226EQPT1 Facility's ID=HTR-1
** Description=Heater Treater 1.5 MMBtu/hr Construction date=15-NOV-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40226E1 VOLUME 629436.452 3556944.963 0
SO SRCPARAM 40226E1 .00126 6.1 .47 .93
**********END OF 40226: EOG - Resolute 12 Fed Com CTB
INFO**********************************
************************************************************
** 12.46km away. Facility ID=37933 Name=Hound 30 Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.099, -103.5129, WGS84
** Total Particulate Matter (10 microns or less) emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=37933EQPT18 Facility's ID=HTR-1
** Description=2.0 MMBTU/hr Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37933E18 VOLUME 640320.317 3552377.033 0
SO SRCPARAM 37933E18 .00252 6.1 .47 .93
**********END OF 37933: Hound 30 Fed CTB INFO**********************************
************************************************************
** 12.53km away. Facility ID=38804 Name=Eider Federal 35 CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8160 NOI
** lat,long,datum=32.168722, -103.647425, WGS84
** Total Particulate Matter (10 microns or less) emissions=.34tons/year
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**********Facility sources: ******************************
** NMED source ID=38804AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=16-FEB-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38804A1 VOLUME 627528.602 3559939.097 0
SO SRCPARAM 38804A1 .0005796 1 .47 .93
** NMED source ID=38804EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38804E4 VOLUME 627536.138 3559946.118 0
SO SRCPARAM 38804E4 .0050399 4.57 .47 .93
** NMED source ID=38804EQPT7 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=16-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38804E7 VOLUME 627529.352 3559949.67 0
SO SRCPARAM 38804E7 .0050399 4.57 .47 .93
** NMED source ID=38804EQPT8 Facility's ID=HT-03
** Description=Heater Treater Burner Construction date=16-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38804E8 VOLUME 627521.755 3559947.578 0
SO SRCPARAM 38804E8 .0005796 6.71 .47 .93
**********END OF 38804: Eider Federal 35 CTB
INFO**********************************
************************************************************
** 12.54km away. Facility ID=31476 Name=Chevron - McCloy Ranch 2-24-32 St Com 1H
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21113    Permit=4777 NOI
** lat,long,datum=32.253278, -103.6471, NAD83
** Total Particulate Matter (10 microns or less) emissions=.31tons/year
**********Facility sources: ******************************
** NMED source ID=31476EQPT1 Facility's ID=Eng-1
** Description=Caterpillar G3306TA Construction date=01-MAR-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31476E1 POINT 627441.243 3569313.326 0
SO SRCPARAM 31476E1 .0088199 6.4 864.26 10.85 .24
**********END OF 31476: Chevron - McCloy Ranch 2-24-32 St Com 1H
INFO**********************************
************************************************************
** 12.55km away. Facility ID=38867 Name=Pronghorn 15 B3DM FED COM 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
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** SIC=1311 NAIC=21112    Permit=8216 NOI
** lat,long,datum=32.311723, -103.465141, WGS84
** Total Particulate Matter (10 microns or less) emissions=.24tons/year
*****************Facility sources: ****************************
** NMED source ID=38867AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=12-JAN-24
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38867A1 VOLUME 644490.466 3576023.393 0
SO SRCPARAM 38867A1 .0907186 10 10 9.3
** NMED source ID=38867EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38867E3 VOLUME 644498.002 3576030.414 0
SO SRCPARAM 38867E3 .00126 4.57 .47 .93
** NMED source ID=38867EQPT4 Facility's ID=HT-02
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38867E4 VOLUME 644491.216 3576033.966 0
SO SRCPARAM 38867E4 .00126 4.57 .47 .93
** NMED source ID=38867EQPT21 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38867E21 POINT 644483.619 3576031.874 0
SO SRCPARAM 38867E21 .0050399 4.11 894.82 36.52 .13
**********END OF 38867: Pronghorn 15 B3DM FED COM 1H Battery
INFO**********************************
************************************************************
** 12.58km away. Facility ID=39472 Name=Ghost Rider North Satellite and Gas Lift
** Company ID=10730 Name=Apache Corporation
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.215119, -103.657383, NAD83
** Total Particulate Matter (10 microns or less) emissions=.89tons/year
*****************Facility sources: ****************************
** NMED source ID=39472AREA1 Facility's ID=HR-1
** Description=Unpaved Roadways Construction date=13-NOV-20
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472A1 VOLUME 626525.405 3565070.865 0
SO SRCPARAM 39472A1 .4498129 10 40 9.3
** NMED source ID=39472EQPT3 Facility's ID=C-1
** Description=670-hp Caterpillar G3508LE Engine Construction date=13-NOV-20
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472E3 POINT 626532.941 3565077.886 0
SO SRCPARAM 39472E3 .0075599 6.1 819.82 49.13 .23
** NMED source ID=39472EQPT6 Facility's ID=REB-1
** Description=0.30 MMBtu/h Reboiler Construction date=13-NOV-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472E6 POINT 626526.155 3565081.438 0
SO SRCPARAM 39472E6 .0002898 6.1 588.71 .45 .41
** NMED source ID=39472EQPT9 Facility's ID=AREB-1
** Description=Amine Regenerator 1 MM BTU/h Construction date=23-AUG-21
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472E9 POINT 626518.558 3565079.346 0
SO SRCPARAM 39472E9 .00126 7.62 588.71 2.7 .3
** NMED source ID=39472EQPT10 Facility's ID=AREB-2
** Description=Amine Regenerator 1 MM BTU/h Construction date=23-AUG-21
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472E10 POINT 626514.317 3565072.446 0
SO SRCPARAM 39472E10 .00126 7.62 588.71 2.7 .3
** NMED source ID=39472EQPT12 Facility's ID=C-2
** Description=1380-hp Caterpillar G3516B Engine Construction date=24-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472E12 POINT 626515.969 3565064.292 0
SO SRCPARAM 39472E12 .0138598 6.1 810.93 36.82 .38
**********END OF 39472: Ghost Rider North Satellite and Gas Lift
INFO**********************************
************************************************************
** 12.62km away. Facility ID=39451 Name=EOG - Viper Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1327, -103.6212, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.96tons/year
*****************Facility sources: ******************************
** NMED source ID=39451EQPT1 Facility's ID=ENG-1
** Description=1875 HP CAT G3606A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6936hr/yr, 24hr/day
SO LOCATION 39451E1 POINT 630052.602 3555977.117 0
SO SRCPARAM 39451E1 .0151198 8.53 701.48 27.86 .51
** NMED source ID=39451EQPT2 Facility's ID=ENG-2
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** Description=1875 HP CAT G3606A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6936hr/yr, 24hr/day
SO LOCATION 39451E2 POINT 630060.138 3555984.138 0
SO SRCPARAM 39451E2 .0151198 8.53 701.48 27.86 .51
** NMED source ID=39451EQPT3 Facility's ID=ENG-3
** Description=1875 HP CAT G3606A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2544hr/yr, 24hr/day
SO LOCATION 39451E3 POINT 630053.352 3555987.69 0
SO SRCPARAM 39451E3 .0151198 8.53 701.48 27.86 .51
** NMED source ID=39451EQPT4 Facility's ID=ENG-4
** Description=2500 HP CAT G3608A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6936hr/yr, 24hr/day
SO LOCATION 39451E4 POINT 630045.755 3555985.598 0
SO SRCPARAM 39451E4 .0214197 8.84 688.15 25.51 .61
** NMED source ID=39451EQPT5 Facility's ID=ENG-5
** Description=2500 HP CAT G3608A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2544hr/yr, 24hr/day
SO LOCATION 39451E5 POINT 630041.514 3555978.698 0
SO SRCPARAM 39451E5 .0214197 8.84 688.15 25.51 .61
** NMED source ID=39451EQPT6 Facility's ID=ENG-6
** Description=2500 HP CAT G3608A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39451E6 POINT 630043.166 3555970.544 0
SO SRCPARAM 39451E6 .0214197 8.84 688.15 25.51 .61
** NMED source ID=39451EQPT12 Facility's ID=Reboiler-1
** Description=1 MMbtu/hr Dehydrator Reboiler Construction date=03-MAR-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8064hr/yr, 24hr/day
SO LOCATION 39451E12 POINT 630050.115 3555965.582 0
SO SRCPARAM 39451E12 .00126 3.96 588.71 2.65 .3
** NMED source ID=39451EQPT13 Facility's ID=Heater-1
** Description=0.5 MMbtu/hr Separator Heater Construction date=03-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7560hr/yr, 24hr/day
SO LOCATION 39451E13 POINT 630058.798 3555966.724 0
SO SRCPARAM 39451E13 .00126 3.96 588.71 1.31 .3
**********END OF 39451: EOG - Viper Localized Gas Lift Station
INFO**********************************
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** 12.66km away. Facility ID=38806 Name=Dominator Fed 25P CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8158 NOI
** lat,long,datum=32.096842, -103.520106, WGS84
** Total Particulate Matter (10 microns or less) emissions=.1tons/year
*****************Facility sources: ****************************
** NMED source ID=38806AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=15-SEP-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38806A1 VOLUME 639643.589 3552128.438 0
SO SRCPARAM 38806A1 .0005796 1 .47 .93
** NMED source ID=38806EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38806E4 VOLUME 639651.125 3552135.459 0
SO SRCPARAM 38806E4 .00126 6.71 .47 .93
** NMED source ID=38806EQPT7 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=15-SEP-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38806E7 VOLUME 639644.339 3552139.011 0
SO SRCPARAM 38806E7 .00126 6.71 .47 .93
**********END OF 38806: Dominator Fed 25P CTB
INFO*************************************
************************************************************
** 12.68km away. Facility ID=38292 Name=Dogwood 23 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0967, -103.521389, WGS84
** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=38292EQPT15 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-MAR-18
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38292E15 VOLUME 639522.728 3552111.035 0
SO SRCPARAM 38292E15 .00126 4.88 .47 .93
**********END OF 38292: Dogwood 23 Fed Com CTB
INFO*************************************
************************************************************
** 12.71km away. Facility ID=37515 Name=Twisted Sister Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
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** lat,long,datum=32.150834, -103.638889, NAD83
** Total Particulate Matter (10 microns or less) emissions=6.42tons/year
*****************Facility sources: ****************************
** NMED source ID=37515EQPT2 Facility's ID=16-0494
** Description=Compressor Engine Cat G3606 1775HP Construction date=12-MAY-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7998hr/yr, 22hr/day
SO LOCATION 37515E2 POINT 628358.572 3557966.203 0
SO SRCPARAM 37515E2 .0176397 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT7 Facility's ID=16-0495
** Description=Compressor Engine Cat G3606 1775HP Construction date=12-MAY-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8336hr/yr, 23hr/day
SO LOCATION 37515E7 POINT 628366.108 3557973.224 0
SO SRCPARAM 37515E7 .0176397 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT8 Facility's ID=17-0584
** Description=Compressor Engine Cat G3606 1775HP Construction date=12-MAY-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8207hr/yr, 22hr/day
SO LOCATION 37515E8 POINT 628359.322 3557976.776 0
SO SRCPARAM 37515E8 .0176397 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT9 Facility's ID=ENG-4
** Description=Compressor Engine Cat. G3606 1775HP Construction date=12-MAY-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37515E9 POINT 628351.725 3557974.684 0
SO SRCPARAM 37515E9 .0176397 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT18 Facility's ID=AU-RB
** Description=Amine Reboiler 12.6 MMBTU/hr Construction date=16-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8630hr/yr, 24hr/day
SO LOCATION 37515E18 POINT 628347.484 3557967.784 0
SO SRCPARAM 37515E18 .0125998 9.14 588.71 9.91 .56
** NMED source ID=37515EQPT19 Facility's ID=Gen-1
** Description=Generator 612 HP Construction date=14-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37515E19 POINT 628349.136 3557959.63 0
SO SRCPARAM 37515E19 .0062999 4.51 1023.15 177.97 .1
** NMED source ID=37515EQPT20 Facility's ID=Gen-2
** Description=Generator 612 HP Construction date=14-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 37515E20 POINT 628356.085 3557954.668 0
SO SRCPARAM 37515E20 .0062999 4.51 1023.15 177.97 .1
** NMED source ID=37515EQPT21 Facility's ID=RBL-1
** Description=0.75 MMBTU/h Dehydrator Reboiler Construction date=13-SEP-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8630hr/yr, 24hr/day
SO LOCATION 37515E21 POINT 628364.768 3557955.81 0
SO SRCPARAM 37515E21 .00126 4.57 588.71 5.27 .3
** NMED source ID=37515EQPT22 Facility's ID=RBL-2
** Description=0.5 MMBTU/h Dehydrator Reboiler Construction date=13-SEP-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37515E22 POINT 628370.478 3557962.738 0
SO SRCPARAM 37515E22 .0005796 4.57 588.71 5.27 .3
** NMED source ID=37515EQPT25 Facility's ID=TO-1
** Description=Control Thermal Oxidizer Construction date=13-SEP-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5208hr/yr, 14hr/day
SO LOCATION 37515E25 POINT 628369.913 3557971.919 0
SO SRCPARAM 37515E25 .0932385 6.1 1033.15 12.19 .46
** NMED source ID=37515RPNT2 Facility's ID=HAUL
** Description=Haul Road Construction date=16-JAN-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37515R2 VOLUME 628363.078 3557978.397 0
SO SRCPARAM 37515R2 .0125998 1 .47 .93
**********END OF 37515: Twisted Sister Compressor Station
INFO**********************************
************************************************************
** 12.71km away. Facility ID=38851 Name=Dominator Fed 25O CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8204 NOI
** lat,long,datum=32.096411, -103.525447, WGS84
** Total Particulate Matter (10 microns or less) emissions=.16tons/year
*****************Facility sources: ****************************
** NMED source ID=38851AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=15-SEP-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38851A1 VOLUME 639140.214 3552073.751 0
SO SRCPARAM 38851A1 .0005796 1 .47 .93
** NMED source ID=38851EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38851E4 VOLUME 639147.75 3552080.772 0
SO SRCPARAM 38851E4 .00126 6.71 .47 .93
** NMED source ID=38851EQPT7 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=15-SEP-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38851E7 VOLUME 639140.964 3552084.324 0
SO SRCPARAM 38851E7 .00252 6.71 .47 .93
**********END OF 38851: Dominator Fed 25O CTB
INFO************************************
************************************************************
** 12.73km away. Facility ID=40549 Name=Bedlington Federal 35N CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9692 NOI
** lat,long,datum=32.256355, -103.647816, WGS84
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40549AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=18-AUG-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40549A1 VOLUME 627369.494 3569653.594 0
SO SRCPARAM 40549A1 .0005796 1 .47 .93
** NMED source ID=40549EQPT2 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=18-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40549E2 VOLUME 627377.03 3569660.615 0
SO SRCPARAM 40549E2 .00126 6.71 .47 .93
** NMED source ID=40549EQPT3 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=18-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40549E3 VOLUME 627370.244 3569664.167 0
SO SRCPARAM 40549E3 .00126 6.71 .47 .93
**********END OF 40549: Bedlington Federal 35N CTB
INFO************************************
************************************************************
** 12.76km away. Facility ID=38805 Name=Dominator Fed 25M CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8159 NOI
** lat,long,datum=32.096128, -103.532417, WGS84
** Total Particulate Matter (10 microns or less) emissions=.14tons/year
*****************Facility sources: ****************************
** NMED source ID=38805EQPT4 Facility's ID=HT-01
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** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38805E4 VOLUME 638482.882 3552033.402 0
SO SRCPARAM 38805E4 .00126 6.71 .47 .93
** NMED source ID=38805EQPT7 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=15-SEP-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38805E7 VOLUME 638490.418 3552040.423 0
SO SRCPARAM 38805E7 .00252 6.71 .47 .93
**********END OF 38805: Dominator Fed 25M CTB
INFO************************************
************************************************************
** 12.76km away. Facility ID=35462 Name=Lomas Rojas 26 CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.096516, -103.537316, WGS84
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=35462EQPT5 Facility's ID=HTR-1
** Description=Heater Treater (0.75 MM BTU/h) Construction date=20-NOV-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35462E5 VOLUME 638019.978 3552070.133 0
SO SRCPARAM 35462E5 .00126 4.88 .47 .93
** NMED source ID=35462EQPT6 Facility's ID=HTR-2
** Description=Heater Treater (0.75 MM BTU/h) Construction date=20-NOV-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35462E6 VOLUME 638027.514 3552077.154 0
SO SRCPARAM 35462E6 .00126 4.88 .47 .93
**********END OF 35462: Lomas Rojas 26 CTB INFO************************************
************************************************************
** 12.77km away. Facility ID=38817 Name=Dominator Fed 25N CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8171 NOI
** lat,long,datum=32.095914, -103.527333, WGS84
** Total Particulate Matter (10 microns or less) emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=38817EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38817E4 VOLUME 638962.984 3552016.22 0
```

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SO SRCPARAM 38817E4 .00126 6.71 .47 .93
** NMED source ID=38817EQPT7 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=15-SEP-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38817E7 VOLUME 638970.52 3552023.241 0
SO SRCPARAM 38817E7 .00126 6.71 .47 .93
** NMED source ID=38817RPNT2 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=15-SEP-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38817R2 VOLUME 638963.734 3552026.793 0
SO SRCPARAM 38817R2 .0005796 1 .47 .93
**********END OF 38817: Dominator Fed 25N CTB
INFO**********************************
************************************************************
** 12.78km away. Facility ID=40062 Name=Merciless 13 CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1355, -103.6266, WGS84
** Total Particulate Matter (10 microns or less) emissions=.61tons/year
*****************Facility sources: ******************************
** NMED source ID=40062EQPT3 Facility's ID=HTR-1
** Description=Heater Treater Construction date=14-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40062E3 POINT 629539.257 3556281.013 0
SO SRCPARAM 40062E3 .00126 7.32 588.71 .19 1.83
** NMED source ID=40062EQPT6 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=06-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40062E6 POINT 629546.793 3556288.034 0
SO SRCPARAM 40062E6 .0075599 3.96 803.71 58.52 .13
** NMED source ID=40062EQPT7 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=06-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40062E7 POINT 629540.007 3556291.586 0
SO SRCPARAM 40062E7 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=40062EQPT8 Facility's ID=HTR-2
** Description=Heater Treater Construction date=06-NOV-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40062E8 POINT 629532.41 3556289.494 0
SO SRCPARAM 40062E8 .00126 4.88 588.71 .21 1.22
**********END OF 40062: Merciless 13 CTB INFO**********************************
************************************************************
** 12.83km away. Facility ID=39048 Name=Apache - Ghost Rider Satellite and Gas Lift
** Company ID=10730 Name=Apache Corporation
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.196842, -103.659133, NAD83
** Total Particulate Matter (10 microns or less) emissions=.62tons/year
*****************Facility sources: ****************************
** NMED source ID=39048EQPT1 Facility's ID=C-1
** Description=1380 hp, Caterpillar G3516J 4SLB Construction date=13-NOV-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7209hr/yr, 24hr/day
SO LOCATION 39048E1 POINT 626385.752 3563042.631 0
SO SRCPARAM 39048E1 .0075599 7.92 720.37 52.37 .3
** NMED source ID=39048EQPT3 Facility's ID=REB-1
** Description=0.3 MMBTU/h Glycol Reboiler Construction date=19-JUL-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8040hr/yr, 24hr/day
SO LOCATION 39048E3 POINT 626393.288 3563049.652 0
SO SRCPARAM 39048E3 .0002898 6.1 588.71 3.45 .15
** NMED source ID=39048EQPT5 Facility's ID=FL-1
** Description=Flare Construction date=19-JUL-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=88hr/yr, 24hr/day
SO LOCATION 39048E5 POINT 626386.502 3563053.204 0
SO SRCPARAM 39048E5 .00126 18.29 1273 20 20.806
** NMED source ID=39048EQPT6 Facility's ID=C-2
** Description=670 hp, Caterpillar G3508LE 4SLB Construction date=19-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7648hr/yr, 24hr/day
SO LOCATION 39048E6 POINT 626378.905 3563051.112 0
SO SRCPARAM 39048E6 .0075599 6.1 820.93 52.06 .23
** NMED source ID=39048RPNT2 Facility's ID=SSM
** Description=SSM Construction date=19-JUL-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39048R2 VOLUME 626374.664 3563044.212 0
SO SRCPARAM 39048R2 .00126 1 .47 .93
**********END OF 39048: Apache - Ghost Rider Satellite and Gas Lift
INFO**********************************
************************************************************
** 12.89km away. Facility ID=40286 Name=Modelo 10 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2348, -103.6577, WGS84
** Total Particulate Matter (10 microns or less) emissions=.66tons/year
*****************Facility sources: ****************************
** NMED source ID=40286EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=14-JAN-22
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E1 VOLUME 626468.267 3567252.32 0
SO SRCPARAM 40286E1 .00126 7.32 .47 .93
** NMED source ID=40286EQPT20 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=13-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E20 POINT 626475.803 3567259.341 0
SO SRCPARAM 40286E20 .0075599 3.96 803.71 59.13 .13
** NMED source ID=40286EQPT21 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=13-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E21 POINT 626469.017 3567262.893 0
SO SRCPARAM 40286E21 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=40286EQPT22 Facility's ID=HTR-2
** Description=Heater Treater Construction date=13-NOV-23
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E22 VOLUME 626461.42 3567260.801 0
SO SRCPARAM 40286E22 .00126 7.32 .47 .93
** NMED source ID=40286EQPT23 Facility's ID=HTR-3
** Description=Heater Treater Construction date=13-NOV-23
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E23 VOLUME 626457.179 3567253.901 0
SO SRCPARAM 40286E23 .00126 4.88 .47 .93
**********END OF 40286: Modelo 10 Fed Com CTB
INFO**********************************
************************************************************
** 12.92km away. Facility ID=40079 Name=Pegasus 3 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2408, -103.6563, WGS84
** Total Particulate Matter (10 microns or less) emissions=.46tons/year
*****************Facility sources: ****************************
** NMED source ID=40079EQPT1 Facility's ID=HT-1
** Description=Heater Treater - 1.5 MMBtu/hr Construction date=21-JUL-21
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** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40079E1 VOLUME 626591.86 3567919.129 0
SO SRCPARAM 40079E1 .00126 5.18 .47 .93
** NMED source ID=40079EQPT15 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=04-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40079E15 POINT 626599.396 3567926.15 0
SO SRCPARAM 40079E15 .00252 4.82 867.04 17.54 .15
** NMED source ID=40079EQPT16 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=04-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40079E16 POINT 626592.61 3567929.702 0
SO SRCPARAM 40079E16 .00252 4.82 867.04 17.54 .15
** NMED source ID=40079EQPT18 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=04-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40079E18 POINT 626585.013 3567927.61 0
SO SRCPARAM 40079E18 .00252 4.82 867.04 17.54 .15
** NMED source ID=40079EQPT19 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=04-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40079E19 POINT 626580.772 3567920.71 0
SO SRCPARAM 40079E19 .00252 4.82 867.04 17.54 .15
**********END OF 40079: Pegasus 3 Fed Com CTB
INFO**********************************
************************************************************
** 12.92km away. Facility ID=40347 Name=North Mid Bell Lake Compressor Station
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.32606, -103.5102, NAD83
** Total Particulate Matter (10 microns or less) emissions=4.07tons/year
*****************Facility sources: ******************************
** NMED source ID=40347EQPT3 Facility's ID=ENG-1
** Description=2500 HP Compressor Engine Construction date=16-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E3 POINT 640226.125 3577552.987 0
SO SRCPARAM 40347E3 .0214197 7.01 691.48 46.63 .46
** NMED source ID=40347EQPT4 Facility's ID=ENG-2
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** Description=2500 HP Compressor Engine Construction date=16-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E4 POINT 640233.661 3577560.008 0
SO SRCPARAM 40347E4 .0214197 7.01 691.48 46.63 .46
** NMED source ID=40347EQPT5 Facility's ID=ENG-3
** Description=2500 HP Compressor Engine Construction date=16-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E5 POINT 640226.875 3577563.56 0
SO SRCPARAM 40347E5 .0214197 7.01 691.48 46.63 .46
** NMED source ID=40347EQPT6 Facility's ID=ENG-4
** Description=2500 HP Compressor Engine Construction date=16-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E6 POINT 640219.278 3577561.468 0
SO SRCPARAM 40347E6 .0214197 7.01 691.48 46.63 .46
** NMED source ID=40347EQPT7 Facility's ID=ENG-5
** Description=2500 HP Compressor Engine Construction date=16-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E7 POINT 640215.037 3577554.568 0
SO SRCPARAM 40347E7 .0214197 7.01 691.48 46.63 .46
** NMED source ID=40347EQPT11 Facility's ID=RB-1
** Description=2.0 MMBTU/hr Reboiler Construction date=16-MAR-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E11 POINT 640216.689 3577546.414 0
SO SRCPARAM 40347E11 .00252 4.57 369.82 10.44 .09
** NMED source ID=40347RPNT3 Facility's ID=HR-1
** Description=Unpaved Haul Road Emissions Construction date=03-MAR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347R3 VOLUME 640223.638 3577541.452 0
SO SRCPARAM 40347R3 .0075599 1 .47 .93
**********END OF 40347: North Mid Bell Lake Compressor Station
INFO**********************************
************************************************************
** 12.92km away. Facility ID=39052 Name=Ghost Rider CTB
** Company ID=10730 Name=Apache Corporation
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.206583, -103.661027, NAD83
** Total Particulate Matter (10 microns or less) emissions=.19tons/year
*****************Facility sources: ****************************
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** NMED source ID=39052EQPT1 Facility's ID=HT-1
** Description=1.0 MMBTU/hr, Heater Treater Construction date=14-JUL-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3230hr/yr, 24hr/day
SO LOCATION 39052E1 POINT 626193.765 3564120.285 0
SO SRCPARAM 39052E1 .00126 6.1 588.71 10.88 .15
** NMED source ID=39052EQPT2 Facility's ID=HT-2
** Description=1.0 MMBTU/hr, Heater Treater Construction date=14-JUL-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3230hr/yr, 24hr/day
SO LOCATION 39052E2 POINT 626201.301 3564127.306 0
SO SRCPARAM 39052E2 .00126 6.1 588.71 10.88 .15
** NMED source ID=39052EQPT3 Facility's ID=HT-3
** Description=1.0 MMBTU/hr, Heater Treater Construction date=14-JUL-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39052E3 POINT 626194.515 3564130.858 0
SO SRCPARAM 39052E3 .00126 6.1 588.71 10.88 .15
** NMED source ID=39052RPNT5 Facility's ID=U-ROAD
** Description=Unpaved Roadways Construction date=01-MAR-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39052R5 VOLUME 626186.918 3564128.766 0
SO SRCPARAM 39052R5 .3011352 10 20 9.3
**********END OF 39052: Ghost Rider CTB INFO************************************
************************************************************
** 12.95km away. Facility ID=7126 Name=Gorgon LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.24285, -103.65597, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.66tons/year
*****************Facility sources: ******************************
** NMED source ID=7126EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine 1, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E2 POINT 626620.107 3568146.781 0
SO SRCPARAM 7126E2 .0214197 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine 2, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E3 POINT 626627.643 3568153.802 0
SO SRCPARAM 7126E3 .0214197 6.1 700.37 46.42 .46
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** NMED source ID=7126EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine 3, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E4 POINT 626620.857 3568157.354 0
SO SRCPARAM 7126E4 .0214197 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine 4, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E5 POINT 626613.26 3568155.262 0
SO SRCPARAM 7126E5 .0214197 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine 5, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E6 POINT 626609.019 3568148.362 0
SO SRCPARAM 7126E6 .0214197 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine 6, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E7 POINT 626610.671 3568140.208 0
SO SRCPARAM 7126E7 .0214197 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT10 Facility's ID=HTR-1
** Description=Heater Treater, 1.0 MMBtu/hr Construction date=20-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E10 VOLUME 626617.62 3568135.246 0
SO SRCPARAM 7126E10 .00126 3.05 .47 .93
** NMED source ID=7126EQPT12 Facility's ID=RBL-1
** Description=Dehy Reboiler, 1.5 MMBtu/hr Construction date=20-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E12 POINT 626626.303 3568136.388 0
SO SRCPARAM 7126E12 .00126 4.57 588.71 3.99 .3
**********END OF 7126: Gorgon LGL Station INFO**********************************
************************************************************
** 12.98km away. Facility ID=38196 Name=Eider Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.170494, -103.653275, NAD83
** Total Particulate Matter (10 microns or less) emissions=4.69tons/year
*****************Facility sources: ****************************
```

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** NMED source ID=38196AREA1 Facility's ID=HAUL
** Description=Haul Road Emissions Construction date=28-NOV-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38196A1 VOLUME 626974.527 3560128.619 0
SO SRCPARAM 38196A1 .1349187 10 10 9.3
**********END OF 38196: Eider Compressor Station
INFO**********************************
************************************************************
** 12.99km away. Facility ID=40258 Name=EOG - Pitchblende 29 Fed Com East CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0988, -103.4843, WGS84
** Total Particulate Matter (10 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=40258EQPT1 Facility's ID=HTR-1
** Description=Heater Treater, .75 MMBtu/hr Construction date=13-DEC-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40258E1 VOLUME 643019.552 3552392.451 0
SO SRCPARAM 40258E1 .00126 4.88 .47 .93
**********END OF 40258: EOG - Pitchblende 29 Fed Com East CTB
INFO**********************************
************************************************************
** 13km away. Facility ID=39751 Name=Lomas Rojas Tank Battery
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0952, -103.5457, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.71tons/year
*****************Facility sources: ****************************
** NMED source ID=39751EQPT12 Facility's ID=HTR-1
** Description=0.5 MMBtu/h Heater Treater Construction date=20-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39751E12 VOLUME 637230.751 3551913.537 0
SO SRCPARAM 39751E12 .00126 5.18 .47 .93
** NMED source ID=39751EQPT13 Facility's ID=HTR-2
** Description=0.5 MMBtu/h Heater Treater Construction date=20-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39751E13 VOLUME 637238.287 3551920.558 0
SO SRCPARAM 39751E13 .00126 5.18 .47 .93
** NMED source ID=39751EQPT14 Facility's ID=HTR-3
** Description=0.5 MMBtu/h Heater Treater Construction date=20-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39751E14 VOLUME 637231.501 3551924.11 0
SO SRCPARAM 39751E14 .00126 5.18 .47 .93
** NMED source ID=39751EQPT15 Facility's ID=HTR-4
** Description=0.5 MMBtu/h Heater Treater Construction date=20-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39751E15 VOLUME 637223.904 3551922.018 0
SO SRCPARAM 39751E15 .00126 5.18 .47 .93
** NMED source ID=39751RPNT2 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=20-NOV-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39751R2 VOLUME 637219.663 3551915.118 0
SO SRCPARAM 39751R2 .0579591 1 .47 .93
**********END OF 39751: Lomas Rojas Tank Battery
INFO************************************
************************************************************
** 13.02km away. Facility ID=37349 Name=Viking Helmet State Com 2H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7054 NOI
** lat,long,datum=32.195107, -103.386899, WGS84
** Total Particulate Matter (10 microns or less) emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=37349AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=04-DEC-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37349A1 VOLUME 652051.232 3563202.846 0
SO SRCPARAM 37349A1 .0075599 1 .47 .93
** NMED source ID=37349EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37349E4 VOLUME 652058.768 3563209.867 0
SO SRCPARAM 37349E4 .00126 6.71 .47 .93
** NMED source ID=37349EQPT6 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=02-JUL-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37349E6 VOLUME 652051.982 3563213.419 0
SO SRCPARAM 37349E6 .00126 6.71 .47 .93
**********END OF 37349: Viking Helmet State Com 2H Battery
INFO************************************
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** 13.05km away. Facility ID=35034 Name=Brown Bear 36 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0935, -103.5319, WGS84
** Total Particulate Matter (10 microns or less) emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=35034EQPT15 Facility's ID=HT-1
** Description=Heater-1, 0.75 MMBtu/hr Construction date=08-JUL-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35034E15 POINT 638535.638 3551742.726 0
SO SRCPARAM 35034E15 .00126 5.18 588.71 3.4 .3
** NMED source ID=35034EQPT16 Facility's ID=HT-2
** Description=Heater-2, 0.75 MMBtu/hr Construction date=08-JUL-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35034E16 POINT 638543.174 3551749.747 0
SO SRCPARAM 35034E16 .00126 5.18 588.71 3.4 .3
** NMED source ID=35034EQPT18 Facility's ID=HT-3
** Description=Heater-3, 0.5 MMBtu/hr Construction date=02-FEB-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35034E18 POINT 638536.388 3551753.299 0
SO SRCPARAM 35034E18 .0005796 5.18 588.71 2.27 .3
**********END OF 35034: Brown Bear 36 State CTB
INFO*************************************
**************************************************************
** 13.05km away. Facility ID=39244 Name=Mewbourne - Ibex 10 B3OB Pronghorn 15 B3BO
Fed Com 1H Oil MT Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=8555 NOI
** lat,long,datum=32.31226, -103.45495, WGS84
** Total Particulate Matter (10 microns or less) emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=39244AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=01-JAN-20
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39244A1 VOLUME 645449.08 3576096.716 0
SO SRCPARAM 39244A1 .0907186 10 10 9.3
** NMED source ID=39244EQPT9 Facility's ID=HT-01
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39244E9 VOLUME 645456.616 3576103.737 0
```

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SO SRCPARAM 39244E9 .00126 4.57 .47 .93
** NMED source ID=39244EQPT10 Facility's ID=HT-02
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39244E10 VOLUME 645449.83 3576107.289 0
SO SRCPARAM 39244E10 .00126 4.57 .47 .93
**********END OF 39244: Mewbourne - Ibex 10 B3OB Pronghorn 15 B3BO Fed Com 1H Oil MT
Battery INFO**********************************
************************************************************
** 13.07km away. Facility ID=37917 Name=Rider BRQ Fed Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7348 NOI
** lat,long,datum=32.124069, -103.430031, WGS84
** Total Particulate Matter (10 microns or less) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=37917AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=01-JUN-17
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37917A1 VOLUME 648100.045 3555267.136 0
SO SRCPARAM 37917A1 .0005796 1 .47 .93
** NMED source ID=37917EQPT2 Facility's ID=HT-1
** Description=Heater Treater Burner Construction date=01-JUN-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37917E2 VOLUME 648107.581 3555274.157 0
SO SRCPARAM 37917E2 .00126 6.71 .47 .93
**********END OF 37917: Rider BRQ Fed Battery
INFO**********************************
************************************************************
** 13.1km away. Facility ID=38050 Name=Vaca Draw 20-17 Federal 1H-13H, 29H-31H,
43H-45H, 57H-59H, 61H, 71H-73H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.11182, -103.5995, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.45tons/year
*****************Facility sources: ****************************
** NMED source ID=38050AREA1 Facility's ID=HR
** Description=Haul Road Construction date=06-AUG-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050A1 VOLUME 632129.68 3553688.791 0
SO SRCPARAM 38050A1 .1159182 10 10 9.3
** NMED source ID=38050EQPT2 Facility's ID=HTR-1
** Description=Heater Treater, 2 MMBtu/hr Construction date=01-OCT-18
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8704hr/yr, 24hr/day
SO LOCATION 38050E2 VOLUME 632137.216 3553695.812 0
SO SRCPARAM 38050E2 .00126 4.57 .47 .93
** NMED source ID=38050EQPT7 Facility's ID=Flare1
** Description=Process Flare Construction date=05-JUL-18
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38050E7 POINT 632130.43 3553699.364 0
SO SRCPARAM 38050E7 .0005796 18.29 1273 20 20.806
** NMED source ID=38050EQPT18 Facility's ID=HTR-2
** Description=Heater Treater, 2 MMBtu/hr Construction date=01-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8704hr/yr, 24hr/day
SO LOCATION 38050E18 VOLUME 632122.833 3553697.272 0
SO SRCPARAM 38050E18 .00126 4.57 .47 .93
** NMED source ID=38050EQPT19 Facility's ID=HTR-4
** Description=Heater Treater, 2 MMBtu/hr Construction date=29-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8721hr/yr, 24hr/day
SO LOCATION 38050E19 VOLUME 632118.592 3553690.372 0
SO SRCPARAM 38050E19 .00126 4.57 .47 .93
** NMED source ID=38050EQPT21 Facility's ID=HTR-3
** Description=Heater Treater, 2 MMBtu/hr Construction date=01-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8704hr/yr, 24hr/day
SO LOCATION 38050E21 VOLUME 632120.244 3553682.218 0
SO SRCPARAM 38050E21 .00126 4.57 .47 .93
** NMED source ID=38050EQPT22 Facility's ID=HTR-5
** Description=Heater Treater, 2 MMBtu/hr Construction date=29-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8721hr/yr, 24hr/day
SO LOCATION 38050E22 VOLUME 632127.193 3553677.256 0
SO SRCPARAM 38050E22 .00126 4.57 .47 .93
** NMED source ID=38050EQPT23 Facility's ID=HTR-6
** Description=Heater Treater, 2 MMBtu/hr Construction date=29-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8721hr/yr, 24hr/day
SO LOCATION 38050E23 VOLUME 632135.876 3553678.398 0
SO SRCPARAM 38050E23 .00126 4.57 .47 .93
** NMED source ID=38050EQPT26 Facility's ID=Flare3
** Description=Process Flare Construction date=05-JUL-18
** SCC=31000215
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38050E26 POINT 632141.586 3553685.326 0
SO SRCPARAM 38050E26 .00126 18.29 1273 20 20.806
** NMED source ID=38050EQPT64 Facility's ID=ENG1
** Description=Compressor Engine Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E64 POINT 632141.021 3553694.507 0
SO SRCPARAM 38050E64 .0138598 6.1 812.59 57.21 .3
** NMED source ID=38050EQPT71 Facility's ID=Flare1 SSM
** Description=Process Flare Construction date=02-NOV-17
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E71 POINT 632134.186 3553700.985 0
SO SRCPARAM 38050E71 .0031625 18.29 1273 20 2.632
** NMED source ID=38050EQPT72 Facility's ID=Flare3 SSM
** Description=Process Flare Construction date=02-NOV-17
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E72 POINT 632124.55 3553701.062 0
SO SRCPARAM 38050E72 .0040319 18.29 1273 20 2.632
** NMED source ID=38050EQPT73 Facility's ID=Flare4 SSM
** Description=Process Flare Construction date=02-NOV-17
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E73 POINT 632117.289 3553694.396 0
SO SRCPARAM 38050E73 .002583 27.43 1273 20 20.806
**********END OF 38050: Vaca Draw 20-17 Federal 1H-13H, 29H-31H, 43H-45H, 57H-59H,
61H, 71H-73H INFO************************************
************************************************************
** 13.1km away. Facility ID=40809 Name=Serpentine 2 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9796 NOI
** lat,long,datum=32.327783, -103.53593, NAD83
** Total Particulate Matter (10 microns or less) emissions=.36tons/year
*****************Facility sources: ****************************
** NMED source ID=40809EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=10-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40809E1 POINT 637801.471 3577710.612 0
SO SRCPARAM 40809E1 .0100798 5.58 812.59 35.42 .2
**********END OF 40809: Serpentine 2 Wellpad 2
INFO************************************
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** 13.13km away. Facility ID=40808 Name=Serpentine 2 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9795 NOI
** lat,long,datum=32.327817, -103.539245, NAD83
** Total Particulate Matter (10 microns or less) emissions=.59tons/year
*****************Facility sources: ******************************
** NMED source ID=40808EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=10-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40808E1 POINT 637489.376 3577710.121 0
SO SRCPARAM 40808E1 .0138598 5.85 772.59 21.02 .27
** NMED source ID=40808EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=10-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40808E2 POINT 637496.912 3577717.142 0
SO SRCPARAM 40808E2 .0037799 3.6 853.15 19.79 .17
**********END OF 40808: Serpentine 2 Wellpad 1
INFO**********************************
**************************************************************
** 13.17km away. Facility ID=6334 Name=Tweety Bird 17 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.30901, -103.60152, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.1tons/year
*****************Facility sources: ******************************
** NMED source ID=6334EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=30-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E1 POINT 631654.619 3575546.9 0
SO SRCPARAM 6334E1 .0075599 3.96 803.71 58.52 .13
** NMED source ID=6334EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=30-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E2 POINT 631662.155 3575553.921 0
SO SRCPARAM 6334E2 .0088199 3.96 1003.71 82.3 .13
** NMED source ID=6334EQPT3 Facility's ID=ENG-3
** Description=Gas Lift Engine Construction date=30-JUN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E3 POINT 631655.369 3575557.473 0
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SO SRCPARAM 6334E3 .0138598 8.53 716.48 19.02 .51
** NMED source ID=6334EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=30-JUN-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E6 VOLUME 631647.772 3575555.381 0
SO SRCPARAM 6334E6 .00126 7.32 .47 .93
** NMED source ID=6334EQPT7 Facility's ID=HTR-2
** Description=Heater Treater Construction date=30-JUN-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E7 VOLUME 631643.531 3575548.481 0
SO SRCPARAM 6334E7 .00126 4.88 .47 .93
**********END OF 6334: Tweety Bird 17 Fed Com CTB
INFO**********************************
************************************************************
** 13.19km away. Facility ID=38665 Name=Irvin Wall State Com No131H
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.254524, -103.393834, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.42tons/year
*****************Facility sources: ******************************
** NMED source ID=38665AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=29-OCT-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38665A1 VOLUME 651298.967 3569780.343 0
SO SRCPARAM 38665A1 .0440993 1 .47 .93
** NMED source ID=38665EQPT1 Facility's ID=HT-1
** Description=0.5 MMBTU/h heater treater Construction date=29-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38665E1 VOLUME 651306.503 3569787.364 0
SO SRCPARAM 38665E1 .0005796 6.1 .47 .93
** NMED source ID=38665EQPT4 Facility's ID=ENG-1
** Description=690 hp Caterpillar G3508B Construction date=29-OCT-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 23hr/day
SO LOCATION 38665E4 POINT 651299.717 3569790.916 0
SO SRCPARAM 38665E4 .0075599 6.71 800.37 11.41 .06
** NMED source ID=38665EQPT12 Facility's ID=GEN-1
** Description=Generator Construction date=27-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 38665E12 POINT 651292.12 3569788.824 0
SO SRCPARAM 38665E12 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38665EQPT13 Facility's ID=GEN-2
** Description=Generator Construction date=27-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38665E13 POINT 651287.879 3569781.924 0
SO SRCPARAM 38665E13 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38665EQPT14 Facility's ID=GEN-3
** Description=Generator Construction date=27-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38665E14 POINT 651289.531 3569773.77 0
SO SRCPARAM 38665E14 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38665EQPT15 Facility's ID=GEN-4
** Description=Generator Construction date=27-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38665E15 POINT 651296.48 3569768.808 0
SO SRCPARAM 38665E15 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38665EQPT29 Facility's ID=HT-2
** Description=1.0 MMBTU/h heater treater Construction date=19-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38665E29 VOLUME 651305.163 3569769.95 0
SO SRCPARAM 38665E29 .00126 6.1 .47 .93
**********END OF 38665: Irvin Wall State Com No131H
INFO**********************************
************************************************************
** 13.27km away. Facility ID=40454 Name=Sneaky Snake 24 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.285737, -103.633298, NAD83
** Total Particulate Matter (10 microns or less) emissions=4.27tons/year
*****************Facility sources: ****************************
** NMED source ID=40454AREA1 Facility's ID=ROAD-1
** Description=HAUL ROADS Construction date=03-JUN-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454A1 VOLUME 628695.641 3572928.23 0
SO SRCPARAM 40454A1 .2784556 10 20 9.3
** NMED source ID=40454EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=03-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E2 VOLUME 628703.177 3572935.251 0
SO SRCPARAM 40454E2 .00252 9.14 .47 .93
** NMED source ID=40454EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=03-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E3 VOLUME 628696.391 3572938.803 0
SO SRCPARAM 40454E3 .00252 9.14 .47 .93
** NMED source ID=40454EQPT12 Facility's ID=ENG 1
** Description=ENG 1 Generator Engine Construction date=22-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E12 POINT 628688.794 3572936.711 0
SO SRCPARAM 40454E12 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=40454EQPT13 Facility's ID=ENG 2
** Description=ENG 2 Generator Engine Construction date=22-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E13 POINT 628684.553 3572929.811 0
SO SRCPARAM 40454E13 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=40454EQPT14 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=22-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E14 POINT 628686.205 3572921.657 0
SO SRCPARAM 40454E14 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=40454EQPT15 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=22-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E15 POINT 628693.154 3572916.695 0
SO SRCPARAM 40454E15 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=40454EQPT16 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=22-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E16 POINT 628701.837 3572917.837 0
SO SRCPARAM 40454E16 .0100798 3.17 1005.37 77.48 .15
**********END OF 40454: Sneaky Snake 24 CTB 1
INFO**********************************
************************************************************
** 13.29km away. Facility ID=37873 Name=Audacious BTL Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
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** SIC=1311 NAIC=21112    Permit=7299 GCP6
** lat,long,datum=32.115994, -103.60995, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.3tons/year
*****************Facility sources: ******************************
** NMED source ID=37873AREA1 Facility's ID=HAUL
** Description=NOI - haul roads Construction date=29-MAR-17
** SCC=30588801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8778hr/yr, 24hr/day
SO LOCATION 37873A1 VOLUME 631137.725 3554138.749 0
SO SRCPARAM 37873A1 .0949269 10 10 9.3
**********END OF 37873: Audacious BTL Fed CTB
INFO*********************************
************************************************************
** 13.29km away. Facility ID=38177 Name=EOG - Valor Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=7598 NSR
** lat,long,datum=32.125, -103.622222, WGS84
** Total Particulate Matter (10 microns or less) emissions=6tons/year
*****************Facility sources: ******************************
** NMED source ID=38177EQPT1 Facility's ID=Eng 1
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38177E1 POINT 629967.115 3555122.271 0
SO SRCPARAM 38177E1 .0214197 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT12 Facility's ID=Eng 2
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8728hr/yr, 24hr/day
SO LOCATION 38177E12 POINT 629974.651 3555129.292 0
SO SRCPARAM 38177E12 .0214197 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT13 Facility's ID=Eng 3
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8656hr/yr, 24hr/day
SO LOCATION 38177E13 POINT 629967.865 3555132.844 0
SO SRCPARAM 38177E13 .0214197 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT14 Facility's ID=Eng 4
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8752hr/yr, 24hr/day
SO LOCATION 38177E14 POINT 629960.268 3555130.752 0
SO SRCPARAM 38177E14 .0214197 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT15 Facility's ID=Eng 5
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8772hr/yr, 24hr/day
SO LOCATION 38177E15 POINT 629956.027 3555123.852 0
SO SRCPARAM 38177E15 .0214197 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT16 Facility's ID=Eng 6
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8748hr/yr, 24hr/day
SO LOCATION 38177E16 POINT 629957.679 3555115.698 0
SO SRCPARAM 38177E16 .0214197 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT17 Facility's ID=Eng 7
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8762hr/yr, 24hr/day
SO LOCATION 38177E17 POINT 629964.628 3555110.736 0
SO SRCPARAM 38177E17 .0214197 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT18 Facility's ID=Eng 8
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8746hr/yr, 24hr/day
SO LOCATION 38177E18 POINT 629973.311 3555111.878 0
SO SRCPARAM 38177E18 .0214197 9.14 705.37 46.63 .46
**********END OF 38177: EOG - Valor Compressor Station
INFO**********************************
************************************************************
** 13.34km away. Facility ID=40492 Name=Serpentine 2 Facility 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.329618, -103.539652, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.97tons/year
*****************Facility sources: ****************************
** NMED source ID=40492AREA1 Facility's ID=ROAD-1
** Description=HAUL ROADS Construction date=16-NOV-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492A1 VOLUME 637448.342 3577909.264 0
SO SRCPARAM 40492A1 .2784556 10 20 9.3
** NMED source ID=40492EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=07-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E2 VOLUME 637455.878 3577916.285 0
SO SRCPARAM 40492E2 .00252 9.14 .47 .93
** NMED source ID=40492EQPT13 Facility's ID=MT 1
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** Description=MT 1 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E13 POINT 637449.092 3577919.837 0
SO SRCPARAM 40492E13 .0037799 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT14 Facility's ID=MT 2
** Description=MT 2 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E14 POINT 637441.495 3577917.745 0
SO SRCPARAM 40492E14 .0037799 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT15 Facility's ID=MT 3
** Description=MT 3 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E15 POINT 637437.254 3577910.845 0
SO SRCPARAM 40492E15 .0037799 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT16 Facility's ID=MT 4
** Description=MT 4 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E16 POINT 637438.906 3577902.691 0
SO SRCPARAM 40492E16 .0037799 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT17 Facility's ID=MT 5
** Description=MT 5 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E17 POINT 637445.855 3577897.729 0
SO SRCPARAM 40492E17 .0037799 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT18 Facility's ID=MT 6
** Description=MT 6 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E18 POINT 637454.538 3577898.871 0
SO SRCPARAM 40492E18 .0037799 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT19 Facility's ID=MT 7
** Description=MT 7 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E19 POINT 637460.248 3577905.799 0
SO SRCPARAM 40492E19 .00252 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT20 Facility's ID=MT 8
** Description=MT 8 Microturbine Construction date=16-NOV-23
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** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E20 POINT 637459.683 3577914.98 0
SO SRCPARAM 40492E20 .00252 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT21 Facility's ID=MT 9
** Description=MT 9 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E21 POINT 637452.848 3577921.458 0
SO SRCPARAM 40492E21 .00252 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT22 Facility's ID=MT 10
** Description=MT 10 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E22 POINT 637443.212 3577921.535 0
SO SRCPARAM 40492E22 .00252 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT23 Facility's ID=MT 11
** Description=MT 11 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E23 POINT 637435.951 3577914.869 0
SO SRCPARAM 40492E23 .00252 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT24 Facility's ID=MT 12
** Description=MT 12 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E24 POINT 637435.171 3577904.823 0
SO SRCPARAM 40492E24 .00252 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT25 Facility's ID=MT 13
** Description=MT 13 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E25 POINT 637441.589 3577896.772 0
SO SRCPARAM 40492E25 .00252 4.02 529.26 95.71 .15
**********END OF 40492: Serpentine 2 Facility 1
INFO************************************
************************************************************
** 13.34km away. Facility ID=39976 Name=Devon - Red Bull 30 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.278562, -103.407252, NAD83
** Total Particulate Matter (10 microns or less) emissions=.84tons/year
*****************Facility sources: ******************************
** NMED source ID=39976AREA1 Facility's ID=ROAD-1
```

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** Description=Unpaved Haul Roads Construction date=20-MAY-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5136hr/yr, 24hr/day
SO LOCATION 39976A1 VOLUME 649995.305 3572426.495 0
SO SRCPARAM 39976A1 .2784556 10 20 9.3
**********END OF 39976: Devon - Red Bull 30 CTB 2
INFO**********************************
************************************************************
** 13.35km away. Facility ID=39736 Name=Pitchblende 29 Fed Com No 1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0952, -103.485, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.6tons/year
*****************Facility sources: ******************************
** NMED source ID=39736AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=04-NOV-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7017hr/yr, 22hr/day
SO LOCATION 39736A1 VOLUME 642959.102 3551992.422 0
SO SRCPARAM 39736A1 .062999 10 10 9.3
**********END OF 39736: Pitchblende 29 Fed Com No 1H
INFO**********************************
************************************************************
** 13.35km away. Facility ID=40108 Name=Ruthless 11 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1488, -103.6454, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.46tons/year
*****************Facility sources: ******************************
** NMED source ID=40108EQPT4 Facility's ID=HT-1
** Description=Heater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E4 VOLUME 627747.344 3557732.971 0
SO SRCPARAM 40108E4 .00126 5.18 .47 .93
** NMED source ID=40108EQPT12 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E12 POINT 627754.88 3557739.992 0
SO SRCPARAM 40108E12 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT13 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40108E13 POINT 627748.094 3557743.544 0
SO SRCPARAM 40108E13 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT14 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E14 POINT 627740.497 3557741.452 0
SO SRCPARAM 40108E14 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT15 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E15 POINT 627736.256 3557734.552 0
SO SRCPARAM 40108E15 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT16 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E16 POINT 627737.908 3557726.398 0
SO SRCPARAM 40108E16 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT17 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E17 POINT 627744.857 3557721.436 0
SO SRCPARAM 40108E17 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT18 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E18 POINT 627753.54 3557722.578 0
SO SRCPARAM 40108E18 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT19 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E19 POINT 627759.25 3557729.506 0
SO SRCPARAM 40108E19 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT20 Facility's ID=ENG-9
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E20 POINT 627758.685 3557738.687 0
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SO SRCPARAM 40108E20 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT21 Facility's ID=ENG-10
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E21 POINT 627751.85 3557745.165 0
SO SRCPARAM 40108E21 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT22 Facility's ID=ENG-11
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E22 POINT 627742.214 3557745.242 0
SO SRCPARAM 40108E22 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT23 Facility's ID=ENG-12
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E23 POINT 627734.953 3557738.576 0
SO SRCPARAM 40108E23 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT24 Facility's ID=ENG-13
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E24 POINT 627734.173 3557728.53 0
SO SRCPARAM 40108E24 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT25 Facility's ID=ENG-14
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E25 POINT 627740.591 3557720.479 0
SO SRCPARAM 40108E25 .00252 4.57 867.04 17.56 .15
**********END OF 40108: Ruthless 11 Fed Com CTB
INFO**********************************
************************************************************
** 13.36km away. Facility ID=39992 Name=EOG - Lakewood 28 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.098, -103.4748, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.57tons/year
*****************Facility sources: ****************************
** NMED source ID=39992AREA1 Facility's ID=HAUL
** Description=Unpaved Road Construction date=04-JUN-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 39992A1 VOLUME 643917.307 3552316.406 0
SO SRCPARAM 39992A1 .0440993 1 .47 .93
** NMED source ID=39992EQPT4 Facility's ID=HTR-1
** Description=Heater Treater Construction date=04-JUN-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39992E4 VOLUME 643924.843 3552323.427 0
SO SRCPARAM 39992E4 .00126 4.88 .47 .93
**********END OF 39992: EOG - Lakewood 28 Fed Com CTB
INFO**********************************
************************************************************
** 13.4km away. Facility ID=40898 Name=Da Bears 36 State Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.09025, -103.52937, WGS84
** Total Particulate Matter (10 microns or less) emissions=.09tons/year
*****************Facility sources: ******************************
** NMED source ID=40898EQPT4 Facility's ID=HTR-1
** Description=Heater Treater Construction date=27-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40898E4 VOLUME 638779.316 3551385.685 0
SO SRCPARAM 40898E4 .00126 4.57 .47 .93
** NMED source ID=40898EQPT5 Facility's ID=HTR-2
** Description=Heater Treater Construction date=27-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40898E5 VOLUME 638786.852 3551392.706 0
SO SRCPARAM 40898E5 .00126 4.57 .47 .93
**********END OF 40898: Da Bears 36 State Com CTB
INFO**********************************
************************************************************
** 13.46km away. Facility ID=39863 Name=North Bell Lake Pad 5
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.331495, -103.521759, NAD83
** Total Particulate Matter (10 microns or less) emissions=.36tons/year
*****************Facility sources: ******************************
** NMED source ID=39863EQPT4 Facility's ID=HT-1
** Description=2.0 MM Btu/hr Heater Treater Construction date=19-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39863E4 VOLUME 639129.725 3578140.46 0
SO SRCPARAM 39863E4 .00252 4.57 .47 .93
** NMED source ID=39863EQPT5 Facility's ID=HT-2
** Description=2.0 MM Btu/hr Heater Treater Construction date=19-FEB-21
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39863E5 VOLUME 639137.261 3578147.481 0
SO SRCPARAM 39863E5 .00252 4.57 .47 .93
** NMED source ID=39863EQPT6 Facility's ID=HT-3
** Description=2.0 MM Btu/hr Heater Treater Construction date=19-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39863E6 VOLUME 639130.475 3578151.033 0
SO SRCPARAM 39863E6 .00252 4.57 .47 .93
** NMED source ID=39863EQPT7 Facility's ID=HT-4
** Description=2.0 MM Btu/hr Heater Treater Construction date=19-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39863E7 VOLUME 639122.878 3578148.941 0
SO SRCPARAM 39863E7 .00252 4.57 .47 .93
** NMED source ID=39863EQPT8 Facility's ID=HT-5
** Description=2.0 MM Btu/hr Heater Treater Construction date=19-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39863E8 VOLUME 639118.637 3578142.041 0
SO SRCPARAM 39863E8 .00252 4.57 .47 .93
** NMED source ID=39863RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=15-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39863R3 VOLUME 639120.289 3578133.887 0
SO SRCPARAM 39863R3 .0667789 10 10 9.3
**********END OF 39863: North Bell Lake Pad 5
INFO**********************************
************************************************************
** 13.47km away. Facility ID=39891 Name=North Bell Lake Pad 3
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.331574, -103.52471, NAD83
** Total Particulate Matter (10 microns or less) emissions=.15tons/year
*****************Facility sources: ******************************
** NMED source ID=39891EQPT3 Facility's ID=HT-1
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39891E3 POINT 638851.834 3578145.388 0
SO SRCPARAM 39891E3 .00252 4.57 644.26 10.44 .09
** NMED source ID=39891EQPT6 Facility's ID=HT-2
```

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** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39891E6 POINT 638859.37 3578152.409 0
SO SRCPARAM 39891E6 .00252 4.57 644.26 10.44 .09
** NMED source ID=39891RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=15-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39891R3 VOLUME 638852.584 3578155.961 0
SO SRCPARAM 39891R3 .0667789 10 10 9.3
**********END OF 39891: North Bell Lake Pad 3
INFO**********************************
************************************************************
** 13.52km away. Facility ID=37773 Name=Skull Cap Fed Com 22H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7234 NOI
** lat,long,datum=32.174113, -103.386988, WGS84
** Total Particulate Matter (10 microns or less) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=37773AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=01-NOV-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37773A1 VOLUME 652077.752 3560875.224 0
SO SRCPARAM 37773A1 .0002898 1 .47 .93
** NMED source ID=37773EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37773E4 VOLUME 652085.288 3560882.245 0
SO SRCPARAM 37773E4 .00126 4.57 .47 .93
**********END OF 37773: Skull Cap Fed Com 22H Battery
INFO**********************************
************************************************************
** 13.55km away. Facility ID=39889 Name=MarkWest - Bell Lake North Compressor
Station
** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.3322, -103.5274, WGS84
** Total Particulate Matter (10 microns or less) emissions=6.84tons/year
*****************Facility sources: ****************************
** NMED source ID=39889EQPT1 Facility's ID=ENG-4
** Description=Caterpillar 3516 ULB 1380 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=7950hr/yr, 24hr/day
SO LOCATION 39889E1 POINT 638597.677 3578211.305 0
SO SRCPARAM 39889E1 .0151198 7.01 760.93 56.45 .3
** NMED source ID=39889EQPT2 Facility's ID=ENG-2
** Description=Caterpillar 3516 ULB 1380 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5169hr/yr, 24hr/day
SO LOCATION 39889E2 POINT 638605.213 3578218.326 0
SO SRCPARAM 39889E2 .0151198 7.01 760.93 56.45 .3
** NMED source ID=39889EQPT3 Facility's ID=ENG-3
** Description=Caterpillar 3516 ULB 1380 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7084hr/yr, 24hr/day
SO LOCATION 39889E3 POINT 638598.427 3578221.878 0
SO SRCPARAM 39889E3 .0151198 7.01 760.93 56.45 .3
** NMED source ID=39889EQPT4 Facility's ID=ENG-7
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6213hr/yr, 24hr/day
SO LOCATION 39889E4 POINT 638590.83 3578219.786 0
SO SRCPARAM 39889E4 .0188997 7.01 822.59 62.45 .3
** NMED source ID=39889EQPT5 Facility's ID=ENG-1
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6126hr/yr, 24hr/day
SO LOCATION 39889E5 POINT 638586.589 3578212.886 0
SO SRCPARAM 39889E5 .0188997 7.01 822.59 62.45 .3
** NMED source ID=39889EQPT6 Facility's ID=ENG-6
** Description=Caterpillar 3516 ULB 1380 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7379hr/yr, 24hr/day
SO LOCATION 39889E6 POINT 638588.241 3578204.732 0
SO SRCPARAM 39889E6 .0151198 7.01 760.93 56.45 .3
** NMED source ID=39889EQPT7 Facility's ID=ENG-5
** Description=Caterpillar 3516 ULB 1380 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=44hr/yr, 24hr/day
SO LOCATION 39889E7 POINT 638595.19 3578199.77 0
SO SRCPARAM 39889E7 .0151198 7.01 760.93 56.45 .3
** NMED source ID=39889EQPT11 Facility's ID=Reboil-1
** Description=TEG Reboiler 1.5 MMBtu/h Construction date=05-MAR-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
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SO LOCATION 39889E11 POINT 638603.873 3578200.912 0
SO SRCPARAM 39889E11 .00126 4.88 588.71 2.35 .4
** NMED source ID=39889EQPT16 Facility's ID=ECD-1
** Description=30 MMscf/d Combustor (Process) Construction date=07-OCT-21
** SCC=31000160
** Potential operating rate=500hr/yr, 0hr/day
** Actual operating rate=500hr/yr, 24hr/day
SO LOCATION 39889E16 POINT 638609.583 3578207.84 0
SO SRCPARAM 39889E16 .0113398 7.62 1273 20 1.22
SO EMISFACT 39889E16 HROFDY 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
** NMED source ID=39889EQPT17 Facility's ID=ECD-2
** Description=9.2 MMscf/d Combustor (Process) Construction date=05-MAR-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39889E17 POINT 638609.018 3578217.021 0
SO SRCPARAM 39889E17 .00252 3.66 1273 20 1.22
** NMED source ID=39889EQPT19 Facility's ID=ENG-8
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6494hr/yr, 24hr/day
SO LOCATION 39889E19 POINT 638602.183 3578223.499 0
SO SRCPARAM 39889E19 .0188997 7.01 822.59 62.45 .3
** NMED source ID=39889EQPT20 Facility's ID=ENG-9
** Description=Caterpillar 3608A  2500 hp engine Construction date=01-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6428hr/yr, 24hr/day
SO LOCATION 39889E20 POINT 638592.547 3578223.576 0
SO SRCPARAM 39889E20 .0302395 7.01 694.26 59.19 .41
** NMED source ID=39889EQPT21 Facility's ID=ENG-10
** Description=Caterpillar 3608A  2500 hp engine Construction date=01-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6118hr/yr, 24hr/day
SO LOCATION 39889E21 POINT 638585.286 3578216.91 0
SO SRCPARAM 39889E21 .0302395 7.01 694.26 59.19 .41
**********END OF 39889: MarkWest - Bell Lake North Compressor Station
INFO************************************
************************************************************
** 13.56km away. Facility ID=38624 Name=Devon - North Thistle 3 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.329667, -103.554003, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.8tons/year
*****************Facility sources: ******************************
** NMED source ID=38624AREA1 Facility's ID=ROAD
** Description=Haul Road Construction date=04-SEP-18
** SCC=30501090
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38624A1 VOLUME 636097.425 3577896.37 0
SO SRCPARAM 38624A1 .3275948 10 30 9.3
**********END OF 38624: Devon - North Thistle 3 CTB 1
INFO**********************************
************************************************************
** 13.57km away. Facility ID=39872 Name=Deerstalker Federal 5 CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9094 NOI
** lat,long,datum=32.164183, -103.390714, WGS84
** Total Particulate Matter (10 microns or less) emissions=.78tons/year
*****************Facility sources: ******************************
** NMED source ID=39872AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=17-JAN-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39872A1 VOLUME 651742.885 3559769.077 0
SO SRCPARAM 39872A1 .0005796 1 .47 .93
** NMED source ID=39872EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=17-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39872E1 POINT 651750.421 3559776.098 0
SO SRCPARAM 39872E1 .00252 3.66 883.71 17.92 .15
** NMED source ID=39872EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=17-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39872E2 POINT 651743.635 3559779.65 0
SO SRCPARAM 39872E2 .00252 3.66 883.71 17.92 .15
** NMED source ID=39872EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=17-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39872E3 POINT 651736.038 3559777.558 0
SO SRCPARAM 39872E3 .0075599 4.88 1000.37 14.84 .28
** NMED source ID=39872EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=17-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39872E4 POINT 651731.797 3559770.658 0
SO SRCPARAM 39872E4 .0075599 4.88 1000.37 14.84 .28
** NMED source ID=39872EQPT6 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=17-JAN-23
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39872E6 VOLUME 651733.449 3559762.504 0
SO SRCPARAM 39872E6 .00126 6.71 .47 .93
**********END OF 39872: Deerstalker Federal 5 CTB
INFO**********************************
************************************************************
** 13.58km away. Facility ID=39883 Name=North Bell Lake Pad 9
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.33194, -103.509074, NAD83
** Total Particulate Matter (10 microns or less) emissions=.43tons/year
*****************Facility sources: ****************************
** NMED source ID=39883EQPT4 Facility's ID=HT-1
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39883E4 VOLUME 640323.046 3578206.344 0
SO SRCPARAM 39883E4 .00252 4.57 .47 .93
** NMED source ID=39883EQPT5 Facility's ID=HT-2
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39883E5 VOLUME 640330.582 3578213.365 0
SO SRCPARAM 39883E5 .00252 4.57 .47 .93
** NMED source ID=39883EQPT6 Facility's ID=HT-3
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39883E6 VOLUME 640323.796 3578216.917 0
SO SRCPARAM 39883E6 .00252 4.57 .47 .93
** NMED source ID=39883EQPT7 Facility's ID=HT-4
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39883E7 VOLUME 640316.199 3578214.825 0
SO SRCPARAM 39883E7 .00252 4.57 .47 .93
** NMED source ID=39883EQPT8 Facility's ID=HT-5
** Description=Heater Treater Construction date=14-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39883E8 VOLUME 640311.958 3578207.925 0
SO SRCPARAM 39883E8 .00252 4.57 .47 .93
** NMED source ID=39883EQPT9 Facility's ID=HT-6
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** Description=Heater Treater Construction date=14-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39883E9 VOLUME 640313.61 3578199.771 0
SO SRCPARAM 39883E9 .00252 4.57 .47 .93
** NMED source ID=39883RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=14-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39883R3 VOLUME 640320.559 3578194.809 0
SO SRCPARAM 39883R3 .0667789 10 10 9.3
**********END OF 39883: North Bell Lake Pad 9
INFO**********************************
************************************************************
** 13.66km away. Facility ID=37543 Name=North Bell Lake Pad 11
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.332028, -103.503306, NAD83
** Total Particulate Matter (10 microns or less) emissions=.36tons/year
*****************Facility sources: ******************************
** NMED source ID=37543EQPT9 Facility's ID=HT-1
** Description=Heater Treater Construction date=01-MAR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37543E9 VOLUME 640865.836 3578223.672 0
SO SRCPARAM 37543E9 .00252 4.57 .47 .93
** NMED source ID=37543EQPT28 Facility's ID=HT-2
** Description=Heater Treater Construction date=13-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37543E28 VOLUME 640873.372 3578230.693 0
SO SRCPARAM 37543E28 .00252 4.57 .47 .93
** NMED source ID=37543EQPT29 Facility's ID=HT-3
** Description=Heater Treater Construction date=13-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37543E29 VOLUME 640866.586 3578234.245 0
SO SRCPARAM 37543E29 .00252 4.57 .47 .93
** NMED source ID=37543EQPT30 Facility's ID=HT-4
** Description=Heater Treater Construction date=13-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37543E30 VOLUME 640858.989 3578232.153 0
SO SRCPARAM 37543E30 .00252 4.57 .47 .93
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** NMED source ID=37543EQPT33 Facility's ID=HT-5
** Description=Heater Treater Construction date=13-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37543E33 VOLUME 640854.748 3578225.253 0
SO SRCPARAM 37543E33 .00252 4.57 .47 .93
** NMED source ID=37543RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=13-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37543R3 VOLUME 640856.4 3578217.099 0
SO SRCPARAM 37543R3 .0667789 10 10 9.3
**********END OF 37543: North Bell Lake Pad 11
INFO**********************************
************************************************************
** 13.68km away. Facility ID=39942 Name=Bell Lake Unit North Pad 1
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.333215, -103.533244, NAD83
** Total Particulate Matter (10 microns or less) emissions=.29tons/year
*****************Facility sources: ****************************
** NMED source ID=39942EQPT19 Facility's ID=HT-1
** Description=2 MMBtu/h Heater Treater Construction date=08-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39942E19 VOLUME 638046.061 3578316.283 0
SO SRCPARAM 39942E19 .00252 4.57 .47 .93
** NMED source ID=39942EQPT20 Facility's ID=HT-2
** Description=2 MMBtu/h Heater Treater Construction date=08-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39942E20 VOLUME 638053.597 3578323.304 0
SO SRCPARAM 39942E20 .00252 4.57 .47 .93
** NMED source ID=39942EQPT21 Facility's ID=HT-3
** Description=2 MMBtu/h Heater Treater Construction date=08-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39942E21 VOLUME 638046.811 3578326.856 0
SO SRCPARAM 39942E21 .00252 4.57 .47 .93
** NMED source ID=39942EQPT22 Facility's ID=HT-4
** Description=1 MMBtu/h Heater Treater Construction date=08-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39942E22 VOLUME 638039.214 3578324.764 0
```

```
SO SRCPARAM 39942E22 .00252 4.57 .47 .93
** NMED source ID=39942RPNT3 Facility's ID=HR-1
** Description=Haul Roads Construction date=27-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39942R3 VOLUME 638034.973 3578317.864 0
SO SRCPARAM 39942R3 .0667789 10 10 9.3
**********END OF 39942: Bell Lake Unit North Pad 1
INFO**********************************
************************************************************
** 13.73km away. Facility ID=37771 Name=EOG - Bear Gas Lift
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.087272, -103.52975, WGS84
** Total Particulate Matter (10 microns or less) emissions=2tons/year
*****************Facility sources: ****************************
** NMED source ID=37771EQPT1 Facility's ID=Eng-01
** Description=Caterpillar G3516B LE Construction date=01-MAR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37771E1 POINT 638747.955 3551055.054 0
SO SRCPARAM 37771E1 .0125998 8.23 806.48 59.04 .41
** NMED source ID=37771EQPT2 Facility's ID=Eng-02
** Description=Caterpillar G3516B LE Construction date=01-MAR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37771E2 POINT 638755.491 3551062.075 0
SO SRCPARAM 37771E2 .0125998 8.23 806.48 59.04 .41
** NMED source ID=37771EQPT3 Facility's ID=Eng-03
** Description=Caterpillar G3516B LE Construction date=01-MAR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37771E3 POINT 638748.705 3551065.627 0
SO SRCPARAM 37771E3 .0125998 8.23 806.48 59.04 .41
** NMED source ID=37771EQPT4 Facility's ID=Eng-04
** Description=Caterpillar G3516B LE Construction date=01-MAR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37771E4 POINT 638741.108 3551063.535 0
SO SRCPARAM 37771E4 .0125998 8.23 806.48 59.04 .41
**********END OF 37771: EOG - Bear Gas Lift
INFO**********************************
************************************************************
** 13.77km away. Facility ID=39776 Name=Rodney Robinson South TB
** Company ID=12665 Name=Matador Production Company
```

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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.313256, -103.605521, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.45tons/year
*****************Facility sources: ******************************
** NMED source ID=39776AREA1 Facility's ID=HR-1
** Description=haul road Construction date=02-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776A1 VOLUME 631271.803 3576012.713 0
SO SRCPARAM 39776A1 .0075599 1 .47 .93
** NMED source ID=39776EQPT2 Facility's ID=ENG 2
** Description=188 HP, Cummins G855 Construction date=02-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776E2 POINT 631279.339 3576019.734 0
SO SRCPARAM 39776E2 .00252 2.73 919.82 51.42 .1
** NMED source ID=39776EQPT3 Facility's ID=ENG-3
** Description=92 HP, GM Vortec 5.7L VRU Engine Construction date=02-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6744hr/yr, 24hr/day
SO LOCATION 39776E3 POINT 631272.553 3576023.286 0
SO SRCPARAM 39776E3 .00126 2.67 922.04 38.62 .1
** NMED source ID=39776EQPT6 Facility's ID=HT-1
** Description=Heater Treater 1.0 MMBtu/hr Construction date=02-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776E6 POINT 631264.956 3576021.194 0
SO SRCPARAM 39776E6 .00126 6.1 644.26 2.09 .2
** NMED source ID=39776EQPT7 Facility's ID=HT-2
** Description=Heater Treater 1.0 MMBtu/hr Construction date=02-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776E7 POINT 631260.715 3576014.294 0
SO SRCPARAM 39776E7 .00126 6.1 644.26 2.09 .2
** NMED source ID=39776EQPT8 Facility's ID=HT-3
** Description=Heater Treater 1.0 MMBtu/hr Construction date=02-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776E8 POINT 631262.367 3576006.14 0
SO SRCPARAM 39776E8 .00126 6.1 644.26 2.09 .2
** NMED source ID=39776EQPT9 Facility's ID=HT-4
** Description=Heater Treater 1.0 MMBtu/hr Construction date=02-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776E9 POINT 631269.316 3576001.178 0
SO SRCPARAM 39776E9 .00126 6.1 644.26 2.09 .2
** NMED source ID=39776EQPT26 Facility's ID=ENG-4
** Description=Caterpillar 3516B  1380 HP Construction date=30-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6864hr/yr, 24hr/day
SO LOCATION 39776E26 POINT 631277.999 3576002.32 0
SO SRCPARAM 39776E26 .0125998 6.1 804.82 50.99 .3
** NMED source ID=39776EQPT27 Facility's ID=ENG 5
** Description=188 HP, Cummins G855 Construction date=30-SEP-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7344hr/yr, 24hr/day
SO LOCATION 39776E27 POINT 631283.709 3576009.248 0
SO SRCPARAM 39776E27 .00252 2.73 919.82 51.42 .1
** NMED source ID=39776EQPT28 Facility's ID=HT-5
** Description=Heater Treater 1.0 MMBtu/hr Construction date=02-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776E28 POINT 631283.144 3576018.429 0
SO SRCPARAM 39776E28 .00126 6.1 644.26 2.09 .2
** NMED source ID=39776EQPT29 Facility's ID=ENG-6
** Description=Caterpillar 3516B  1380 HP Construction date=19-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39776E29 POINT 631276.309 3576024.907 0
SO SRCPARAM 39776E29 .0125998 6.1 804.82 50.99 .3
** NMED source ID=39776EQPT31 Facility's ID=ENG-7
** Description=92 HP, GM 5.7L Construction date=20-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39776E31 POINT 631266.673 3576024.984 0
SO SRCPARAM 39776E31 .00126 2.67 922.04 38.62 .1
**********END OF 39776: Rodney Robinson South TB
INFO**********************************
************************************************************
** 13.82km away. Facility ID=39864 Name=North Bell Lake Pad 7
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.334484, -103.515422, NAD83
** Total Particulate Matter (10 microns or less) emissions=.36tons/year
*****************Facility sources: ******************************
** NMED source ID=39864EQPT4 Facility's ID=HT-1
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39864E4 VOLUME 639721.617 3578480.083 0
SO SRCPARAM 39864E4 .00252 4.57 .47 .93
** NMED source ID=39864EQPT5 Facility's ID=HT-2
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39864E5 VOLUME 639729.153 3578487.104 0
SO SRCPARAM 39864E5 .00252 4.57 .47 .93
** NMED source ID=39864EQPT6 Facility's ID=HT-3
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39864E6 VOLUME 639722.367 3578490.656 0
SO SRCPARAM 39864E6 .00252 4.57 .47 .93
** NMED source ID=39864EQPT7 Facility's ID=HT-4
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39864E7 VOLUME 639714.77 3578488.564 0
SO SRCPARAM 39864E7 .00252 4.57 .47 .93
** NMED source ID=39864EQPT10 Facility's ID=HT-5
** Description=Heater Treater Construction date=27-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39864E10 VOLUME 639710.529 3578481.664 0
SO SRCPARAM 39864E10 .00252 4.57 .47 .93
** NMED source ID=39864RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=27-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39864R3 VOLUME 639712.181 3578473.51 0
SO SRCPARAM 39864R3 .0667789 10 10 9.3
**********END OF 39864: North Bell Lake Pad 7
INFO**********************************
************************************************************
** 13.86km away. Facility ID=38049 Name=Seawolf Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.086153, -103.529725, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.81tons/year
****************Facility sources: ****************************
** NMED source ID=38049EQPT1 Facility's ID=17-0723
** Description=Caterpillar G3606 Construction date=29-JAN-18
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7011hr/yr, 19hr/day
SO LOCATION 38049E1 POINT 638752.005 3550931.034 0
SO SRCPARAM 38049E1 .0163797 7.01 707.04 34.02 .46
** NMED source ID=38049EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516 Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E2 POINT 638759.541 3550938.055 0
SO SRCPARAM 38049E2 .0125998 6.4 717.04 52.18 .3
** NMED source ID=38049EQPT3 Facility's ID=18-238
** Description=Compressor Engine Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8090hr/yr, 22hr/day
SO LOCATION 38049E3 POINT 638752.755 3550941.607 0
SO SRCPARAM 38049E3 .0163797 7.01 707.04 34.02 .46
** NMED source ID=38049EQPT4 Facility's ID=18-337
** Description=Compressor Engine Construction date=29-JUL-18
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E4 POINT 638745.158 3550939.515 0
SO SRCPARAM 38049E4 .0214197 7.01 714.26 46.02 .46
** NMED source ID=38049EQPT6 Facility's ID=Rbl-1
** Description=Dehydrator Reboiler 1 Construction date=29-JUL-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8646hr/yr, 24hr/day
SO LOCATION 38049E6 POINT 638740.917 3550932.615 0
SO SRCPARAM 38049E6 .0005796 3.05 588.71 1.31 .3
** NMED source ID=38049EQPT10 Facility's ID=18-1160
** Description=Compressor Engine Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6996hr/yr, 19hr/day
SO LOCATION 38049E10 POINT 638742.569 3550924.461 0
SO SRCPARAM 38049E10 .0125998 6.4 717.04 52.18 .3
** NMED source ID=38049EQPT11 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E11 POINT 638749.518 3550919.499 0
SO SRCPARAM 38049E11 .0125998 6.4 717.04 52.18 .3
** NMED source ID=38049EQPT12 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=26-JUL-18
** SCC=20200254
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E12 POINT 638758.201 3550920.641 0
SO SRCPARAM 38049E12 .0163797 7.01 707.04 34.02 .46
** NMED source ID=38049EQPT13 Facility's ID=Rbl-2
** Description=Dehydrator Reboiler 2 Construction date=29-JUL-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1574hr/yr, 4hr/day
SO LOCATION 38049E13 POINT 638763.911 3550927.569 0
SO SRCPARAM 38049E13 .0005796 3.05 588.71 1.31 .3
**********END OF 38049: Seawolf Compressor Station
INFO**********************************
************************************************************
** 13.86km away. Facility ID=39450 Name=North Bell Lake Facility Pad 1
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.33192, -103.49109, NAD83
** Total Particulate Matter (10 microns or less) emissions=.71tons/year
*****************Facility sources: ******************************
** NMED source ID=39450EQPT37 Facility's ID=HS-1
** Description=2.0 MMBtu/h Heated Separator Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E37 VOLUME 642015.864 3578227.833 0
SO SRCPARAM 39450E37 .00252 4.57 .47 .93
** NMED source ID=39450EQPT38 Facility's ID=HS-2
** Description=2.0 MMBtu/h Heated Seperator Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E38 VOLUME 642023.4 3578234.854 0
SO SRCPARAM 39450E38 .00252 4.57 .47 .93
** NMED source ID=39450EQPT45 Facility's ID=HT-1
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E45 VOLUME 642016.614 3578238.406 0
SO SRCPARAM 39450E45 .00252 4.57 .47 .93
** NMED source ID=39450EQPT46 Facility's ID=HT-2
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E46 VOLUME 642009.017 3578236.314 0
SO SRCPARAM 39450E46 .00252 4.57 .47 .93
** NMED source ID=39450EQPT47 Facility's ID=HT-3
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E47 VOLUME 642004.776 3578229.414 0
SO SRCPARAM 39450E47 .00252 4.57 .47 .93
** NMED source ID=39450EQPT48 Facility's ID=HT-4
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E48 VOLUME 642006.428 3578221.26 0
SO SRCPARAM 39450E48 .00252 4.57 .47 .93
** NMED source ID=39450EQPT49 Facility's ID=HT-5
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E49 VOLUME 642013.377 3578216.298 0
SO SRCPARAM 39450E49 .00252 4.57 .47 .93
** NMED source ID=39450EQPT50 Facility's ID=HT-6
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E50 VOLUME 642022.06 3578217.44 0
SO SRCPARAM 39450E50 .00252 4.57 .47 .93
** NMED source ID=39450EQPT51 Facility's ID=HT-7
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E51 VOLUME 642027.77 3578224.368 0
SO SRCPARAM 39450E51 .00252 4.57 .47 .93
** NMED source ID=39450EQPT52 Facility's ID=HT-8
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E52 VOLUME 642027.205 3578233.549 0
SO SRCPARAM 39450E52 .00252 4.57 .47 .93
** NMED source ID=39450RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=13-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450R3 VOLUME 642020.37 3578240.027 0
SO SRCPARAM 39450R3 .0667789 10 10 9.3
**********END OF 39450: North Bell Lake Facility Pad 1
INFO**********************************
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** 13.88km away. Facility ID=38868 Name=Coonskin Fee 28D CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8213 NOI
** lat,long,datum=32.195608, -103.377639, WGS84
** Total Particulate Matter (10 microns or less) emissions=.49tons/year
*****************Facility sources: ****************************
** NMED source ID=38868AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=11-AUG-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38868A1 VOLUME 652923.344 3563271.525 0
SO SRCPARAM 38868A1 .0075599 1 .47 .93
** NMED source ID=38868EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38868E4 VOLUME 652930.88 3563278.546 0
SO SRCPARAM 38868E4 .00126 6.71 .47 .93
** NMED source ID=38868EQPT7 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38868E7 POINT 652924.094 3563282.098 0
SO SRCPARAM 38868E7 .00252 3.66 867.04 16.4 .15
** NMED source ID=38868EQPT8 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38868E8 POINT 652916.497 3563280.006 0
SO SRCPARAM 38868E8 .00252 3.66 867.04 16.4 .15
** NMED source ID=38868EQPT9 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38868E9 POINT 652912.256 3563273.106 0
SO SRCPARAM 38868E9 .00252 3.66 867.04 16.4 .15
** NMED source ID=38868EQPT10 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38868E10 POINT 652913.908 3563264.952 0
SO SRCPARAM 38868E10 .0075599 6.1 778.71 7.62 .3
**********END OF 38868: Coonskin Fee 28D CTB
INFO**********************************
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************************************************************
** 13.9km away. Facility ID=38788 Name=Kaiser-Francis - North Bell Lake Pad 0
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.335314, -103.530631, NAD83
** Total Particulate Matter (10 microns or less) emissions=.15tons/year
**********Facility sources: ****************************
** NMED source ID=38788EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1, 1MMBtu/hr Construction date=29-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38788E1 POINT 638288.818 3578552.358 0
SO SRCPARAM 38788E1 .00126 4.57 369.82 7.99 .09
** NMED source ID=38788EQPT2 Facility's ID=HT-2
** Description=Heater Treater 2, 1MMBtu/hr Construction date=29-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38788E2 POINT 638296.354 3578559.379 0
SO SRCPARAM 38788E2 .00126 4.57 369.82 7.99 .09
** NMED source ID=38788EQPT3 Facility's ID=HT-3
** Description=Heater Treater 3, 1MMBtu/hr Construction date=29-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38788E3 POINT 638289.568 3578562.931 0
SO SRCPARAM 38788E3 .00126 4.57 369.82 7.99 .09
** NMED source ID=38788EQPT4 Facility's ID=HT-4
** Description=Heater Treater 4, 1MMBtu/hr Construction date=29-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38788E4 POINT 638281.971 3578560.839 0
SO SRCPARAM 38788E4 .00126 4.57 369.82 7.99 .09
** NMED source ID=38788EQPT5 Facility's ID=HT-5
** Description=Heater Treater 5, 1MMBtu/hr Construction date=29-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38788E5 POINT 638277.73 3578553.939 0
SO SRCPARAM 38788E5 .00126 4.57 369.82 7.99 .09
**********END OF 38788: Kaiser-Francis - North Bell Lake Pad 0
INFO**********************************
************************************************************
** 13.9km away. Facility ID=40474 Name=North Bell Lake Pad 6
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.33512, -103.51409, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
```

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**********Facility sources: ****************************
** NMED source ID=40474EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=15-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40474E3 VOLUME 639846.013 3578552.332 0
SO SRCPARAM 40474E3 .00126 4.57 .47 .93
** NMED source ID=40474EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=15-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40474E4 VOLUME 639853.549 3578559.353 0
SO SRCPARAM 40474E4 .00126 4.57 .47 .93
**********END OF 40474: North Bell Lake Pad 6
INFO**********************************
************************************************************
** 13.91km away. Facility ID=40951 Name=Colorado West Pad
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.22568, -103.37727, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
**********Facility sources: ****************************
** NMED source ID=40951EQPT3 Facility's ID=HT1
** Description=Heater Construction date=15-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40951E3 POINT 652907.785 3566605.997 0
SO SRCPARAM 40951E3 .00126 4.57 672.04 .05 .3
**********END OF 40951: Colorado West Pad INFO**********************************
************************************************************
** 13.94km away. Facility ID=40449 Name=North Bell Lake Pad 2
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3358, -103.52491, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
**********Facility sources: ****************************
** NMED source ID=40449EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=27-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40449E3 VOLUME 638826.556 3578613.641 0
SO SRCPARAM 40449E3 .00126 4.57 .47 .93
** NMED source ID=40449EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=27-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40449E4 VOLUME 638834.092 3578620.662 0
SO SRCPARAM 40449E4 .00126 4.57 .47 .93
**********END OF 40449: North Bell Lake Pad 2
INFO**********************************
************************************************************
** 13.96km away. Facility ID=40473 Name=North Bell Lake Pad 4
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.33591, -103.51897, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40473EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=27-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40473E3 POINT 639385.478 3578633.552 0
SO SRCPARAM 40473E3 .00126 4.57 369.82 7.99 .09
** NMED source ID=40473EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=27-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40473E4 POINT 639393.014 3578640.573 0
SO SRCPARAM 40473E4 .00126 4.57 369.82 7.99 .09
**********END OF 40473: North Bell Lake Pad 4
INFO**********************************
************************************************************
** 13.99km away. Facility ID=40477 Name=North Bell Lake Pad 8
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.33548, -103.50786, NAD83
** Total Particulate Matter (10 microns or less) emissions=.69tons/year
*****************Facility sources: ****************************
** NMED source ID=40477EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=15-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40477E3 VOLUME 640431.849 3578600.396 0
SO SRCPARAM 40477E3 .00126 4.57 .47 .93
** NMED source ID=40477EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=15-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40477E4 VOLUME 640439.385 3578607.417 0
SO SRCPARAM 40477E4 .00126 4.57 .47 .93
** NMED source ID=40477EQPT5 Facility's ID=HT-3
```

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** Description=Heater Treater 3 Construction date=15-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40477E5 VOLUME 640432.599 3578610.969 0
SO SRCPARAM 40477E5 .00126 4.57 .47 .93
** NMED source ID=40477EQPT6 Facility's ID=HT-4
** Description=Heater Treater 4 Construction date=15-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40477E6 VOLUME 640425.002 3578608.877 0
SO SRCPARAM 40477E6 .00126 4.57 .47 .93
** NMED source ID=40477EQPT19 Facility's ID=ENG-1
** Description=Caterpillar G3606 A4 Construction date=10-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40477E19 POINT 640420.761 3578601.977 0
SO SRCPARAM 40477E19 .0163797 8.29 707.04 34.23 .46
**********END OF 40477: North Bell Lake Pad 8
INFO**********************************
************************************************************
** 14km away. Facility ID=41037 Name=Cascade 29 CTB
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.09843, -103.591204, WGS84
** Total Particulate Matter (10 microns or less) emissions=.91tons/year
*****************Facility sources: ******************************
** NMED source ID=41037ACT 1 Facility's ID=HR
** Description=Haul Road Construction date=22-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037@1 VOLUME 632931.835 3552214.592 0
SO SRCPARAM 41037@1 .1159182 10 10 9.3
** NMED source ID=41037EQPT1 Facility's ID=Flare 1
** Description=Flare Construction date=22-MAY-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037E1 POINT 632939.371 3552221.613 0
SO SRCPARAM 41037E1 .0037799 9.14 1273 20 2.632
** NMED source ID=41037EQPT2 Facility's ID=HTR-1
** Description=2.0 MMBtu/hr Heater Treater Construction date=22-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037E2 VOLUME 632932.585 3552225.165 0
SO SRCPARAM 41037E2 .00126 4.57 .47 .93
```

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** NMED source ID=41037EQPT3 Facility's ID=HTR-2
** Description=2.0 MMBtu/hr Heater Treater Construction date=22-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037E3 VOLUME 632924.988 3552223.073 0
SO SRCPARAM 41037E3 .00126 4.57 .47 .93
** NMED source ID=41037EQPT4 Facility's ID=HTR-3
** Description=2.0 MMBtu/hr Heater Treater Construction date=22-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037E4 VOLUME 632920.747 3552216.173 0
SO SRCPARAM 41037E4 .00126 4.57 .47 .93
** NMED source ID=41037EQPT12 Facility's ID=Flare 1 SSM
** Description=Flare Construction date=22-MAY-23
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037E12 POINT 632922.399 3552208.019 0
SO SRCPARAM 41037E12 .0094876 9.14 1273 20 4.652
**********END OF 41037: Cascade 29 CTB INFO************************************
************************************************************
** 14.03km away. Facility ID=40618 Name=Perseus Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.24839, -103.66606, WGS84
** Total Particulate Matter (10 microns or less) emissions=6.85tons/year
*****************Facility sources: ******************************
** NMED source ID=40618EQPT3 Facility's ID=ENG-1
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E3 POINT 625661.83 3568749.089 0
SO SRCPARAM 40618E3 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT4 Facility's ID=ENG-2
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E4 POINT 625669.366 3568756.11 0
SO SRCPARAM 40618E4 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT5 Facility's ID=ENG-3
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E5 POINT 625662.58 3568759.662 0
SO SRCPARAM 40618E5 .0214197 6.1 703.15 46.33 .46
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** NMED source ID=40618EQPT6 Facility's ID=ENG-4
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E6 POINT 625654.983 3568757.57 0
SO SRCPARAM 40618E6 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT7 Facility's ID=ENG-5
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E7 POINT 625650.742 3568750.67 0
SO SRCPARAM 40618E7 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT8 Facility's ID=ENG-6
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E8 POINT 625652.394 3568742.516 0
SO SRCPARAM 40618E8 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT9 Facility's ID=ENG-7
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E9 POINT 625659.343 3568737.554 0
SO SRCPARAM 40618E9 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT10 Facility's ID=ENG-8
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E10 POINT 625668.026 3568738.696 0
SO SRCPARAM 40618E10 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT11 Facility's ID=ENG-9
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E11 POINT 625673.736 3568745.624 0
SO SRCPARAM 40618E11 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT14 Facility's ID=Heater-1
** Description=0.75 MMbtu/h Seperator Heater Construction date=20-SEP-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E14 VOLUME 625673.171 3568754.805 0
SO SRCPARAM 40618E14 .00126 3.96 .47 .93
** NMED source ID=40618EQPT16 Facility's ID=Reboiler-1
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** Description=2 MMbtu/hr Dehydrator Reboiler Construction date=20-SEP-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E16 POINT 625666.336 3568761.283 0
SO SRCPARAM 40618E16 .00252 3.96 588.71 5.33 .3
**********END OF 40618: Perseus Compressor Station
INFO**********************************
************************************************************
** 14.08km away. Facility ID=39677 Name=Rojo 7811 27 Fed Com 18H 19H Battery
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=8939 NOI
** lat,long,datum=32.0895, -103.5671, WGS84
** Total Particulate Matter (10 microns or less) emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=39677EQPT1 Facility's ID=HT-01
** Description=Heater Treater Construction date=01-JAN-20
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39677E1 VOLUME 635219.614 3551254.598 0
SO SRCPARAM 39677E1 .00126 7.32 .47 .93
** NMED source ID=39677EQPT9 Facility's ID=HT-02
** Description=Heater Treater Construction date=01-AUG-19
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39677E9 VOLUME 635227.15 3551261.619 0
SO SRCPARAM 39677E9 .00126 7.32 .47 .93
**********END OF 39677: Rojo 7811 27 Fed Com 18H 19H Battery
INFO**********************************
************************************************************
** 14.1km away. Facility ID=36953 Name=Charro Compressor Station
** Company ID=13452 Name=Delaware G & P, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.20334, -103.67332, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.38tons/year
*****************Facility sources: ******************************
** NMED source ID=36953EQPT5 Facility's ID=H-1
** Description=Glycol Dehydrator Reboiler Construction date=22-FEB-17
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36953E5 POINT 625039.537 3563746.401 0
SO SRCPARAM 36953E5 .0005796 4.57 699.82 4.3 .15
** NMED source ID=36953EQPT8 Facility's ID=H-2A
** Description=Glycol Dehydrator Reboiler Construction date=22-FEB-17
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
```

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SO LOCATION 36953E8 POINT 625047.073 3563753.422 0
SO SRCPARAM 36953E8 .0005796 4.57 699.82 4.3 .15
** NMED source ID=36953EQPT14 Facility's ID=E-3
** Description=Caterpillar 3606 Construction date=27-SEP-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6933hr/yr, 24hr/day
SO LOCATION 36953E14 POINT 625040.287 3563756.974 0
SO SRCPARAM 36953E14 .0163797 9.14 737.04 77.66 .3
** NMED source ID=36953EQPT15 Facility's ID=E-4
** Description=Caterpillar 3606 Construction date=27-SEP-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6607hr/yr, 24hr/day
SO LOCATION 36953E15 POINT 625032.69 3563754.882 0
SO SRCPARAM 36953E15 .0163797 9.14 737.04 77.66 .3
** NMED source ID=36953EQPT17 Facility's ID=E-2A
** Description=Caterpillar 3608 A4 Construction date=25-APR-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7826hr/yr, 24hr/day
SO LOCATION 36953E17 POINT 625028.449 3563747.982 0
SO SRCPARAM 36953E17 .0214197 7.62 743.15 103.21 .3
** NMED source ID=36953EQPT19 Facility's ID=E-5a
** Description=Caterpillar 3608 Construction date=12-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36953E19 POINT 625030.101 3563739.828 0
SO SRCPARAM 36953E19 .0201597 9.14 743.15 103.21 .3
** NMED source ID=36953EQPT20 Facility's ID=E-6
** Description=Waukesha VHP - P9394GSI S5 2500 BHP 1200 RPM Construction
date=29-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36953E20 POINT 625037.05 3563734.866 0
SO SRCPARAM 36953E20 .0214197 9.14 710.37 103.39 .3
** NMED source ID=36953EQPT21 Facility's ID=ECD-1
** Description=N/A Construction date=29-JUN-23
** SCC=31000209
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36953E21 POINT 625045.733 3563736.008 0
SO SRCPARAM 36953E21 .0017262 3.96 922.04 .45 1.52
**********END OF 36953: Charro Compressor Station
INFO**********************************
************************************************************
** 14.14km away. Facility ID=40519 Name=Red Bull 35 Federal 1H Battery
** Company ID=11135 Name=COG Operating LLC
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** SIC=1311 NAIC=21112    Permit=9670 NOI
** lat,long,datum=32.0849, -103.5457, WGS84
** Total Particulate Matter (10 microns or less) emissions=.2tons/year
*****************Facility sources: ****************************
** NMED source ID=40519AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=18-JUL-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40519A1 VOLUME 637246.152 3550771.682 0
SO SRCPARAM 40519A1 .0050399 1 .47 .93
** NMED source ID=40519EQPT2 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=18-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40519E2 VOLUME 637253.688 3550778.703 0
SO SRCPARAM 40519E2 .0005796 6.71 .47 .93
**********END OF 40519: Red Bull 35 Federal 1H Battery
INFO*************************************
************************************************************
** 14.16km away. Facility ID=40475 Name=North Bell Lake Pad 16
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.33514, -103.49328, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40475EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=21-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40475E3 VOLUME 641804.702 3578581.915 0
SO SRCPARAM 40475E3 .00126 4.57 .47 .93
** NMED source ID=40475EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=21-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40475E4 VOLUME 641812.238 3578588.936 0
SO SRCPARAM 40475E4 .00126 4.57 .47 .93
**********END OF 40475: North Bell Lake Pad 16
INFO*************************************
************************************************************
** 14.17km away. Facility ID=40869 Name=Double ABJ Federal 16P CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9836 NOI
** lat,long,datum=32.213801, -103.674306, WGS84
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
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** NMED source ID=40869AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=23-JAN-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40869A1 VOLUME 624932.295 3564904.951 0
SO SRCPARAM 40869A1 .0005796 1 .47 .93
** NMED source ID=40869EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=23-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40869E3 VOLUME 624939.831 3564911.972 0
SO SRCPARAM 40869E3 .00126 6.71 .47 .93
** NMED source ID=40869EQPT4 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=23-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40869E4 VOLUME 624933.045 3564915.524 0
SO SRCPARAM 40869E4 .00126 6.71 .47 .93
**********END OF 40869: Double ABJ Federal 16P CTB
INFO**********************************
************************************************************
** 14.24km away. Facility ID=39642 Name=Rojo 38H 39H Gas LIft Station
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0874, -103.5646, WGS84
** Total Particulate Matter (10 microns or less) emissions=.22tons/year
*****************Facility sources: ******************************
** NMED source ID=39642EQPT1 Facility's ID=ENG-01
** Description=CAT G3406TA, 325 hp, 4SRB RICE Construction date=20-AUG-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39642E1 POINT 635458.655 3551024.932 0
SO SRCPARAM 39642E1 .0062999 3.66 798.71 35.39 .15
**********END OF 39642: Rojo 38H 39H Gas LIft Station
INFO**********************************
************************************************************
** 14.26km away. Facility ID=38075 Name=Red Hills Unit 17H, 21H, 36H-38H, 75H,
99H-101H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.091194, -103.5787, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.24tons/year
*****************Facility sources: ******************************
** NMED source ID=38075AREA1 Facility's ID=HR
** Description=Haul Road Construction date=03-MAY-22
** SCC=31088811
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075A1 VOLUME 634122.374 3551427.904 0
SO SRCPARAM 38075A1 .1159182 10 10 9.3
** NMED source ID=38075EQPT17 Facility's ID=H1
** Description=Heater Treater Construction date=03-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E17 VOLUME 634129.91 3551434.925 0
SO SRCPARAM 38075E17 .00126 4.57 .47 .93
** NMED source ID=38075EQPT18 Facility's ID=H2
** Description=Heater Treater Construction date=03-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E18 VOLUME 634123.124 3551438.477 0
SO SRCPARAM 38075E18 .00126 4.57 .47 .93
** NMED source ID=38075EQPT19 Facility's ID=H3
** Description=Heater Treater Construction date=03-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E19 VOLUME 634115.527 3551436.385 0
SO SRCPARAM 38075E19 .00126 4.57 .47 .93
** NMED source ID=38075EQPT20 Facility's ID=H4
** Description=Heater Treater Construction date=03-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E20 VOLUME 634111.286 3551429.485 0
SO SRCPARAM 38075E20 .00126 4.57 .47 .93
** NMED source ID=38075EQPT27 Facility's ID=ENG1
** Description=Compressor Engine Construction date=28-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E27 POINT 634112.938 3551421.331 0
SO SRCPARAM 38075E27 .00252 3.66 907.59 17.98 .15
** NMED source ID=38075EQPT28 Facility's ID=ENG2
** Description=Compressor Engine Construction date=28-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E28 POINT 634119.887 3551416.369 0
SO SRCPARAM 38075E28 .00252 3.66 907.59 17.98 .15
** NMED source ID=38075EQPT29 Facility's ID=ENG3
** Description=Compressor Engine Construction date=28-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E29 POINT 634128.57 3551417.511 0
SO SRCPARAM 38075E29 .00252 3.66 907.59 17.98 .15
**********END OF 38075: Red Hills Unit 17H, 21H, 36H-38H, 75H, 99H-101H
INFO**********************************
************************************************************
** 14.27km away. Facility ID=39650 Name=Rojo 18H 19H Gas Lift Station
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0866, -103.5623, WGS84
** Total Particulate Matter (10 microns or less) emissions=.22tons/year
*****************Facility sources: ****************************
** NMED source ID=39650EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=28-AUG-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39650E1 POINT 635676.908 3550939.136 0
SO SRCPARAM 39650E1 .0062999 3.66 798.71 35.39 .15
**********END OF 39650: Rojo 18H 19H Gas Lift Station
INFO**********************************
************************************************************
** 14.27km away. Facility ID=38954 Name=Biggers Fed West TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.125171, -103.410865, NAD83
** Total Particulate Matter (10 microns or less) emissions=.46tons/year
*****************Facility sources: ****************************
** NMED source ID=38954AREA1 Facility's ID=HR-1
** Description=Unpaved Road Emissions Construction date=11-MAY-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38954A1 VOLUME 649906.433 3555415.822 0
SO SRCPARAM 38954A1 .2116766 10 20 9.3
** NMED source ID=38954EQPT1 Facility's ID=HT-1
** Description=Heater Treater: 0.5 MMBtu/hr Construction date=11-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38954E1 POINT 649913.969 3555422.843 0
SO SRCPARAM 38954E1 .0005796 6.1 644.26 2.09 .2
** NMED source ID=38954EQPT17 Facility's ID=GEN-1
** Description=4-STROKE RICH-BURN Generator Construction date=31-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38954E17 POINT 649907.183 3555426.395 0
SO SRCPARAM 38954E17 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38954EQPT18 Facility's ID=GEN-2
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** Description=4-STROKE RICH-BURN Generator Construction date=31-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38954E18 POINT 649899.586 3555424.303 0
SO SRCPARAM 38954E18 .0050399 6.1 1023.15 8.16 .3
**********END OF 38954: Biggers Fed West TB
INFO**********************************
************************************************************
** 14.28km away. Facility ID=40476 Name=North Bell Lake Pad 18
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.33471, -103.48585, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40476EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=27-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40476E3 VOLUME 642504.72 3578544.107 0
SO SRCPARAM 40476E3 .00126 4.57 .47 .93
** NMED source ID=40476EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=27-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40476E4 VOLUME 642512.256 3578551.128 0
SO SRCPARAM 40476E4 .00126 4.57 .47 .93
**********END OF 40476: North Bell Lake Pad 18
INFO**********************************
************************************************************
** 14.29km away. Facility ID=40840 Name=Rio Blanco 4 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9831 NOI
** lat,long,datum=32.333368, -103.479772, NAD83
** Total Particulate Matter (10 microns or less) emissions=.38tons/year
*****************Facility sources: ******************************
** NMED source ID=40840EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=12-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40840E1 POINT 643078.922 3578403.43 0
SO SRCPARAM 40840E1 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40840EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=12-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40840E2 POINT 643086.458 3578410.451 0
SO SRCPARAM 40840E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40840: Rio Blanco 4 Wellpad 2
INFO**********************************
************************************************************
** 14.31km away. Facility ID=36290 Name=Resolute BTO Federal Com No 2H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.116212, -103.62697, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.63tons/year
*****************Facility sources: ******************************
** NMED source ID=36290AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=04-NOV-15
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36290A1 VOLUME 629531.609 3554142.328 0
SO SRCPARAM 36290A1 .0579591 1 .47 .93
**********END OF 36290: Resolute BTO Federal Com No 2H
INFO**********************************
************************************************************
** 14.34km away. Facility ID=36657 Name=North Thistle 2 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6784 NOI
** lat,long,datum=32.338503, -103.541186, NAD83
** Total Particulate Matter (10 microns or less) emissions=.61tons/year
*****************Facility sources: ******************************
** NMED source ID=36657AREA1 Facility's ID=28
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36657A1 VOLUME 637290.531 3578892.322 0
SO SRCPARAM 36657A1 .2784556 10 20 9.3
** NMED source ID=36657EQPT4 Facility's ID=38
** Description=Cat CG137-8 Engine_EQ000074417 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36657E4 POINT 637298.067 3578899.343 0
SO SRCPARAM 36657E4 .0075599 4.39 778.71 13.8 .26
** NMED source ID=36657EQPT11 Facility's ID=33
** Description=Heater_EQ000060300 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36657E11 VOLUME 637291.281 3578902.895 0
SO SRCPARAM 36657E11 .00126 9.14 .47 .93
**********END OF 36657: North Thistle 2 CTB 1
INFO**********************************
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** 14.34km away. Facility ID=38108 Name=Cimarex - Red Hills Unit 16H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=7521 NOI
** lat,long,datum=32.091117, -103.580869, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.1tons/year
*****************Facility sources: ******************************
** NMED source ID=38108RPNT1 Facility's ID=FUG
** Description=Fugitives (including haul roads) Construction date=08-NOV-17
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8630hr/yr, 24hr/day
SO LOCATION 38108R1 VOLUME 633917.788 3551416.672 0
SO SRCPARAM 38108R1 .060416 1 .47 .93
**********END OF 38108: Cimarex - Red Hills Unit 16H
INFO*********************************
**************************************************************
** 14.35km away. Facility ID=38021 Name=Devon - Rio Blanco 4 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.334722, -103.482944, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.92tons/year
*****************Facility sources: ******************************
** NMED source ID=38021AREA1 Facility's ID=19
** Description=Haul roads Construction date=02-AUG-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38021A1 VOLUME 642778.227 3578549.308 0
SO SRCPARAM 38021A1 .2771956 10 20 9.3
** NMED source ID=38021EQPT1 Facility's ID=25
** Description=Combustion Engine 1 400hp Construction date=02-AUG-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38021E1 POINT 642785.763 3578556.329 0
SO SRCPARAM 38021E1 .0075599 2.99 778.71 15 .26
** NMED source ID=38021EQPT7 Facility's ID=12
** Description=Heater Treater 1.0 MMBtu/hr Construction date=02-AUG-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38021E7 VOLUME 642778.977 3578559.881 0
SO SRCPARAM 38021E7 .00126 9.14 .47 .93
** NMED source ID=38021EQPT8 Facility's ID=13
** Description=Heater Treater 1.0 MMBtu/hr Construction date=02-AUG-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38021E8 VOLUME 642771.38 3578557.789 0
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SO SRCPARAM 38021E8 .00126 9.14 .47 .93
** NMED source ID=38021EQPT13 Facility's ID=23
** Description=Low Pressure Compressor Engine 92 hp Construction date=02-AUG-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38021E13 POINT 642767.139 3578550.889 0
SO SRCPARAM 38021E13 .00252 2.99 922.04 67.27 .09
** NMED source ID=38021EQPT14 Facility's ID=24
** Description=Low Pressure Compressor Engine 92 hp Construction date=02-AUG-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38021E14 POINT 642768.791 3578542.735 0
SO SRCPARAM 38021E14 .00252 2.99 922.04 67.27 .09
** NMED source ID=38021EQPT15 Facility's ID=27
** Description=Combustion Engine 2 400hp Construction date=15-MAR-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38021E15 POINT 642775.74 3578537.773 0
SO SRCPARAM 38021E15 .0075599 2.99 778.71 15 .26
**********END OF 38021: Devon - Rio Blanco 4 CTB 1
INFO************************************
************************************************************
** 14.37km away. Facility ID=40136 Name=Coonskin CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.176318, -103.376818, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.24tons/year
*****************Facility sources: ******************************
** NMED source ID=40136AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=22-SEP-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136A1 VOLUME 653033.022 3561134.106 0
SO SRCPARAM 40136A1 .3527944 10 30 9.3
** NMED source ID=40136EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516J Compressor, 1346 hp Construction date=22-SEP-21
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136E1 POINT 653040.558 3561141.127 0
SO SRCPARAM 40136E1 .0113398 4.57 728.71 110.64 .2
** NMED source ID=40136EQPT2 Facility's ID=HT-1
** Description=2 MMBTU/hr Heater Treater Construction date=22-SEP-21
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40136E2 VOLUME 653033.772 3561144.679 0
SO SRCPARAM 40136E2 .00252 4.57 .47 .93
** NMED source ID=40136EQPT11 Facility's ID=GEN-1
** Description=Generator PSI 581hp Construction date=25-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136E11 POINT 653026.175 3561142.587 0
SO SRCPARAM 40136E11 .0125998 4.57 1023.15 43.28 .2
** NMED source ID=40136EQPT12 Facility's ID=GEN-2
** Description=Generator PSI 581hp Construction date=25-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136E12 POINT 653021.934 3561135.687 0
SO SRCPARAM 40136E12 .0125998 4.57 1023.15 43.28 .2
** NMED source ID=40136EQPT13 Facility's ID=GEN-3
** Description=Generator PSI 581hp Construction date=25-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136E13 POINT 653023.586 3561127.533 0
SO SRCPARAM 40136E13 .0125998 4.57 1023.15 43.28 .2
** NMED source ID=40136EQPT14 Facility's ID=GEN-4
** Description=Generator PSI 581hp Construction date=25-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136E14 POINT 653030.535 3561122.571 0
SO SRCPARAM 40136E14 .0125998 4.57 1023.15 43.28 .2
**********END OF 40136: Coonskin CTB INFO************************************
************************************************************
** 14.4km away. Facility ID=39049 Name=Cotton Draw Section 3 Compressor Station
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.153411, -103.660972, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.8tons/year
*****************Facility sources: ******************************
** NMED source ID=39049EQPT1 Facility's ID=ENG-1
** Description=2500 hp 4SLB w/oxidation catalyst Construction date=21-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E1 POINT 626272.33 3558225.765 0
SO SRCPARAM 39049E1 .0214197 6.1 712.59 58.83 .3
** NMED source ID=39049EQPT2 Facility's ID=ENG-2
** Description=2500 hp 4SLB w/oxidation catalyst Construction date=21-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39049E2 POINT 626279.866 3558232.786 0
SO SRCPARAM 39049E2 .0214197 6.1 300.93 58.83 .3
** NMED source ID=39049EQPT3 Facility's ID=ENG-3
** Description=2500 hp 4SLB w/oxidation catalyst Construction date=21-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E3 POINT 626273.08 3558236.338 0
SO SRCPARAM 39049E3 .0214197 6.1 712.59 58.83 .3
** NMED source ID=39049EQPT4 Facility's ID=REB-1
** Description=TEG reboiler Construction date=21-JUL-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E4 POINT 626265.483 3558234.246 0
SO SRCPARAM 39049E4 .00126 5.79 533.15 1.67 .46
** NMED source ID=39049EQPT9 Facility's ID=ENG-4
** Description=2500 hp 4SLB w/oxidation catalyst Construction date=06-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E9 POINT 626261.242 3558227.346 0
SO SRCPARAM 39049E9 .0214197 6.1 712.59 58.83 .3
** NMED source ID=39049EQPT10 Facility's ID=ENG-5
** Description=2500 hp 4SLB w/oxidation catalyst Construction date=06-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E10 POINT 626262.894 3558219.192 0
SO SRCPARAM 39049E10 .0214197 6.1 712.59 58.83 .3
**********END OF 39049: Cotton Draw Section 3 Compressor Station
INFO**********************************
************************************************************
** 14.47km away. Facility ID=38422 Name=Angus Brahman Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7826 NOI
** lat,long,datum=32.22425, -103.371097, WGS84
** Total Particulate Matter (10 microns or less) emissions=.38tons/year
*****************Facility sources: ****************************
** NMED source ID=38422AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=20-APR-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38422A1 VOLUME 653491.931 3566456.264 0
SO SRCPARAM 38422A1 .00126 1 .47 .93
** NMED source ID=38422EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38422E4 VOLUME 653499.467 3566463.285 0
SO SRCPARAM 38422E4 .00252 4.57 .47 .93
** NMED source ID=38422EQPT6 Facility's ID=ENG-01
** Description=Engine Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 14hr/day
SO LOCATION 38422E6 POINT 653492.681 3566466.837 0
SO SRCPARAM 38422E6 .0075599 4.88 1000.37 14.84 .28
**********END OF 38422: Angus Brahman Battery
INFO**********************************
************************************************************
** 14.49km away. Facility ID=38226 Name=Beowulf 33 CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=7635 NOI
** lat,long,datum=32.256725, -103.379983, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.06tons/year
*****************Facility sources: ****************************
** NMED source ID=38226AREA1 Facility's ID=HAUL
** Description=Haul Road Construction date=31-JAN-18
** SCC=unknown
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3455hr/yr, 23hr/day
SO LOCATION 38226A1 VOLUME 652600.182 3570043.971 0
SO SRCPARAM 38226A1 .0304915 1 .47 .93
**********END OF 38226: Beowulf 33 CTB  INFO************************************
************************************************************
** 14.53km away. Facility ID=32720 Name=EOG - Brown Bear 36 State No 1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0802, -103.5325, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.65tons/year
*****************Facility sources: ****************************
** NMED source ID=32720AREA1 Facility's ID=HAUL
** Description=Haul Road Emissions Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6229hr/yr, 24hr/day
SO LOCATION 32720A1 VOLUME 638499.08 3550267.518 0
SO SRCPARAM 32720A1 .0579591 1 .47 .93
** NMED source ID=32720EQPT3 Facility's ID=HT-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6229hr/yr, 24hr/day
SO LOCATION 32720E3 VOLUME 638506.616 3550274.539 0
SO SRCPARAM 32720E3 .0005796 5.18 .47 .93
**********END OF 32720: EOG - Brown Bear 36 State No 1H
INFO**********************************
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************************************************************
** 14.53km away. Facility ID=40841 Name=Rio Blanco 4 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9832 NOI
** lat,long,datum=32.333919, -103.473457, NAD83
** Total Particulate Matter (10 microns or less) emissions=.38tons/year
**********Facility sources: ****************************
** NMED source ID=40841EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=12-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40841E1 POINT 643672.459 3578472.972 0
SO SRCPARAM 40841E1 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40841EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=12-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40841E2 POINT 643679.995 3578479.993 0
SO SRCPARAM 40841E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40841: Rio Blanco 4 Wellpad 3
INFO**********************************
************************************************************
** 14.59km away. Facility ID=40110 Name=FME - Colorado Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.225587, -103.370022, NAD83
** Total Particulate Matter (10 microns or less) emissions=.4tons/year
**********Facility sources: ****************************
** NMED source ID=40110EQPT2 Facility's ID=HT-1
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E2 POINT 653590.992 3566606.029 0
SO SRCPARAM 40110E2 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT3 Facility's ID=HT-15
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1944hr/yr, 24hr/day
SO LOCATION 40110E3 POINT 653598.528 3566613.05 0
SO SRCPARAM 40110E3 .00126 6.1 810.93 .16 .3
** NMED source ID=40110EQPT9 Facility's ID=HT-2
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E9 POINT 653591.742 3566616.602 0
```

```
SO SRCPARAM 40110E9 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT10 Facility's ID=HT-3
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E10 POINT 653584.145 3566614.51 0
SO SRCPARAM 40110E10 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT11 Facility's ID=HT-4
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E11 POINT 653579.904 3566607.61 0
SO SRCPARAM 40110E11 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT12 Facility's ID=HT-5
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E12 POINT 653581.556 3566599.456 0
SO SRCPARAM 40110E12 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT13 Facility's ID=HT-6
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E13 POINT 653588.505 3566594.494 0
SO SRCPARAM 40110E13 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT14 Facility's ID=HT-7
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E14 POINT 653597.188 3566595.636 0
SO SRCPARAM 40110E14 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT15 Facility's ID=HT-8
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E15 POINT 653602.898 3566602.564 0
SO SRCPARAM 40110E15 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT16 Facility's ID=HT-9
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E16 POINT 653602.333 3566611.745 0
SO SRCPARAM 40110E16 .0005796 6.1 810.93 .05 .3
```

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** NMED source ID=40110EQPT17 Facility's ID=HT-10
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E17 POINT 653595.498 3566618.223 0
SO SRCPARAM 40110E17 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT18 Facility's ID=HT-11
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E18 POINT 653585.862 3566618.3 0
SO SRCPARAM 40110E18 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT19 Facility's ID=HT-12
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E19 POINT 653578.601 3566611.634 0
SO SRCPARAM 40110E19 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT20 Facility's ID=HT-13
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E20 POINT 653577.821 3566601.588 0
SO SRCPARAM 40110E20 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT21 Facility's ID=HT-14
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E21 POINT 653584.239 3566593.537 0
SO SRCPARAM 40110E21 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT22 Facility's ID=HT-16
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1944hr/yr, 24hr/day
SO LOCATION 40110E22 POINT 653594.641 3566591.996 0
SO SRCPARAM 40110E22 .00126 6.1 810.93 .16 .3
**********END OF 40110: FME - Colorado Central Tank Battery
INFO***********************************
************************************************************
** 14.63km away. Facility ID=40205 Name=EOG - Poseidon Local Gas Lift
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2569, -103.6693, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.43tons/year
```

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*****************Facility sources: ******************************
** NMED source ID=40205EQPT1 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.0 MMbtu/hr Construction date=19-OCT-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E1 POINT 625344.892 3569688.719 0
SO SRCPARAM 40205E1 .00126 3.96 588.71 2.65 .3
** NMED source ID=40205EQPT2 Facility's ID=Heater-1
** Description=Separator Heater 1.5 MMbtu/hr Construction date=19-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E2 POINT 625352.428 3569695.74 0
SO SRCPARAM 40205E2 .00126 3.96 588.71 3.96 .3
** NMED source ID=40205EQPT3 Facility's ID=ENG-1
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E3 POINT 625345.642 3569699.292 0
SO SRCPARAM 40205E3 .0151198 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT10 Facility's ID=ENG-2
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E10 POINT 625338.045 3569697.2 0
SO SRCPARAM 40205E10 .0151198 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT11 Facility's ID=ENG-3
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E11 POINT 625333.804 3569690.3 0
SO SRCPARAM 40205E11 .0151198 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT12 Facility's ID=ENG-4
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E12 POINT 625335.456 3569682.146 0
SO SRCPARAM 40205E12 .0151198 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT13 Facility's ID=ENG-5
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E13 POINT 625342.405 3569677.184 0
SO SRCPARAM 40205E13 .0151198 6.1 701.48 27.86 .51
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** NMED source ID=40205EQPT14 Facility's ID=ENG-6
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E14 POINT 625351.088 3569678.326 0
SO SRCPARAM 40205E14 .0151198 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT15 Facility's ID=ENG-7
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E15 POINT 625356.798 3569685.254 0
SO SRCPARAM 40205E15 .0151198 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT16 Facility's ID=ENG-8
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E16 POINT 625356.233 3569694.435 0
SO SRCPARAM 40205E16 .0151198 6.1 701.48 27.86 .51
**********END OF 40205: EOG - Poseidon Local Gas Lift
INFO***********************************
************************************************************
** 14.66km away. Facility ID=39516 Name=EOG- Valiant 24 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1133, -103.6288, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.32tons/year
*****************Facility sources: ****************************
** NMED source ID=39516EQPT9 Facility's ID=HTR-1
** Description=Heater, 1.5-MMBtu/hr Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39516E9 POINT 629363.061 3553817.309 0
SO SRCPARAM 39516E9 .00252 5.18 588.71 6.83 .3
** NMED source ID=39516EQPT10 Facility's ID=HTR-2
** Description=Heater, 0.75-MMBtu/hr Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8747hr/yr, 24hr/day
SO LOCATION 39516E10 POINT 629370.597 3553824.33 0
SO SRCPARAM 39516E10 .00252 5.18 588.71 3.41 .3
** NMED source ID=39516EQPT11 Facility's ID=Frac HTR-1
** Description=Heater, 0.5-MMBtu/hr Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39516E11 POINT 629363.811 3553827.882 0
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SO SRCPARAM 39516E11 .00126 5.18 588.71 2.29 .3
** NMED source ID=39516EQPT12 Facility's ID=Frac ENG-1
** Description=Compressor Engine, CAT, CG137-12, 600-hp Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39516E12 POINT 629356.214 3553825.79 0
SO SRCPARAM 39516E12 .0113398 6.1 847.04 37.95 .2
** NMED source ID=39516EQPT13 Facility's ID=Frac ENG-2
** Description=Compressor Engine, CAT, CG137-12, 600-hp Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39516E13 POINT 629351.973 3553818.89 0
SO SRCPARAM 39516E13 .0113398 6.1 847.04 37.95 .2
** NMED source ID=39516EQPT14 Facility's ID=Frac ENG-3
** Description=Compressor Engine, CAT, CG137-12, 600-hp Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39516E14 POINT 629353.625 3553810.736 0
SO SRCPARAM 39516E14 .0113398 6.1 847.04 37.95 .2
**********END OF 39516: EOG- Valiant 24 Fed Com CTB
INFO************************************
************************************************************
** 14.66km away. Facility ID=5778 Name=Columbus Federal 34 L CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9997 NOI
** lat,long,datum=32.08389, -103.566524, WGS84
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=5778AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=01-AUG-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5778A1 VOLUME 635282.242 3550633.4 0
SO SRCPARAM 5778A1 .0005796 1 .47 .93
** NMED source ID=5778EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5778E3 VOLUME 635289.778 3550640.421 0
SO SRCPARAM 5778E3 .00126 4.57 .47 .93
**********END OF 5778: Columbus Federal 34 L CTB
INFO************************************
************************************************************
** 14.69km away. Facility ID=39296 Name=Red Bull 29 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.27132, -103.385367, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.14tons/year
*****************Facility sources: ******************************
** NMED source ID=39296AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=30-DEC-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39296A1 VOLUME 652068.621 3571654.419 0
SO SRCPARAM 39296A1 .2784556 10 20 9.3
** NMED source ID=39296EQPT7 Facility's ID=HT-1
** Description=3.0 MMBtu/h Heater Treater Construction date=30-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39296E7 VOLUME 652076.157 3571661.44 0
SO SRCPARAM 39296E7 .0037799 9.14 .47 .93
**********END OF 39296: Red Bull 29 CTB 2 INFO************************************
************************************************************
** 14.71km away. Facility ID=39871 Name=Vandelay Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.186723, -103.370283, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.8tons/year
*****************Facility sources: ******************************
** NMED source ID=39871EQPT1 Facility's ID=1
** Description=Compressor Engine, Caterpillar 3516 Construction date=01-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8495hr/yr, 23hr/day
SO LOCATION 39871E1 POINT 653631.731 3562296.975 0
SO SRCPARAM 39871E1 .01294 7.01 725.93 29.93 .41
** NMED source ID=39871EQPT2 Facility's ID=2
** Description=Compressor Engine, Caterpillar 3516 Construction date=01-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8244hr/yr, 23hr/day
SO LOCATION 39871E2 POINT 653639.267 3562303.996 0
SO SRCPARAM 39871E2 .01294 7.01 725.93 29.93 .41
** NMED source ID=39871EQPT3 Facility's ID=3
** Description=Compressor Engine, Caterpillar 3516 Construction date=01-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8237hr/yr, 23hr/day
SO LOCATION 39871E3 POINT 653632.481 3562307.548 0
SO SRCPARAM 39871E3 .01294 7.01 725.93 29.93 .41
** NMED source ID=39871EQPT4 Facility's ID=4
** Description=Compressor Engine, Caterpillar 3516 Construction date=01-FEB-21
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8210hr/yr, 22hr/day
SO LOCATION 39871E4 POINT 653624.884 3562305.456 0
SO SRCPARAM 39871E4 .01294 7.01 725.93 29.93 .41
**********END OF 39871: Vandelay Compressor Station
INFO**********************************
************************************************************
** 14.71km away. Facility ID=40524 Name=Rio Blanco 4 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.336127, -103.475317, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.4tons/year
*****************Facility sources: ******************************
** NMED source ID=40524AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=08-AUG-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40524A1 VOLUME 643493.9 3578715.268 0
SO SRCPARAM 40524A1 .2784556 10 20 9.3
** NMED source ID=40524EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=08-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40524E2 VOLUME 643501.436 3578722.289 0
SO SRCPARAM 40524E2 .0037799 9.14 .47 .93
**********END OF 40524: Rio Blanco 4 CTB 2 INFO**********************************
************************************************************
** 14.73km away. Facility ID=7206 Name=Jayhawk 6 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10056 NOI
** lat,long,datum=32.078459, -103.514724, NAD83
** Total Particulate Matter (10 microns or less) emissions=.74tons/year
*****************Facility sources: ******************************
** NMED source ID=7206EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=09-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7206E1 POINT 640179.557 3550097.477 0
SO SRCPARAM 7206E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=7206EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=09-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7206E2 POINT 640187.093 3550104.498 0
SO SRCPARAM 7206E2 .0075599 4.39 1000.37 17.38 .26
** NMED source ID=7206EQPT3 Facility's ID=ENG 3
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** Description=ENG 3 Combustion Engine Construction date=09-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7206E3 POINT 640180.307 3550108.05 0
SO SRCPARAM 7206E3 .0075599 4.39 1000.37 17.38 .26
**********END OF 7206: Jayhawk 6 Wellpad 1 INFO**********************************
**********************************************************
** 14.75km away. Facility ID=36131 Name=EOG - Jafar Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.078333, -103.533889, NAD83
** Total Particulate Matter (10 microns or less) emissions=.07tons/year
*****************Facility sources: ****************************
** NMED source ID=36131EQPT7 Facility's ID=HTR-1
** Description=0.75 MMBtu/hr Heater Treater Construction date=01-DEC-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36131E7 VOLUME 638370.79 3550058.76 0
SO SRCPARAM 36131E7 .00126 5.18 .47 .93
** NMED source ID=36131EQPT8 Facility's ID=REB-1
** Description=1.0MMBtu/hr TEG Reboiler Construction date=01-DEC-15
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36131E8 POINT 638378.326 3550065.781 0
SO SRCPARAM 36131E8 .00126 5.18 588.71 4.51 .3
**********END OF 36131: EOG - Jafar Compressor Station
INFO**********************************
**********************************************************
** 14.78km away. Facility ID=7227 Name=Jayhawk 6 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10057 NOI
** lat,long,datum=32.078143, -103.511755, NAD83
** Total Particulate Matter (10 microns or less) emissions=.41tons/year
*****************Facility sources: ****************************
** NMED source ID=7227EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=09-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7227E1 POINT 640460.281 3550066.308 0
SO SRCPARAM 7227E1 .0088199 3.51 1000.37 71.17 .13
** NMED source ID=7227EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=09-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7227E2 POINT 640467.817 3550073.329 0
```

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SO SRCPARAM 7227E2 .0037799 3.6 853.15 19.96 .17
**********END OF 7227: Jayhawk 6 Wellpad 2 INFO**********************************
************************************************************
** 14.8km away. Facility ID=40731 Name=Cotton Draw Section 10 Compressor Station
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.144036, -103.659931, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.05tons/year
*****************Facility sources: ******************************
** NMED source ID=40731EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E2 POINT 626383.443 3557187.69 0
SO SRCPARAM 40731E2 .0214197 6.1 712.59 102.11 .3
** NMED source ID=40731EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E3 POINT 626390.979 3557194.711 0
SO SRCPARAM 40731E3 .0214197 6.1 712.59 102.11 .3
** NMED source ID=40731EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E4 POINT 626384.193 3557198.263 0
SO SRCPARAM 40731E4 .0214197 6.1 712.59 102.11 .3
** NMED source ID=40731EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E5 POINT 626376.596 3557196.171 0
SO SRCPARAM 40731E5 .0214197 6.1 712.59 102.11 .3
** NMED source ID=40731EQPT8 Facility's ID=REB-1
** Description=Dehydrator Reboiler Construction date=25-OCT-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E8 POINT 626372.355 3557189.271 0
SO SRCPARAM 40731E8 .00126 5.79 533.15 .07 .46
**********END OF 40731: Cotton Draw Section 10 Compressor Station
INFO**********************************
************************************************************
** 14.88km away. Facility ID=40744 Name=PLU Outrider Tank Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
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** lat,long,datum=32.19, -103.68, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.32tons/year
*****************Facility sources: ****************************
** NMED source ID=40744EQPT4 Facility's ID=HPF
** Description=HIGH PRESSURE FLARE Construction date=01-NOV-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E4 POINT 624428.055 3562259.795 0
SO SRCPARAM 40744E4 .0002898 30.48 1273 20 20.806
** NMED source ID=40744EQPT5 Facility's ID=HTR1
** Description=HEATER TREATER Construction date=01-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E5 POINT 624435.591 3562266.816 0
SO SRCPARAM 40744E5 .0050399 6.1 810.93 11.73 .3
** NMED source ID=40744EQPT6 Facility's ID=HTR2
** Description=HEATER TREATER Construction date=01-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E6 POINT 624428.805 3562270.368 0
SO SRCPARAM 40744E6 .0050399 6.1 810.93 11.73 .3
** NMED source ID=40744EQPT7 Facility's ID=HTR3
** Description=HEATER TREATER Construction date=01-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E7 POINT 624421.208 3562268.276 0
SO SRCPARAM 40744E7 .0050399 6.1 810.93 11.73 .3
** NMED source ID=40744EQPT8 Facility's ID=LPF
** Description=LOW PRESSURE FLARE Construction date=01-NOV-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E8 POINT 624416.967 3562261.376 0
SO SRCPARAM 40744E8 .00252 12.19 1273 20 2.632
** NMED source ID=40744EQPT14 Facility's ID=RB1
** Description=REBOILER Construction date=01-NOV-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E14 POINT 624418.619 3562253.222 0
SO SRCPARAM 40744E14 .0005796 4.57 810.93 4.69 .15
** NMED source ID=40744EQPT19 Facility's ID=HPF SSM
** Description=HIGH PRESSURE FLARE Construction date=01-NOV-22
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40744E19 POINT 624425.568 3562248.26 0
SO SRCPARAM 40744E19 .0163923 30.48 1273 20 4.652
** NMED source ID=40744EQPT23 Facility's ID=LPF SSM
** Description=LOW PRESSURE FLARE Construction date=01-NOV-22
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E23 POINT 624434.251 3562249.402 0
SO SRCPARAM 40744E23 .0051785 12.19 1273 20 3.604
**********END OF 40744: PLU Outrider Tank Battery
INFO**********************************
************************************************************
** 14.88km away. Facility ID=37996 Name=Seawolf 1-12 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.076889, -103.52675, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.46tons/year
*****************Facility sources: ******************************
** NMED source ID=37996AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=11-AUG-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37996A1 VOLUME 639046.817 3549907.86 0
SO SRCPARAM 37996A1 .2784556 10 20 9.3
** NMED source ID=37996EQPT1 Facility's ID=HT-1
** Description=1.0 MMBtu/hr Heater Treater 1 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E1 VOLUME 639054.353 3549914.881 0
SO SRCPARAM 37996E1 .00126 9.14 .47 .93
** NMED source ID=37996EQPT2 Facility's ID=HT-2
** Description=1.0 MMBtu/hr Heater Treater 2 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E2 VOLUME 639047.567 3549918.433 0
SO SRCPARAM 37996E2 .00126 9.14 .47 .93
** NMED source ID=37996EQPT3 Facility's ID=HT-3
** Description=1.0 MMBtu/hr Heater Treater 3 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E3 VOLUME 639039.97 3549916.341 0
SO SRCPARAM 37996E3 .00126 9.14 .47 .93
** NMED source ID=37996EQPT4 Facility's ID=HT-4
** Description=1.0 MMBtu/hr Heater Treater 4 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E4 VOLUME 639035.729 3549909.441 0
SO SRCPARAM 37996E4 .00126 9.14 .47 .93
** NMED source ID=37996EQPT5 Facility's ID=HT-5
** Description=1.0 MMBtu/hr Heater Treater 5 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E5 VOLUME 639037.381 3549901.287 0
SO SRCPARAM 37996E5 .00126 9.14 .47 .93
** NMED source ID=37996EQPT6 Facility's ID=HT-6
** Description=1.0 MMBtu/hr Heater Treater 6 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E6 VOLUME 639044.33 3549896.325 0
SO SRCPARAM 37996E6 .00126 9.14 .47 .93
**********END OF 37996: Seawolf 1-12 CTB 1 INFO**********************************
************************************************************
** 14.95km away. Facility ID=38909 Name=Newman Cosmo CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.176439, -103.370396, NAD83
** Total Particulate Matter (10 microns or less) emissions=.77tons/year
*****************Facility sources: ****************************
** NMED source ID=38909AREA1 Facility's ID=HR-1
** Description=Haul Roads Construction date=18-SEP-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38909A1 VOLUME 653638.353 3561156.676 0
SO SRCPARAM 38909A1 .0440993 1 .47 .93
** NMED source ID=38909EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 (1MMBtu/h) Construction date=17-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5832hr/yr, 24hr/day
SO LOCATION 38909E1 VOLUME 653645.889 3561163.697 0
SO SRCPARAM 38909E1 .00126 3.66 .47 .93
** NMED source ID=38909EQPT2 Facility's ID=HT 2
** Description=Heater Treater 2 Construction date=17-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5832hr/yr, 24hr/day
SO LOCATION 38909E2 VOLUME 653639.103 3561167.249 0
SO SRCPARAM 38909E2 .00126 3.66 .47 .93
** NMED source ID=38909EQPT3 Facility's ID=GEN-1
** Description=Generator 1 (399 hp) Construction date=17-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38909E3 POINT 653631.506 3561165.157 0
SO SRCPARAM 38909E3 .0163797 3.05 830.37 121.16 .1
**********END OF 38909: Newman Cosmo CTB INFO**************************************
************************************************************
** 14.99km away. Facility ID=39163 Name=Devon - Jayhawk 6 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.076295, -103.511917, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.81tons/year
*****************Facility sources: ******************************
** NMED source ID=39163AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=04-OCT-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8400hr/yr, 24hr/day
SO LOCATION 39163A1 VOLUME 640447.816 3549861.227 0
SO SRCPARAM 39163A1 .2771956 10 20 9.3
** NMED source ID=39163EQPT3 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater Construction date=04-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 39163E3 VOLUME 640455.352 3549868.248 0
SO SRCPARAM 39163E3 .0037799 9.14 .47 .93
** NMED source ID=39163EQPT9 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater Treater Construction date=04-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 39163E9 VOLUME 640448.566 3549871.8 0
SO SRCPARAM 39163E9 .0037799 9.14 .47 .93
** NMED source ID=39163EQPT14 Facility's ID=GEN-1
** Description=Generator 1 Construction date=30-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39163E14 POINT 640440.969 3549869.708 0
SO SRCPARAM 39163E14 .0100798 3.51 1005.37 215.22 .09
** NMED source ID=39163EQPT15 Facility's ID=GEN-2
** Description=Generator 2 Construction date=30-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39163E15 POINT 640436.728 3549862.808 0
SO SRCPARAM 39163E15 .0075599 3.51 1005.37 136.18 .09
** NMED source ID=39163EQPT16 Facility's ID=LPC-3
** Description=Low Pressure Compressor Engine (LPC) Construction date=30-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 39163E16 POINT 640438.38 3549854.654 0
SO SRCPARAM 39163E16 .0037799 2.99 919.82 51.42 .1
** NMED source ID=39163EQPT17 Facility's ID=LPC-4
** Description=Low Pressure Compressor Engine (LPC) Construction date=30-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 39163E17 POINT 640445.329 3549849.692 0
SO SRCPARAM 39163E17 .0037799 2.99 919.82 51.42 .1
**********END OF 39163: Devon - Jayhawk 6 CTB 2
INFO**********************************
************************************************************
** 15km away. Facility ID=39381 Name=Red Hills 32-5 Fed Com 127H, 130H-131H,
155H-157H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.09157, -103.59848, WGS84
** Total Particulate Matter (10 microns or less) emissions=1tons/year
*****************Facility sources: ******************************
** NMED source ID=39381AREA1 Facility's ID=HR
** Description=Haul Road Construction date=20-NOV-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39381A1 VOLUME 632255.108 3551445.152 0
SO SRCPARAM 39381A1 .1159182 10 10 9.3
** NMED source ID=39381EQPT1 Facility's ID=HTR-1
** Description=2 MMBtu/h Heater Treater Construction date=27-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=177hr/yr, 1hr/day
SO LOCATION 39381E1 VOLUME 632262.644 3551452.173 0
SO SRCPARAM 39381E1 .00126 4.57 .47 .93
** NMED source ID=39381EQPT2 Facility's ID=HTR-2
** Description=2 MMBtu/h Heater Treater Construction date=27-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=177hr/yr, 1hr/day
SO LOCATION 39381E2 VOLUME 632255.858 3551455.725 0
SO SRCPARAM 39381E2 .00126 4.57 .47 .93
** NMED source ID=39381EQPT3 Facility's ID=Flare 1-Normal
** Description=Process Flare Construction date=27-FEB-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=705hr/yr, 2hr/day
SO LOCATION 39381E3 POINT 632248.261 3551453.633 0
SO SRCPARAM 39381E3 .00252 12.19 1273 20 .61
** NMED source ID=39381EQPT4 Facility's ID=Flare 2 - Normal
** Description=High Pressure Flare Pilot Construction date=27-FEB-20
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** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=705hr/yr, 2hr/day
SO LOCATION 39381E4 POINT 632244.02 3551446.733 0
SO SRCPARAM 39381E4 .0002898 15.24 1273 20 20.806
** NMED source ID=39381EQPT14 Facility's ID=Flare 1-SSM
** Description=Process Flare - SSM Construction date=15-DEC-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39381E14 POINT 632245.672 3551438.579 0
SO SRCPARAM 39381E14 .0077615 12.19 1273 20 .61
** NMED source ID=39381EQPT15 Facility's ID=Flare 2 - SSM
** Description=High Pressure Flare - SSM Construction date=15-DEC-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39381E15 POINT 632252.621 3551433.617 0
SO SRCPARAM 39381E15 .0060353 15.24 1273 20 2.632
** NMED source ID=39381RPNT3 Facility's ID=SSM
** Description=Startup, Shutdown, and Maintenance Construction date=27-FEB-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39381R3 VOLUME 632261.304 3551434.759 0
SO SRCPARAM 39381R3 .0005796 1 .47 .93
**********END OF 39381: Red Hills 32-5 Fed Com 127H, 130H-131H, 155H-157H
INFO**********************************
************************************************************
** 15.03km away. Facility ID=39433 Name=Biggers Federal East TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.12338, -103.40212, NAD83
** Total Particulate Matter (10 microns or less) emissions=.9tons/year
*****************Facility sources: ******************************
** NMED source ID=39433AREA1 Facility's ID=HR-1
** Description=haul road Construction date=20-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39433A1 VOLUME 650734.405 3555229.47 0
SO SRCPARAM 39433A1 .0113398 1 .47 .93
** NMED source ID=39433EQPT1 Facility's ID=ENG 1
** Description=4SLB Compressor Engine CAT 3516J 1380 HP Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39433E1 POINT 650741.941 3555236.491 0
SO SRCPARAM 39433E1 .0002898 6.1 723.15 51.56 .3
** NMED source ID=39433EQPT2 Facility's ID=HT-1
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** Description=Heater Treater, 1.0 MMbtu/hr Construction date=20-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39433E2 POINT 650735.155 3555240.043 0
SO SRCPARAM 39433E2 .00126 9.14 422.04 7.53 .15
** NMED source ID=39433EQPT15 Facility's ID=FL-1 LP
** Description=0.2 MMscfd LP Construction date=20-MAR-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39433E15 POINT 650727.558 3555237.951 0
SO SRCPARAM 39433E15 .00126 14.12 1273 20 2.632
** NMED source ID=39433EQPT16 Facility's ID=ENG-02
** Description=4SRB Compressor Engine CAT 3516J 1380 HP Construction date=10-NOV-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39433E16 POINT 650723.317 3555231.051 0
SO SRCPARAM 39433E16 .0125998 6.1 886.48 41.24 .3
** NMED source ID=39433EQPT17 Facility's ID=FL-01 HP
** Description=Flare-1  6MMscfd HP Construction date=20-MAR-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39433E17 POINT 650724.969 3555222.897 0
SO SRCPARAM 39433E17 .1045783 13.72 1273 20 20.806
**********END OF 39433: Biggers Federal East TB
INFO************************************
************************************************************
** 15.05km away. Facility ID=39825 Name=Gunner Federal 5 D CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9067 NOI
** lat,long,datum=32.077458, -103.495775, WGS84
** Total Particulate Matter (10 microns or less) emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=39825AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=11-AUG-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39825A1 VOLUME 641969.681 3550011.292 0
SO SRCPARAM 39825A1 .0005796 1 .47 .93
** NMED source ID=39825EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39825E3 VOLUME 641977.217 3550018.313 0
SO SRCPARAM 39825E3 .00126 4.57 .47 .93
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** NMED source ID=39825EQPT4 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=01-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39825E4 VOLUME 641970.431 3550021.865 0
SO SRCPARAM 39825E4 .00126 4.57 .47 .93
**********END OF 39825: Gunner Federal 5 D CTB
INFO**********************************
************************************************************
** 15.06km away. Facility ID=7409 Name=Deerstalker Federal 8 O CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=10062 NOI
** lat,long,datum=32.140228, -103.387289, WGS84
** Total Particulate Matter (10 microns or less) emissions=.11tons/year
*****************Facility sources: ******************************
** NMED source ID=7409AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=08-SEP-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7409A1 VOLUME 652105.664 3557118.158 0
SO SRCPARAM 7409A1 .0125998 1 .47 .93
** NMED source ID=7409EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=08-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7409E3 VOLUME 652113.2 3557125.179 0
SO SRCPARAM 7409E3 .00126 6.71 .47 .93
** NMED source ID=7409EQPT4 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=08-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7409E4 VOLUME 652106.414 3557128.731 0
SO SRCPARAM 7409E4 .00126 6.71 .47 .93
**********END OF 7409: Deerstalker Federal 8 O CTB
INFO**********************************
************************************************************
** 15.1km away. Facility ID=8435 Name=Gunner Fed 5 B CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=10135 NOI
** lat,long,datum=32.077976, -103.489947, WGS84
** Total Particulate Matter (10 microns or less) emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=8435AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=08-JAN-24
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8435A1 VOLUME 642518.983 3550076.404 0
SO SRCPARAM 8435A1 .0005796 1 .47 .93
** NMED source ID=8435EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=08-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8435E3 VOLUME 642526.519 3550083.425 0
SO SRCPARAM 8435E3 .00126 4.57 .47 .93
** NMED source ID=8435EQPT4 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=08-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8435E4 VOLUME 642519.733 3550086.977 0
SO SRCPARAM 8435E4 .00126 4.57 .47 .93
**********END OF 8435: Gunner Fed 5 B CTB INFO************************************
************************************************************
** 15.11km away. Facility ID=36104 Name=Fez Fee 11H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6561 NOI
** lat,long,datum=32.150698, -103.379944, WGS84
** Total Particulate Matter (10 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=36104AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=14-SEP-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36104A1 VOLUME 652781.034 3558289.309 0
SO SRCPARAM 36104A1 .0113398 1 .47 .93
** NMED source ID=36104EQPT2 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=14-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36104E2 VOLUME 652788.57 3558296.33 0
SO SRCPARAM 36104E2 .0005796 6.71 .47 .93
**********END OF 36104: Fez Fee 11H Battery
INFO**********************************
************************************************************
** 15.16km away. Facility ID=34226 Name=Cimarex - Diamondtail 23 Federal Battery
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=5860 NOI
** lat,long,datum=32.29648, -103.64881, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.7tons/year
*****************Facility sources: ****************************
** NMED source ID=34226EQPT17 Facility's ID=ENG3
** Description=Waukesha L7044GSI, 1680-hp Construction date=28-JAN-20
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34226E17 POINT 627227.363 3574107.719 0
SO SRCPARAM 34226E17 .0373962 7.32 933.71 40.93 .36
** NMED source ID=34226RPNT3 Facility's ID=FUGAREA
** Description=Facility Fugitives - including haul roads Construction date=18-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8203hr/yr, 22hr/day
SO LOCATION 34226R3 VOLUME 627220.577 3574111.271 0
SO SRCPARAM 34226R3 .1159182 10 10 9.3
**********END OF 34226: Cimarex - Diamondtail 23 Federal Battery
INFO**********************************
************************************************************
** 15.17km away. Facility ID=41067 Name=Serpentine 35 Facility 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.345041, -103.550097, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.18tons/year
*****************Facility sources: ****************************
** NMED source ID=41067AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=24-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067A1 VOLUME 636442.016 3579605.758 0
SO SRCPARAM 41067A1 .2784556 10 20 9.3
** NMED source ID=41067EQPT5 Facility's ID=HT-1
** Description=HT-1 Heater Treater Construction date=24-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E5 VOLUME 636449.552 3579612.779 0
SO SRCPARAM 41067E5 .0037799 9.14 .47 .93
** NMED source ID=41067EQPT6 Facility's ID=HT-2
** Description=HT-2 Heater Treater Construction date=24-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E6 VOLUME 636442.766 3579616.331 0
SO SRCPARAM 41067E6 .0037799 9.14 .47 .93
** NMED source ID=41067EQPT17 Facility's ID=MT 1
** Description=Microturbine 1 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E17 POINT 636435.169 3579614.239 0
SO SRCPARAM 41067E17 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT18 Facility's ID=MT 2
```

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** Description=Microturbine 2 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E18 POINT 636430.928 3579607.339 0
SO SRCPARAM 41067E18 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT19 Facility's ID=MT 3
** Description=Microturbine 3 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E19 POINT 636432.58 3579599.185 0
SO SRCPARAM 41067E19 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT20 Facility's ID=MT 4
** Description=Microturbine 4 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E20 POINT 636439.529 3579594.223 0
SO SRCPARAM 41067E20 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT21 Facility's ID=MT 5
** Description=Microturbine 5 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E21 POINT 636448.212 3579595.365 0
SO SRCPARAM 41067E21 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT22 Facility's ID=MT 6
** Description=Microturbine 6 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E22 POINT 636453.922 3579602.293 0
SO SRCPARAM 41067E22 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT23 Facility's ID=MT 7
** Description=Microturbine 7 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E23 POINT 636453.357 3579611.474 0
SO SRCPARAM 41067E23 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT24 Facility's ID=MT 8
** Description=Microturbine 8 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E24 POINT 636446.522 3579617.952 0
SO SRCPARAM 41067E24 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT25 Facility's ID=MT 9
** Description=Microturbine 9 Construction date=24-OCT-23
```

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** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E25 POINT 636436.886 3579618.029 0
SO SRCPARAM 41067E25 .00252 4.02 529.26 95.74 .15
** NMED source ID=41067EQPT26 Facility's ID=MT 10
** Description=Microturbine 10 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E26 POINT 636429.625 3579611.363 0
SO SRCPARAM 41067E26 .00252 4.02 529.26 95.74 .15
**********END OF 41067: Serpentine 35 Facility 1
INFO**********************************
************************************************************
** 15.21km away. Facility ID=38582 Name=EOG - Bodacious Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1121, -103.635833, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.06tons/year
*****************Facility sources: ****************************
** NMED source ID=38582EQPT17 Facility's ID=ENG-1
** Description=Natural Gas Engine CAT G3606A4 1875 HP Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8472hr/yr, 24hr/day
SO LOCATION 38582E17 POINT 628701.176 3553675.858 0
SO SRCPARAM 38582E17 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38582EQPT18 Facility's ID=ENG-2
** Description=Natural Gas Engine CAT G3606A4 1875 HP Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8472hr/yr, 24hr/day
SO LOCATION 38582E18 POINT 628708.712 3553682.879 0
SO SRCPARAM 38582E18 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38582EQPT19 Facility's ID=ENG-3
** Description=Natural Gas Engine CAT 2500 HP Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8519hr/yr, 23hr/day
SO LOCATION 38582E19 POINT 628701.926 3553686.431 0
SO SRCPARAM 38582E19 .0214197 8.84 718.15 26 .61
** NMED source ID=38582EQPT20 Facility's ID=ENG-4
** Description=Natural Gas Engine CAT 2500 HP Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38582E20 POINT 628694.329 3553684.339 0
SO SRCPARAM 38582E20 .0214197 8.53 718.15 26 .61
** NMED source ID=38582EQPT21 Facility's ID=ENG-5
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** Description=Natural Gas Engine CAT 2500 HP Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38582E21 POINT 628690.088 3553677.439 0
SO SRCPARAM 38582E21 .0214197 8.84 718.15 26 .61
** NMED source ID=38582EQPT22 Facility's ID=ENG-6
** Description=Natural Gas Engine CAT 2500 hp Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38582E22 POINT 628691.74 3553669.285 0
SO SRCPARAM 38582E22 .0214197 .61 718.15 26 .61
** NMED source ID=38582EQPT28 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.0 MMbtu/hr Construction date=19-APR-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38582E28 POINT 628698.689 3553664.323 0
SO SRCPARAM 38582E28 .00126 3.96 588.71 2.62 .3
** NMED source ID=38582EQPT29 Facility's ID=Heater-1
** Description=Separator Heater 0.50 MMbtu/hr Construction date=19-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38582E29 POINT 628707.372 3553665.465 0
SO SRCPARAM 38582E29 .00126 3.96 588.71 1.31 .3
**********END OF 38582: EOG - Bodacious Localized Gas Lift Station
INFO**********************************
************************************************************
** 15.21km away. Facility ID=39584 Name=Pitchblende Federal 19 A CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8861 NOI
** lat,long,datum=32.121356, -103.401686, WGS84
** Total Particulate Matter (10 microns or less) emissions=.09tons/year
*****************Facility sources: ******************************
** NMED source ID=39584AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=07-JUN-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39584A1 VOLUME 650778.68 3555005.69 0
SO SRCPARAM 39584A1 .0151198 1 .47 .93
** NMED source ID=39584EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39584E4 VOLUME 650786.216 3555012.711 0
SO SRCPARAM 39584E4 .00126 4.57 .47 .93
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** NMED source ID=39584EQPT14 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=07-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39584E14 VOLUME 650779.43 3555016.263 0
SO SRCPARAM 39584E14 .00126 4.57 .47 .93
**********END OF 39584: Pitchblende Federal 19 A CTB
INFO**********************************
************************************************************
** 15.35km away. Facility ID=6662 Name=Cosmo Booster
** Company ID=13605 Name=NGL Water Solutions Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.210358, -103.360942, WGS84
** Total Particulate Matter (10 microns or less) emissions=.72tons/year
*****************Facility sources: ******************************
** NMED source ID=6662EQPT1 Facility's ID=GEN1
** Description=Site Generator Construction date=18-SEP-23
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6662E1 POINT 654472.449 3564930.671 0
SO SRCPARAM 6662E1 .0100798 3.05 839.82 34.63 .2
** NMED source ID=6662EQPT2 Facility's ID=GEN2
** Description=Site Generator Construction date=18-SEP-23
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6662E2 POINT 654479.985 3564937.692 0
SO SRCPARAM 6662E2 .0100798 3.05 839.82 34.63 .2
**********END OF 6662: Cosmo Booster INFO************************************
************************************************************
** 15.36km away. Facility ID=38928 Name=OXY - Mesa Verde 16 CGL
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.21318, -103.68693, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.8tons/year
*****************Facility sources: ******************************
** NMED source ID=38928EQPT1 Facility's ID=REB-1
** Description=Reboiler Construction date=24-APR-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38928E1 POINT 623743.37 3564821.5 0
SO SRCPARAM 38928E1 .00126 3.05 533.15 .14 .24
** NMED source ID=38928EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine 1 Construction date=24-APR-19
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38928E2 POINT 623750.906 3564828.521 0
SO SRCPARAM 38928E2 .0125998 4.57 816.48 27.01 .46
** NMED source ID=38928EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine 2 Construction date=24-APR-19
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38928E3 POINT 623744.12 3564832.073 0
SO SRCPARAM 38928E3 .0125998 4.57 816.48 27.01 .46
** NMED source ID=38928EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine 3 Construction date=24-APR-19
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38928E4 POINT 623736.523 3564829.981 0
SO SRCPARAM 38928E4 .0125998 4.57 816.48 27.01 .46
** NMED source ID=38928EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine 4 Construction date=24-APR-19
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38928E5 POINT 623732.282 3564823.081 0
SO SRCPARAM 38928E5 .0125998 4.57 816.48 27.01 .46
** NMED source ID=38928RPNT3 Facility's ID=SITE-SSM
** Description=Emissions due to Startup, Shutdown, Maintenance activities
Construction date=24-APR-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38928R3 VOLUME 623733.934 3564814.927 0
SO SRCPARAM 38928R3 3.3263472 10 260 9.3
**********END OF 38928: OXY - Mesa Verde 16 CGL
INFO**********************************
************************************************************
** 15.42km away. Facility ID=38473 Name=Horned Frog Compressor Station
** Company ID=13452 Name=Delaware G & P, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.083086, -103.588061, NAD83
** Total Particulate Matter (10 microns or less) emissions=8.67tons/year
*****************Facility sources: ****************************
** NMED source ID=38473AREA1 Facility's ID=ROAD (UR-1)
** Description=Haul Road Emissions Construction date=03-DEC-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38473A1 VOLUME 633250.704 3550517.455 0
SO SRCPARAM 38473A1 .0793787 10 10 9.3
** NMED source ID=38473EQPT1 Facility's ID=E-1
** Description=Caterpillar 3516B, 1380 hp Construction date=03-DEC-18
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7644hr/yr, 24hr/day
SO LOCATION 38473E1 POINT 633258.24 3550524.476 0
SO SRCPARAM 38473E1 .0151198 7.62 804.26 33.22 .41
** NMED source ID=38473EQPT2 Facility's ID=E-2
** Description=Caterpillar 3516B, 1380 hp Construction date=03-DEC-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7136hr/yr, 24hr/day
SO LOCATION 38473E2 POINT 633251.454 3550528.028 0
SO SRCPARAM 38473E2 .0151198 7.62 804.26 33.22 .41
** NMED source ID=38473EQPT12 Facility's ID=H-1
** Description=DEHY1 Glycol Reboiler Construction date=03-DEC-15
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38473E12 POINT 633243.857 3550525.936 0
SO SRCPARAM 38473E12 .0005796 3.41 533.15 4.81 .15
** NMED source ID=38473EQPT14 Facility's ID=E-4
** Description=Caterpillar G3606, 1875 hp Construction date=08-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E14 POINT 633239.616 3550519.036 0
SO SRCPARAM 38473E14 .0151198 4.51 719.26 19.12 .61
** NMED source ID=38473EQPT18 Facility's ID=E-5
** Description=Waukesha VHP - P9394GSI S5, 2,500 hp Construction date=25-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E18 POINT 633241.268 3550510.882 0
SO SRCPARAM 38473E18 .0428393 7.47 847.59 16.86 .61
** NMED source ID=38473EQPT19 Facility's ID=E-6
** Description=Waukesha VHP - P9394GSI S5, 2,500 hp Construction date=25-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E19 POINT 633248.217 3550505.92 0
SO SRCPARAM 38473E19 .0428393 7.47 847.59 16.86 .61
** NMED source ID=38473EQPT20 Facility's ID=E-7
** Description=Waukesha VHP - P9394GSI S5, 2,500 hp Construction date=25-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E20 POINT 633256.9 3550507.062 0
SO SRCPARAM 38473E20 .0428393 7.47 847.59 16.86 .61
** NMED source ID=38473EQPT21 Facility's ID=ECD
** Description=Enclosed Combustion Device Construction date=25-JUL-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E21 POINT 633262.61 3550513.99 0
SO SRCPARAM 38473E21 .0100798 7.62 699.82 2.23 1.22
** NMED source ID=38473EQPT22 Facility's ID=GEN-4
** Description=Generator Engine, Aggreko 400kW Construction date=25-JUL-23
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E22 POINT 633262.045 3550523.171 0
SO SRCPARAM 38473E22 .0100798 3.51 810.93 62.76 .15
** NMED source ID=38473EQPT23 Facility's ID=GEN-5
** Description=Generator Engine, Aggreko 400kW Construction date=25-JUL-23
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E23 POINT 633255.21 3550529.649 0
SO SRCPARAM 38473E23 .0100798 3.51 810.93 62.76 .15
** NMED source ID=38473EQPT24 Facility's ID=H-2
** Description=DEHY2 Glycol Reboiler Construction date=25-JUL-23
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E24 POINT 633245.574 3550529.726 0
SO SRCPARAM 38473E24 .00126 6.1 533.15 4.66 .3
** NMED source ID=38473EQPT31 Facility's ID=E-8
** Description=Waukesha VHP - P9394GSI S5, 2,500 hp Construction date=10-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E31 POINT 633238.313 3550523.06 0
SO SRCPARAM 38473E31 .0428393 7.47 847.59 16.86 .61
**********END OF 38473: Horned Frog Compressor Station
INFO**********************************
************************************************************
** 15.45km away. Facility ID=7803 Name=Stranger 34 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.08257, -103.460473, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.83tons/year
*****************Facility sources: ****************************
** NMED source ID=7803AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=17-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803A1 VOLUME 645293.764 3550625.031 0
SO SRCPARAM 7803A1 .2784556 10 20 9.3
** NMED source ID=7803EQPT3 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engine Construction date=17-JAN-24
** SCC=20200253
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E3 POINT 645301.3 3550632.052 0
SO SRCPARAM 7803E3 .0277196 6.28 873.71 25.31 .41
** NMED source ID=7803EQPT4 Facility's ID=ENG 2
** Description=ENG 2 Gas Lift Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E4 POINT 645294.514 3550635.604 0
SO SRCPARAM 7803E4 .0075599 3.51 1000.37 71.17 .13
** NMED source ID=7803EQPT5 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E5 POINT 645286.917 3550633.512 0
SO SRCPARAM 7803E5 .0100798 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT6 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E6 POINT 645282.676 3550626.612 0
SO SRCPARAM 7803E6 .0100798 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT7 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E7 POINT 645284.328 3550618.458 0
SO SRCPARAM 7803E7 .0100798 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT8 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E8 POINT 645291.277 3550613.496 0
SO SRCPARAM 7803E8 .0100798 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT9 Facility's ID=ENG 7
** Description=ENG 7 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E9 POINT 645299.96 3550614.638 0
SO SRCPARAM 7803E9 .0100798 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT10 Facility's ID=ENG 8
** Description=ENG 8 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E10 POINT 645305.67 3550621.566 0
SO SRCPARAM 7803E10 .0100798 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT14 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=17-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E14 VOLUME 645305.105 3550630.747 0
SO SRCPARAM 7803E14 .0037799 9.14 .47 .93
** NMED source ID=7803EQPT15 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=17-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E15 VOLUME 645298.27 3550637.225 0
SO SRCPARAM 7803E15 .0037799 9.14 .47 .93
**********END OF 7803: Stranger 34 CTB 2 INFO************************************
************************************************************
** 15.49km away. Facility ID=39732 Name=Red Hills CTB 2
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.093465, -103.61262, NAD83
** Total Particulate Matter (10 microns or less) emissions=.24tons/year
*****************Facility sources: ******************************
** NMED source ID=39732EQPT1 Facility's ID=HT-1
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E1 VOLUME 630917.962 3551637.971 0
SO SRCPARAM 39732E1 .00126 4.57 .47 .93
** NMED source ID=39732EQPT2 Facility's ID=HT-2
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E2 VOLUME 630925.498 3551644.992 0
SO SRCPARAM 39732E2 .00126 4.57 .47 .93
** NMED source ID=39732EQPT3 Facility's ID=HT-3
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E3 VOLUME 630918.712 3551648.544 0
SO SRCPARAM 39732E3 .00126 4.57 .47 .93
** NMED source ID=39732EQPT4 Facility's ID=HT-4
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E4 VOLUME 630911.115 3551646.452 0
SO SRCPARAM 39732E4 .00126 4.57 .47 .93
** NMED source ID=39732EQPT5 Facility's ID=HT-5
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E5 VOLUME 630906.874 3551639.552 0
SO SRCPARAM 39732E5 .00126 4.57 .47 .93
** NMED source ID=39732EQPT6 Facility's ID=HT-6
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E6 VOLUME 630908.526 3551631.398 0
SO SRCPARAM 39732E6 .00126 4.57 .47 .93
** NMED source ID=39732EQPT7 Facility's ID=HT-7
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E7 VOLUME 630915.475 3551626.436 0
SO SRCPARAM 39732E7 .00126 4.57 .47 .93
** NMED source ID=39732EQPT8 Facility's ID=HT-8
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E8 VOLUME 630924.158 3551627.578 0
SO SRCPARAM 39732E8 .00126 4.57 .47 .93
**********END OF 39732: Red Hills CTB 2 INFO**********************************
************************************************************
** 15.5km away. Facility ID=40606 Name=Siege Compressor Station
** Company ID=14143 Name=Northwind Midstream Partners LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.2822, -103.3827, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.54tons/year
*****************Facility sources: ****************************
** NMED source ID=40606EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=22-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E2 POINT 652301.645 3572864.43 0
SO SRCPARAM 40606E2 .0428393 7.62 682.04 90.5 .46
** NMED source ID=40606EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=22-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E3 POINT 652309.181 3572871.451 0
SO SRCPARAM 40606E3 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40606EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=22-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E4 POINT 652302.395 3572875.003 0
SO SRCPARAM 40606E4 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40606EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=22-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E5 POINT 652294.798 3572872.911 0
SO SRCPARAM 40606E5 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40606EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=22-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E6 POINT 652290.557 3572866.011 0
SO SRCPARAM 40606E6 .0214197 7.62 714.82 103.94 .3
** NMED source ID=40606EQPT10 Facility's ID=RBL-1
** Description=TEG Glycol Regen Heater Construction date=22-SEP-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E10 POINT 652292.209 3572857.857 0
SO SRCPARAM 40606E10 .00126 5.18 588.71 6.83 .3
**********END OF 40606: Siege Compressor Station
INFO************************************
************************************************************
** 15.55km away. Facility ID=40853 Name=Pelican Compressor Station
** Company ID=14143 Name=Northwind Midstream Partners LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.166191, -103.367421, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.54tons/year
*****************Facility sources: ******************************
** NMED source ID=40853EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=04-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E2 POINT 653936.11 3560024.785 0
SO SRCPARAM 40853E2 .0428393 7.62 682.04 90.5 .46
** NMED source ID=40853EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=04-JAN-23
** SCC=20200254
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E3 POINT 653943.646 3560031.806 0
SO SRCPARAM 40853E3 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40853EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=04-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E4 POINT 653936.86 3560035.358 0
SO SRCPARAM 40853E4 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40853EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=04-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E5 POINT 653929.263 3560033.266 0
SO SRCPARAM 40853E5 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40853EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=04-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E6 POINT 653925.022 3560026.366 0
SO SRCPARAM 40853E6 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40853EQPT9 Facility's ID=RBL-1
** Description=TEG Glycol Regen Heater Construction date=04-JAN-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E9 POINT 653926.674 3560018.212 0
SO SRCPARAM 40853E9 .00126 5.18 588.71 6.83 .3
**********END OF 40853: Pelican Compressor Station
INFO**********************************
************************************************************
** 15.55km away. Facility ID=7423 Name=Inga 33 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257838, -103.679253, WGS84
** Total Particulate Matter (10 microns or less) emissions=.58tons/year
*****************Facility sources: ****************************
** NMED source ID=7423EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=20-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7423E1 POINT 624406.02 3569781.124 0
SO SRCPARAM 7423E1 .0075599 4.88 1000.37 14.94 .28
** NMED source ID=7423EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=20-SEP-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7423E2 POINT 624413.556 3569788.145 0
SO SRCPARAM 7423E2 .0075599 4.57 803.71 22.07 .2
** NMED source ID=7423EQPT6 Facility's ID=Heater-1
** Description=Heater Treater Construction date=20-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7423E6 VOLUME 624406.77 3569791.697 0
SO SRCPARAM 7423E6 .00126 3.96 .47 .93
** NMED source ID=7423EQPT7 Facility's ID=Heater-2
** Description=Heater Treater Construction date=20-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7423E7 VOLUME 624399.173 3569789.605 0
SO SRCPARAM 7423E7 .00126 5.18 .47 .93
**********END OF 7423: Inga 33 Fed Com CTB INFO**********************************
************************************************************
** 15.57km away. Facility ID=39565 Name=Gipple A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.168744, -103.366131, NAD83
** Total Particulate Matter (10 microns or less) emissions=.46tons/year
*****************Facility sources: ******************************
** NMED source ID=39565EQPT8 Facility's ID=HT-1
** Description=Heater Treater 1, 1.0 MMBtu/hr Construction date=18-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2928hr/yr, 24hr/day
SO LOCATION 39565E8 POINT 654053.46 3560309.67 0
SO SRCPARAM 39565E8 .00126 3.05 510.93 2.93 .25
** NMED source ID=39565RPNT2 Facility's ID=HR-1
** Description=Unpaved Haul Roads Construction date=18-JUN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39565R2 VOLUME 654060.996 3560316.691 0
SO SRCPARAM 39565R2 .1763972 10 10 9.3
**********END OF 39565: Gipple A CTB INFO**********************************
************************************************************
** 15.58km away. Facility ID=40069 Name=Stranger 34 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0825, -103.457269, NAD83
** Total Particulate Matter (10 microns or less) emissions=4.26tons/year
*****************Facility sources: ******************************
** NMED source ID=40069AREA1 Facility's ID=ROAD-1
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** Description=Unpaved Haul Roads Construction date=04-FEB-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40069A1 VOLUME 645596.286 3550621.592 0
SO SRCPARAM 40069A1 .2784556 10 20 9.3
** NMED source ID=40069EQPT2 Facility's ID=GEN 1
** Description=550 HP Generator Construction date=04-FEB-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40069E2 POINT 645603.822 3550628.613 0
SO SRCPARAM 40069E2 .0100798 2.99 1005.37 215.25 .09
** NMED source ID=40069EQPT3 Facility's ID=GEN 2
** Description=550 HP Generator Construction date=04-FEB-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40069E3 POINT 645597.036 3550632.165 0
SO SRCPARAM 40069E3 .0100798 2.99 1005.37 215.25 .09
** NMED source ID=40069EQPT4 Facility's ID=HT-1
** Description=3.0 MMBTU/hr Heater Treater 1 Construction date=04-FEB-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40069E4 VOLUME 645589.439 3550630.073 0
SO SRCPARAM 40069E4 .0037799 9.14 .47 .93
**********END OF 40069: Stranger 34 CTB 3 INFO**********************************
************************************************************
** 15.63km away. Facility ID=40566 Name=South Ridge 3H 4H Battery
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=9702 NOI
** lat,long,datum=32.333672, -103.443968, WGS84
** Total Particulate Matter (10 microns or less) emissions=.12tons/year
*****************Facility sources: ******************************
** NMED source ID=40566EQPT2 Facility's ID=HT-01
** Description=Heater Treater Construction date=31-AUG-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40566E2 VOLUME 646448.542 3578485.534 0
SO SRCPARAM 40566E2 .00126 7.32 .47 .93
** NMED source ID=40566EQPT3 Facility's ID=HT-02
** Description=Heater Treater Construction date=31-AUG-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40566E3 VOLUME 646456.078 3578492.555 0
SO SRCPARAM 40566E3 .00126 7.32 .47 .93
** NMED source ID=40566EQPT4 Facility's ID=HT-03
```

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** Description=Heater Treater Construction date=31-AUG-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40566E4 VOLUME 646449.292 3578496.107 0
SO SRCPARAM 40566E4 .00126 7.32 .47 .93
** NMED source ID=40566EQPT5 Facility's ID=HT-04
** Description=Heater Treater Construction date=31-AUG-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40566E5 VOLUME 646441.695 3578494.015 0
SO SRCPARAM 40566E5 .00126 7.32 .47 .93
**********END OF 40566: South Ridge 3H 4H Battery
INFO************************************
************************************************************
** 15.64km away. Facility ID=40736 Name=Stranger 34 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9756 NOI
** lat,long,datum=32.080755, -103.460397, NAD83
** Total Particulate Matter (10 microns or less) emissions=.38tons/year
*****************Facility sources: ******************************
** NMED source ID=40736EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=11-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40736E1 POINT 645303.81 3550423.919 0
SO SRCPARAM 40736E1 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40736EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=11-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40736E2 POINT 645311.346 3550430.94 0
SO SRCPARAM 40736E2 .0075599 4.39 778.71 13.8 .26
**********END OF 40736: Stranger 34 Wellpad 2
INFO************************************
************************************************************
** 15.65km away. Facility ID=39694 Name=EOG - Gladiator 3 Fed No301H Facility
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.240261, -103.361397, NAD83
** Total Particulate Matter (10 microns or less) emissions=.29tons/year
*****************Facility sources: ******************************
** NMED source ID=39694AREA1 Facility's ID=ROAD
** Description=Haul Roads Construction date=17-NOV-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1057hr/yr, 24hr/day
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SO LOCATION 39694A1 VOLUME 654378.99 3568245.246 0
SO SRCPARAM 39694A1 .0077615 1 .47 .93
** NMED source ID=39694EQPT3 Facility's ID=HTR-1
** Description=0.75 MM Btu/hr Heater Treater Construction date=17-NOV-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1609hr/yr, 24hr/day
SO LOCATION 39694E3 VOLUME 654386.526 3568252.267 0
SO SRCPARAM 39694E3 .0005796 5.18 .47 .93
**********END OF 39694: EOG - Gladiator 3 Fed No301H Facility
INFO*********************************
************************************************************
** 15.68km away. Facility ID=38091 Name=Calm Breeze 2 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0713, -103.5486, WGS84
** Total Particulate Matter (10 microns or less) emissions=.16tons/year
*****************Facility sources: ******************************
** NMED source ID=38091EQPT5 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38091E5 VOLUME 636992.733 3549260.307 0
SO SRCPARAM 38091E5 .00126 4.88 .47 .93
** NMED source ID=38091EQPT18 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38091E18 VOLUME 637000.269 3549267.328 0
SO SRCPARAM 38091E18 .00126 4.88 .47 .93
** NMED source ID=38091EQPT19 Facility's ID=HTR-3
** Description=Heater Treater Construction date=01-JAN-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38091E19 VOLUME 636993.483 3549270.88 0
SO SRCPARAM 38091E19 .00126 6.1 .47 .93
** NMED source ID=38091EQPT20 Facility's ID=HTR-4
** Description=Heater Treater Construction date=18-FEB-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38091E20 VOLUME 636985.886 3549268.788 0
SO SRCPARAM 38091E20 .00126 6.1 .47 .93
**********END OF 38091: Calm Breeze 2 Fed Com CTB
INFO*********************************
************************************************************
** 15.69km away. Facility ID=40231 Name=EOG - Golden Bear Local Gas Lift
```

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** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1125, -103.6435, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.46tons/year
*****************Facility sources: ****************************
** NMED source ID=40231EQPT1 Facility's ID=HTR-1
** Description=1.5 MMbtu/hr Separator Heater Construction date=29-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E1 POINT 627977.222 3553711.069 0
SO SRCPARAM 40231E1 .00126 6.1 588.71 .11 1.83
** NMED source ID=40231EQPT2 Facility's ID=RBL-1
** Description=1 MMbtu/hr Dehy Reboiler Construction date=29-NOV-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E2 POINT 627984.758 3553718.09 0
SO SRCPARAM 40231E2 .00126 2.44 588.71 .22 1.07
** NMED source ID=40231EQPT3 Facility's ID=ENG-1
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E3 POINT 627977.972 3553721.642 0
SO SRCPARAM 40231E3 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT4 Facility's ID=ENG-2
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E4 POINT 627970.375 3553719.55 0
SO SRCPARAM 40231E4 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT5 Facility's ID=ENG-3
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E5 POINT 627966.134 3553712.65 0
SO SRCPARAM 40231E5 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT6 Facility's ID=ENG-4
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E6 POINT 627967.786 3553704.496 0
SO SRCPARAM 40231E6 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT7 Facility's ID=ENG-5
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
```

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E7 POINT 627974.735 3553699.534 0
SO SRCPARAM 40231E7 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT8 Facility's ID=ENG-6
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E8 POINT 627983.418 3553700.676 0
SO SRCPARAM 40231E8 .0214197 6.1 688.15 25.24 .61
**********END OF 40231: EOG - Golden Bear Local Gas Lift
INFO**********************************
************************************************************
** 15.73km away. Facility ID=26388 Name=Rio Blanco 33 Fed 3 Wellpad
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=3562 NOI
** lat,long,datum=32.34636, -103.47769, NAD83
** Total Particulate Matter (10 microns or less) emissions=.12tons/year
*****************Facility sources: ******************************
** NMED source ID=26388AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6456hr/yr, 24hr/day
SO LOCATION 26388A1 VOLUME 643254.416 3579846.576 0
SO SRCPARAM 26388A1 .2784556 10 20 9.3
** NMED source ID=26388EQPT7 Facility's ID=HT-1
** Description=Heater_EQ000018249 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6432hr/yr, 24hr/day
SO LOCATION 26388E7 VOLUME 643261.952 3579853.597 0
SO SRCPARAM 26388E7 .0005796 9.14 .47 .93
**********END OF 26388: Rio Blanco 33 Fed 3 Wellpad
INFO**********************************
************************************************************
** 15.76km away. Facility ID=39080 Name=EOG - Fearless 23 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1185, -103.651, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.13tons/year
*****************Facility sources: ******************************
** NMED source ID=39080AREA1 Facility's ID=Haul
** Description=Unpaved Haul Road Construction date=05-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8783hr/yr, 24hr/day
SO LOCATION 39080A1 VOLUME 627261.259 3554367.334 0
SO SRCPARAM 39080A1 .0466193 1 .47 .93
```

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** NMED source ID=39080EQPT4 Facility's ID=Frac HTR-1
** Description=Heater Construction date=05-AUG-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39080E4 POINT 627268.795 3554374.355 0
SO SRCPARAM 39080E4 .00126 5.18 588.71 2.29 .3
** NMED source ID=39080EQPT5 Facility's ID=HTR-1
** Description=Heater Construction date=05-AUG-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39080E5 POINT 627262.009 3554377.907 0
SO SRCPARAM 39080E5 .0188997 5.18 588.71 6.83 .3
** NMED source ID=39080EQPT15 Facility's ID=Frac ENG-1
** Description=Compressor Engine Construction date=05-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39080E15 POINT 627254.412 3554375.815 0
SO SRCPARAM 39080E15 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39080EQPT16 Facility's ID=Frac ENG-2
** Description=Compressor Engine Construction date=05-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39080E16 POINT 627250.171 3554368.915 0
SO SRCPARAM 39080E16 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39080EQPT17 Facility's ID=Frac ENG-3
** Description=Compressor Engine Construction date=05-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39080E17 POINT 627251.823 3554360.761 0
SO SRCPARAM 39080E17 .0075599 6.1 790.93 23.04 .2
**********END OF 39080: EOG - Fearless 23 Fed Com CTB
INFO**********************************
************************************************************
** 15.76km away. Facility ID=39731 Name=Red Hills Pad 5
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.09368, -103.61828, NAD83
** Total Particulate Matter (10 microns or less) emissions=.09tons/year
*****************Facility sources: ****************************
** NMED source ID=39731EQPT1 Facility's ID=HT-1
** Description=Heater Treater (1 MM Btu/hr) Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39731E1 VOLUME 630383.514 3551654.946 0
```

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SO SRCPARAM 39731E1 .00126 4.57 .47 .93
** NMED source ID=39731EQPT2 Facility's ID=HT-2
** Description=Heater Treater (1 MM Btu/hr) Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39731E2 VOLUME 630391.05 3551661.967 0
SO SRCPARAM 39731E2 .00126 4.57 .47 .93
** NMED source ID=39731EQPT10 Facility's ID=HT-3
** Description=Heater Treater (1 MM Btu/hr) Construction date=30-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39731E10 VOLUME 630384.264 3551665.519 0
SO SRCPARAM 39731E10 .00126 4.57 .47 .93
**********END OF 39731: Red Hills Pad 5 INFO**********************************
************************************************************
** 15.77km away. Facility ID=38248 Name=White Falcon 16 State 1H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7655 NOI
** lat,long,datum=32.137433, -103.380572, WGS84
** Total Particulate Matter (10 microns or less) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=38248AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=26-MAY-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38248A1 VOLUME 652743.924 3556817.803 0
SO SRCPARAM 38248A1 .0005796 1 .47 .93
** NMED source ID=38248EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38248E4 VOLUME 652751.46 3556824.824 0
SO SRCPARAM 38248E4 .00126 6.71 .47 .93
**********END OF 38248: White Falcon 16 State 1H Battery
INFO**********************************
************************************************************
** 15.77km away. Facility ID=39487 Name=Leslie Fed West Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.124019, -103.391346, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.45tons/year
*****************Facility sources: ****************************
** NMED source ID=39487AREA1 Facility's ID=HR
** Description=Haul Roads Construction date=15-APR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39487A1 VOLUME 651749.819 3555315.441 0
SO SRCPARAM 39487A1 .0705589 10 10 9.3
** NMED source ID=39487EQPT2 Facility's ID=HT-1
** Description=Heater Treater Construction date=15-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39487E2 VOLUME 651757.355 3555322.462 0
SO SRCPARAM 39487E2 .0005796 7.62 .47 .93
** NMED source ID=39487EQPT3 Facility's ID=HT-2
** Description=Heater Treater Construction date=15-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39487E3 VOLUME 651750.569 3555326.014 0
SO SRCPARAM 39487E3 .0005796 7.62 .47 .93
** NMED source ID=39487EQPT8 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=03-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7224hr/yr, 24hr/day
SO LOCATION 39487E8 POINT 651742.972 3555323.922 0
SO SRCPARAM 39487E8 .0264596 6.1 886.48 26.95 .3
**********END OF 39487: Leslie Fed West Facility
INFO**********************************
************************************************************
** 15.84km away. Facility ID=40154 Name=Matador - Leslie Biggers CDP
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.134756, -103.381568, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.3tons/year
*****************Facility sources: ******************************
** NMED source ID=40154RPNT4 Facility's ID=HR
** Description=Unpaved Roads Construction date=30-SEP-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40154R4 VOLUME 652654.431 3556519.607 0
SO SRCPARAM 40154R4 .0503992 1 .47 .93
**********END OF 40154: Matador - Leslie Biggers CDP
INFO**********************************
************************************************************
** 15.85km away. Facility ID=6551 Name=Froderick 33 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.26395, -103.68, WGS84
** Total Particulate Matter (10 microns or less) emissions=.58tons/year
*****************Facility sources: ******************************
** NMED source ID=6551EQPT6 Facility's ID=Heater-1
```

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** Description=Heater Treater Construction date=25-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6551E6 VOLUME 624327.318 3570457.834 0
SO SRCPARAM 6551E6 .00126 3.96 .47 .93
** NMED source ID=6551EQPT7 Facility's ID=Heater-2
** Description=Heater Treater Construction date=25-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6551E7 VOLUME 624334.854 3570464.855 0
SO SRCPARAM 6551E7 .00126 5.18 .47 .93
** NMED source ID=6551EQPT13 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=25-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6551E13 POINT 624328.068 3570468.407 0
SO SRCPARAM 6551E13 .0075599 4.88 1000.37 14.94 .28
** NMED source ID=6551EQPT15 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=25-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6551E15 POINT 624320.471 3570466.315 0
SO SRCPARAM 6551E15 .0075599 4.57 803.71 22.07 .2
**********END OF 6551: Froderick 33 Fed Com CTB
INFO************************************
**************************************************************
** 15.92km away. Facility ID=38397 Name=White Falcon State 16D Tank Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8583 NOI
** lat,long,datum=32.135853, -103.379778, WGS84
** Total Particulate Matter (10 microns or less) emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=38397AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=13-NOV-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38397A1 VOLUME 652821.458 3556643.764 0
SO SRCPARAM 38397A1 .0176397 1 .47 .93
** NMED source ID=38397EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38397E4 VOLUME 652828.994 3556650.785 0
SO SRCPARAM 38397E4 .00126 6.71 .47 .93
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** NMED source ID=38397EQPT8 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=17-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38397E8 VOLUME 652822.208 3556654.337 0
SO SRCPARAM 38397E8 .00126 6.71 .47 .93
** NMED source ID=38397EQPT9 Facility's ID=HT-03
** Description=Heater Treater Burner Construction date=17-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38397E9 VOLUME 652814.611 3556652.245 0
SO SRCPARAM 38397E9 .00126 6.71 .47 .93
** NMED source ID=38397EQPT10 Facility's ID=HT-04
** Description=Heater Treater Burner Construction date=17-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38397E10 VOLUME 652810.37 3556645.345 0
SO SRCPARAM 38397E10 .00126 6.71 .47 .93
**********END OF 38397: White Falcon State 16D Tank Battery
INFO**********************************
************************************************************
** 15.97km away. Facility ID=39719 Name=Mulva-ManHands C CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.182992, -103.357506, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.36tons/year
*****************Facility sources: ****************************
** NMED source ID=39719EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E1 POINT 654842.667 3561901.664 0
SO SRCPARAM 39719E1 .0125998 9.14 723.71 281.03 .2
** NMED source ID=39719EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E2 POINT 654850.203 3561908.685 0
SO SRCPARAM 39719E2 .0125998 9.14 723.71 281.03 .2
** NMED source ID=39719EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=14-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E3 POINT 654843.417 3561912.237 0
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SO SRCPARAM 39719E3 .0403194 9.14 855.37 34.63 .36
** NMED source ID=39719EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E4 POINT 654835.82 3561910.145 0
SO SRCPARAM 39719E4 .0125998 9.14 723.71 281.03 .2
** NMED source ID=39719EQPT5 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E5 POINT 654831.579 3561903.245 0
SO SRCPARAM 39719E5 .0125998 9.14 723.71 281.03 .2
** NMED source ID=39719EQPT8 Facility's ID=HT-1
** Description=Heater Treater Construction date=14-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E8 VOLUME 654833.231 3561895.091 0
SO SRCPARAM 39719E8 .00252 4.57 .47 .93
** NMED source ID=39719EQPT9 Facility's ID=HT-2
** Description=Heater Treater Construction date=14-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E9 VOLUME 654840.18 3561890.129 0
SO SRCPARAM 39719E9 .00252 4.57 .47 .93
**********END OF 39719: Mulva-ManHands C CTB
INFO**********************************
************************************************************
** 16.01km away. Facility ID=40739 Name=Stranger 34 Wellpad 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9757 NOI
** lat,long,datum=32.080768, -103.450607, NAD83
** Total Particulate Matter (10 microns or less) emissions=.38tons/year
*****************Facility sources: ******************************
** NMED source ID=40739EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=11-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40739E1 POINT 646227.843 3550438.594 0
SO SRCPARAM 40739E1 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40739EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=11-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40739E2 POINT 646235.379 3550445.615 0
SO SRCPARAM 40739E2 .0075599 4.39 778.71 13.8 .26
**********END OF 40739: Stranger 34 Wellpad 5
INFO*************************************
************************************************************
** 16.01km away. Facility ID=39476 Name=Pork Pie 15 O CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8761 NOI
** lat,long,datum=32.211639, -103.353875, WGS84
** Total Particulate Matter (10 microns or less) emissions=.49tons/year
*****************Facility sources: ******************************
** NMED source ID=39476AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=25-APR-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39476A1 VOLUME 655136.379 3565082.872 0
SO SRCPARAM 39476A1 .0151198 4.57 .47 .93
** NMED source ID=39476EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39476E4 VOLUME 655143.915 3565089.893 0
SO SRCPARAM 39476E4 .00126 4.57 .47 .93
**********END OF 39476: Pork Pie 15 O CTB INFO*************************************
************************************************************
** 16.02km away. Facility ID=40999 Name=Bing Clawsby Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.298484, -103.658601, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.4tons/year
*****************Facility sources: ******************************
** NMED source ID=40999AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Road Construction date=17-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999A1 VOLUME 626295.113 3574311.287 0
SO SRCPARAM 40999A1 .0151198 1 .47 .93
** NMED source ID=40999EQPT2 Facility's ID=GEN-1
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E2 POINT 626302.649 3574318.308 0
SO SRCPARAM 40999E2 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT3 Facility's ID=GEN-2
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E3 POINT 626295.863 3574321.86 0
SO SRCPARAM 40999E3 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT4 Facility's ID=GEN-3
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E4 POINT 626288.266 3574319.768 0
SO SRCPARAM 40999E4 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT5 Facility's ID=GEN-4
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E5 POINT 626284.025 3574312.868 0
SO SRCPARAM 40999E5 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT6 Facility's ID=GEN-5
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E6 POINT 626285.677 3574304.714 0
SO SRCPARAM 40999E6 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT7 Facility's ID=GEN-6
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E7 POINT 626292.626 3574299.752 0
SO SRCPARAM 40999E7 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT8 Facility's ID=GEN-7
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E8 POINT 626301.309 3574300.894 0
SO SRCPARAM 40999E8 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT9 Facility's ID=GEN-8
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E9 POINT 626307.019 3574307.822 0
SO SRCPARAM 40999E9 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT10 Facility's ID=HTR-1
** Description=Heater Treater Heater Construction date=17-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E10 VOLUME 626306.454 3574317.003 0
SO SRCPARAM 40999E10 .00126 4.88 .47 .93
**********END OF 40999: Bing Clawsby Fed Com CTB
INFO**********************************
************************************************************
** 16.04km away. Facility ID=39108 Name=MarkWest - Red Hills Compressor Station
** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.087695, -103.612855, WGS84
** Total Particulate Matter (10 microns or less) emissions=7.59tons/year
*****************Facility sources: ****************************
** NMED source ID=39108EQPT1 Facility's ID=Reboil-1
** Description=TEG Reboiler 1.5 MMBtu/hr Construction date=12-AUG-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39108E1 POINT 630904.013 3550998.033 0
SO SRCPARAM 39108E1 .00126 7 730 28 .3
** NMED source ID=39108EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine CAT G3608, 2500-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7538hr/yr, 24hr/day
SO LOCATION 39108E2 POINT 630911.549 3551005.054 0
SO SRCPARAM 39108E2 .0327595 7.01 708.15 57.94 .41
** NMED source ID=39108EQPT4 Facility's ID=ENG-2
** Description=Compressor Engine CAT G3516J, 1380-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7085hr/yr, 24hr/day
SO LOCATION 39108E4 POINT 630904.763 3551008.606 0
SO SRCPARAM 39108E4 .0201597 7.01 718.15 52.46 .3
** NMED source ID=39108EQPT5 Facility's ID=ENG-3
** Description=Compressor Engine CAT G3516J, 1380-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6477hr/yr, 24hr/day
SO LOCATION 39108E5 POINT 630897.166 3551006.514 0
SO SRCPARAM 39108E5 .0201597 7.01 718.15 52.46 .3
** NMED source ID=39108EQPT6 Facility's ID=ENG-4
** Description=Compressor Engine CAT G3516J, 1380-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4657hr/yr, 24hr/day
SO LOCATION 39108E6 POINT 630892.925 3550999.614 0
SO SRCPARAM 39108E6 .0201597 7.01 718.15 52.46 .3
** NMED source ID=39108EQPT7 Facility's ID=ENG-5
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6366hr/yr, 24hr/day
SO LOCATION 39108E7 POINT 630894.577 3550991.46 0
SO SRCPARAM 39108E7 .0226796 7.01 805.93 62.15 .3
** NMED source ID=39108EQPT8 Facility's ID=ENG-7
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5704hr/yr, 24hr/day
SO LOCATION 39108E8 POINT 630901.526 3550986.498 0
SO SRCPARAM 39108E8 .0163797 7.01 805.93 62.15 .3
** NMED source ID=39108EQPT9 Facility's ID=ENG-9
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3421hr/yr, 24hr/day
SO LOCATION 39108E9 POINT 630910.209 3550987.64 0
SO SRCPARAM 39108E9 .0163797 7.01 805.93 62.15 .3
** NMED source ID=39108EQPT10 Facility's ID=ECD-1
** Description=Combustor 500 MMSCFD Construction date=18-OCT-21
** SCC=30600904
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=500hr/yr, 24hr/day
SO LOCATION 39108E10 POINT 630915.919 3550994.568 0
SO SRCPARAM 39108E10 .0503992 9.75 1273 20 2.13
** NMED source ID=39108EQPT14 Facility's ID=ECD-2
** Description=Combustor 30.0 MMSCFD Construction date=18-OCT-21
** SCC=30600904
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39108E14 POINT 630915.354 3551003.749 0
SO SRCPARAM 39108E14 .00252 3.66 1273 20 1.22
** NMED source ID=39108EQPT15 Facility's ID=ENG-10
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3472hr/yr, 24hr/day
SO LOCATION 39108E15 POINT 630908.519 3551010.227 0
SO SRCPARAM 39108E15 .0163797 7.01 805.93 62.15 .3
** NMED source ID=39108EQPT16 Facility's ID=ENG-11
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5248hr/yr, 24hr/day
SO LOCATION 39108E16 POINT 630898.883 3551010.304 0
SO SRCPARAM 39108E16 .0163797 7.01 805.93 62.15 .3
** NMED source ID=39108EQPT17 Facility's ID=ENG-8
** Description=Compressor Engine CAT G3516J, 1380-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=4488hr/yr, 24hr/day
SO LOCATION 39108E17 POINT 630891.622 3551003.638 0
SO SRCPARAM 39108E17 .0151198 7.01 718.15 52.46 .3
** NMED source ID=39108EQPT18 Facility's ID=ENG-6
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4116hr/yr, 24hr/day
SO LOCATION 39108E18 POINT 630890.842 3550993.592 0
SO SRCPARAM 39108E18 .0163797 7.01 805.93 62.15 .3
**********END OF 39108: MarkWest - Red Hills Compressor Station
INFO**********************************
************************************************************
** 16.08km away. Facility ID=40787 Name=Green Beret Federal 20B CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9781 NOI
** lat,long,datum=32.121572, -103.389499, WGS84
** Total Particulate Matter (10 microns or less) emissions=.14tons/year
*****************Facility sources: ****************************
** NMED source ID=40787AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=23-NOV-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40787A1 VOLUME 651928.128 3555046.761 0
SO SRCPARAM 40787A1 .0005796 1 .47 .93
** NMED source ID=40787EQPT2 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=23-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40787E2 VOLUME 651935.664 3555053.782 0
SO SRCPARAM 40787E2 .00126 6.71 .47 .93
** NMED source ID=40787EQPT3 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=23-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40787E3 VOLUME 651928.878 3555057.334 0
SO SRCPARAM 40787E3 .00126 6.71 .47 .93
** NMED source ID=40787EQPT4 Facility's ID=HT-03
** Description=Heater Treater Burner Construction date=23-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40787E4 VOLUME 651921.281 3555055.242 0
SO SRCPARAM 40787E4 .00126 6.71 .47 .93
**********END OF 40787: Green Beret Federal 20B CTB
INFO**********************************
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** 16.12km away. Facility ID=27251 Name=Rio Blanco 33 Fed 2 SWD Pad
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=3754 NOI
** lat,long,datum=32.349722, -103.476667, NAD83
** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=27251AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=01-MAR-08
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 27251A1 VOLUME 643345.39 3580220.675 0
SO SRCPARAM 27251A1 .0466193 1 .47 .93
**********END OF 27251: Rio Blanco 33 Fed 2 SWD Pad
INFO*********************************
************************************************************
** 16.14km away. Facility ID=32333 Name=Salado Draw 6 Fed 1H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5074 NOI
** lat,long,datum=32.065772, -103.514708, NAD83
** Total Particulate Matter (10 microns or less) emissions=.56tons/year
*****************Facility sources: ******************************
** NMED source ID=32333AREA1 Facility's ID=24
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8736hr/yr, 24hr/day
SO LOCATION 32333A1 VOLUME 640200.432 3548691.016 0
SO SRCPARAM 32333A1 .2784556 10 20 9.3
** NMED source ID=32333EQPT4 Facility's ID=6
** Description=Heater_EQ000070439 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32333E4 VOLUME 640207.968 3548698.037 0
SO SRCPARAM 32333E4 .0005796 9.14 .47 .93
** NMED source ID=32333EQPT10 Facility's ID=7
** Description=Heater_EQ000070318 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32333E10 VOLUME 640201.182 3548701.589 0
SO SRCPARAM 32333E10 .0005796 9.14 .47 .93
** NMED source ID=32333EQPT13 Facility's ID=25
** Description=Combustion Engine Construction date=08-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32333E13 POINT 640193.585 3548699.497 0
SO SRCPARAM 32333E13 .0037799 3.6 853.15 19.79 .17
```

**********END OF 32333: Salado Draw 6 Fed 1H
INFO***********************************
**************************************************************
** 16.17km away. Facility ID=26440 Name=Red Hills Compressor Station
** Company ID=13580 Name=ET Gathering & Processing LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.065473, -103.531778, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.46tons/year
*****************Facility sources: ******************************
** NMED source ID=26440EQPT17 Facility's ID=1A
** Description=1775 hp Cat G3606 w/oxid. catalyst Construction date=23-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4403hr/yr, 24hr/day
SO LOCATION 26440E17 POINT 638589.447 3548635.814 0
SO SRCPARAM 26440E17 .0163797 7.19 725.93 35.05 .46
** NMED source ID=26440EQPT18 Facility's ID=2A
** Description=1775 hp Cat G3606 w/oxid. catalyst Construction date=23-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8683hr/yr, 24hr/day
SO LOCATION 26440E18 POINT 638596.983 3548642.835 0
SO SRCPARAM 26440E18 .0163797 7.19 725.93 35.08 .46
** NMED source ID=26440EQPT19 Facility's ID=4B
** Description=1775 hp Cat G3606 w/oxid. catalyst Construction date=23-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4401hr/yr, 24hr/day
SO LOCATION 26440E19 POINT 638590.197 3548646.387 0
SO SRCPARAM 26440E19 .0163797 7.19 725.93 35.05 .46
** NMED source ID=26440EQPT20 Facility's ID=5
** Description=Compressor Engine690 hp Construction date=23-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 26440E20 POINT 638582.6 3548644.295 0
SO SRCPARAM 26440E20 .0075599 6.1 772.59 28.8 .3
** NMED source ID=26440EQPT21 Facility's ID=3A
** Description=Caterpillar 3516 TALE 1340 hp Construction date=28-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 26440E21 POINT 638578.359 3548637.395 0
SO SRCPARAM 26440E21 .0125998 6.25 729.82 49.93 .3
**********END OF 26440: Red Hills Compressor Station
INFO***********************************
**************************************************************
** 16.19km away. Facility ID=38679 Name=Leslie Federal East Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown

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** lat,long,datum=32.124459, -103.385449, NAD83
** Total Particulate Matter (10 microns or less) emissions=5.62tons/year
*****************Facility sources: ****************************
** NMED source ID=38679AREA1 Facility's ID=HR-1
** Description=Unpaved haul roads Construction date=27-JUL-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38679A1 VOLUME 652305.436 3555372.544 0
SO SRCPARAM 38679A1 .0705589 10 10 9.3
** NMED source ID=38679EQPT1 Facility's ID=HT-1
** Description=0.5 MM Btu/hr heater treater Construction date=27-JUL-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38679E1 VOLUME 652312.972 3555379.565 0
SO SRCPARAM 38679E1 .0005796 6.1 .47 .93
** NMED source ID=38679EQPT2 Facility's ID=ENG-1
** Description=1380 hp Caterpillar 3516J Compressor Engine Construction
date=27-JUL-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38679E2 POINT 652306.186 3555383.117 0
SO SRCPARAM 38679E2 .0125998 6.1 804.82 113.6 .2
** NMED source ID=38679EQPT21 Facility's ID=ENG-2
** Description=1380 hp Caterpillar 3516J Compressor Engine Construction
date=08-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38679E21 POINT 652298.589 3555381.025 0
SO SRCPARAM 38679E21 .0125998 6.1 804.82 113.6 .2
** NMED source ID=38679EQPT22 Facility's ID=ENG-3
** Description=84 hp Cummins G5.9 Compressor Engine Construction date=08-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1464hr/yr, 24hr/day
SO LOCATION 38679E22 POINT 652294.348 3555374.125 0
SO SRCPARAM 38679E22 .00126 6.1 1005.37 9.44 .15
** NMED source ID=38679EQPT23 Facility's ID=ENG-4
** Description=84 hp Cummins G5.9 Compressor Engine Construction date=08-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1464hr/yr, 24hr/day
SO LOCATION 38679E23 POINT 652296 3555365.971 0
SO SRCPARAM 38679E23 .00126 6.1 1005.37 9.44 .15
** NMED source ID=38679EQPT24 Facility's ID=ENG-5
** Description=84 hp Cummins G5.9 Compressor Engine Construction date=08-JUN-22
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1464hr/yr, 24hr/day
SO LOCATION 38679E24 POINT 652302.949 3555361.009 0
SO SRCPARAM 38679E24 .00126 6.1 1005.37 9.44 .15
** NMED source ID=38679EQPT25 Facility's ID=HT-2
** Description=1.0 MM Btu/hr heater treater Construction date=08-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38679E25 VOLUME 652311.632 3555362.151 0
SO SRCPARAM 38679E25 .00126 6.1 .47 .93
** NMED source ID=38679EQPT26 Facility's ID=HT-3
** Description=1.0 MM Btu/hr heater treater Construction date=08-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38679E26 VOLUME 652317.342 3555369.079 0
SO SRCPARAM 38679E26 .00126 6.1 .47 .93
** NMED source ID=38679EQPT27 Facility's ID=HT-4
** Description=1.0 MM Btu/hr heater treater Construction date=08-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38679E27 VOLUME 652316.777 3555378.26 0
SO SRCPARAM 38679E27 .00126 6.1 .47 .93
** NMED source ID=38679EQPT32 Facility's ID=GEN-1
** Description=581 hp PSI 21.9L 4SRB Generator Construction date=08-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38679E32 POINT 652309.942 3555384.738 0
SO SRCPARAM 38679E32 .0113398 6.1 1023.15 19.37 .3
**********END OF 38679: Leslie Federal East Facility
INFO**********************************
************************************************************
** 16.28km away. Facility ID=9054 Name=Onyx 35 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.08306, -103.4392, WGS84
** Total Particulate Matter (10 microns or less) emissions=.4tons/year
*****************Facility sources: ****************************
** NMED source ID=9054EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9054E1 POINT 647300.846 3550708.214 0
SO SRCPARAM 9054E1 .0075599 4.57 1003.71 16.37 .28
** NMED source ID=9054EQPT5 Facility's ID=Heater-1
** Description=Heater Construction date=17-JAN-24
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9054E5 POINT 647308.382 3550715.235 0
SO SRCPARAM 9054E5 .00126 3.05 588.71 6.8 .3
** NMED source ID=9054EQPT6 Facility's ID=Heater-2
** Description=Heater Construction date=17-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9054E6 POINT 647301.596 3550718.787 0
SO SRCPARAM 9054E6 .00126 3.05 588.71 6.8 .3
**********END OF 9054: Onyx 35 Fed Com CTB INFO************************************
************************************************************
** 16.3km away. Facility ID=38683 Name=Mesa Verde East CGL2
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.212194, -103.696944, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.32tons/year
*****************Facility sources: ******************************
** NMED source ID=38683AREA1 Facility's ID=ROAD
** Description=Road Construction date=16-MAY-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38683A1 VOLUME 622800.907 3564700.705 0
SO SRCPARAM 38683A1 .00126 1 .47 .93
** NMED source ID=38683EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8219hr/yr, 24hr/day
SO LOCATION 38683E1 POINT 622808.443 3564707.726 0
SO SRCPARAM 38683E1 .0125998 5.64 816.48 94.18 .24
** NMED source ID=38683EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7977hr/yr, 24hr/day
SO LOCATION 38683E3 POINT 622801.657 3564711.278 0
SO SRCPARAM 38683E3 .0125998 5.64 816.48 94.18 .24
** NMED source ID=38683EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8259hr/yr, 24hr/day
SO LOCATION 38683E4 POINT 622794.06 3564709.186 0
SO SRCPARAM 38683E4 .0125998 5.64 816.48 94.18 .24
** NMED source ID=38683EQPT5 Facility's ID=REB-1
** Description=Reboiler Construction date=20-MAR-20
```

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** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38683E5 POINT 622789.819 3564702.286 0
SO SRCPARAM 38683E5 .00126 4.57 588.71 .12 .24
** NMED source ID=38683EQPT8 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8111hr/yr, 24hr/day
SO LOCATION 38683E8 POINT 622791.471 3564694.132 0
SO SRCPARAM 38683E8 .0125998 5.64 816.48 94.18 .24
** NMED source ID=38683EQPT9 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2002hr/yr, 24hr/day
SO LOCATION 38683E9 POINT 622798.42 3564689.17 0
SO SRCPARAM 38683E9 .0125998 5.64 816.48 94.18 .24
** NMED source ID=38683EQPT10 Facility's ID=REB-1
** Description=Reboiler Construction date=01-JAN-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38683E10 POINT 622807.103 3564690.312 0
SO SRCPARAM 38683E10 .00126 4.57 588.71 .12 .24
** NMED source ID=38683RPNT2 Facility's ID=SITE-SSM
** Description=Startup, Shutdown, Maintenance Construction date=20-MAR-20
** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38683R2 VOLUME 622812.813 3564697.24 0
SO SRCPARAM 38683R2 .0002898 1 .47 .93
**********END OF 38683: Mesa Verde East CGL2
INFO**********************************
************************************************************
** 16.37km away. Facility ID=39275 Name=Kaiser - Red Hills Central Tank Battery
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.086303, -103.61686, NAD83
** Total Particulate Matter (10 microns or less) emissions=.84tons/year
*****************Facility sources: ******************************
** NMED source ID=39275EQPT1 Facility's ID=HS-1
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E1 POINT 630528.011 3550838.863 0
SO SRCPARAM 39275E1 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT2 Facility's ID=HS-10
```

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** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E2 POINT 630535.547 3550845.884 0
SO SRCPARAM 39275E2 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT3 Facility's ID=HS-2
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E3 POINT 630528.761 3550849.436 0
SO SRCPARAM 39275E3 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT4 Facility's ID=HS-3
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E4 POINT 630521.164 3550847.344 0
SO SRCPARAM 39275E4 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT5 Facility's ID=HS-4
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E5 POINT 630516.923 3550840.444 0
SO SRCPARAM 39275E5 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT6 Facility's ID=HS-5
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E6 POINT 630518.575 3550832.29 0
SO SRCPARAM 39275E6 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT7 Facility's ID=HS-6
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E7 POINT 630525.524 3550827.328 0
SO SRCPARAM 39275E7 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT8 Facility's ID=HS-7
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E8 POINT 630534.207 3550828.47 0
SO SRCPARAM 39275E8 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT9 Facility's ID=HS-8
** Description=Heated Separator Construction date=19-DEC-19
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E9 POINT 630539.917 3550835.398 0
SO SRCPARAM 39275E9 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT10 Facility's ID=HS-9
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E10 POINT 630539.352 3550844.579 0
SO SRCPARAM 39275E10 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT11 Facility's ID=HT-1
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E11 VOLUME 630532.517 3550851.057 0
SO SRCPARAM 39275E11 .00126 4.57 .47 .93
** NMED source ID=39275EQPT12 Facility's ID=HT-10
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E12 VOLUME 630522.881 3550851.134 0
SO SRCPARAM 39275E12 .00126 4.57 .47 .93
** NMED source ID=39275EQPT13 Facility's ID=HT-11
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E13 VOLUME 630515.62 3550844.468 0
SO SRCPARAM 39275E13 .00126 4.57 .47 .93
** NMED source ID=39275EQPT14 Facility's ID=HT-12
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E14 VOLUME 630514.84 3550834.422 0
SO SRCPARAM 39275E14 .00126 4.57 .47 .93
** NMED source ID=39275EQPT15 Facility's ID=HT-13
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E15 VOLUME 630521.258 3550826.371 0
SO SRCPARAM 39275E15 .00126 4.57 .47 .93
** NMED source ID=39275EQPT16 Facility's ID=HT-2
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E16 VOLUME 630531.66 3550824.83 0
SO SRCPARAM 39275E16 .00126 4.57 .47 .93
** NMED source ID=39275EQPT17 Facility's ID=HT-3
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E17 VOLUME 630540.5 3550830.922 0
SO SRCPARAM 39275E17 .00126 4.57 .47 .93
** NMED source ID=39275EQPT18 Facility's ID=HT-4
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E18 VOLUME 630542.857 3550841.62 0
SO SRCPARAM 39275E18 .00126 4.57 .47 .93
** NMED source ID=39275EQPT19 Facility's ID=HT-5
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E19 VOLUME 630537.173 3550851.241 0
SO SRCPARAM 39275E19 .00126 4.57 .47 .93
** NMED source ID=39275EQPT20 Facility's ID=HT-6
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E20 VOLUME 630526.243 3550854.463 0
SO SRCPARAM 39275E20 .00126 4.57 .47 .93
** NMED source ID=39275EQPT21 Facility's ID=HT-7
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E21 VOLUME 630515.856 3550849.268 0
SO SRCPARAM 39275E21 .00126 4.57 .47 .93
** NMED source ID=39275EQPT22 Facility's ID=HT-8
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E22 VOLUME 630511.725 3550838.178 0
SO SRCPARAM 39275E22 .00126 4.57 .47 .93
** NMED source ID=39275EQPT23 Facility's ID=HT-9
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E23 VOLUME 630516.351 3550827.047 0
SO SRCPARAM 39275E23 .00126 4.57 .47 .93
** NMED source ID=39275EQPT29 Facility's ID=HS-11
** Description=Heated Separator Construction date=10-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E29 POINT 630527.525 3550821.97 0
SO SRCPARAM 39275E29 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT30 Facility's ID=HS-12
** Description=Heated Separator Construction date=10-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E30 POINT 630539.368 3550825.946 0
SO SRCPARAM 39275E30 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT31 Facility's ID=HS-13
** Description=Heated Separator Construction date=10-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E31 POINT 630545.424 3550837.124 0
SO SRCPARAM 39275E31 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT32 Facility's ID=HT-14
** Description=Heater Treater Construction date=10-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E32 VOLUME 630542.177 3550849.642 0
SO SRCPARAM 39275E32 .00126 4.57 .47 .93
** NMED source ID=39275EQPT33 Facility's ID=HT-15
** Description=Heater Treater Construction date=10-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E33 VOLUME 630531.079 3550856.701 0
SO SRCPARAM 39275E33 .00126 4.57 .47 .93
**********END OF 39275: Kaiser - Red Hills Central Tank Battery
INFO************************************
************************************************************
** 16.44km away. Facility ID=38392 Name=White Falcon Fed 16 C Central Tank Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7795 NOI
** lat,long,datum=32.135419, -103.373681, WGS84
** Total Particulate Matter (10 microns or less) emissions=.2tons/year
*****************Facility sources: ******************************
** NMED source ID=38392AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=02-OCT-23
** SCC=31088801
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38392A1 VOLUME 653397.329 3556604.319 0
SO SRCPARAM 38392A1 .065519 10 10 9.3
** NMED source ID=38392EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38392E4 VOLUME 653404.865 3556611.34 0
SO SRCPARAM 38392E4 .00126 6.71 .47 .93
** NMED source ID=38392EQPT8 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38392E8 VOLUME 653398.079 3556614.892 0
SO SRCPARAM 38392E8 .00126 6.71 .47 .93
** NMED source ID=38392EQPT9 Facility's ID=HT-03
** Description=Heater Treater Burner Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38392E9 VOLUME 653390.482 3556612.8 0
SO SRCPARAM 38392E9 .00126 6.71 .47 .93
** NMED source ID=38392EQPT10 Facility's ID=HT-04
** Description=Heater Treater Burner Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38392E10 VOLUME 653386.241 3556605.9 0
SO SRCPARAM 38392E10 .00126 6.71 .47 .93
**********END OF 38392: White Falcon Fed 16 C Central Tank Battery
INFO**********************************
************************************************************
** 16.48km away. Facility ID=8462 Name=Paint 4 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.153335, -103.685205, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.93tons/year
*****************Facility sources: ****************************
** NMED source ID=8462EQPT3 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engine Construction date=15-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E3 POINT 623987.048 3558189.167 0
SO SRCPARAM 8462E3 .0125998 5.85 716.48 68.95 .27
** NMED source ID=8462EQPT4 Facility's ID=ENG 2
** Description=ENG 2 Gas Lift Engine Construction date=15-DEC-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E4 POINT 623994.584 3558196.188 0
SO SRCPARAM 8462E4 .0037799 3.6 853.15 19.96 .17
** NMED source ID=8462EQPT5 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=15-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E5 POINT 623987.798 3558199.74 0
SO SRCPARAM 8462E5 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8462EQPT6 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=15-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E6 POINT 623980.201 3558197.648 0
SO SRCPARAM 8462E6 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8462EQPT7 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=15-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E7 POINT 623975.96 3558190.748 0
SO SRCPARAM 8462E7 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8462EQPT8 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=15-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E8 POINT 623977.612 3558182.594 0
SO SRCPARAM 8462E8 .0100798 3.17 1005.37 77.48 .15
**********END OF 8462: Paint 4 CTB 1 INFO**********************************
************************************************************
** 16.48km away. Facility ID=1775 Name=Aggregate Facility No2 GCP2-0265
** Company ID=12792 Name=United Materials, LLP
** SIC=1423 NAIC=212313   Permit=0265 GCP2
** lat,long,datum=32.066891, -103.566263, Unknown
** Total Particulate Matter (10 microns or less) emissions=190tons/year
*****************Facility sources: ****************************
** NMED source ID=1775ACT 1 Facility's ID=GCP2
** Description=Crushing Operation Construction date=16-DEC-13
** SCC=30502501
** Potential operating rate=4380hr/yr, 0hr/day
** Actual operating rate=950hr/yr, 10hr/day
SO LOCATION 1775@1 VOLUME 661442.574 3630092.569 1173.5
SO SRCPARAM 1775@1 5.4656672 10 430 9.3
SO EMISFACT 1775@1 HROFDY 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0
** NMED source ID=1775ACT 4 Facility's ID=S
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** Description=Aggregate crushing facility Construction date=15-OCT-21
** SCC=30502501
** Potential operating rate=4380hr/yr, 0hr/day
** Actual operating rate=950hr/yr, 10hr/day
SO LOCATION 1775@4 VOLUME 635339.459 3548756.256 0
SO SRCPARAM 1775@4 5.4656672 10 430 9.3
SO EMISFACT 1775@4 HROFDY 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0
**********END OF 1775: Aggregate Facility No2 GCP2-0265
INFO**********************************
************************************************************
** 16.52km away. Facility ID=38457 Name=Hunter 21 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2951, -103.3797, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.34tons/year
*****************Facility sources: ******************************
** NMED source ID=38457AREA1 Facility's ID=ROAD
** Description=Haul Road Emissions Construction date=26-JUL-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38457A1 VOLUME 652562.578 3574298.875 0
SO SRCPARAM 38457A1 .0658718 10 10 9.3
** NMED source ID=38457EQPT17 Facility's ID=HTR-1
** Description=Heater Construction date=26-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38457E17 VOLUME 652570.114 3574305.896 0
SO SRCPARAM 38457E17 .00126 4.88 .47 .93
**********END OF 38457: Hunter 21 State CTB
INFO**********************************
************************************************************
** 16.56km away. Facility ID=40001 Name=Green Beret Federal 20 A CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9226 NOI
** lat,long,datum=32.121008, -103.383572, WGS84
** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=40001AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=02-AUG-21
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40001A1 VOLUME 652488.26 3554992.609 0
SO SRCPARAM 40001A1 .0100798 1 .47 .93
** NMED source ID=40001EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=02-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40001E3 VOLUME 652495.796 3554999.63 0
SO SRCPARAM 40001E3 .00126 4.57 .47 .93
**********END OF 40001: Green Beret Federal 20 A CTB
INFO**********************************
************************************************************
** 16.58km away. Facility ID=40935 Name=Haflinger 22 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.12009, -103.663724, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.6tons/year
*****************Facility sources: ****************************
** NMED source ID=40935AREA1 Facility's ID=ROAD-1
** Description=ROAD-1 Unpaved Haul Roads Construction date=14-MAR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40935A1 VOLUME 626058.627 3554528.639 0
SO SRCPARAM 40935A1 .2784556 10 20 9.3
** NMED source ID=40935EQPT2 Facility's ID=HT-1
** Description=HT-1 Heater Treater Construction date=14-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40935E2 VOLUME 626066.163 3554535.66 0
SO SRCPARAM 40935E2 .0037799 9.14 .47 .93
** NMED source ID=40935EQPT3 Facility's ID=HT-2
** Description=HT-2 Heater Treater Construction date=14-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40935E3 VOLUME 626059.377 3554539.212 0
SO SRCPARAM 40935E3 .0037799 9.14 .47 .93
** NMED source ID=40935EQPT15 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engnine Construction date=25-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40935E15 POINT 626051.78 3554537.12 0
SO SRCPARAM 40935E15 .0037799 3.6 846.48 20.01 .17
** NMED source ID=40935EQPT16 Facility's ID=ENG 2
** Description=ENG 1 Gas Lift Engnine Construction date=01-JAN-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40935E16 POINT 626047.539 3554530.22 0
SO SRCPARAM 40935E16 .0037799 3.6 846.48 20.01 .17
**********END OF 40935: Haflinger 22 CTB 2 INFO**********************************
************************************************************
** 16.61km away. Facility ID=39523 Name=Donkey Kong 1 Fed Com CTB 1
```

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** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.330985, -103.419713, NAD83
** Total Particulate Matter (10 microns or less) emissions=.39tons/year
*****************Facility sources: ****************************
** NMED source ID=39523EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 1.0 MMbtu/hr Construction date=08-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3240hr/yr, 24hr/day
SO LOCATION 39523E3 POINT 648735.985 3578221.065 0
SO SRCPARAM 39523E3 .00126 3.96 588.71 2.26 .3
** NMED source ID=39523EQPT12 Facility's ID=ENG-2
** Description=Gas Lift Compressor Engine Construction date=26-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39523E12 POINT 648743.521 3578228.086 0
SO SRCPARAM 39523E12 .0037799 4.27 857.59 55.53 .1
** NMED source ID=39523EQPT27 Facility's ID=ENG-1
** Description=Gas Lift Compressor Engine Construction date=18-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39523E27 POINT 648736.735 3578231.638 0
SO SRCPARAM 39523E27 .0062999 5.18 772.59 41.48 .25
**********END OF 39523: Donkey Kong 1 Fed Com CTB 1
INFO**********************************
************************************************************
** 16.68km away. Facility ID=40557 Name=Battle Axe Compressor Station
** Company ID=13580 Name=ET Gathering & Processing LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.061667, -103.503879, NAD83
** Total Particulate Matter (10 microns or less) emissions=4.3tons/year
*****************Facility sources: ****************************
** NMED source ID=40557EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=02-AUG-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E1 POINT 641229.02 3548250.058 0
SO SRCPARAM 40557E1 .0239396 8.33 729.26 30.72 .56
** NMED source ID=40557EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=02-AUG-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E2 POINT 641236.556 3548257.079 0
SO SRCPARAM 40557E2 .0239396 8.33 729.26 30.72 .56
** NMED source ID=40557EQPT4 Facility's ID=GEN-1
```

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** Description=Generator Construction date=02-AUG-22
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E4 POINT 641229.77 3548260.631 0
SO SRCPARAM 40557E4 .0050399 2.13 977.59 80.8 .09
** NMED source ID=40557EQPT8 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=23-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E8 POINT 641222.173 3548258.539 0
SO SRCPARAM 40557E8 .0239396 8.33 718.15 30.91 .56
** NMED source ID=40557EQPT9 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=23-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E9 POINT 641217.932 3548251.639 0
SO SRCPARAM 40557E9 .0239396 8.33 718.15 30.91 .56
** NMED source ID=40557EQPT10 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=23-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E10 POINT 641219.584 3548243.485 0
SO SRCPARAM 40557E10 .0239396 8.33 718.15 30.91 .56
**********END OF 40557: Battle Axe Compressor Station
INFO************************************
**************************************************************
** 16.74km away. Facility ID=36484 Name=Coachman Fee Com 4H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6695 NOI
** lat,long,datum=32.122625, -103.3798, WGS84
** Total Particulate Matter (10 microns or less) emissions=.35tons/year
*****************Facility sources: ******************************
** NMED source ID=36484AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=01-AUG-15
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36484A1 VOLUME 652841.443 3555177.222 0
SO SRCPARAM 36484A1 .0113398 1 .47 .93
** NMED source ID=36484EQPT5 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 36484E5 VOLUME 652848.979 3555184.243 0
SO SRCPARAM 36484E5 .0005796 6.71 .47 .93
```

**********END OF 36484: Coachman Fee Com 4H Battery
INFO**********
**********
** 16.78km away. Facility ID=5138 Name=Gin and Tectonic Federal 5N CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.242271, -103.69808, WGS84
** Total Particulate Matter (10 microns or less) emissions=.94tons/year
**********Facility sources: **********
** NMED source ID=5138AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=13-JUN-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138A1 VOLUME 622653.431 3568033.71 0
SO SRCPARAM 5138A1 .0005796 1 .47 .93
** NMED source ID=5138EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=13-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E1 POINT 622660.967 3568040.731 0
SO SRCPARAM 5138E1 .0037799 4.27 853.15 25.05 .15
** NMED source ID=5138EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=13-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E2 POINT 622654.181 3568044.283 0
SO SRCPARAM 5138E2 .0037799 4.27 853.15 25.05 .15
** NMED source ID=5138EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=13-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E3 POINT 622646.584 3568042.191 0
SO SRCPARAM 5138E3 .0037799 4.27 805.93 21.79 .15
** NMED source ID=5138EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=13-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E4 POINT 622642.343 3568035.291 0
SO SRCPARAM 5138E4 .0037799 4.27 805.93 21.79 .15
** NMED source ID=5138EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=13-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E5 POINT 622643.995 3568027.137 0

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SO SRCPARAM 5138E5 .0037799 4.27 846.48 25.09 .15
** NMED source ID=5138EQPT6 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=13-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E6 POINT 622650.944 3568022.175 0
SO SRCPARAM 5138E6 .0037799 4.27 846.48 25.09 .15
** NMED source ID=5138EQPT9 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=13-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E9 VOLUME 622659.627 3568023.317 0
SO SRCPARAM 5138E9 .00126 4.57 .47 .93
** NMED source ID=5138EQPT10 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=13-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E10 VOLUME 622665.337 3568030.245 0
SO SRCPARAM 5138E10 .00126 4.57 .47 .93
**********END OF 5138: Gin and Tectonic Federal 5N CTB
INFO**********************************
************************************************************
** 16.79km away. Facility ID=38548 Name=Pegasus 23-35-16 Battery
** Company ID=14164 Name=Marlin Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.298433, -103.37894, WGS84
** Total Particulate Matter (10 microns or less) emissions=.48tons/year
*****************Facility sources: ******************************
** NMED source ID=38548ACT 1 Facility's ID=HR-1
** Description=Haul Road Emissions Construction date=03-AUG-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38548@1 VOLUME 652628.558 3574669.476 0
SO SRCPARAM 38548@1 .0529192 1 .47 .93
** NMED source ID=38548EQPT1 Facility's ID=HT-1
** Description=Heater Treater, 3.0 MMBtu/hr Construction date=04-NOV-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38548E1 VOLUME 652636.094 3574676.497 0
SO SRCPARAM 38548E1 .0037799 6.1 .47 .93
** NMED source ID=38548EQPT10 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=03-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38548E10 POINT 652629.308 3574680.049 0
SO SRCPARAM 38548E10 .0037799 2.44 919.82 61.87 .09
** NMED source ID=38548EQPT11 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=03-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38548E11 POINT 652621.711 3574677.957 0
SO SRCPARAM 38548E11 .0037799 2.44 919.82 61.87 .09
**********END OF 38548: Pegasus 23-35-16 Battery
INFO**********************************
************************************************************
** 16.81km away. Facility ID=38688 Name=Devon - Gaucho Unit 30CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.360367, -103.501806, NAD83
** Total Particulate Matter (10 microns or less) emissions=.73tons/year
****************Facility sources: ****************************
** NMED source ID=38688EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 - 1.0 mm btu/h Construction date=18-NOV-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38688E2 POINT 640963.062 3581367.446 0
SO SRCPARAM 38688E2 .00126 9.14 708.71 2.82 .34
** NMED source ID=38688EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 - 1.0 mm btu/h Construction date=18-NOV-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38688E3 POINT 640970.598 3581374.467 0
SO SRCPARAM 38688E3 .00126 9.14 708.71 2.82 .34
** NMED source ID=38688RPNT2 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=18-NOV-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38688R2 VOLUME 640963.812 3581378.019 0
SO SRCPARAM 38688R2 .2771956 10 20 9.3
**********END OF 38688: Devon - Gaucho Unit 30CTB 1
INFO**********************************
************************************************************
** 16.86km away. Facility ID=33175 Name=Cotton Draw 9L Federal 2H, 3H, 4H and 5H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=5391 NOI
** lat,long,datum=32.13844, -103.6812, NAD83
** Total Particulate Matter (10 microns or less) emissions=.86tons/year
****************Facility sources: ****************************
** NMED source ID=33175ACT 2 Facility's ID=HR
** Description=Haul Road Construction date=08-AUG-22
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** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33175@2 VOLUME 624384.981 3556542.56 0
SO SRCPARAM 33175@2 .1159182 10 10 9.3
** NMED source ID=33175EQPT3 Facility's ID=H1
** Description=2.0 MMBTU Heater Treater Construction date=03-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8375hr/yr, 23hr/day
SO LOCATION 33175E3 POINT 624392.517 3556549.581 0
SO SRCPARAM 33175E3 .00126 4.57 477.59 4.05 .15
** NMED source ID=33175EQPT4 Facility's ID=H2
** Description=2.0 MMBTU Heater Treater Construction date=03-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8375hr/yr, 23hr/day
SO LOCATION 33175E4 POINT 624385.731 3556553.133 0
SO SRCPARAM 33175E4 .00126 4.57 477.59 4.05 .15
** NMED source ID=33175EQPT17 Facility's ID=ENG7
** Description=Engine Construction date=01-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6827hr/yr, 19hr/day
SO LOCATION 33175E17 POINT 624378.134 3556551.041 0
SO SRCPARAM 33175E17 .0088199 5.49 722.04 37.43 .25
**********END OF 33175: Cotton Draw 9L Federal 2H, 3H, 4H and 5H
INFO**********************************
************************************************************
** 16.86km away. Facility ID=40825 Name=Floofy Cat 21 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.285547, -103.679507, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.15tons/year
*****************Facility sources: ****************************
** NMED source ID=40825AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=08-DEC-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40825A1 VOLUME 624344.286 3572852.649 0
SO SRCPARAM 40825A1 .2784556 10 20 9.3
** NMED source ID=40825EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 EQ001456906 Construction date=08-DEC-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40825E2 VOLUME 624351.822 3572859.67 0
SO SRCPARAM 40825E2 .00252 9.14 .47 .93
** NMED source ID=40825EQPT3 Facility's ID=HT-2
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** Description=Heater Treater 2 EQ001456946 Construction date=08-DEC-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40825E3 VOLUME 624345.036 3572863.222 0
SO SRCPARAM 40825E3 .00252 9.14 .47 .93
** NMED source ID=40825EQPT16 Facility's ID=ENG 1
** Description=ENG 1 Compressor Engine Construction date=11-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40825E16 POINT 624337.439 3572861.13 0
SO SRCPARAM 40825E16 .0239396 5.85 772.59 37.4 .27
** NMED source ID=40825EQPT17 Facility's ID=ENG 2
** Description=ENG 2 Compressor Engine Construction date=11-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40825E17 POINT 624333.198 3572854.23 0
SO SRCPARAM 40825E17 .0075599 4.39 1000.37 17.38 .26
**********END OF 40825: Floofy Cat 21 CTB 2
INFO************************************
************************************************************
** 16.87km away. Facility ID=40010 Name=Fez Federal 9 P CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9242 NOI
** lat,long,datum=32.139842, -103.365547, WGS84
** Total Particulate Matter (10 microns or less) emissions=.11tons/year
*****************Facility sources: ******************************
** NMED source ID=40010AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=01-NOV-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40010A1 VOLUME 654157.19 3557106.29 0
SO SRCPARAM 40010A1 .0100798 1 .47 .93
** NMED source ID=40010EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40010E3 VOLUME 654164.726 3557113.311 0
SO SRCPARAM 40010E3 .00126 4.57 .47 .93
** NMED source ID=40010EQPT4 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=01-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40010E4 VOLUME 654157.94 3557116.863 0
SO SRCPARAM 40010E4 .00126 4.57 .47 .93
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**********END OF 40010: Fez Federal 9 P CTB
INFO***********************************
************************************************************
** 16.88km away. Facility ID=38633 Name=Duck Hunt 1 State Com CTB
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.332814, -103.417714, WGS84
** Total Particulate Matter (10 microns or less) emissions=.49tons/year
*****************Facility sources: ******************************
** NMED source ID=38633EQPT9 Facility's ID=HT-1
** Description=Heater Treater (1MMBtu/h) Construction date=22-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8592hr/yr, 24hr/day
SO LOCATION 38633E9 VOLUME 648921.155 3578426.617 0
SO SRCPARAM 38633E9 .00126 3.96 .47 .93
** NMED source ID=38633EQPT10 Facility's ID=HT-2
** Description=Heater Treater (1MMBtu/h) Construction date=22-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8592hr/yr, 24hr/day
SO LOCATION 38633E10 VOLUME 648928.691 3578433.638 0
SO SRCPARAM 38633E10 .00126 3.96 .47 .93
** NMED source ID=38633EQPT11 Facility's ID=ENG-1
** Description=Gas Lift Compressor Engine (1380 hp) Construction date=22-MAR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8592hr/yr, 24hr/day
SO LOCATION 38633E11 POINT 648921.905 3578437.19 0
SO SRCPARAM 38633E11 .0125998 5.49 722.59 51.85 .3
**********END OF 38633: Duck Hunt 1 State Com CTB
INFO***********************************
************************************************************
** 16.91km away. Facility ID=39481 Name=Rodney Robinson North Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.340411, -103.617097, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.56tons/year
*****************Facility sources: ******************************
** NMED source ID=39481AREA1 Facility's ID=HR-1
** Description=HR-1 Construction date=08-APR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39481A1 VOLUME 630143.121 3579009.051 0
SO SRCPARAM 39481A1 .2116766 10 20 9.3
** NMED source ID=39481EQPT17 Facility's ID=HT-1
** Description=Heater Treater Construction date=08-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39481E17 POINT 630150.657 3579016.072 0
SO SRCPARAM 39481E17 .00126 6.1 533.15 2.11 .2
** NMED source ID=39481EQPT18 Facility's ID=HT-2
** Description=Heater Treater Construction date=08-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39481E18 POINT 630143.871 3579019.624 0
SO SRCPARAM 39481E18 .00126 6.1 533.15 2.11 .2
** NMED source ID=39481EQPT19 Facility's ID=HT-3
** Description=Heater Treater Construction date=08-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39481E19 POINT 630136.274 3579017.532 0
SO SRCPARAM 39481E19 .00126 6.1 533.15 2.11 .2
** NMED source ID=39481EQPT20 Facility's ID=HT-4
** Description=Heater Treater Construction date=08-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39481E20 POINT 630132.033 3579010.632 0
SO SRCPARAM 39481E20 .00126 6.1 533.15 2.11 .2
** NMED source ID=39481EQPT31 Facility's ID=ENG-1
** Description=CAT G3508ULB 690 HP Construction date=09-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39481E31 POINT 630133.685 3579002.478 0
SO SRCPARAM 39481E31 .00126 6.4 809.82 41.45 .25
** NMED source ID=39481EQPT32 Facility's ID=ENG 3
** Description=188 HP, Cummins G855 Construction date=29-SEP-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39481E32 POINT 630140.634 3578997.516 0
SO SRCPARAM 39481E32 .0037799 6.1 919.82 8.13 .25
** NMED source ID=39481EQPT33 Facility's ID=ENG-2
** Description=92 HP, GM Vortec 5.7L VRU Engine Construction date=09-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5352hr/yr, 24hr/day
SO LOCATION 39481E33 POINT 630149.317 3578998.658 0
SO SRCPARAM 39481E33 .00126 2.74 922.04 38.61 .1
** NMED source ID=39481EQPT34 Facility's ID=ENG-4
** Description=CAT 3516 1380HP Construction date=05-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 39481E34 POINT 630155.027 3579005.586 0
SO SRCPARAM 39481E34 .0125998 6.1 713.71 50.99 .3
** NMED source ID=39481EQPT35 Facility's ID=ENG-5
** Description=188 HP, Cummins G855 Construction date=01-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39481E35 POINT 630154.462 3579014.767 0
SO SRCPARAM 39481E35 .0037799 6.1 919.82 8.13 .25
** NMED source ID=39481EQPT36 Facility's ID=GEN-1
** Description=268-hp PSI 11.1L generator Construction date=31-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39481E36 POINT 630147.627 3579021.245 0
SO SRCPARAM 39481E36 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=39481EQPT37 Facility's ID=ENG-6
** Description=92 HP, GM Vortec 5.7L VRU Engine Construction date=31-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39481E37 POINT 630137.991 3579021.322 0
SO SRCPARAM 39481E37 .00126 2.74 922.04 38.61 .1
**********END OF 39481: Rodney Robinson North Facility
INFO**********************************
************************************************************
** 16.92km away. Facility ID=39219 Name=Mewbourne - Jennings 27 W0AP Fed Com 3H
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.108355, -103.656816, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.13tons/year
*****************Facility sources: ****************************
** NMED source ID=39219EQPT1 Facility's ID=ENG1
** Description=Compressor Engine (Caterpillar 3306TA) Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39219E1 POINT 626726.567 3553235.826 0
SO SRCPARAM 39219E1 .0037799 4.27 834.82 35.72 .13
** NMED source ID=39219EQPT2 Facility's ID=ENG2
** Description=Compressor Engine (Caterpillar 3306NA) Construction date=01-JAN-20
** SCC=31000312
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39219E2 POINT 626734.103 3553242.847 0
SO SRCPARAM 39219E2 .0037799 4.27 834.82 35.72 .13
** NMED source ID=39219EQPT3 Facility's ID=ENG3
** Description=Compressor Engine (Caterpillar 3306TA) Construction date=01-JAN-20
** SCC=31000312
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39219E3 POINT 626727.317 3553246.399 0
SO SRCPARAM 39219E3 .0037799 4.27 834.82 35.72 .13
** NMED source ID=39219EQPT7 Facility's ID=HT1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39219E7 VOLUME 626719.72 3553244.307 0
SO SRCPARAM 39219E7 .00126 4.57 .47 .93
** NMED source ID=39219EQPT8 Facility's ID=HT2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39219E8 VOLUME 626715.479 3553237.407 0
SO SRCPARAM 39219E8 .00126 4.57 .47 .93
** NMED source ID=39219EQPT9 Facility's ID=HT3
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39219E9 VOLUME 626717.131 3553229.253 0
SO SRCPARAM 39219E9 .0008568 4.57 .47 .93
** NMED source ID=39219EQPT23 Facility's ID=ENG-4
** Description=Compressor Engine (Caterpillar 3306TA) Construction date=08-DEC-21
** SCC=31000312
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39219E23 POINT 626724.08 3553224.291 0
SO SRCPARAM 39219E23 .0037799 4.27 834.82 35.72 .13
** NMED source ID=39219EQPT24 Facility's ID=ENG-5
** Description=Compressor Engine (Caterpillar 3306TA) Construction date=08-DEC-21
** SCC=31000312
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39219E24 POINT 626732.763 3553225.433 0
SO SRCPARAM 39219E24 .0125998 7.32 707.04 29.11 .4
**********END OF 39219: Mewbourne - Jennings 27 W0AP Fed Com 3H
INFO**********************************
************************************************************
** 16.98km away. Facility ID=38691 Name=Mortal Kombat 36 State Com No502H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.341367, -103.431026, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.42tons/year
*****************Facility sources: ******************************
** NMED source ID=38691EQPT10 Facility's ID=H-1
** Description=0.5 MMBtu/h Heater Treater Construction date=09-SEP-20
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4872hr/yr, 24hr/day
SO LOCATION 38691E10 VOLUME 647654.231 3579356.423 0
SO SRCPARAM 38691E10 .0005796 6.4 .47 .93
** NMED source ID=38691EQPT11 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=27-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38691E11 POINT 647661.767 3579363.444 0
SO SRCPARAM 38691E11 .00252 4.27 892.04 38.19 .1
** NMED source ID=38691RPNT3 Facility's ID=HAUL
** Description=Haul Road Construction date=09-SEP-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38691R3 VOLUME 647654.981 3579366.996 0
SO SRCPARAM 38691R3 .0755988 10 10 9.3
**********END OF 38691: Mortal Kombat 36 State Com No502H
INFO**********************************
************************************************************
** 16.98km away. Facility ID=34697 Name=Cotton Draw 32 State Fed Com 3H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5997 NOI
** lat,long,datum=32.172997, -103.698639, NAD83
** Total Particulate Matter (10 microns or less) emissions=.23tons/year
****************Facility sources: ****************************
** NMED source ID=34697AREA2 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 34697A2 VOLUME 622693.748 3560353.457 0
SO SRCPARAM 34697A2 .2784556 10 20 9.3
** NMED source ID=34697EQPT31 Facility's ID=HT-1
** Description=Heater_EQ000173522 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8736hr/yr, 24hr/day
SO LOCATION 34697E31 VOLUME 622701.284 3560360.478 0
SO SRCPARAM 34697E31 .0005796 9.14 .47 .93
**********END OF 34697: Cotton Draw 32 State Fed Com 3H
INFO**********************************
************************************************************
** 16.99km away. Facility ID=39737 Name=Maxus Horizontal CTB
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=8993 NOI
** lat,long,datum=32.353536, -103.460781, WGS84
** Total Particulate Matter (10 microns or less) emissions=.04tons/year
****************Facility sources: ****************************
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** NMED source ID=39737EQPT7 Facility's ID=HT-01
** Description=Heater Treater Construction date=13-OCT-23
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39737E7 VOLUME 644834.334 3580664.902 0
SO SRCPARAM 39737E7 .00126 7.32 .47 .93
**********END OF 39737: Maxus Horizontal CTB
INFO**********************************
************************************************************
** 17km away. Facility ID=37973 Name=Coriander AOC 1-12 State Com 1H-5H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.338631, -103.622239, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.36tons/year
*****************Facility sources: ******************************
** NMED source ID=37973AREA1 Facility's ID=HR
** Description=Haul Road Construction date=10-AUG-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973A1 VOLUME 629661.713 3578805.478 0
SO SRCPARAM 37973A1 .1159182 10 10 9.3
** NMED source ID=37973EQPT1 Facility's ID=ENG1
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=20200252
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7593hr/yr, 21hr/day
SO LOCATION 37973E1 POINT 629669.249 3578812.499 0
SO SRCPARAM 37973E1 .0075599 4.57 805.93 109.48 .15
** NMED source ID=37973EQPT2 Facility's ID=Flare1
** Description=Process Flare Construction date=01-JAN-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7593hr/yr, 21hr/day
SO LOCATION 37973E2 POINT 629662.463 3578816.051 0
SO SRCPARAM 37973E2 .00126 4.57 1273 20 20.806
** NMED source ID=37973EQPT15 Facility's ID=HTR-1
** Description=Heater Treater Construction date=10-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973E15 VOLUME 629654.866 3578813.959 0
SO SRCPARAM 37973E15 .00126 4.57 .47 .93
** NMED source ID=37973EQPT16 Facility's ID=HTR-2
** Description=Heater Treater Construction date=10-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973E16 VOLUME 629650.625 3578807.059 0
```

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SO SRCPARAM 37973E16 .00126 4.57 .47 .93
** NMED source ID=37973EQPT20 Facility's ID=Flare1 SSM
** Description=Process Flare Construction date=08-NOV-18
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973E20 POINT 629652.277 3578798.905 0
SO SRCPARAM 37973E20 .0069047 4.57 1273 20 3.604
** NMED source ID=37973EQPT21 Facility's ID=GEN1
** Description=Generator Construction date=29-NOV-23
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973E21 POINT 629659.226 3578793.943 0
SO SRCPARAM 37973E21 .00252 3.11 793.15 42.31 .15
** NMED source ID=37973EQPT22 Facility's ID=GEN2
** Description=Generator Construction date=29-NOV-23
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973E22 POINT 629667.909 3578795.085 0
SO SRCPARAM 37973E22 .00252 3.11 793.15 42.31 .15
** NMED source ID=37973RPNT4 Facility's ID=SSM
** Description=SSM Construction date=10-AUG-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973R4 VOLUME 629673.619 3578802.013 0
SO SRCPARAM 37973R4 .0005796 1 .47 .93
**********END OF 37973: Coriander AOC 1-12 State Com 1H-5H
INFO**********************************
************************************************************
** 17.01km away. Facility ID=37367 Name=Smalls Federal 1H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7061 NOI
** lat,long,datum=32.355819, -103.467828, WGS84
** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=37367AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=15-DEC-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37367A1 VOLUME 644167.549 3580908.494 0
SO SRCPARAM 37367A1 .0002898 1 .47 .93
** NMED source ID=37367EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
```

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SO LOCATION 37367E4 VOLUME 644175.085 3580915.515 0
SO SRCPARAM 37367E4 .00126 4.57 .47 .93
** NMED source ID=37367EQPT6 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=15-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37367E6 VOLUME 644168.299 3580919.067 0
SO SRCPARAM 37367E6 .00126 4.57 .47 .93
**********END OF 37367: Smalls Federal 1H Battery
INFO**********************************
************************************************************
** 17.01km away. Facility ID=40859 Name=Intrepid - 440TPH Screening Plant -
GCP2-9826
** Company ID=545 Name=Intrepid Potash New Mexico LLC
** SIC=1446 NAIC=212322   Permit=9826 GCP2
** lat,long,datum=32.121044, -103.377586, WGS84
** Total Particulate Matter (10 microns or less) emissions=95tons/year
*****************Facility sources: ****************************
** NMED source ID=40859ACT 1 Facility's ID=GCP-2
** Description=Screening Facility Construction date=05-JAN-23
** SCC=30502501
** Potential operating rate=4380hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40859@1 VOLUME 653052.965 3555005.09 0
SO SRCPARAM 40859@1 5.4656672 10 430 9.3
SO EMISFACT 40859@1 HROFDY 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0
**********END OF 40859: Intrepid - 440TPH Screening Plant - GCP2-9826
INFO**********************************
************************************************************
** 17.05km away. Facility ID=5991 Name=Catnip Everdeen Federal Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.312754, -103.658793, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.96tons/year
*****************Facility sources: ****************************
** NMED source ID=5991AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Road Construction date=05-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991A1 VOLUME 626257.24 3575893.046 0
SO SRCPARAM 5991A1 .0554391 1 .47 .93
** NMED source ID=5991EQPT2 Facility's ID=GEN-1
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E2 POINT 626264.776 3575900.067 0
SO SRCPARAM 5991E2 .0113398 4.51 805.37 227.72 .09
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** NMED source ID=5991EQPT3 Facility's ID=GEN-2
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E3 POINT 626257.99 3575903.619 0
SO SRCPARAM 5991E3 .0113398 4.51 805.37 227.72 .09
** NMED source ID=5991EQPT4 Facility's ID=GEN-3
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E4 POINT 626250.393 3575901.527 0
SO SRCPARAM 5991E4 .0113398 4.51 805.37 227.72 .09
** NMED source ID=5991EQPT5 Facility's ID=GEN-4
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E5 POINT 626246.152 3575894.627 0
SO SRCPARAM 5991E5 .0113398 4.51 805.37 227.72 .09
** NMED source ID=5991EQPT6 Facility's ID=GEN-5
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E6 POINT 626247.804 3575886.473 0
SO SRCPARAM 5991E6 .0075599 4.51 744.26 145.91 .09
** NMED source ID=5991EQPT7 Facility's ID=GEN-6
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E7 POINT 626254.753 3575881.511 0
SO SRCPARAM 5991E7 .0075599 4.51 744.26 145.91 .09
** NMED source ID=5991EQPT8 Facility's ID=GEN-7
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E8 POINT 626263.436 3575882.653 0
SO SRCPARAM 5991E8 .0075599 4.51 744.26 145.91 .09
** NMED source ID=5991EQPT9 Facility's ID=GEN-8
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E9 POINT 626269.146 3575889.581 0
SO SRCPARAM 5991E9 .0075599 4.51 744.26 145.91 .09
** NMED source ID=5991EQPT11 Facility's ID=HTR-1
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** Description=Heater Treater Burner Construction date=05-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E11 VOLUME 626268.581 3575898.762 0
SO SRCPARAM 5991E11 .00126 4.88 .47 .93
**********END OF 5991: Catnip Everdeen Federal Com CTB
INFO**********************************
************************************************************
** 17.07km away. Facility ID=37558 Name=Gem 36 State Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0818, -103.6222, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.71tons/year
*****************Facility sources: ****************************
** NMED source ID=37558AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=31-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37558A1 VOLUME 630030.406 3550333.218 0
SO SRCPARAM 37558A1 .0579591 1 .47 .93
** NMED source ID=37558EQPT9 Facility's ID=HT-1H
** Description=Heater Treater Construction date=31-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37558E9 VOLUME 630037.942 3550340.239 0
SO SRCPARAM 37558E9 .0005796 5.18 .47 .93
** NMED source ID=37558EQPT10 Facility's ID=HT-1
** Description=Heater Treater Construction date=31-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37558E10 VOLUME 630031.156 3550343.791 0
SO SRCPARAM 37558E10 .0005796 5.18 .47 .93
** NMED source ID=37558EQPT11 Facility's ID=HT-2
** Description=Heater Treater Construction date=31-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37558E11 VOLUME 630023.559 3550341.699 0
SO SRCPARAM 37558E11 .00126 5.18 .47 .93
**********END OF 37558: Gem 36 State Com CTB
INFO**********************************
************************************************************
** 17.07km away. Facility ID=40222 Name=Maxus West CTB
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=9427 NOI
** lat,long,datum=32.354583, -103.461556, WGS84
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** Total Particulate Matter (10 microns or less) emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=40222EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=13-OCT-23
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40222E3 VOLUME 644759.734 3580779.93 0
SO SRCPARAM 40222E3 .00126 7.32 .47 .93
** NMED source ID=40222EQPT4 Facility's ID=HT-02
** Description=Heater Treater Construction date=13-OCT-23
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40222E4 VOLUME 644767.27 3580786.951 0
SO SRCPARAM 40222E4 .00126 7.32 .47 .93
**********END OF 40222: Maxus West CTB INFO************************************
************************************************************
** 17.09km away. Facility ID=37593 Name=EOG - Foghorn/Leghorn 32 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.354867, -103.585775, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.94tons/year
*****************Facility sources: ****************************
** NMED source ID=37593AREA1 Facility's ID=Haul
** Description=Haul Roads Construction date=24-OCT-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8500hr/yr, 24hr/day
SO LOCATION 37593A1 VOLUME 633069.877 3580650.189 0
SO SRCPARAM 37593A1 .0579591 1 .47 .93
** NMED source ID=37593EQPT16 Facility's ID=Heater-1
** Description=0.75 MMBtu/hr Separator Heater Construction date=22-NOV-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8500hr/yr, 24hr/day
SO LOCATION 37593E16 VOLUME 633077.413 3580657.21 0
SO SRCPARAM 37593E16 .00126 5.18 .47 .93
** NMED source ID=37593EQPT18 Facility's ID=ENG-1
** Description=Ajax DCP-540 LE Compressor Engine Construction date=24-OCT-18
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37593E18 POINT 633070.627 3580660.762 0
SO SRCPARAM 37593E18 .0251996 7.62 567.59 12.41 .44
** NMED source ID=37593EQPT19 Facility's ID=ENG-2
** Description=Ajax DCP-600 Compressor Engine Construction date=24-OCT-18
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
```

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SO LOCATION 37593E19 POINT 633063.03 3580658.67 0
SO SRCPARAM 37593E19 .0302395 7.62 587.04 12.62 .44
** NMED source ID=37593EQPT20 Facility's ID=ENG-3
** Description=Ajax DCP-2801LE Compressor Engine Construction date=24-OCT-18
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37593E20 POINT 633058.789 3580651.77 0
SO SRCPARAM 37593E20 .0100798 6.4 574.82 8.24 .34
**********END OF 37593: EOG - Foghorn/Leghorn 32 State CTB
INFO************************************
************************************************************
** 17.11km away. Facility ID=38359 Name=Dominator Compressor Station
** Company ID=13580 Name=ET Gathering & Processing LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.057097, -103.533411, WGS84
** Total Particulate Matter (10 microns or less) emissions=5.25tons/year
*****************Facility sources: ******************************
** NMED source ID=38359EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3608A4 2500 hp compressor engine Construction
date=25-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6678hr/yr, 24hr/day
SO LOCATION 38359E1 POINT 638447.908 3547705.159 0
SO SRCPARAM 38359E1 .0239396 8.21 728.71 30.82 .56
** NMED source ID=38359EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3608A4 2500 hp compressor engine Construction
date=25-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6916hr/yr, 24hr/day
SO LOCATION 38359E2 POINT 638455.444 3547712.18 0
SO SRCPARAM 38359E2 .0239396 8.21 728.71 30.82 .56
** NMED source ID=38359EQPT3 Facility's ID=ENG-3
** Description=Caterpillar G3608A4 2500 hp compressor engine Construction
date=25-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7159hr/yr, 24hr/day
SO LOCATION 38359E3 POINT 638448.658 3547715.732 0
SO SRCPARAM 38359E3 .0239396 8.21 728.71 30.82 .56
** NMED source ID=38359EQPT4 Facility's ID=ENG-4
** Description=Caterpillar G3608A4 2500 hp compressor engine Construction
date=25-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6481hr/yr, 24hr/day
SO LOCATION 38359E4 POINT 638441.061 3547713.64 0
SO SRCPARAM 38359E4 .0239396 8.21 728.71 30.82 .56
```

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** NMED source ID=38359EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=26-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38359E6 POINT 638436.82 3547706.74 0
SO SRCPARAM 38359E6 .0226796 8.23 732.04 31.39 .56
** NMED source ID=38359EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=26-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38359E7 POINT 638438.472 3547698.586 0
SO SRCPARAM 38359E7 .0239396 8.23 718.15 31.06 .56
** NMED source ID=38359EQPT8 Facility's ID=GEN-2
** Description=Natural Gas Generator Construction date=26-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38359E8 POINT 638445.421 3547693.624 0
SO SRCPARAM 38359E8 .0037799 3.05 263.05 53.1 .13
** NMED source ID=38359EQPT9 Facility's ID=GEN-3
** Description=Natural Gas Generator Construction date=26-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38359E9 POINT 638454.104 3547694.766 0
SO SRCPARAM 38359E9 .0075599 3.05 1023.15 149.66 .1
**********END OF 38359: Dominator Compressor Station
INFO**********************************
************************************************************
** 17.14km away. Facility ID=39996 Name=Montera Federal 10 M CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9219 NOI
** lat,long,datum=32.139414, -103.362542, WGS84
** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=39996AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=26-OCT-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39996A1 VOLUME 654441.369 3557063.147 0
SO SRCPARAM 39996A1 .0002898 1 .47 .93
** NMED source ID=39996EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=18-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39996E3 VOLUME 654448.905 3557070.168 0
```

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SO SRCPARAM 39996E3 .00126 4.57 .47 .93
**********END OF 39996: Montera Federal 10 M CTB
INFO**********************************
************************************************************
** 17.21km away. Facility ID=39543 Name=Pac Man 36 Fed Com Battery
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.341629, -103.426965, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.53tons/year
*****************Facility sources: ****************************
** NMED source ID=39543EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1.0 MMbtu/hr Construction date=21-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3192hr/yr, 24hr/day
SO LOCATION 39543E3 POINT 648036.022 3579391.077 0
SO SRCPARAM 39543E3 .00126 3.96 588.71 2.26 .3
** NMED source ID=39543EQPT11 Facility's ID=ENG-2
** Description=Gas lift compressor engine: CAT 3508;  670 hp Construction
date=10-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39543E11 POINT 648043.558 3579398.098 0
SO SRCPARAM 39543E11 .0062999 4.88 746.48 34.41 .25
** NMED source ID=39543EQPT12 Facility's ID=HT-2
** Description=Heater Treater 1.0 MMbtu/hr Construction date=10-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39543E12 POINT 648036.772 3579401.65 0
SO SRCPARAM 39543E12 .00126 3.96 588.71 2.26 .3
** NMED source ID=39543EQPT39 Facility's ID=ENG-1
** Description=Gas lift compressor engine: CAT CG137-8; 400 hp Construction
date=31-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39543E39 POINT 648029.175 3579399.558 0
SO SRCPARAM 39543E39 .0088199 4.51 802.59 15.1 .25
** NMED source ID=39543EQPT40 Facility's ID=ENG-3
** Description=Gas lift compressor engine: Waukesha L5794GSI Construction
date=31-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39543E40 POINT 648024.934 3579392.658 0
SO SRCPARAM 39543E40 .0264596 7.32 913.15 31.82 .36
**********END OF 39543: Pac Man 36 Fed Com Battery
INFO**********************************
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************************************************************
** 17.21km away. Facility ID=39073 Name=Devon - Grumpy Cat 15 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.309236, -103.664658, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.13tons/year
*****************Facility sources: ******************************
** NMED source ID=39073AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=16-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39073A1 VOLUME 625709.942 3575496.142 0
SO SRCPARAM 39073A1 .2771956 10 20 9.3
** NMED source ID=39073EQPT5 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater Construction date=16-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39073E5 VOLUME 625717.478 3575503.163 0
SO SRCPARAM 39073E5 .0037799 9.14 .47 .93
** NMED source ID=39073EQPT10 Facility's ID=LPC-1
** Description=188 hp Cummins G855 LPC Construction date=16-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39073E10 POINT 625710.692 3575506.715 0
SO SRCPARAM 39073E10 .0390594 2.99 919.82 22.4 .15
** NMED source ID=39073EQPT11 Facility's ID=LPC-2
** Description=188 hp Cummins G855 LPC Construction date=16-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39073E11 POINT 625703.095 3575504.623 0
SO SRCPARAM 39073E11 .0037799 2.99 919.82 22.4 .15
** NMED source ID=39073EQPT12 Facility's ID=GEN-1
** Description=550 hp Doosan 21.9L Generator Construction date=16-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4896hr/yr, 24hr/day
SO LOCATION 39073E12 POINT 625698.854 3575497.723 0
SO SRCPARAM 39073E12 .0100798 2.99 1005.37 215.24 .09
** NMED source ID=39073EQPT13 Facility's ID=GEN-2
** Description=550 hp Doosan 21.9L Generator Construction date=16-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4896hr/yr, 24hr/day
SO LOCATION 39073E13 POINT 625700.506 3575489.569 0
SO SRCPARAM 39073E13 .0100798 2.99 1005.37 215.24 .09
**********END OF 39073: Devon - Grumpy Cat 15 CTB 2
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INFO**********************************
************************************************************
** 17.32km away. Facility ID=39994 Name=Salado Draw 9 W0CN Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.062796, -103.581519, WGS84
** Total Particulate Matter (10 microns or less) emissions=.85tons/year
*****************Facility sources: ******************************
** NMED source ID=39994AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=13-FEB-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994A1 VOLUME 633897.731 3548276.235 0
SO SRCPARAM 39994A1 .0907186 10 10 9.3
** NMED source ID=39994EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=18-AUG-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994E1 POINT 633905.267 3548283.256 0
SO SRCPARAM 39994E1 .0075599 4.57 778.71 13.94 .26
** NMED source ID=39994EQPT7 Facility's ID=HT-01
** Description=Heater Treater Construction date=18-JUN-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994E7 VOLUME 633898.481 3548286.808 0
SO SRCPARAM 39994E7 .00252 4.57 .47 .93
** NMED source ID=39994EQPT8 Facility's ID=HT-02
** Description=Heater Treater Construction date=01-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994E8 VOLUME 633890.884 3548284.716 0
SO SRCPARAM 39994E8 .00126 4.57 .47 .93
** NMED source ID=39994EQPT9 Facility's ID=HT-03
** Description=Heater Treater Construction date=01-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994E9 VOLUME 633886.643 3548277.816 0
SO SRCPARAM 39994E9 .00126 4.57 .47 .93
** NMED source ID=39994EQPT22 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=13-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994E22 POINT 633888.295 3548269.662 0
SO SRCPARAM 39994E22 .0050399 4.11 904.26 8.84 .27
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** NMED source ID=39994EQPT23 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=13-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994E23 POINT 633895.244 3548264.7 0
SO SRCPARAM 39994E23 .0075599 4.42 989.82 70.41 .13
**********END OF 39994: Salado Draw 9 W0CN Fed Com 1H Battery
INFO**********************************
************************************************************
** 17.35km away. Facility ID=38470 Name=Urraca Federal Com AV 24H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.325222, -103.648722, NAD83
** Total Particulate Matter (10 microns or less) emissions=.15tons/year
*****************Facility sources: ******************************
** NMED source ID=38470AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=13-JUL-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38470A1 VOLUME 627187.938 3577287.176 0
SO SRCPARAM 38470A1 .0017262 1 .47 .93
** NMED source ID=38470EQPT2 Facility's ID=HTR-01
** Description=Heater Treater Burner-01 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38470E2 VOLUME 627195.474 3577294.197 0
SO SRCPARAM 38470E2 .0005796 4.6 .47 .93
** NMED source ID=38470EQPT3 Facility's ID=ENG-01
** Description=Compressor Engine 1 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8462hr/yr, 24hr/day
SO LOCATION 38470E3 POINT 627188.688 3577297.749 0
SO SRCPARAM 38470E3 .00252 4.51 846.48 36.15 .13
**********END OF 38470: Urraca Federal Com AV 24H
INFO**********************************
************************************************************
** 17.36km away. Facility ID=38053 Name=Thyme APY Federal
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.340169, -103.626389, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.38tons/year
*****************Facility sources: ******************************
** NMED source ID=38053AREA1 Facility's ID=HR
** Description=Haul Road Construction date=31-JUL-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053A1 VOLUME 629268.935 3578970.967 0
SO SRCPARAM 38053A1 .1159182 10 10 9.3
** NMED source ID=38053EQPT2 Facility's ID=Flare1
** Description=Flare Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7848hr/yr, 21hr/day
SO LOCATION 38053E2 POINT 629276.471 3578977.988 0
SO SRCPARAM 38053E2 .0037799 4.57 1273 20 2.632
** NMED source ID=38053EQPT11 Facility's ID=ENG1
** Description=Compressor Engine Construction date=31-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E11 POINT 629269.685 3578981.54 0
SO SRCPARAM 38053E11 .0050399 4.57 892.59 17.75 .15
** NMED source ID=38053EQPT12 Facility's ID=HTR1
** Description=Heater Treater Construction date=31-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E12 VOLUME 629262.088 3578979.448 0
SO SRCPARAM 38053E12 .00126 4.57 .47 .93
** NMED source ID=38053EQPT13 Facility's ID=HTR2
** Description=Heater Treater Construction date=31-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E13 VOLUME 629257.847 3578972.548 0
SO SRCPARAM 38053E13 .00126 4.57 .47 .93
** NMED source ID=38053EQPT22 Facility's ID=GEN1
** Description=Generator Construction date=29-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E22 POINT 629259.499 3578964.394 0
SO SRCPARAM 38053E22 .0037799 4.11 743.15 24.21 .3
** NMED source ID=38053EQPT23 Facility's ID=GEN2
** Description=Generator Construction date=29-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E23 POINT 629266.448 3578959.432 0
SO SRCPARAM 38053E23 .0037799 4.11 743.15 24.21 .3
** NMED source ID=38053EQPT24 Facility's ID=GEN3
** Description=Generator Construction date=03-JAN-24
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38053E24 POINT 629275.131 3578960.574 0
SO SRCPARAM 38053E24 .00126 1.8 572.59 15 .09
** NMED source ID=38053EQPT25 Facility's ID=Flare1 SSM
** Description=Flare Construction date=18-DEC-17
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E25 POINT 629280.841 3578967.502 0
SO SRCPARAM 38053E25 .0069047 4.57 1273 20 3.604
** NMED source ID=38053RPNT3 Facility's ID=SSM
** Description=SSM Construction date=31-JUL-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053R3 VOLUME 629280.276 3578976.683 0
SO SRCPARAM 38053R3 .0005796 1 .47 .93
**********END OF 38053: Thyme APY Federal INFO**********************************
************************************************************
** 17.36km away. Facility ID=39090 Name=EOG - Lobo Blanco 9 Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0592, -103.4795, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.5tons/year
*****************Facility sources: ******************************
** NMED source ID=39090AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Roads Construction date=22-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39090A1 VOLUME 643534.408 3548008.735 0
SO SRCPARAM 39090A1 .0881986 10 10 9.3
**********END OF 39090: EOG - Lobo Blanco 9 Fed CTB
INFO**********************************
************************************************************
** 17.42km away. Facility ID=38505 Name=Raptor Tank Battery
** Company ID=13675 Name=EnLink Delaware Crude Pipeline LLC
** SIC=1311 NAIC=21112    Permit=7842 NOI
** lat,long,datum=32.298567, -103.676875, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.71tons/year
*****************Facility sources: ******************************
** NMED source ID=38505AREA1 Facility's ID=UR-01
** Description=Unpaved Haul Road-particulates Construction date=20-MAR-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38505A1 VOLUME 624574.337 3574299.106 0
SO SRCPARAM 38505A1 .1310379 10 10 9.3
** NMED source ID=38505EQPT4 Facility's ID=GEN-1B
** Description=Generator Engine 1B Cummins C2000 N6CB 2764 hp Construction
date=20-MAR-19
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2016hr/yr, 24hr/day
SO LOCATION 38505E4 POINT 624581.873 3574306.127 0
SO SRCPARAM 38505E4 .0264596 5.52 737.04 14.81 .21
** NMED source ID=38505EQPT7 Facility's ID=GEN-1
** Description=Generator Engine Cummins QSK60 1950 hp Construction date=20-MAR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38505E7 POINT 624575.087 3574309.679 0
SO SRCPARAM 38505E7 .0214197 4.51 748.15 72.02 .21
** NMED source ID=38505EQPT8 Facility's ID=GEN-2
** Description=Generator Engine Cummins QSK60 1950 hp Construction date=20-MAR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38505E8 POINT 624567.49 3574307.587 0
SO SRCPARAM 38505E8 .0214197 4.51 748.15 72.02 .21
**********END OF 38505: Raptor Tank Battery
INFO**********************************
************************************************************
** 17.43km away. Facility ID=37955 Name=Wicked 17 State Com No301H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3113, -103.3822, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.63tons/year
*****************Facility sources: ****************************
** NMED source ID=37955RPNT2 Facility's ID=HAUL
** Description=Haul Road Fugitives Construction date=20-NOV-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7980hr/yr, 24hr/day
SO LOCATION 37955R2 VOLUME 652300.05 3576091.363 0
SO SRCPARAM 37955R2 .0579591 1 .47 .93
**********END OF 37955: Wicked 17 State Com No301H
INFO**********************************
************************************************************
** 17.44km away. Facility ID=38315 Name=OXY - Mesa Verde CTB
** Company ID=635 Name=OXY USA WTP Limited Partnership
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.212243, -103.709015, WGS84
** Total Particulate Matter (10 microns or less) emissions=.38tons/year
*****************Facility sources: ****************************
** NMED source ID=38315EQPT2 Facility's ID=HTR-1
** Description=1.3 MMBtu/hr Heater Treater Construction date=06-JUN-18
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E2 VOLUME 621663.178 3564692.407 0
```

```
SO SRCPARAM 38315E2 .00126 4.57 .47 .93
** NMED source ID=38315EQPT3 Facility's ID=LH-1
** Description=Line Heater Construction date=06-JUN-18
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E3 VOLUME 621670.714 3564699.428 0
SO SRCPARAM 38315E3 .0037799 4.57 .47 .93
** NMED source ID=38315EQPT5 Facility's ID=HTR-3
** Description=1.3 MMBtu/hr Heater Construction date=06-JUN-18
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E5 VOLUME 621663.928 3564702.98 0
SO SRCPARAM 38315E5 .00126 4.57 .47 .93
** NMED source ID=38315EQPT19 Facility's ID=HTR-2
** Description=1.3 MMBtu/hr Heater Treater Construction date=06-JUN-18
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E19 VOLUME 621656.331 3564700.888 0
SO SRCPARAM 38315E19 .00126 4.57 .47 .93
** NMED source ID=38315EQPT26 Facility's ID=LH-2
** Description=4.0 MMBtu/hr Line Heater Construction date=06-JUN-18
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E26 VOLUME 621652.09 3564693.988 0
SO SRCPARAM 38315E26 .0037799 4.57 .47 .93
**********END OF 38315: OXY - Mesa Verde CTB
INFO**********************************
************************************************************
** 17.45km away. Facility ID=39162 Name=Devon - Jayhawk 7 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.054547, -103.506094, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.4tons/year
*****************Facility sources: ******************************
** NMED source ID=39162AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=04-OCT-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8088hr/yr, 24hr/day
SO LOCATION 39162A1 VOLUME 641030.836 3547457.838 0
SO SRCPARAM 39162A1 .2771956 10 20 9.3
**********END OF 39162: Devon - Jayhawk 7 CTB 3
INFO**********************************
************************************************************
** 17.49km away. Facility ID=40142 Name=Seawolf 12 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
```

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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.053514, -103.527872, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.21tons/year
*****************Facility sources: ****************************
** NMED source ID=40142AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=15-SEP-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5136hr/yr, 24hr/day
SO LOCATION 40142A1 VOLUME 638976.265 3547315.068 0
SO SRCPARAM 40142A1 .2784556 10 20 9.3
** NMED source ID=40142EQPT9 Facility's ID=HT-1
** Description=Heater Treater 1  3.0 MMBtu/hr Construction date=15-SEP-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40142E9 VOLUME 638983.801 3547322.089 0
SO SRCPARAM 40142E9 .0037799 9.14 .47 .93
**********END OF 40142: Seawolf 12 CTB 1 INFO************************************
************************************************************
** 17.5km away. Facility ID=35378 Name=Chincoteague 32 State CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6258 NOI
** lat,long,datum=32.167194, -103.702472, WGS84
** Total Particulate Matter (10 microns or less) emissions=.44tons/year
*****************Facility sources: ****************************
** NMED source ID=35378AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35378A1 VOLUME 622340.1 3559705.784 0
SO SRCPARAM 35378A1 .2784556 10 20 9.3
** NMED source ID=35378EQPT8 Facility's ID=Heater-1
** Description=Heater_EQ000064335 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35378E8 VOLUME 622347.636 3559712.805 0
SO SRCPARAM 35378E8 .0005796 9.14 .47 .93
** NMED source ID=35378EQPT10 Facility's ID=LPC-3
** Description=Engine_EQ000064334 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35378E10 POINT 622340.85 3559716.357 0
SO SRCPARAM 35378E10 .00252 2.68 922.04 67.27 .08
** NMED source ID=35378EQPT12 Facility's ID=ENG 2
** Description=Engine_EQ000173961 Construction date=01-JAN-20
** SCC=20200253
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35378E12 POINT 622333.253 3559714.265 0
SO SRCPARAM 35378E12 .0037799 3.6 853.15 19.79 .17
** NMED source ID=35378EQPT21 Facility's ID=Heater-2
** Description=Heater_EQ000064336 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35378E21 VOLUME 622329.012 3559707.365 0
SO SRCPARAM 35378E21 .0005796 9.14 .47 .93
**********END OF 35378: Chincoteague 32 State CTB
INFO**********************************
************************************************************
** 17.51km away. Facility ID=38720 Name=Greyhound Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.354722, -103.449586, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.83tons/year
*****************Facility sources: ******************************
** NMED source ID=38720EQPT9 Facility's ID=RBL-1
** Description=Dehy Reboiler 0.75 MM BTU/h, w/ BTEX condenser Construction
date=01-APR-20
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8515hr/yr, 23hr/day
SO LOCATION 38720E9 POINT 645885.945 3580811.594 0
SO SRCPARAM 38720E9 .00126 3.05 588.71 1.98 .3
** NMED source ID=38720EQPT26 Facility's ID=ENG-10a
** Description=Caterpillar 3606A Construction date=01-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E26 POINT 645893.481 3580818.615 0
SO SRCPARAM 38720E26 .0163797 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT27 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E27 POINT 645886.695 3580822.167 0
SO SRCPARAM 38720E27 .0163797 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT28 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E28 POINT 645879.098 3580820.075 0
SO SRCPARAM 38720E28 .0163797 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT29 Facility's ID=ENG-3
```

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** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E29 POINT 645874.857 3580813.175 0
SO SRCPARAM 38720E29 .0163797 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT30 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E30 POINT 645876.509 3580805.021 0
SO SRCPARAM 38720E30 .0163797 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT31 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E31 POINT 645883.458 3580800.059 0
SO SRCPARAM 38720E31 .0163797 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT32 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E32 POINT 645892.141 3580801.201 0
SO SRCPARAM 38720E32 .0163797 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT33 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E33 POINT 645897.851 3580808.129 0
SO SRCPARAM 38720E33 .0163797 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT36 Facility's ID=GEN-1
** Description=Generator Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E36 POINT 645897.286 3580817.31 0
SO SRCPARAM 38720E36 .0050399 4.51 689.82 22.01 .21
** NMED source ID=38720EQPT37 Facility's ID=RBL-2
** Description=Dehy Reboiler 0.75MM BTU/hr, w/ BTEX condenser Construction
date=04-JAN-24
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E37 POINT 645890.451 3580823.788 0
SO SRCPARAM 38720E37 .00126 3.05 588.71 1.98 .3
** NMED source ID=38720EQPT38 Facility's ID=Trailer-1
```

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** Description=Diesel-fired Heater Trailer Construction date=04-JAN-24
** SCC=31000205
** Potential operating rate=40hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E38 POINT 645880.815 3580823.865 0
SO SRCPARAM 38720E38 .00126 4.51 689.82 93.21 .21
** NMED source ID=38720RPNT3 Facility's ID=SSM
** Description=Startup Shutdown Maintenance Construction date=01-APR-20
** SCC=31000299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38720R3 POINT 645873.554 3580817.199 0
SO SRCPARAM 38720R3 .0005796 7 730 28 .3
**********END OF 38720: Greyhound Compressor Station
INFO**********************************
************************************************************
** 17.53km away. Facility ID=38459 Name=Montera Federal 23H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7853 NOI
** lat,long,datum=32.138158, -103.358606, WGS84
** Total Particulate Matter (10 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=38459AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=04-MAY-18
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38459A1 VOLUME 654814.771 3556929.553 0
SO SRCPARAM 38459A1 .0002898 1 .47 .93
** NMED source ID=38459EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38459E4 VOLUME 654822.307 3556936.574 0
SO SRCPARAM 38459E4 .00126 4.57 .47 .93
**********END OF 38459: Montera Federal 23H Battery
INFO**********************************
************************************************************
** 17.57km away. Facility ID=37604 Name=Whirling Wind 14 North CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0533, -103.5398, WGS84
** Total Particulate Matter (10 microns or less) emissions=.18tons/year
*****************Facility sources: ******************************
** NMED source ID=37604AREA1 Facility's ID=HAUL
** Description=Haul Road Fugitives Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
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SO LOCATION 37604A1 VOLUME 637850.415 3547276.047 0
SO SRCPARAM 37604A1 .0037799 1 .47 .93
** NMED source ID=37604EQPT13 Facility's ID=HTR-1
** Description=Heater Treater Construction date=30-NOV-16
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37604E13 POINT 637857.951 3547283.068 0
SO SRCPARAM 37604E13 .00126 4.88 588.71 .01 1.22
** NMED source ID=37604EQPT18 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-17
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37604E18 POINT 637851.165 3547286.62 0
SO SRCPARAM 37604E18 .00126 4.88 588.71 .01 1.22
**********END OF 37604: Whirling Wind 14 North CTB
INFO**********************************
************************************************************
** 17.57km away. Facility ID=35138 Name=Ruby 2 State Com No. 601H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0672, -103.4458, WGS84
** Total Particulate Matter (10 microns or less) emissions=.63tons/year
*****************Facility sources: ******************************
** NMED source ID=35138EQPT3 Facility's ID=ENG-1
** Description=Gas Lift Compression Construction date=01-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8750hr/yr, 24hr/day
SO LOCATION 35138E3 POINT 646703.236 3548940.951 0
SO SRCPARAM 35138E3 .0151198 8.53 725.93 27.07 .52
** NMED source ID=35138EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35138E6 VOLUME 646710.772 3548947.972 0
SO SRCPARAM 35138E6 .00126 4.88 .47 .93
** NMED source ID=35138EQPT15 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35138E15 VOLUME 646703.986 3548951.524 0
SO SRCPARAM 35138E15 .00126 4.88 .47 .93
** NMED source ID=35138EQPT16 Facility's ID=HTR-3
** Description=Heater Treater Construction date=01-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35138E16 VOLUME 646696.389 3548949.432 0
SO SRCPARAM 35138E16 .00126 6.1 .47 .93
**********END OF 35138: Ruby 2 State Com No. 601H
INFO**********************************
************************************************************
** 17.61km away. Facility ID=38469 Name=Urraca Federal Com SB 4H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.325473, -103.652473, NAD83
** Total Particulate Matter (10 microns or less) emissions=.14tons/year
*****************Facility sources: ****************************
** NMED source ID=38469AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=13-JUL-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38469A1 VOLUME 626834.5 3577310.555 0
SO SRCPARAM 38469A1 .0017262 1 .47 .93
** NMED source ID=38469EQPT1 Facility's ID=HTR-01
** Description=Heater Treater Burner 1 Construction date=13-JUL-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38469E1 POINT 626842.036 3577317.576 0
SO SRCPARAM 38469E1 .0002898 4.6 533.15 3.79 .09
** NMED source ID=38469EQPT2 Facility's ID=ENG-01
** Description=Compressor Engine 1 Construction date=13-JUL-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3462hr/yr, 24hr/day
SO LOCATION 38469E2 POINT 626835.25 3577321.128 0
SO SRCPARAM 38469E2 .00252 4.51 846.48 36.15 .13
**********END OF 38469: Urraca Federal Com SB 4H
INFO**********************************
************************************************************
** 17.68km away. Facility ID=39292 Name=Jayhawk 7 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=8596 NOI
** lat,long,datum=32.052389, -103.507286, NAD83
** Total Particulate Matter (10 microns or less) emissions=.83tons/year
*****************Facility sources: ****************************
** NMED source ID=39292EQPT2 Facility's ID=ENG 3
** Description=ENG 3 Engine Construction date=23-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39292E2 POINT 640921.604 3547217.045 0
SO SRCPARAM 39292E2 .0088199 3.05 710.93 36.06 .3
** NMED source ID=39292EQPT3 Facility's ID=ENG 4
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** Description=ENG 4 Engine Construction date=23-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39292E3 POINT 640929.14 3547224.066 0
SO SRCPARAM 39292E3 .0075599 4.39 1000.37 17.38 .26
** NMED source ID=39292EQPT4 Facility's ID=ENG 5
** Description=ENG 5 Engine Construction date=23-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39292E4 POINT 640922.354 3547227.618 0
SO SRCPARAM 39292E4 .0075599 4.39 1000.37 17.38 .26
**********END OF 39292: Jayhawk 7 Wellpad 3
INFO**********************************
************************************************************
** 17.69km away. Facility ID=38363 Name=Ruby Newbie CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.067, -103.4434, WGS84
** Total Particulate Matter (10 microns or less) emissions=.5tons/year
*****************Facility sources: ******************************
** NMED source ID=38363EQPT15 Facility's ID=ENG-1
** Description=Gas Lift Compression Construction date=11-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8704hr/yr, 24hr/day
SO LOCATION 38363E15 POINT 646930.12 3548922.045 0
SO SRCPARAM 38363E15 .0125998 7.01 740.37 48.77 .3
** NMED source ID=38363EQPT17 Facility's ID=HTR-1
** Description=Heater Treater Construction date=11-MAR-22
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38363E17 VOLUME 646937.656 3548929.066 0
SO SRCPARAM 38363E17 .00252 6.1 .47 .93
**********END OF 38363: Ruby Newbie CTB INFO**********************************
************************************************************
** 17.73km away. Facility ID=39389 Name=Devon - Chincoteague 8 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.147128, -103.696514, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.2tons/year
*****************Facility sources: ******************************
** NMED source ID=39389AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=28-FEB-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5112hr/yr, 24hr/day
SO LOCATION 39389A1 VOLUME 622928.844 3557488.103 0
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SO SRCPARAM 39389A1 .2771956 10 20 9.3
**********END OF 39389: Devon - Chincoteague 8 CTB 2
INFO**********************************
************************************************************
** 17.75km away. Facility ID=40586 Name=Perro Loco 27 22 Battery No1
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.357939, -103.451879, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.67tons/year
*****************Facility sources: ****************************
** NMED source ID=40586AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=19-AUG-22
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586A1 VOLUME 645665.004 3581165.127 0
SO SRCPARAM 40586A1 .0907186 10 10 9.3
** NMED source ID=40586EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=19-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E1 POINT 645672.54 3581172.148 0
SO SRCPARAM 40586E1 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40586EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=19-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E2 POINT 645665.754 3581175.7 0
SO SRCPARAM 40586E2 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40586EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=19-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E3 POINT 645658.157 3581173.608 0
SO SRCPARAM 40586E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40586EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=19-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E4 POINT 645653.916 3581166.708 0
SO SRCPARAM 40586E4 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40586EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=19-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

```
SO LOCATION 40586E5 POINT 645655.568 3581158.554 0
SO SRCPARAM 40586E5 .0075599 4.57 778.71 13.94 .26
** NMED source ID=40586EQPT6 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=19-AUG-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E6 POINT 645662.517 3581153.592 0
SO SRCPARAM 40586E6 .0075599 6.19 695.37 37.61 .25
** NMED source ID=40586EQPT10 Facility's ID=GEN-01
** Description=Generator Engine Construction date=19-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E10 POINT 645671.2 3581154.734 0
SO SRCPARAM 40586E10 .0100798 3.51 840.37 177.36 .09
** NMED source ID=40586EQPT11 Facility's ID=HT-01
** Description=Heater Treater Construction date=19-AUG-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E11 VOLUME 645676.91 3581161.662 0
SO SRCPARAM 40586E11 .00126 4.57 .47 .93
** NMED source ID=40586EQPT12 Facility's ID=HT-02
** Description=Heater Treater Construction date=19-AUG-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E12 VOLUME 645676.345 3581170.843 0
SO SRCPARAM 40586E12 .00126 4.57 .47 .93
** NMED source ID=40586EQPT13 Facility's ID=HT-03
** Description=Heater Treater Construction date=19-AUG-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E13 VOLUME 645669.51 3581177.321 0
SO SRCPARAM 40586E13 .00126 4.57 .47 .93
**********END OF 40586: Perro Loco 27 22 Battery No1
INFO**********************************
************************************************************
** 17.81km away. Facility ID=39899 Name=Yada A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.16893, -103.341328, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.09tons/year
*****************Facility sources: ****************************
** NMED source ID=39899AREA1 Facility's ID=HR-1
** Description=Haul Road emissions Construction date=19-MAR-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39899A1 VOLUME 656392.039 3560366.081 0
SO SRCPARAM 39899A1 .1322979 10 10 9.3
** NMED source ID=39899EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516 1380 hp engine Construction date=19-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39899E1 POINT 656399.575 3560373.102 0
SO SRCPARAM 39899E1 .0125998 4.57 723.71 283.77 .2
** NMED source ID=39899EQPT4 Facility's ID=HT-1
** Description=3 MMBtu/h Heater Treater Construction date=19-MAR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39899E4 VOLUME 656392.789 3560376.654 0
SO SRCPARAM 39899E4 .00252 4.57 .47 .93
** NMED source ID=39899EQPT19 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=28-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39899E19 POINT 656385.192 3560374.562 0
SO SRCPARAM 39899E19 .0151198 4.57 939.26 90.22 .25
**********END OF 39899: Yada A CTB INFO************************************
************************************************************
** 17.82km away. Facility ID=38313 Name=Topaz 11 Fed No 601H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0638, -103.4483, WGS84
** Total Particulate Matter (10 microns or less) emissions=.16tons/year
*****************Facility sources: ****************************
** NMED source ID=38313EQPT5 Facility's ID=ENG-1
** Description=Gas Lift Compression Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8486hr/yr, 23hr/day
SO LOCATION 38313E5 POINT 646472.653 3548560.625 0
SO SRCPARAM 38313E5 .0037799 4.57 863.15 24.26 .15
** NMED source ID=38313EQPT7 Facility's ID=HTR-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8763hr/yr, 24hr/day
SO LOCATION 38313E7 VOLUME 646480.189 3548567.646 0
SO SRCPARAM 38313E7 .0005796 3.96 .47 .93
**********END OF 38313: Topaz 11 Fed No 601H
INFO**********************************
************************************************************
** 17.86km away. Facility ID=40750 Name=Mesa Giant Battery
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** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=9764 NOI
** lat,long,datum=32.077278, -103.629361, WGS84
** Total Particulate Matter (10 microns or less) emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=40750EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=18-OCT-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40750E3 POINT 629360.897 3549823.308 0
SO SRCPARAM 40750E3 .00252 7.32 533.15 1.46 1.22
**********END OF 40750: Mesa Giant Battery INFO************************************
************************************************************
** 17.87km away. Facility ID=38704 Name=Devon - Big Cat 16 CTB 9
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.300975, -103.680736, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.5tons/year
*****************Facility sources: ****************************
** NMED source ID=38704AREA1 Facility's ID=ROAD
** Description=Haul Roads Construction date=28-NOV-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38704A1 VOLUME 624207.505 3574561.578 0
SO SRCPARAM 38704A1 .2771956 10 20 9.3
**********END OF 38704: Devon - Big Cat 16 CTB 9
INFO*************************************
************************************************************
** 17.9km away. Facility ID=40412 Name=Salado Draw 10 W0NC Fed Com No3H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.052671, -103.56016, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.39tons/year
*****************Facility sources: ****************************
** NMED source ID=40412AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=23-AUG-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412A1 VOLUME 635929.077 3547180.493 0
SO SRCPARAM 40412A1 .0907186 10 10 9.3
** NMED source ID=40412EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=22-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E1 POINT 635936.613 3547187.514 0
SO SRCPARAM 40412E1 .0050399 4.11 894.82 36.52 .13
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** NMED source ID=40412EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=22-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E2 POINT 635929.827 3547191.066 0
SO SRCPARAM 40412E2 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40412EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=22-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E3 POINT 635922.23 3547188.974 0
SO SRCPARAM 40412E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40412EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=22-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E4 POINT 635917.989 3547182.074 0
SO SRCPARAM 40412E4 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40412EQPT6 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=22-APR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E6 POINT 635919.641 3547173.92 0
SO SRCPARAM 40412E6 .0075599 6.17 695.37 37.61 .25
** NMED source ID=40412EQPT9 Facility's ID=HT-01
** Description=Heater Treater Construction date=22-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E9 POINT 635926.59 3547168.958 0
SO SRCPARAM 40412E9 .00126 4.57 533.15 3.93 .46
** NMED source ID=40412EQPT12 Facility's ID=HT-02
** Description=Heater Treater Construction date=22-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E12 POINT 635935.273 3547170.1 0
SO SRCPARAM 40412E12 .00126 4.57 533.15 3.93 .46
** NMED source ID=40412EQPT13 Facility's ID=HT-03
** Description=Heater Treater Construction date=22-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E13 POINT 635940.983 3547177.028 0
SO SRCPARAM 40412E13 .00126 4.57 533.15 3.93 .46
** NMED source ID=40412EQPT16 Facility's ID=GEN-01
```

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** Description=Generator Engine Construction date=23-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E16 POINT 635940.418 3547186.209 0
SO SRCPARAM 40412E16 .0100798 4.51 840.37 179.41 .09
** NMED source ID=40412EQPT17 Facility's ID=GEN-02
** Description=Generator Engine Construction date=23-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E17 POINT 635933.583 3547192.687 0
SO SRCPARAM 40412E17 .0100798 4.51 840.37 179.41 .09
** NMED source ID=40412EQPT33 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=07-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E33 POINT 635923.947 3547192.764 0
SO SRCPARAM 40412E33 .0037799 2.82 874.82 14.25 .17
** NMED source ID=40412EQPT34 Facility's ID=ENG-07
** Description=Compressor Engine Construction date=07-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E34 POINT 635916.686 3547186.098 0
SO SRCPARAM 40412E34 .0138598 7.16 819.82 33.86 .41
** NMED source ID=40412EQPT35 Facility's ID=HT-04
** Description=Heater Treater Construction date=07-SEP-23
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E35 VOLUME 635915.906 3547176.052 0
SO SRCPARAM 40412E35 .00252 4.57 .47 .93
**********END OF 40412: Salado Draw 10 W0NC Fed Com No3H Battery
INFO**********************************
************************************************************
** 17.92km away. Facility ID=5150 Name=Mesa Bronco Battery
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=10037 NOI
** lat,long,datum=32.077278, -103.630444, WGS84
** Total Particulate Matter (10 microns or less) emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=5150EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=18-AUG-23
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5150E3 POINT 629258.675 3549822.009 0
SO SRCPARAM 5150E3 .00252 7.32 533.15 1.46 1.22
```

**********END OF 5150: Mesa Bronco Battery INFO**********
**********
** 17.93km away. Facility ID=38822 Name=Devon - Fighting Okra 18 Wellpad 7
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=8179 NOI
** lat,long,datum=32.049789, -103.512222, NAD83
** Total Particulate Matter (10 microns or less) emissions=.61tons/year
**********Facility sources: **********
** NMED source ID=38822EQPT2 Facility's ID=ENG 3
** Description=Engine 3 Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38822E2 POINT 640459.541 3546922.375 0
SO SRCPARAM 38822E2 .0100798 5.58 812.59 36.79 .2
** NMED source ID=38822EQPT3 Facility's ID=ENG 4
** Description=Engine 4 Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38822E3 POINT 640467.077 3546929.396 0
SO SRCPARAM 38822E3 .0075599 4.39 1000.37 17.38 .26
**********END OF 38822: Devon - Fighting Okra 18 Wellpad 7
INFO**********
**********
** 17.93km away. Facility ID=38521 Name=Colibri Federal 23-32-10 24H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.325889, -103.656889, NAD83
** Total Particulate Matter (10 microns or less) emissions=.08tons/year
**********Facility sources: **********
** NMED source ID=38521EQPT5 Facility's ID=HTR-1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38521E5 VOLUME 626418.238 3577351.453 0
SO SRCPARAM 38521E5 .00126 6.1 .47 .93
** NMED source ID=38521RPNT3 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=31-JUL-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38521R3 VOLUME 626425.774 3577358.474 0
SO SRCPARAM 38521R3 .0017262 1 .47 .93
**********END OF 38521: Colibri Federal 23-32-10 24H
INFO**********
**********
** 18.05km away. Facility ID=34583 Name=James 29 Federal Battery
** Company ID=8757 Name=Cimarex Energy Co of Colorado

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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.281661, -103.696139, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.22tons/year
*****************Facility sources: ******************************
** NMED source ID=34583AREA1 Facility's ID=HR
** Description=Haul Road Construction date=11-DEC-13
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583A1 VOLUME 622783.252 3572402.685 0
SO SRCPARAM 34583A1 .1159182 10 10 9.3
** NMED source ID=34583EQPT15 Facility's ID=ENG4
** Description=Compressor Engine Construction date=09-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583E15 POINT 622790.788 3572409.706 0
SO SRCPARAM 34583E15 .0138598 6.86 724.26 52.55 .3
** NMED source ID=34583EQPT18 Facility's ID=H1
** Description=Heater Treater, 2.0 MMBtu/hr Construction date=12-MAR-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583E18 VOLUME 622784.002 3572413.258 0
SO SRCPARAM 34583E18 .00126 4.57 .47 .93
** NMED source ID=34583EQPT19 Facility's ID=H2
** Description=Heater Treater, 2.0 MMBtu/hr Construction date=12-MAR-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583E19 VOLUME 622776.405 3572411.166 0
SO SRCPARAM 34583E19 .00126 4.57 .47 .93
** NMED source ID=34583EQPT20 Facility's ID=H3
** Description=Heater Treater, 2.0 MMBtu/hr Construction date=11-DEC-13
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583E20 VOLUME 622772.164 3572404.266 0
SO SRCPARAM 34583E20 .00126 4.57 .47 .93
** NMED source ID=34583EQPT21 Facility's ID=H4
** Description=Heater Treater, 2.0 MMBtu/hr Construction date=11-DEC-13
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583E21 VOLUME 622773.816 3572396.112 0
SO SRCPARAM 34583E21 .00126 4.57 .47 .93
**********END OF 34583: James 29 Federal Battery
INFO**********************************
************************************************************
** 18.08km away. Facility ID=39816 Name=Franklin - Carnival Central Tank Battery
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** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.166216, -103.339246, NAD83
** Total Particulate Matter (10 microns or less) emissions=.49tons/year
*****************Facility sources: ****************************
** NMED source ID=39816EQPT1 Facility's ID=GEN-1
** Description=Emergency Generator (1250kW) Construction date=08-JAN-21
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E1 POINT 656593.014 3560068.22 0
SO SRCPARAM 39816E1 .0692989 5.49 777.59 971.4 .3
** NMED source ID=39816EQPT2 Facility's ID=HT-1
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E2 VOLUME 656600.55 3560075.241 0
SO SRCPARAM 39816E2 .00126 4.88 .47 .93
** NMED source ID=39816EQPT3 Facility's ID=HT-9
** Description=Heater Treater (1500000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39816E3 VOLUME 656593.764 3560078.793 0
SO SRCPARAM 39816E3 .00126 4.88 .47 .93
** NMED source ID=39816EQPT9 Facility's ID=HT-2
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E9 VOLUME 656586.167 3560076.701 0
SO SRCPARAM 39816E9 .00126 4.88 .47 .93
** NMED source ID=39816EQPT10 Facility's ID=HT-3
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E10 VOLUME 656581.926 3560069.801 0
SO SRCPARAM 39816E10 .00126 4.88 .47 .93
** NMED source ID=39816EQPT11 Facility's ID=HT-4
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E11 VOLUME 656583.578 3560061.647 0
SO SRCPARAM 39816E11 .00126 4.88 .47 .93
** NMED source ID=39816EQPT12 Facility's ID=HT-5
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E12 VOLUME 656590.527 3560056.685 0
SO SRCPARAM 39816E12 .00126 4.88 .47 .93
** NMED source ID=39816EQPT13 Facility's ID=HT-6
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E13 VOLUME 656599.21 3560057.827 0
SO SRCPARAM 39816E13 .00126 4.88 .47 .93
** NMED source ID=39816EQPT14 Facility's ID=HT-7
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E14 VOLUME 656604.92 3560064.755 0
SO SRCPARAM 39816E14 .00126 4.88 .47 .93
** NMED source ID=39816EQPT15 Facility's ID=HT-8
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E15 VOLUME 656604.355 3560073.936 0
SO SRCPARAM 39816E15 .00126 4.88 .47 .93
** NMED source ID=39816EQPT16 Facility's ID=HT-10
** Description=Heater Treater (1500000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39816E16 VOLUME 656597.52 3560080.414 0
SO SRCPARAM 39816E16 .00126 4.88 .47 .93
**********END OF 39816: Franklin - Carnival Central Tank Battery
INFO**********************************
************************************************************
** 18.14km away. Facility ID=38904 Name=EOG - Red Hills Solar Localized Gas Lift
Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.052297, -103.569805, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.3tons/year
*****************Facility sources: ******************************
** NMED source ID=38904EQPT1 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.0 MMbtu/hr Construction date=17-APR-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38904E1 POINT 635019 3547126.926 0
SO SRCPARAM 38904E1 .00126 3.96 588.71 2.62 .3
** NMED source ID=38904EQPT2 Facility's ID=Heater-1
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** Description=Separator Heater 0.5 MMbtu/hr Construction date=17-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38904E2 POINT 635026.536 3547133.947 0
SO SRCPARAM 38904E2 .00126 3.96 588.71 1.31 .3
** NMED source ID=38904EQPT3 Facility's ID=ENG-1
** Description=4SLB, CAT G3606, 1875 HP Construction date=17-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8122hr/yr, 22hr/day
SO LOCATION 38904E3 POINT 635019.75 3547137.499 0
SO SRCPARAM 38904E3 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38904EQPT4 Facility's ID=ENG-2
** Description=4SLB, CAT G3606, 1875 HP Construction date=17-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8513hr/yr, 23hr/day
SO LOCATION 38904E4 POINT 635012.153 3547135.407 0
SO SRCPARAM 38904E4 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38904EQPT5 Facility's ID=ENG-3
** Description=4SLB, CAT G3606, 1875 HP Construction date=17-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8337hr/yr, 23hr/day
SO LOCATION 38904E5 POINT 635007.912 3547128.507 0
SO SRCPARAM 38904E5 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38904EQPT6 Facility's ID=ENG-4
** Description=4SLB, CAT G3520H, 3448 HP generator Construction date=30-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38904E6 POINT 635009.564 3547120.353 0
SO SRCPARAM 38904E6 .0151198 6.71 664.26 36.73 .63
** NMED source ID=38904EQPT7 Facility's ID=ENG-5
** Description=4SLB, CAT G3520H, 3448 HP generator Construction date=30-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38904E7 POINT 635016.513 3547115.391 0
SO SRCPARAM 38904E7 .0151198 6.71 664.26 36.73 .63
** NMED source ID=38904EQPT8 Facility's ID=ENG-6
** Description=4SLB, CAT G3520H, 3448 HP generator Construction date=30-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38904E8 POINT 635025.196 3547116.533 0
SO SRCPARAM 38904E8 .0151198 6.71 664.26 36.73 .63
**********END OF 38904: EOG - Red Hills Solar Localized Gas Lift Station
INFO**********************************
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************************************************************
** 18.16km away. Facility ID=39070 Name=Devon - Chincoteague 8 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.147514, -103.701711, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.03tons/year
*****************Facility sources: ******************************
** NMED source ID=39070AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=04-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39070A1 VOLUME 622438.174 3557524.971 0
SO SRCPARAM 39070A1 .2784556 10 20 9.3
** NMED source ID=39070EQPT6 Facility's ID=HT-1
** Description=Heater Treater, 3.0 MMBtu/hr Construction date=04-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39070E6 POINT 622445.71 3557531.992 0
SO SRCPARAM 39070E6 .0037799 9.14 708.71 2.82 .34
** NMED source ID=39070EQPT7 Facility's ID=HT-2
** Description=Heater Treater, 3.0 MMBtu/hr Construction date=04-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39070E7 POINT 622438.924 3557535.544 0
SO SRCPARAM 39070E7 .0037799 9.14 708.71 2.82 .34
**********END OF 39070: Devon - Chincoteague 8 CTB 1
INFO**********************************
************************************************************
** 18.19km away. Facility ID=39838 Name=MarkWest - Middle Ground Compressor Station
** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.06385, -103.6089, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.31tons/year
*****************Facility sources: ******************************
** NMED source ID=39838EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516B 1380 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E1 POINT 631311.366 3548359.429 0
SO SRCPARAM 39838E1 .0163797 7.01 812.59 56.45 .3
** NMED source ID=39838EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516B 1380 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E2 POINT 631318.902 3548366.45 0
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SO SRCPARAM 39838E2 .0163797 7.01 812.59 56.45 .3
** NMED source ID=39838EQPT3 Facility's ID=ENG-4
** Description=Caterpillar G3516B 1380 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E3 POINT 631312.116 3548370.002 0
SO SRCPARAM 39838E3 .0163797 7.01 812.59 56.45 .3
** NMED source ID=39838EQPT4 Facility's ID=ENG-5
** Description=Caterpillar G3516B 1380 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E4 POINT 631304.519 3548367.91 0
SO SRCPARAM 39838E4 .0163797 7.01 812.59 56.45 .3
** NMED source ID=39838EQPT5 Facility's ID=ENG-3
** Description=Caterpillar G3516 1340 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E5 POINT 631300.278 3548361.01 0
SO SRCPARAM 39838E5 .0201597 7.01 805.93 62.15 .3
** NMED source ID=39838EQPT6 Facility's ID=ENG-6
** Description=Caterpillar G3516 1340 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E6 POINT 631301.93 3548352.856 0
SO SRCPARAM 39838E6 .0201597 7.01 805.93 62.15 .3
** NMED source ID=39838EQPT7 Facility's ID=GEN-1
** Description=PSI 350 kW 581 hp generator Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E7 POINT 631308.879 3548347.894 0
SO SRCPARAM 39838E7 .0062999 3 1005.37 83.21 .09
** NMED source ID=39838EQPT8 Facility's ID=GEN-2
** Description=PSI 350 kW 581 hp generator Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E8 POINT 631317.562 3548349.036 0
SO SRCPARAM 39838E8 .0062999 3 1005.37 83.21 .09
** NMED source ID=39838EQPT9 Facility's ID=Reboil-1
** Description=TEG Reboiler 1 MMBtu/h Construction date=27-JAN-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E9 POINT 631323.272 3548355.964 0
SO SRCPARAM 39838E9 .00126 4.88 588.71 1.55 .4
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** NMED source ID=39838EQPT14 Facility's ID=ECD-1
** Description=8 MMscf/d Combustor (Process) Construction date=27-JAN-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E14 POINT 631322.707 3548365.145 0
SO SRCPARAM 39838E14 .0037799 3.66 1273 20 1.22
** NMED source ID=39838EQPT15 Facility's ID=ECD-2
** Description=26 MMscf/d Combustor (Process) Construction date=27-JAN-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E15 POINT 631315.872 3548371.623 0
SO SRCPARAM 39838E15 .00126 2.74 1273 20 .61
**********END OF 39838: MarkWest - Middle Ground Compressor Station
INFO***********************************
************************************************************
** 18.2km away. Facility ID=6257 Name=Marwari 28 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10013 NOI
** lat,long,datum=32.10771, -103.674043, NAD83
** Total Particulate Matter (10 microns or less) emissions=.64tons/year
*****************Facility sources: ****************************
** NMED source ID=6257EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=21-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6257E1 POINT 625101.987 3553144.196 0
SO SRCPARAM 6257E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=6257EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=21-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6257E2 POINT 625109.523 3553151.217 0
SO SRCPARAM 6257E2 .0075599 3.51 1000.37 71.17 .13
** NMED source ID=6257EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=21-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6257E3 POINT 625102.737 3553154.769 0
SO SRCPARAM 6257E3 .0037799 3.6 853.15 19.96 .17
**********END OF 6257: Marwari 28 Wellpad 3
INFO***********************************
************************************************************
** 18.2km away. Facility ID=38523 Name=Colibri Federal 23-32-10 FB 20H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
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** lat,long,datum=32.325722, -103.661167, NAD83
** Total Particulate Matter (10 microns or less) emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=38523AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=26-JUL-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38523A1 VOLUME 626015.777 3577327.898 0
SO SRCPARAM 38523A1 .0017262 1 .47 .93
** NMED source ID=38523EQPT5 Facility's ID=HTR-1
** Description=Heater Treater Burne-01 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38523E5 VOLUME 626023.313 3577334.919 0
SO SRCPARAM 38523E5 .00126 6.1 .47 .93
**********END OF 38523: Colibri Federal 23-32-10 FB 20H
INFO***********************************
************************************************************
** 18.26km away. Facility ID=7665 Name=Monsoon SWD
** Company ID=14273 Name=WaterBridge Stateline LLC
** SIC=1311 NAIC=21112    Permit=10154 NOI
** lat,long,datum=32.08957, -103.6548, NAD83
** Total Particulate Matter (10 microns or less) emissions=.19tons/year
*****************Facility sources: ****************************
** NMED source ID=7665AREA1 Facility's ID=ROAD-1
** Description=Haul Road Construction date=14-DEC-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7665A1 VOLUME 626942.773 3551155.739 0
SO SRCPARAM 7665A1 .0529192 1 .47 .93
**********END OF 7665: Monsoon SWD INFO************************************
************************************************************
** 18.27km away. Facility ID=38617 Name=Rico Compressor Station
** Company ID=13452 Name=Delaware G & P, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.2059, -103.717778, NAD83
** Total Particulate Matter (10 microns or less) emissions=7.39tons/year
*****************Facility sources: ****************************
** NMED source ID=38617EQPT1 Facility's ID=E-1
** Description=2500 hp CAT G3608 A4 Compressor Engine Construction date=12-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8559hr/yr, 24hr/day
SO LOCATION 38617E1 POINT 620845.677 3563979.346 0
SO SRCPARAM 38617E1 .0214197 8.31 718.15 104.06 .3
** NMED source ID=38617EQPT2 Facility's ID=E-2
** Description=2500 hp CAT G3608 A4 Compressor Engine Construction date=12-SEP-18
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8627hr/yr, 24hr/day
SO LOCATION 38617E2 POINT 620853.213 3563986.367 0
SO SRCPARAM 38617E2 .0214197 8.31 718.15 104.06 .3
** NMED source ID=38617EQPT12 Facility's ID=H-1
** Description=Dehy Reboiler w/ BTEX condenser Construction date=12-SEP-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E12 POINT 620846.427 3563989.919 0
SO SRCPARAM 38617E12 .00126 3.99 1033.15 8.11 .09
** NMED source ID=38617EQPT14 Facility's ID=E-5
** Description=72 hp GM 4.3L VRU Engine Construction date=19-NOV-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E14 POINT 620838.83 3563987.827 0
SO SRCPARAM 38617E14 .00126 5.52 588.71 35.33 .08
** NMED source ID=38617EQPT15 Facility's ID=E-3
** Description=2500 hp CAT G3608 A4 Compressor Engine Construction date=26-JUN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E15 POINT 620834.589 3563980.927 0
SO SRCPARAM 38617E15 .0214197 8.31 718.15 104.06 .3
** NMED source ID=38617EQPT16 Facility's ID=E-4
** Description=2370 hp CAT G3608 A3 Compressor Engine Construction date=26-JUN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E16 POINT 620836.241 3563972.773 0
SO SRCPARAM 38617E16 .0201597 8.31 731.48 104.42 .3
** NMED source ID=38617EQPT17 Facility's ID=E-6
** Description=2500 hp Waukesha 9394S5 Compressor Engine Construction date=26-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E17 POINT 620843.19 3563967.811 0
SO SRCPARAM 38617E17 .0428393 7.48 862.59 67.42 .3
** NMED source ID=38617EQPT18 Facility's ID=E-7
** Description=2500 hp Waukesha 9394S5 Compressor Engine Construction date=26-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E18 POINT 620851.873 3563968.953 0
SO SRCPARAM 38617E18 .0428393 7.48 862.59 67.42 .3
** NMED source ID=38617EQPT21 Facility's ID=E-8
** Description=2500 hp CAT G3608 A4 Compressor Engine Construction date=23-OCT-23
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E21 POINT 620857.583 3563975.881 0
SO SRCPARAM 38617E21 .0214197 8.31 718.15 104.06 .3
** NMED source ID=38617EQPT22 Facility's ID=E-9
** Description=2500 hp CAT G3608 A4 Compressor Engine Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E22 POINT 620857.018 3563985.062 0
SO SRCPARAM 38617E22 .0214197 8.31 718.15 104.06 .3
**********END OF 38617: Rico Compressor Station
INFO***********************************
************************************************************
** 18.28km away. Facility ID=31547 Name=Gaucho 21 Fed Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4796 NOI
** lat,long,datum=32.370964, -103.482381, NAD83
** Total Particulate Matter (10 microns or less) emissions=.33tons/year
*****************Facility sources: ******************************
** NMED source ID=31547AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31547A1 VOLUME 642774.254 3582568.042 0
SO SRCPARAM 31547A1 .2784556 10 20 9.3
** NMED source ID=31547EQPT7 Facility's ID=HT-1
** Description=Heater_EQ000156247 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31547E7 VOLUME 642781.79 3582575.063 0
SO SRCPARAM 31547E7 .0005796 9.14 .47 .93
** NMED source ID=31547EQPT10 Facility's ID=HT-2
** Description=Heater_EQ000156248 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31547E10 VOLUME 642775.004 3582578.615 0
SO SRCPARAM 31547E10 .0005796 9.14 .47 .93
**********END OF 31547: Gaucho 21 Fed Battery
INFO***********************************
************************************************************
** 18.3km away. Facility ID=39897 Name=Yada B CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.167413, -103.336435, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.57tons/year
*****************Facility sources: ******************************
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** NMED source ID=39897AREA1 Facility's ID=HR-1
** Description=unpaved haul roads Construction date=18-MAR-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39897A1 VOLUME 656856.045 3560205.021 0
SO SRCPARAM 39897A1 .1322979 10 10 9.3
** NMED source ID=39897EQPT1 Facility's ID=HT-1
** Description=heater treater 1: 3 MMBtu/h Construction date=18-MAR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39897E1 VOLUME 656863.581 3560212.042 0
SO SRCPARAM 39897E1 .00252 4.57 .47 .93
** NMED source ID=39897EQPT2 Facility's ID=ENG-1
** Description=CAT G3516J: 4SLB, 1380hp w/ oxidation catalyst Construction
date=18-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39897E2 POINT 656856.795 3560215.594 0
SO SRCPARAM 39897E2 .0125998 4.57 723.71 112.17 .2
** NMED source ID=39897EQPT3 Facility's ID=ENG-2
** Description=CAT G3516J: 4SLB, 1380hp w/ oxidation catalyst Construction
date=18-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39897E3 POINT 656849.198 3560213.502 0
SO SRCPARAM 39897E3 .0125998 4.57 723.71 112.17 .2
** NMED source ID=39897EQPT4 Facility's ID=GEN-1
** Description=PSI 21.9L; 4SRB, 581hp generator Construction date=18-MAR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39897E4 POINT 656844.957 3560206.602 0
SO SRCPARAM 39897E4 .0176397 4.57 886.48 150.27 .1
**********END OF 39897: Yada B CTB INFO************************************
************************************************************
** 18.31km away. Facility ID=39785 Name=Devon - Billiken 6 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9029 NSR
** lat,long,datum=32.076646, -103.41099, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.48tons/year
*****************Facility sources: ******************************
** NMED source ID=39785EQPT9 Facility's ID=HT-1
** Description=3 MMBtu/h Heater Treater Construction date=11-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39785E9 VOLUME 649973.945 3550036.025 0
SO SRCPARAM 39785E9 .0037799 9.14 .47 .93
** NMED source ID=39785RPNT2 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=11-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39785R2 VOLUME 649981.481 3550043.046 0
SO SRCPARAM 39785R2 .2784556 10 20 9.3
**********END OF 39785: Devon - Billiken 6 CTB 1
INFO**********************************
************************************************************
** 18.4km away. Facility ID=37138 Name=Nautilus 16 State Com No 703H & 704H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.049392, -103.48045, WGS84
** Total Particulate Matter (10 microns or less) emissions=.91tons/year
*****************Facility sources: ******************************
** NMED source ID=37138AREA1 Facility's ID=HAUL
** Description=haul roads Construction date=14-JUL-16
** SCC=30588801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37138A1 VOLUME 643460.028 3546920.151 0
SO SRCPARAM 37138A1 .0113398 1 .47 .93
** NMED source ID=37138EQPT1 Facility's ID=ENG-1
** Description=1775 hp Cat G3606 LE gas lift engine Construction date=14-JUL-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8702hr/yr, 24hr/day
SO LOCATION 37138E1 POINT 643467.564 3546927.172 0
SO SRCPARAM 37138E1 .0151198 8.53 725.93 26.85 .52
**********END OF 37138: Nautilus 16 State Com No 703H & 704H
INFO**********************************
************************************************************
** 18.43km away. Facility ID=38323 Name=Mesa Verde West Central Gas Lift Station
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2122, -103.7196, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.28tons/year
*****************Facility sources: ******************************
** NMED source ID=38323EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=20-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7733hr/yr, 24hr/day
SO LOCATION 38323E1 POINT 620665.626 3564675.705 0
SO SRCPARAM 38323E1 .0125998 4.57 816.48 26.46 .46
** NMED source ID=38323EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=20-SEP-18
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7398hr/yr, 24hr/day
SO LOCATION 38323E2 POINT 620673.162 3564682.726 0
SO SRCPARAM 38323E2 .0125998 4.57 816.48 26.46 .46
** NMED source ID=38323EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=20-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7968hr/yr, 24hr/day
SO LOCATION 38323E3 POINT 620666.376 3564686.278 0
SO SRCPARAM 38323E3 .0125998 4.57 816.48 26.46 .46
** NMED source ID=38323EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=20-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7822hr/yr, 24hr/day
SO LOCATION 38323E4 POINT 620658.779 3564684.186 0
SO SRCPARAM 38323E4 .0125998 4.57 816.48 26.46 .46
** NMED source ID=38323EQPT6 Facility's ID=REB-1
** Description=Reboiler Construction date=20-SEP-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38323E6 POINT 620654.538 3564677.286 0
SO SRCPARAM 38323E6 .00126 4.57 588.71 .12 .24
** NMED source ID=38323EQPT8 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1997hr/yr, 24hr/day
SO LOCATION 38323E8 POINT 620656.19 3564669.132 0
SO SRCPARAM 38323E8 .0125998 4.57 816.48 26.46 .46
** NMED source ID=38323RPNT3 Facility's ID=SITE-SSM
** Description=Emissions due to SSM Activities Construction date=20-MAR-20
** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38323R3 VOLUME 620663.139 3564664.17 0
SO SRCPARAM 38323R3 .0002898 1 .47 .93
**********END OF 38323: Mesa Verde West Central Gas Lift Station
INFO************************************
************************************************************
** 18.43km away. Facility ID=40490 Name=Magic Cat 30 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9635 NOI
** lat,long,datum=32.26901, -103.70704, NAD83
** Total Particulate Matter (10 microns or less) emissions=.79tons/year
*****************Facility sources: ******************************
** NMED source ID=40490EQPT1 Facility's ID=ENG 1
```

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** Description=Engine 1 Construction date=06-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40490E1 POINT 621773.544 3570987.774 0
SO SRCPARAM 40490E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=40490EQPT2 Facility's ID=ENG 2
** Description=Engine 2 Construction date=06-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40490E2 POINT 621781.08 3570994.795 0
SO SRCPARAM 40490E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40490: Magic Cat 30 Wellpad 3
INFO***********************************
************************************************************
** 18.45km away. Facility ID=37904 Name=Windward Federal 2H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7329 NOI
** lat,long,datum=32.195313, -103.718947, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.93tons/year
*****************Facility sources: ******************************
** NMED source ID=37904AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=22-AUG-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37904A1 VOLUME 620749.48 3562804.378 0
SO SRCPARAM 37904A1 .0529192 1 .47 .93
** NMED source ID=37904AREA2 Facility's ID=HR-02
** Description=Roads or Unpaved Haul Roads Construction date=22-AUG-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37904A2 VOLUME 620757.016 3562811.399 0
SO SRCPARAM 37904A2 .0138598 1 .47 .93
** NMED source ID=37904EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner - Windward Federal 2H Battery Construction
date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37904E4 VOLUME 620750.23 3562814.951 0
SO SRCPARAM 37904E4 .00126 6.71 .47 .93
** NMED source ID=37904EQPT6 Facility's ID=HT-02
** Description=Heater Treater Burner - Windward Federal 2H Battery Construction
date=01-AUG-14
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 37904E6 VOLUME 620742.633 3562812.859 0
SO SRCPARAM 37904E6 .00126 6.71 .47 .93
** NMED source ID=37904EQPT7 Facility's ID=HT-03
** Description=Heater Treater Burner - King Tut Federal 1H Battery Construction
date=22-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37904E7 VOLUME 620738.392 3562805.959 0
SO SRCPARAM 37904E7 .0005796 6.71 .47 .93
** NMED source ID=37904EQPT8 Facility's ID=HT-04
** Description=Heater Treater Burner - King Tut Federal 1H Battery Construction
date=01-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37904E8 VOLUME 620740.044 3562797.805 0
SO SRCPARAM 37904E8 .0005796 6.71 .47 .93
**********END OF 37904: Windward Federal 2H Battery
INFO**********************************
************************************************************
** 18.46km away. Facility ID=40400 Name=Mammoth 1 Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.066392, -103.427115, NAD83
** Total Particulate Matter (10 microns or less) emissions=.81tons/year
*****************Facility sources: ******************************
** NMED source ID=40400AREA1 Facility's ID=ROAD
** Description=HAUL ROADS Construction date=24-MAR-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400A1 VOLUME 648468.44 3548876.936 0
SO SRCPARAM 40400A1 .0125998 1 .47 .93
** NMED source ID=40400EQPT3 Facility's ID=HTR-1
** Description=HEATER TREATER 1 Construction date=24-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E3 VOLUME 648475.976 3548883.957 0
SO SRCPARAM 40400E3 .00126 4.6 .47 .93
** NMED source ID=40400EQPT16 Facility's ID=GEN-1
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E16 POINT 648469.19 3548887.509 0
SO SRCPARAM 40400E16 .00252 4.51 744.26 145.91 .09
** NMED source ID=40400EQPT17 Facility's ID=GEN-2
** Description=Generator Construction date=14-JUN-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E17 POINT 648461.593 3548885.417 0
SO SRCPARAM 40400E17 .00252 4.51 744.26 145.91 .09
** NMED source ID=40400EQPT18 Facility's ID=GEN-3
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E18 POINT 648457.352 3548878.517 0
SO SRCPARAM 40400E18 .00252 4.51 744.26 145.91 .09
** NMED source ID=40400EQPT19 Facility's ID=GEN-4
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E19 POINT 648459.004 3548870.363 0
SO SRCPARAM 40400E19 .00252 4.51 744.26 145.91 .09
** NMED source ID=40400EQPT20 Facility's ID=GEN-5
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E20 POINT 648465.953 3548865.401 0
SO SRCPARAM 40400E20 .00252 4.51 744.26 145.91 .09
** NMED source ID=40400EQPT21 Facility's ID=GEN-6
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E21 POINT 648474.636 3548866.543 0
SO SRCPARAM 40400E21 .00252 4.51 744.26 145.91 .09
**********END OF 40400: Mammoth 1 Fed Com CTB
INFO***********************************
************************************************************
** 18.47km away. Facility ID=33214 Name=Gaucho Central Tank Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5425 NOI
** lat,long,datum=32.374556, -103.493833, NAD83
** Total Particulate Matter (10 microns or less) emissions=.28tons/year
*****************Facility sources: ******************************
** NMED source ID=33214AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 33214A1 VOLUME 641691.162 3582951.045 0
SO SRCPARAM 33214A1 .2784556 10 20 9.3
** NMED source ID=33214EQPT2 Facility's ID=HT-2
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** Description=Heater_EQ000171750 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33214E2 VOLUME 641698.698 3582958.066 0
SO SRCPARAM 33214E2 .00126 9.14 .47 .93
** NMED source ID=33214EQPT9 Facility's ID=HT-1
** Description=Heater_EQ000171752 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33214E9 VOLUME 641691.912 3582961.618 0
SO SRCPARAM 33214E9 .0005796 9.14 .47 .93
**********END OF 33214: Gaucho Central Tank Battery
INFO************************************
************************************************************
** 18.51km away. Facility ID=40107 Name=Devon - Trionyx 6 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.163492, -103.712294, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.16tons/year
*****************Facility sources: ******************************
** NMED source ID=40107AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Road Construction date=11-AUG-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40107A1 VOLUME 621418.855 3559284.263 0
SO SRCPARAM 40107A1 .2784556 10 20 9.3
** NMED source ID=40107EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=11-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40107E2 VOLUME 621426.391 3559291.284 0
SO SRCPARAM 40107E2 .00252 9.14 .47 .93
**********END OF 40107: Devon - Trionyx 6 CTB 3
INFO************************************
************************************************************
** 18.55km away. Facility ID=39093 Name=EOG - Quijote 2 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0764, -103.6407, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.28tons/year
*****************Facility sources: ******************************
** NMED source ID=39093AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=22-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8762hr/yr, 24hr/day
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SO LOCATION 39093A1 VOLUME 628291.86 3549712.432 0
SO SRCPARAM 39093A1 .0579591 1 .47 .93
** NMED source ID=39093EQPT6 Facility's ID=HTR-1
** Description=Heater, 1.5-MMBtu/hr Construction date=22-AUG-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39093E6 POINT 628299.396 3549719.453 0
SO SRCPARAM 39093E6 .00252 5.18 588.71 6.86 .3
** NMED source ID=39093EQPT7 Facility's ID=Frac HTR-1
** Description=Heater, 0.5-MMBtu/hr Construction date=22-AUG-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39093E7 POINT 628292.61 3549723.005 0
SO SRCPARAM 39093E7 .00126 5.18 588.71 2.29 .3
** NMED source ID=39093EQPT8 Facility's ID=Frac ENG-1
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39093E8 POINT 628285.013 3549720.913 0
SO SRCPARAM 39093E8 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39093EQPT9 Facility's ID=Frac ENG-2
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39093E9 POINT 628280.772 3549714.013 0
SO SRCPARAM 39093E9 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39093EQPT10 Facility's ID=Frac ENG-3
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39093E10 POINT 628282.424 3549705.859 0
SO SRCPARAM 39093E10 .0075599 6.1 790.93 23.04 .2
**********END OF 39093: EOG - Quijote 2 State CTB
INFO***********************************
************************************************************
** 18.55km away. Facility ID=38765 Name=Devon - Marwari 28 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.106003, -103.677142, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.4tons/year
*****************Facility sources: ****************************
** NMED source ID=38765RPNT2 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=31-DEC-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38765R2 VOLUME 624811.901 3552951.369 0
SO SRCPARAM 38765R2 .040269 3.05 .47 .93
**********END OF 38765: Devon - Marwari 28 CTB 2
INFO**********************************
************************************************************
** 18.6km away. Facility ID=38029 Name=Gaucho 21 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=7453 NOI
** lat,long,datum=32.370825, -103.468119, NAD83
** Total Particulate Matter (10 microns or less) emissions=.26tons/year
*****************Facility sources: ****************************
** NMED source ID=38029AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=15-FEB-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38029A1 VOLUME 644116.349 3582571.756 0
SO SRCPARAM 38029A1 .2784556 10 20 9.3
** NMED source ID=38029EQPT3 Facility's ID=HT-1
** Description=Heater treater 1 EQ000310151 Construction date=15-FEB-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 38029E3 VOLUME 644123.885 3582578.777 0
SO SRCPARAM 38029E3 .00126 9.14 .47 .93
** NMED source ID=38029EQPT9 Facility's ID=HT-2
** Description=Heater treater 2 EQ000310194 Construction date=15-FEB-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 38029E9 VOLUME 644117.099 3582582.329 0
SO SRCPARAM 38029E9 .00126 9.14 .47 .93
**********END OF 38029: Gaucho 21 Wellpad 2
INFO**********************************
************************************************************
** 18.6km away. Facility ID=39222 Name=Charlie Murphy 6 Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.079218, -103.401804, NAD83
** Total Particulate Matter (10 microns or less) emissions=.28tons/year
*****************Facility sources: ****************************
** NMED source ID=39222AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=20-NOV-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39222A1 VOLUME 650836.811 3550333.975 0
SO SRCPARAM 39222A1 .00252 1 .47 .93
** NMED source ID=39222EQPT5 Facility's ID=HTR-1
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** Description=Heater Treater 1 Construction date=20-NOV-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=720hr/yr, 24hr/day
SO LOCATION 39222E5 VOLUME 650844.347 3550340.996 0
SO SRCPARAM 39222E5 .00126 4.6 .47 .93
** NMED source ID=39222EQPT8 Facility's ID=ENG-1
** Description=Combustion Engine Construction date=20-NOV-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39222E8 POINT 650837.561 3550344.548 0
SO SRCPARAM 39222E8 .00252 4.51 813.15 55.66 .1
** NMED source ID=39222EQPT18 Facility's ID=ENG-2
** Description=VRU Engine Construction date=18-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39222E18 POINT 650829.964 3550342.456 0
SO SRCPARAM 39222E18 .00252 4.51 919.82 65.84 .09
**********END OF 39222: Charlie Murphy 6 Fed Com CTB
INFO**********************************
************************************************************
** 18.64km away. Facility ID=39995 Name=Right Meow 31 CTB 7
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.265546, -103.710896, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.71tons/year
*****************Facility sources: ******************************
** NMED source ID=39995EQPT9 Facility's ID=HT-1
** Description=Heater Treater 3.0 MMBtu/hr Construction date=02-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39995E9 POINT 621414.965 3570599.387 0
SO SRCPARAM 39995E9 .0037799 9.14 888.71 9.07 .31
** NMED source ID=39995EQPT10 Facility's ID=HT-2
** Description=Heater Treater 3.0 MMBtu/hr Construction date=02-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39995E10 POINT 621422.501 3570606.408 0
SO SRCPARAM 39995E10 .0037799 9.14 888.71 9.07 .31
** NMED source ID=39995EQPT12 Facility's ID=LPC-1
** Description=Low Pressure Compressor Construction date=02-JUN-21
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39995E12 POINT 621415.715 3570609.96 0
SO SRCPARAM 39995E12 .0037799 2.5 919.82 193.82 .05
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** NMED source ID=39995RPNT2 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=02-JUN-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39995R2 VOLUME 621408.118 3570607.868 0
SO SRCPARAM 39995R2 .2784556 10 20 9.3
**********END OF 39995: Right Meow 31 CTB 7
INFO**********************************
************************************************************
** 18.71km away. Facility ID=40146 Name=Rattlesnake Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.04837, -103.47177, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.17tons/year
*****************Facility sources: ****************************
** NMED source ID=40146EQPT3 Facility's ID=RBL-1
** Description=Dehy Reboiler (1.0 MMBTU/hr) Construction date=27-AUG-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8541hr/yr, 23hr/day
SO LOCATION 40146E3 POINT 644281.192 3546818.421 0
SO SRCPARAM 40146E3 .00126 3.05 588.71 2.62 .3
** NMED source ID=40146EQPT6 Facility's ID=ENG-1
** Description=Compressor Engine (1875 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8285hr/yr, 23hr/day
SO LOCATION 40146E6 POINT 644288.728 3546825.442 0
SO SRCPARAM 40146E6 .0163797 6.1 695.37 34.32 .46
** NMED source ID=40146EQPT7 Facility's ID=ENG-2
** Description=Compressor Engine (1875 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7600hr/yr, 21hr/day
SO LOCATION 40146E7 POINT 644281.942 3546828.994 0
SO SRCPARAM 40146E7 .0163797 6.1 695.37 34.32 .46
** NMED source ID=40146EQPT8 Facility's ID=ENG-3
** Description=Compressor Engine (1875 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8189hr/yr, 22hr/day
SO LOCATION 40146E8 POINT 644274.345 3546826.902 0
SO SRCPARAM 40146E8 .0163797 6.1 695.37 34.32 .46
** NMED source ID=40146EQPT9 Facility's ID=ENG-4
** Description=Compressor Engine (1875 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8169hr/yr, 22hr/day
SO LOCATION 40146E9 POINT 644270.104 3546820.002 0
```

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SO SRCPARAM 40146E9 .0163797 6.1 695.37 34.32 .46
** NMED source ID=40146EQPT10 Facility's ID=ENG-5
** Description=Compressor Engine (1380 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7863hr/yr, 22hr/day
SO LOCATION 40146E10 POINT 644271.756 3546811.848 0
SO SRCPARAM 40146E10 .0125998 6.1 725.93 48.68 .3
** NMED source ID=40146EQPT11 Facility's ID=ENG-6
** Description=Compressor Engine (1380 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7547hr/yr, 21hr/day
SO LOCATION 40146E11 POINT 644278.705 3546806.886 0
SO SRCPARAM 40146E11 .0125998 6.1 725.93 48.68 .3
**********END OF 40146: Rattlesnake Compressor Station
INFO************************************
************************************************************
** 18.71km away. Facility ID=37605 Name=EOG - Braswell 16 West CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.05, -103.582778, NAD83
** Total Particulate Matter (10 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=37605EQPT3 Facility's ID=Heater-1
** Description=0.75 MMBtu/hr, separator heater Construction date=18-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37605E3 POINT 633797.504 3546856.129 0
SO SRCPARAM 37605E3 .00126 4.88 588.71 .01 1.22
** NMED source ID=37605EQPT20 Facility's ID=Heater-2
** Description=0.75 MMBtu/hr, separator heater Construction date=18-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37605E20 POINT 633805.04 3546863.15 0
SO SRCPARAM 37605E20 .00126 4.88 588.71 .01 1.22
**********END OF 37605: EOG - Braswell 16 West CTB
INFO************************************
************************************************************
** 18.74km away. Facility ID=40471 Name=Thunderbird 1 TB Fed 14H and 1 WA Fed 18H
Production Facility
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.067482, -103.419098, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.71tons/year
*****************Facility sources: ******************************
** NMED source ID=40471AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=18-AUG-22
```

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** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40471A1 VOLUME 649223.498 3549008.837 0
SO SRCPARAM 40471A1 .0100798 1 .47 .93
** NMED source ID=40471EQPT11 Facility's ID=HTR-1
** Description=Heater Treater Construction date=18-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40471E11 VOLUME 649231.034 3549015.858 0
SO SRCPARAM 40471E11 .00126 4.6 .47 .93
** NMED source ID=40471EQPT28 Facility's ID=ENG-01
** Description=Compressor Engine 1 Construction date=29-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40471E28 POINT 649224.248 3549019.41 0
SO SRCPARAM 40471E28 .0037799 3.51 829.82 33.89 .13
** NMED source ID=40471EQPT29 Facility's ID=ENG-02
** Description=Compressor Engine 2 Construction date=29-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40471E29 POINT 649216.651 3549017.318 0
SO SRCPARAM 40471E29 .0075599 3.51 1000.37 50.23 .15
** NMED source ID=40471EQPT30 Facility's ID=ENG-03
** Description=Compressor Engine 3 Construction date=29-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40471E30 POINT 649212.41 3549010.418 0
SO SRCPARAM 40471E30 .00252 3.51 867.04 52.15 .09
**********END OF 40471: Thunderbird 1 TB Fed 14H and 1 WA Fed 18H Production
Facility INFO************************************
************************************************************
** 18.76km away. Facility ID=38259 Name=Fighting Okra 18 CTB 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.042463, -103.509598, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.3tons/year
*****************Facility sources: ******************************
** NMED source ID=38259EQPT7 Facility's ID=HT-1
** Description=Heater Treater 1, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E7 VOLUME 640718.507 3546113.634 0
SO SRCPARAM 38259E7 .00126 9.14 .47 .93
** NMED source ID=38259EQPT8 Facility's ID=HT-2
```

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** Description=Heater Treater 2, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E8 VOLUME 640726.043 3546120.655 0
SO SRCPARAM 38259E8 .00126 9.14 .47 .93
** NMED source ID=38259EQPT9 Facility's ID=HT-3
** Description=Heater Treater 3, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E9 VOLUME 640719.257 3546124.207 0
SO SRCPARAM 38259E9 .00126 9.14 .47 .93
** NMED source ID=38259EQPT10 Facility's ID=HT-4
** Description=Heater Treater 4, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E10 VOLUME 640711.66 3546122.115 0
SO SRCPARAM 38259E10 .00126 9.14 .47 .93
** NMED source ID=38259EQPT11 Facility's ID=HT-5
** Description=Heater Treater 5, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E11 VOLUME 640707.419 3546115.215 0
SO SRCPARAM 38259E11 .00126 9.14 .47 .93
** NMED source ID=38259EQPT12 Facility's ID=HT-6
** Description=Heater Treater 6, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E12 VOLUME 640709.071 3546107.061 0
SO SRCPARAM 38259E12 .00126 9.14 .47 .93
** NMED source ID=38259RPNT2 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=05-FEB-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259R2 VOLUME 640716.02 3546102.099 0
SO SRCPARAM 38259R2 .2784556 10 20 9.3
**********END OF 38259: Fighting Okra 18 CTB 4
INFO***********************************
************************************************************
** 18.77km away. Facility ID=40543 Name=Marwari 21 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9678 NOI
** lat,long,datum=32.1096, -103.683375, NAD83
** Total Particulate Matter (10 microns or less) emissions=.5tons/year
*****************Facility sources: ****************************
```

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** NMED source ID=40543EQPT1 Facility's ID=ENG 1
** Description=Combustion Engine Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40543E1 POINT 624218.9 3553342.921 0
SO SRCPARAM 40543E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=40543EQPT2 Facility's ID=ENG 2
** Description=Combustion Engine Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40543E2 POINT 624226.436 3553349.942 0
SO SRCPARAM 40543E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40543: Marwari 21 Wellpad 1
INFO**********************************
************************************************************
** 18.79km away. Facility ID=7733 Name=Mockingbird Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.160175, -103.714228, WGS84
** Total Particulate Matter (10 microns or less) emissions=5.02tons/year
*****************Facility sources: ****************************
** NMED source ID=7733EQPT4 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E4 POINT 621240.876 3558914.368 0
SO SRCPARAM 7733E4 .0239396 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT5 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E5 POINT 621248.412 3558921.389 0
SO SRCPARAM 7733E5 .0239396 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT6 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E6 POINT 621241.626 3558924.941 0
SO SRCPARAM 7733E6 .0239396 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT7 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E7 POINT 621234.029 3558922.849 0
```

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SO SRCPARAM 7733E7 .0239396 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT8 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E8 POINT 621229.788 3558915.949 0
SO SRCPARAM 7733E8 .0239396 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT9 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E9 POINT 621231.44 3558907.795 0
SO SRCPARAM 7733E9 .0239396 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT14 Facility's ID=RBL-1
** Description=Dehydrator Reboiler Construction date=18-OCT-23
** SCC=31000301
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E14 POINT 621238.389 3558902.833 0
SO SRCPARAM 7733E14 .00126 7.92 533.15 .23 1.07
**********END OF 7733: Mockingbird Compressor Station
INFO**********************************
************************************************************
** 18.81km away. Facility ID=40577 Name=Mesa Compressor Station
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=4922 NAIC=48621    Permit=unknown
** lat,long,datum=32.066036, -103.627368, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.86tons/year
*****************Facility sources: ******************************
** NMED source ID=40577EQPT1 Facility's ID=ENG-1
** Description=Natural Gas Compressor Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40577E1 POINT 629564.869 3548579.438 0
SO SRCPARAM 40577E1 .0176397 6.1 712.59 34.56 .46
** NMED source ID=40577EQPT2 Facility's ID=ENG-2
** Description=Natural Gas Compressor Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40577E2 POINT 629572.405 3548586.459 0
SO SRCPARAM 40577E2 .0176397 6.1 712.59 34.56 .46
** NMED source ID=40577EQPT3 Facility's ID=ENG-3
** Description=Natural Gas Compressor Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40577E3 POINT 629565.619 3548590.011 0
SO SRCPARAM 40577E3 .0176397 6.1 712.59 34.56 .46
**********END OF 40577: Mesa Compressor Station
INFO**********************************
************************************************************
** 18.82km away. Facility ID=5515 Name=Ragin Cajun 12 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.06152, -103.429692, NAD83
** Total Particulate Matter (10 microns or less) emissions=5.61tons/year
*****************Facility sources: ******************************
** NMED source ID=5515AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=13-JUN-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515A1 VOLUME 648233.025 3548333.273 0
SO SRCPARAM 5515A1 .2784556 10 20 9.3
** NMED source ID=5515EQPT1 Facility's ID=ENG 1
** Description=Engine Construction date=13-JUN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E1 POINT 648240.561 3548340.294 0
SO SRCPARAM 5515E1 .0138598 5.85 772.59 37.4 .27
** NMED source ID=5515EQPT2 Facility's ID=ENG 2
** Description=Engine Construction date=13-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E2 POINT 648233.775 3548343.846 0
SO SRCPARAM 5515E2 .0075599 4.39 1000.37 17.38 .26
** NMED source ID=5515EQPT5 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=13-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E5 VOLUME 648226.178 3548341.754 0
SO SRCPARAM 5515E5 .00252 9.14 .47 .93
** NMED source ID=5515EQPT6 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=13-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E6 VOLUME 648221.937 3548334.854 0
SO SRCPARAM 5515E6 .00252 9.14 .47 .93
** NMED source ID=5515EQPT26 Facility's ID=MT 1
** Description=Microturbine 1 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E26 POINT 648223.589 3548326.7 0
SO SRCPARAM 5515E26 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT27 Facility's ID=MT 2
** Description=Microturbine 2 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E27 POINT 648230.538 3548321.738 0
SO SRCPARAM 5515E27 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT28 Facility's ID=MT 3
** Description=Microturbine 3 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E28 POINT 648239.221 3548322.88 0
SO SRCPARAM 5515E28 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT29 Facility's ID=MT 4
** Description=Microturbine 4 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E29 POINT 648244.931 3548329.808 0
SO SRCPARAM 5515E29 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT30 Facility's ID=MT 5
** Description=Microturbine 5 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E30 POINT 648244.366 3548338.989 0
SO SRCPARAM 5515E30 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT31 Facility's ID=MT 6
** Description=Microturbine 6 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E31 POINT 648237.531 3548345.467 0
SO SRCPARAM 5515E31 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT32 Facility's ID=MT 7
** Description=Microturbine 7 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E32 POINT 648227.895 3548345.544 0
SO SRCPARAM 5515E32 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT33 Facility's ID=MT 8
** Description=Microturbine 8 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 5515E33 POINT 648220.634 3548338.878 0
SO SRCPARAM 5515E33 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT34 Facility's ID=MT 9
** Description=Microturbine 9 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E34 POINT 648219.854 3548328.832 0
SO SRCPARAM 5515E34 .00252 4.02 529.26 95.74 .15
**********END OF 5515: Ragin Cajun 12 CTB 2
INFO**********************************
************************************************************
** 18.82km away. Facility ID=40483 Name=Magic Cat 30 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9634 NOI
** lat,long,datum=32.26893, -103.711425, NAD83
** Total Particulate Matter (10 microns or less) emissions=.79tons/year
*****************Facility sources: ******************************
** NMED source ID=40483EQPT1 Facility's ID=ENG 1
** Description=Engine 1 Construction date=06-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40483E1 POINT 621360.632 3570973.936 0
SO SRCPARAM 40483E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=40483EQPT2 Facility's ID=ENG 2
** Description=Engine 2 Construction date=06-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40483E2 POINT 621368.168 3570980.957 0
SO SRCPARAM 40483E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40483: Magic Cat 30 Wellpad 1
INFO**********************************
************************************************************
** 18.91km away. Facility ID=38474 Name=Marlan Downey 09 State
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.326181, -103.376765, NAD83
** Total Particulate Matter (10 microns or less) emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=38474AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Emissions Construction date=07-JUN-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38474A1 VOLUME 652786.765 3577748.917 0
SO SRCPARAM 38474A1 .2658558 10 20 9.3
** NMED source ID=38474EQPT1 Facility's ID=GEN-1
** Description=230 hp, CI nonroad generator Construction date=27-JAN-21
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** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38474E1 POINT 652794.301 3577755.938 0
SO SRCPARAM 38474E1 .00126 3.05 857.59 77.9 .09
** NMED source ID=38474EQPT2 Facility's ID=HT-1
** Description=Heater Treater Construction date=07-JUN-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38474E2 VOLUME 652787.515 3577759.49 0
SO SRCPARAM 38474E2 .0005796 6.1 .47 .93
**********END OF 38474: Marlan Downey 09 State
INFO**********************************
************************************************************
** 18.97km away. Facility ID=39627 Name=Devon - Right Meow 31 CTB 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.256125, -103.718063, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.82tons/year
*****************Facility sources: ****************************
** NMED source ID=39627EQPT9 Facility's ID=HT-1
** Description=Heater Treater 3.0 MMBtu/hr Construction date=21-AUG-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39627E9 POINT 620752.363 3569546.897 0
SO SRCPARAM 39627E9 .0037799 9.14 888.71 9.07 .31
** NMED source ID=39627EQPT10 Facility's ID=HT-2
** Description=Heater Treater 3.0 MMBtu/hr Construction date=21-AUG-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39627E10 POINT 620759.899 3569553.918 0
SO SRCPARAM 39627E10 .0037799 9.14 888.71 9.07 .31
** NMED source ID=39627EQPT13 Facility's ID=LPC 1
** Description=Compressor Engine Cummins G855 188 HP Construction date=21-AUG-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39627E13 POINT 620753.113 3569557.47 0
SO SRCPARAM 39627E13 .0037799 2.5 919.82 51.44 .1
** NMED source ID=39627RPNT2 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=21-AUG-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39627R2 VOLUME 620745.516 3569555.378 0
SO SRCPARAM 39627R2 .2784556 10 20 9.3
**********END OF 39627: Devon - Right Meow 31 CTB 5
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INFO**********************************
************************************************************
** 18.98km away. Facility ID=38981 Name=OXY - Red Tank 19 CGL
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.361423, -103.617748, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.71tons/year
*****************Facility sources: ****************************
** NMED source ID=38981EQPT1 Facility's ID=REB 1
** Description=Reboiler 0.75 MMBtu/hr Construction date=07-JUN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38981E1 POINT 630051.773 3581337.703 0
SO SRCPARAM 38981E1 .00126 4.57 588.71 .12 .24
** NMED source ID=38981EQPT2 Facility's ID=REB 2
** Description=Reboiler 0.75 MMBtu/hr Construction date=07-JUN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38981E2 POINT 630059.309 3581344.724 0
SO SRCPARAM 38981E2 .00126 4.57 588.71 .12 .24
** NMED source ID=38981EQPT5 Facility's ID=ENG-1/ COMP-1
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8315hr/yr, 24hr/day
SO LOCATION 38981E5 POINT 630052.523 3581348.276 0
SO SRCPARAM 38981E5 .0125998 4.57 725.93 39.2 .34
** NMED source ID=38981EQPT7 Facility's ID=ENG-3/ COMP-3
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8495hr/yr, 24hr/day
SO LOCATION 38981E7 POINT 630044.926 3581346.184 0
SO SRCPARAM 38981E7 .0125998 4.57 725.93 39.2 .34
** NMED source ID=38981EQPT8 Facility's ID=ENG-4/ COMP-4
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8279hr/yr, 24hr/day
SO LOCATION 38981E8 POINT 630040.685 3581339.284 0
SO SRCPARAM 38981E8 .0125998 4.57 725.93 39.2 .34
** NMED source ID=38981EQPT9 Facility's ID=ENG-5/ COMP-5
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8175hr/yr, 24hr/day
SO LOCATION 38981E9 POINT 630042.337 3581331.13 0
SO SRCPARAM 38981E9 .0125998 4.57 725.93 39.2 .34
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** NMED source ID=38981EQPT10 Facility's ID=ENG-6/ COMP-6
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8100hr/yr, 24hr/day
SO LOCATION 38981E10 POINT 630049.286 3581326.168 0
SO SRCPARAM 38981E10 .0125998 4.57 725.93 39.2 .34
** NMED source ID=38981RPNT2 Facility's ID=SITE SSM
** Description=Start-up, Shutdown, & Maintenance Construction date=07-JUN-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38981R2 VOLUME 630057.969 3581327.31 0
SO SRCPARAM 38981R2 3.3263472 10 260 9.3
** NMED source ID=38981EQPT6 Facility's ID=ENG-2/ COMP-2
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8206hr/yr, 24hr/day
SO LOCATION 38981E6 POINT 630063.679 3581334.238 0
SO SRCPARAM 38981E6 .0125998 4.57 725.93 39.2 .34
**********END OF 38981: OXY - Red Tank 19 CGL
INFO**********************************
************************************************************
** 19.04km away. Facility ID=38597 Name=Thunderbird 1 Federal No1H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.06575, -103.416361, NAD83
** Total Particulate Matter (10 microns or less) emissions=.07tons/year
*****************Facility sources: ****************************
** NMED source ID=38597ACT 2 Facility's ID=ROAD
** Description=Haul Road Construction date=23-JUN-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38597@2 VOLUME 649484.694 3548820.613 0
SO SRCPARAM 38597@2 .00126 1 .47 .93
** NMED source ID=38597EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38597E1 VOLUME 649492.23 3548827.634 0
SO SRCPARAM 38597E1 .0002898 6.1 .47 .93
**********END OF 38597: Thunderbird 1 Federal No1H
INFO**********************************
************************************************************
** 19.04km away. Facility ID=37175 Name=Sol 28 Federal Com 1H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6960 NOI
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** lat,long,datum=32.095325, -103.67324, WGS84
** Total Particulate Matter (10 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=37175AREA2 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=28-SEP-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37175A2 VOLUME 625194.653 3551772.161 0
SO SRCPARAM 37175A2 .0088199 1 .47 .93
** NMED source ID=37175EQPT11 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=28-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37175E11 VOLUME 625202.189 3551779.182 0
SO SRCPARAM 37175E11 .00126 6.71 .47 .93
**********END OF 37175: Sol 28 Federal Com 1H Battery
INFO*************************************
************************************************************
** 19.07km away. Facility ID=39821 Name=Cimarex - Red Tank 3 Fed 14H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3272, -103.67225, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.12tons/year
*****************Facility sources: ****************************
** NMED source ID=39821AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=15-JAN-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39821A1 VOLUME 624970.494 3577478.767 0
SO SRCPARAM 39821A1 .1133982 10 10 9.3
** NMED source ID=39821EQPT3 Facility's ID=H1
** Description=2.0 MMBtu/hr Heater Treater Construction date=15-JAN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39821E3 VOLUME 624978.03 3577485.788 0
SO SRCPARAM 39821E3 .00126 4.57 .47 .93
** NMED source ID=39821EQPT9 Facility's ID=ENG 1
** Description=Compressor Engine G3306 TA Construction date=29-OCT-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39821E9 POINT 624971.244 3577489.34 0
SO SRCPARAM 39821E9 .0037799 3.66 846.48 25.09 .15
**********END OF 39821: Cimarex - Red Tank 3 Fed 14H
INFO*************************************
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** 19.09km away. Facility ID=27969 Name=Covington A Federal NO 9 Battery
** Company ID=635 Name=OXY USA WTP Limited Partnership
** SIC=1311 NAIC=21112    Permit=3872 NOI
** lat,long,datum=32.35658, -103.6303, NAD83
** Total Particulate Matter (10 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=27969EQPT11 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 27969E11 VOLUME 628877.569 3580785.611 0
SO SRCPARAM 27969E11 .0005796 7.32 .47 .93
** NMED source ID=27969EQPT12 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 27969E12 VOLUME 628885.105 3580792.632 0
SO SRCPARAM 27969E12 .0005796 7.32 .47 .93
**********END OF 27969: Covington A Federal NO 9 Battery
INFO*************************************
************************************************************
** 19.2km away. Facility ID=35603 Name=Cotton Draw Unit 7 CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6327 NOI
** lat,long,datum=32.151428, -103.715314, NAD83
** Total Particulate Matter (10 microns or less) emissions=.37tons/year
*****************Facility sources: ******************************
** NMED source ID=35603AREA2 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35603A2 VOLUME 621150.039 3557943.476 0
SO SRCPARAM 35603A2 .2784556 10 20 9.3
** NMED source ID=35603EQPT36 Facility's ID=9
** Description=Heater_EQ000175377 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35603E36 VOLUME 621157.575 3557950.497 0
SO SRCPARAM 35603E36 .0005796 9.14 .47 .93
** NMED source ID=35603EQPT51 Facility's ID=10
** Description=Heater_EQ000175378 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35603E51 VOLUME 621150.789 3557954.049 0
SO SRCPARAM 35603E51 .0005796 9.14 .47 .93
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** NMED source ID=35603EQPT53 Facility's ID=11
** Description=Heater_EQ000175392 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35603E53 VOLUME 621143.192 3557951.957 0
SO SRCPARAM 35603E53 .0005796 9.14 .47 .93
**********END OF 35603: Cotton Draw Unit 7 CTB
INFO**********************************
************************************************************
** 19.21km away. Facility ID=41034 Name=Big Cat 9 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.323588, -103.67804, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.59tons/year
*****************Facility sources: ****************************
** NMED source ID=41034AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=17-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034A1 VOLUME 624430.427 3577071.597 0
SO SRCPARAM 41034A1 .2771956 10 20 9.3
** NMED source ID=41034EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=17-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E1 POINT 624437.963 3577078.618 0
SO SRCPARAM 41034E1 .0075599 5.85 723.71 34.47 .27
** NMED source ID=41034EQPT4 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=17-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E4 VOLUME 624431.177 3577082.17 0
SO SRCPARAM 41034E4 .0037799 9.14 .47 .93
** NMED source ID=41034EQPT15 Facility's ID=ENG 2
** Description=ENG 2 Generator Engine Construction date=07-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E15 POINT 624423.58 3577080.078 0
SO SRCPARAM 41034E15 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=41034EQPT16 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=07-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E16 POINT 624419.339 3577073.178 0
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SO SRCPARAM 41034E16 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=41034EQPT17 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=07-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E17 POINT 624420.991 3577065.024 0
SO SRCPARAM 41034E17 .0100798 3.17 1005.37 77.48 .15
**********END OF 41034: Big Cat 9 CTB 2 INFO************************************
************************************************************
** 19.26km away. Facility ID=40044 Name=Garfield Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.264087, -103.718448, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.27tons/year
*****************Facility sources: ******************************
** NMED source ID=40044EQPT5 Facility's ID=GEN-1
** Description=Generator, 449 hp, PSI HD 14.6 L Construction date=20-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40044E5 POINT 620705.555 3570429.123 0
SO SRCPARAM 40044E5 .0088199 3.05 1023.15 102.72 .1
** NMED source ID=40044EQPT14 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=13-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40044E14 POINT 620713.091 3570436.144 0
SO SRCPARAM 40044E14 .0138598 7.32 812.04 26.8 .38
** NMED source ID=40044EQPT15 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=13-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40044E15 POINT 620706.305 3570439.696 0
SO SRCPARAM 40044E15 .0138598 7.32 812.04 26.8 .38
** NMED source ID=40044EQPT16 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=13-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40044E16 POINT 620698.708 3570437.604 0
SO SRCPARAM 40044E16 .0138598 7.32 812.04 26.8 .38
** NMED source ID=40044EQPT17 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=13-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40044E17 POINT 620694.467 3570430.704 0
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SO SRCPARAM 40044E17 .0138598 7.32 812.04 26.8 .38
**********END OF 40044: Garfield Booster Station
INFO**********************************
************************************************************
** 19.31km away. Facility ID=9292 Name=Ragin Cajun 12 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.061393, -103.419267, NAD83
** Total Particulate Matter (10 microns or less) emissions=5.79tons/year
*****************Facility sources: ****************************
** NMED source ID=9292AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=12-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292A1 VOLUME 649217.433 3548333.564 0
SO SRCPARAM 9292A1 .2784556 10 20 9.3
** NMED source ID=9292EQPT3 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E3 POINT 649224.969 3548340.585 0
SO SRCPARAM 9292E3 .0264596 6.28 873.71 25.31 .41
** NMED source ID=9292EQPT4 Facility's ID=ENG 2
** Description=ENG 2 Gas Lift Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E4 POINT 649218.183 3548344.137 0
SO SRCPARAM 9292E4 .0075599 3.51 1000.37 71.17 .13
** NMED source ID=9292EQPT5 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E5 POINT 649210.586 3548342.045 0
SO SRCPARAM 9292E5 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=9292EQPT6 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E6 POINT 649206.345 3548335.145 0
SO SRCPARAM 9292E6 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=9292EQPT7 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 9292E7 POINT 649207.997 3548326.991 0
SO SRCPARAM 9292E7 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=9292EQPT8 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E8 POINT 649214.946 3548322.029 0
SO SRCPARAM 9292E8 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=9292EQPT12 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=12-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E12 VOLUME 649223.629 3548323.171 0
SO SRCPARAM 9292E12 .0037799 9.14 .47 .93
** NMED source ID=9292EQPT13 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=12-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E13 VOLUME 649229.339 3548330.099 0
SO SRCPARAM 9292E13 .0037799 9.14 .47 .93
**********END OF 9292: Ragin Cajun 12 CTB 3
INFO**********************************
************************************************************
** 19.33km away. Facility ID=40185 Name=Golden Tee CTB
** Company ID=14056 Name=Avant Natural Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.354501, -103.4091, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.54tons/year
*****************Facility sources: ****************************
** NMED source ID=40185AREA1 Facility's ID=HR
** Description=Unpaved roads Construction date=22-OCT-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40185A1 VOLUME 649696.249 3580842.999 0
SO SRCPARAM 40185A1 .124738 10 10 9.3
** NMED source ID=40185EQPT1 Facility's ID=HT-1
** Description=Heater Treater Construction date=22-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40185E1 VOLUME 649703.785 3580850.02 0
SO SRCPARAM 40185E1 .00126 6.1 .47 .93
**********END OF 40185: Golden Tee CTB INFO************************************
************************************************************
** 19.34km away. Facility ID=38766 Name=Devon - Marwari 28 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1059, -103.687698, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.12tons/year
*****************Facility sources: ****************************
** NMED source ID=38766AREA1 Facility's ID=ROAD-1
** Description=Haul roads Construction date=10-JAN-19
** SCC=31000299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2208hr/yr, 24hr/day
SO LOCATION 38766A1 VOLUME 623816.003 3552927.775 0
SO SRCPARAM 38766A1 .2784556 10 20 9.3
** NMED source ID=38766EQPT9 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater Construction date=10-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2208hr/yr, 24hr/day
SO LOCATION 38766E9 VOLUME 623823.539 3552934.796 0
SO SRCPARAM 38766E9 .0037799 9.14 .47 .93
** NMED source ID=38766EQPT16 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater Treater Construction date=17-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2208hr/yr, 24hr/day
SO LOCATION 38766E16 VOLUME 623816.753 3552938.348 0
SO SRCPARAM 38766E16 .0037799 9.14 .47 .93
**********END OF 38766: Devon - Marwari 28 CTB 1
INFO**********************************
************************************************************
** 19.4km away. Facility ID=39294 Name=Van Mar Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.0996, -103.6827, WGS84
** Total Particulate Matter (10 microns or less) emissions=5.18tons/year
*****************Facility sources: ****************************
** NMED source ID=39294EQPT1 Facility's ID=ENG-1
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4172hr/yr, 24hr/day
SO LOCATION 39294E1 POINT 624296.137 3552235.128 0
SO SRCPARAM 39294E1 .0251996 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT2 Facility's ID=ENG-2
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4321hr/yr, 24hr/day
SO LOCATION 39294E2 POINT 624303.673 3552242.149 0
SO SRCPARAM 39294E2 .0214197 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT3 Facility's ID=ENG-3
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4415hr/yr, 24hr/day
SO LOCATION 39294E3 POINT 624296.887 3552245.701 0
SO SRCPARAM 39294E3 .0251996 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT4 Facility's ID=ENG-4
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3984hr/yr, 24hr/day
SO LOCATION 39294E4 POINT 624289.29 3552243.609 0
SO SRCPARAM 39294E4 .0251996 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT5 Facility's ID=ENG-5
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39294E5 POINT 624285.049 3552236.709 0
SO SRCPARAM 39294E5 .0251996 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT6 Facility's ID=ENG-6
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39294E6 POINT 624286.701 3552228.555 0
SO SRCPARAM 39294E6 .0251996 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT14 Facility's ID=RBL-1
** Description=0.64 MMBtu/hr TEG dehy reboiler Construction date=11-JAN-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4415hr/yr, 24hr/day
SO LOCATION 39294E14 POINT 624293.65 3552223.593 0
SO SRCPARAM 39294E14 .00126 7 588.71 1.1 .3
** NMED source ID=39294EQPT15 Facility's ID=ECD-1
** Description=25 Mscfd combustor Construction date=11-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4415hr/yr, 24hr/day
SO LOCATION 39294E15 POINT 624302.333 3552224.735 0
SO SRCPARAM 39294E15 .0017262 4.57 1273 20 .76
**********END OF 39294: Van Mar Compressor Station
INFO************************************
************************************************************
** 19.42km away. Facility ID=39990 Name=Blondie 15 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.046132, -103.454927, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.31tons/year
*****************Facility sources: ****************************
** NMED source ID=39990AREA1 Facility's ID=ROAD-1
```

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** Description=Haul Roads Construction date=09-NOV-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39990A1 VOLUME 645875.07 3546592.952 0
SO SRCPARAM 39990A1 .2784556 10 20 9.3
** NMED source ID=39990EQPT16 Facility's ID=HT-1
** Description=Heater Treater 1 EQ000770232 Construction date=17-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39990E16 VOLUME 645882.606 3546599.973 0
SO SRCPARAM 39990E16 .0037799 9.14 .47 .93
**********END OF 39990: Blondie 15 CTB 3 INFO**********************************
************************************************************
** 19.51km away. Facility ID=39153 Name=Harrier Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.068444, -103.645064, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.86tons/year
*****************Facility sources: ****************************
** NMED source ID=39153EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E2 POINT 627891.026 3548825.268 0
SO SRCPARAM 39153E2 .0251996 7.01 714.26 75.65 .36
** NMED source ID=39153EQPT3 Facility's ID=RBL-1
** Description=Dehydrator Reboiler Construction date=24-SEP-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8499hr/yr, 23hr/day
SO LOCATION 39153E3 POINT 627898.562 3548832.289 0
SO SRCPARAM 39153E3 .00126 3.05 588.71 2.59 .3
** NMED source ID=39153EQPT6 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E6 POINT 627891.776 3548835.841 0
SO SRCPARAM 39153E6 .0251996 7.01 714.26 75.65 .36
** NMED source ID=39153EQPT7 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8240hr/yr, 23hr/day
SO LOCATION 39153E7 POINT 627884.179 3548833.749 0
SO SRCPARAM 39153E7 .0125998 7.01 707.04 34.02 .46
** NMED source ID=39153EQPT8 Facility's ID=ENG-4
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** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8339hr/yr, 23hr/day
SO LOCATION 39153E8 POINT 627879.938 3548826.849 0
SO SRCPARAM 39153E8 .0125998 7.01 707.04 34.02 .46
** NMED source ID=39153EQPT9 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E9 POINT 627881.59 3548818.695 0
SO SRCPARAM 39153E9 .0125998 7.01 707.04 34.02 .46
** NMED source ID=39153EQPT10 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E10 POINT 627888.539 3548813.733 0
SO SRCPARAM 39153E10 .0125998 7.01 707.04 34.02 .46
** NMED source ID=39153EQPT12 Facility's ID=Reb-2
** Description=Dehydrator Reboiler Construction date=24-SEP-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E12 POINT 627897.222 3548814.875 0
SO SRCPARAM 39153E12 .00126 3.05 588.71 2.59 .3
**********END OF 39153: Harrier Compressor Station
INFO**********************************
************************************************************
** 19.53km away. Facility ID=38648 Name=Devon - Alley Cat 17 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.308509, -103.695964, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.61tons/year
*****************Facility sources: ******************************
** NMED source ID=38648EQPT7 Facility's ID=HT-1
** Description=Heater Treater 1 - 1.0MMBtu/hr Construction date=12-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38648E7 VOLUME 622763.534 3575379.255 0
SO SRCPARAM 38648E7 .00126 9.14 .47 .93
** NMED source ID=38648EQPT8 Facility's ID=HT-2
** Description=Heater Treater 2 - 1.0MMBtu/hr Construction date=12-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6144hr/yr, 24hr/day
SO LOCATION 38648E8 VOLUME 622771.07 3575386.276 0
SO SRCPARAM 38648E8 .00126 9.14 .47 .93
```

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** NMED source ID=38648EQPT16 Facility's ID=GEN-1
** Description=Generator 1 Doosan PSI 21.9LNGP 550 HP Construction date=14-JAN-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6144hr/yr, 24hr/day
SO LOCATION 38648E16 POINT 622764.284 3575389.828 0
SO SRCPARAM 38648E16 .0100798 2.99 1005.37 215.19 .09
** NMED source ID=38648EQPT17 Facility's ID=GEN-2
** Description=Generator 2 Doosan PSI 21.9LNGP 550 HP Construction date=14-JAN-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6144hr/yr, 24hr/day
SO LOCATION 38648E17 POINT 622756.687 3575387.736 0
SO SRCPARAM 38648E17 .0100798 2.99 1005.37 215.19 .09
** NMED source ID=38648EQPT18 Facility's ID=LPC-2
** Description=Low Pressure Compressor Engine Construction date=08-NOV-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6144hr/yr, 24hr/day
SO LOCATION 38648E18 POINT 622752.446 3575380.836 0
SO SRCPARAM 38648E18 .0037799 2.99 919.82 51.42 .09
** NMED source ID=38648RPNT5 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=14-JAN-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38648R5 VOLUME 622754.098 3575372.682 0
SO SRCPARAM 38648R5 .2771956 10 20 9.3
**********END OF 38648: Devon - Alley Cat 17 CTB 3
INFO**********************************
************************************************************
** 19.54km away. Facility ID=40966 Name=Railsplitter 15 Wellpad 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9912 NOI
** lat,long,datum=32.042342, -103.464759, NAD83
** Total Particulate Matter (10 microns or less) emissions=.37tons/year
*****************Facility sources: ****************************
** NMED source ID=40966EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=06-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40966E1 POINT 644952.678 3546159.545 0
SO SRCPARAM 40966E1 .0062999 5.85 723.71 34.44 .27
** NMED source ID=40966EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=06-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40966E2 POINT 644960.214 3546166.566 0
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SO SRCPARAM 40966E2 .0037799 3.6 853.15 19.79 .17
**********END OF 40966: Railsplitter 15 Wellpad 6
INFO**********************************
************************************************************
** 19.56km away. Facility ID=30337 Name=Trionyx 6 Fed 1 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4442 NOI
** lat,long,datum=32.152656, -103.71995, NAD83
** Total Particulate Matter (10 microns or less) emissions=.34tons/year
*****************Facility sources: ****************************
** NMED source ID=30337AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=01-FEB-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 30337A1 VOLUME 620711.199 3558074.4 0
SO SRCPARAM 30337A1 .2784556 10 20 9.3
** NMED source ID=30337EQPT5 Facility's ID=HT-1
** Description=Heater_EQ000111802 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 30337E5 VOLUME 620718.735 3558081.421 0
SO SRCPARAM 30337E5 .0005796 9.14 .47 .93
** NMED source ID=30337EQPT6 Facility's ID=HT-2
** Description=Heater_EQ000111968 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 30337E6 VOLUME 620711.949 3558084.973 0
SO SRCPARAM 30337E6 .0005796 9.14 .47 .93
**********END OF 30337: Trionyx 6 Fed 1 Battery
INFO**********************************
************************************************************
** 19.58km away. Facility ID=39379 Name=Winnebago 30 State Com CTB No1 and No2
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.357364, -103.409222, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.29tons/year
*****************Facility sources: ****************************
** NMED source ID=39379EQPT16 Facility's ID=HTR-1
** Description=Heater Treater - CTB 1 Construction date=08-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7152hr/yr, 24hr/day
SO LOCATION 39379E16 VOLUME 649680.05 3581160.241 0
SO SRCPARAM 39379E16 .00126 4.88 .47 .93
** NMED source ID=39379EQPT20 Facility's ID=HTR-2
** Description=Heater Treater - CTB 2 Construction date=09-DEC-22
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379E20 VOLUME 649687.586 3581167.262 0
SO SRCPARAM 39379E20 .00126 4.88 .47 .93
** NMED source ID=39379EQPT27 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=16-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379E27 POINT 649680.8 3581170.814 0
SO SRCPARAM 39379E27 .0327595 7.32 910.37 37.8 .36
** NMED source ID=39379EQPT28 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=16-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379E28 POINT 649673.203 3581168.722 0
SO SRCPARAM 39379E28 .00252 3.05 898.15 17.22 .15
** NMED source ID=39379RPNT3 Facility's ID=SITE-SSM
** Description=Site SSM Emissions Construction date=16-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379R3 VOLUME 649668.962 3581161.822 0
SO SRCPARAM 39379R3 .0002898 1 .47 .93
**********END OF 39379: Winnebago 30 State Com CTB No1 and No2
INFO**********************************
************************************************************
** 19.59km away. Facility ID=40009 Name=Franklin - FMM Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.166104, -103.322722, NAD83
** Total Particulate Matter (10 microns or less) emissions=.39tons/year
*****************Facility sources: ****************************
** NMED source ID=40009EQPT11 Facility's ID=HT-01
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3000hr/yr, 24hr/day
SO LOCATION 40009E11 VOLUME 658151.454 3560079.975 0
SO SRCPARAM 40009E11 .00126 6.1 .47 .93
** NMED source ID=40009EQPT12 Facility's ID=HT-02
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3000hr/yr, 24hr/day
SO LOCATION 40009E12 VOLUME 658158.99 3560086.996 0
SO SRCPARAM 40009E12 .00126 6.1 .47 .93
** NMED source ID=40009EQPT13 Facility's ID=HT-03
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
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** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E13 VOLUME 658152.204 3560090.548 0
SO SRCPARAM 40009E13 .00126 6.1 .47 .93
** NMED source ID=40009EQPT14 Facility's ID=HT-04
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E14 VOLUME 658144.607 3560088.456 0
SO SRCPARAM 40009E14 .00126 6.1 .47 .93
** NMED source ID=40009EQPT15 Facility's ID=HT-05
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E15 VOLUME 658140.366 3560081.556 0
SO SRCPARAM 40009E15 .00126 6.1 .47 .93
** NMED source ID=40009EQPT16 Facility's ID=HT-06
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E16 VOLUME 658142.018 3560073.402 0
SO SRCPARAM 40009E16 .00126 6.1 .47 .93
** NMED source ID=40009EQPT17 Facility's ID=HT-07
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E17 VOLUME 658148.967 3560068.44 0
SO SRCPARAM 40009E17 .00126 6.1 .47 .93
** NMED source ID=40009EQPT18 Facility's ID=HT-08
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E18 VOLUME 658157.65 3560069.582 0
SO SRCPARAM 40009E18 .00126 6.1 .47 .93
** NMED source ID=40009EQPT19 Facility's ID=HT-09
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E19 VOLUME 658163.36 3560076.51 0
SO SRCPARAM 40009E19 .00126 6.1 .47 .93
** NMED source ID=40009EQPT20 Facility's ID=HT-10
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E20 VOLUME 658162.795 3560085.691 0
SO SRCPARAM 40009E20 .00126 6.1 .47 .93
** NMED source ID=40009EQPT21 Facility's ID=HT-11
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E21 VOLUME 658155.96 3560092.169 0
SO SRCPARAM 40009E21 .00126 6.1 .47 .93
** NMED source ID=40009EQPT22 Facility's ID=HT-12
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E22 VOLUME 658146.324 3560092.246 0
SO SRCPARAM 40009E22 .00126 6.1 .47 .93
** NMED source ID=40009EQPT23 Facility's ID=HT-13
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E23 VOLUME 658139.063 3560085.58 0
SO SRCPARAM 40009E23 .00126 6.1 .47 .93
**********END OF 40009: Franklin - FMM Central Tank Battery
INFO***********************************
************************************************************
** 19.6km away. Facility ID=41040 Name=Stray Cat 8 CTB 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.314883, -103.691626, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.44tons/year
*****************Facility sources: ****************************
** NMED source ID=41040AREA1 Facility's ID=ROAD-1
** Description=Haul Road Construction date=27-APR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41040A1 VOLUME 623163.322 3576090.857 0
SO SRCPARAM 41040A1 .2784556 10 20 9.3
** NMED source ID=41040EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=27-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41040E1 POINT 623170.858 3576097.878 0
SO SRCPARAM 41040E1 .0062999 5.85 723.71 34.47 .27
** NMED source ID=41040EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Engine Construction date=27-APR-23
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41040E2 POINT 623164.072 3576101.43 0
SO SRCPARAM 41040E2 .0138598 5.85 772.59 37.4 .27
** NMED source ID=41040EQPT5 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=27-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41040E5 VOLUME 623156.475 3576099.338 0
SO SRCPARAM 41040E5 .00252 9.14 .47 .93
** NMED source ID=41040EQPT6 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=27-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41040E6 VOLUME 623152.234 3576092.438 0
SO SRCPARAM 41040E6 .00252 9.14 .47 .93
**********END OF 41040: Stray Cat 8 CTB 5 INFO**********************************
************************************************************
** 19.6km away. Facility ID=40444 Name=Todd 36 Wellpad 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9606 NOI
** lat,long,datum=32.254405, -103.725426, NAD83
** Total Particulate Matter (10 microns or less) emissions=.79tons/year
*****************Facility sources: ******************************
** NMED source ID=40444EQPT3 Facility's ID=ENG-1
** Description=ENG 1 Construction date=26-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40444E3 POINT 620061.018 3569347.959 0
SO SRCPARAM 40444E3 .0151198 5.58 812.59 35.45 .2
** NMED source ID=40444EQPT4 Facility's ID=ENG-2
** Description=ENG 2 Construction date=26-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40444E4 POINT 620068.554 3569354.98 0
SO SRCPARAM 40444E4 .0075599 4.39 778.71 13.8 .26
**********END OF 40444: Todd 36 Wellpad 4 INFO**********************************
************************************************************
** 19.61km away. Facility ID=40959 Name=Golden Tee CTB2
** Company ID=14056 Name=Avant Natural Resources
** SIC=1311 NAIC=21112    Permit=9925 NOI
** lat,long,datum=32.354946, -103.404594, NAD83
** Total Particulate Matter (10 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=40959EQPT3 Facility's ID=HT-01
```

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** Description=Heater Treater Construction date=25-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40959E3 VOLUME 650119.554 3580898.647 0
SO SRCPARAM 40959E3 .00126 4.57 .47 .93
**********END OF 40959: Golden Tee CTB2 INFO**********************************
************************************************************
** 19.67km away. Facility ID=40967 Name=Railsplitter 15 Wellpad 7
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9913 NOI
** lat,long,datum=32.041833, -103.46205, NAD83
** Total Particulate Matter (10 microns or less) emissions=.37tons/year
*****************Facility sources: ****************************
** NMED source ID=40967EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40967E1 POINT 645209.284 3546106.758 0
SO SRCPARAM 40967E1 .0062999 5.85 723.71 34.44 .27
** NMED source ID=40967EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=14-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40967E2 POINT 645216.82 3546113.779 0
SO SRCPARAM 40967E2 .0037799 3.6 853.15 19.79 .17
**********END OF 40967: Railsplitter 15 Wellpad 7
INFO**********************************
************************************************************
** 19.69km away. Facility ID=39395 Name=Murphy Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257753, -103.725422, NAD83
** Total Particulate Matter (10 microns or less) emissions=4.12tons/year
*****************Facility sources: ****************************
** NMED source ID=39395EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=05-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3319hr/yr, 24hr/day
SO LOCATION 39395E1 POINT 620056.987 3569719.119 0
SO SRCPARAM 39395E1 .0125998 7.32 813.71 35.11 .38
** NMED source ID=39395EQPT2 Facility's ID=GEN-1
** Description=362 hp Gravity NG250 Construction date=05-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E2 POINT 620064.523 3569726.14 0
```

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SO SRCPARAM 39395E2 .0075599 3.15 1005.37 110.34 .1
** NMED source ID=39395EQPT4 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=05-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5668hr/yr, 24hr/day
SO LOCATION 39395E4 POINT 620057.737 3569729.692 0
SO SRCPARAM 39395E4 .0125998 7.32 813.71 35.11 .38
** NMED source ID=39395EQPT5 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=05-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5026hr/yr, 24hr/day
SO LOCATION 39395E5 POINT 620050.14 3569727.6 0
SO SRCPARAM 39395E5 .0125998 7.32 813.71 35.11 .38
** NMED source ID=39395EQPT6 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=05-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E6 POINT 620045.899 3569720.7 0
SO SRCPARAM 39395E6 .0125998 7.32 813.71 35.11 .38
** NMED source ID=39395EQPT7 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=05-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E7 POINT 620047.551 3569712.546 0
SO SRCPARAM 39395E7 .0125998 7.32 813.71 35.11 .38
** NMED source ID=39395EQPT9 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=18-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E9 POINT 620054.5 3569707.584 0
SO SRCPARAM 39395E9 .0163797 7.32 710.37 48.52 .38
** NMED source ID=39395EQPT10 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=18-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E10 POINT 620063.183 3569708.726 0
SO SRCPARAM 39395E10 .0163797 7.32 710.37 48.52 .38
** NMED source ID=39395EQPT11 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=18-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E11 POINT 620068.893 3569715.654 0
SO SRCPARAM 39395E11 .0163797 7.32 710.37 48.52 .38
```

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**********END OF 39395: Murphy Booster Station
INFO**********************************
************************************************************
** 19.7km away. Facility ID=38122 Name=James 19 Federal 31H, 34H, 20-29 Fed 37H-39H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2974, -103.706275, NAD83
** Total Particulate Matter (10 microns or less) emissions=.97tons/year
*****************Facility sources: ******************************
** NMED source ID=38122AREA1 Facility's ID=HR
** Description=Haul Road Construction date=11-JAN-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38122A1 VOLUME 621807.635 3574135.948 0
SO SRCPARAM 38122A1 .1159182 10 10 9.3
** NMED source ID=38122EQPT20 Facility's ID=ENG2
** Description=Compressor Engine Construction date=11-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38122E20 POINT 621815.171 3574142.969 0
SO SRCPARAM 38122E20 .0050399 4.57 808.15 23.44 .15
** NMED source ID=38122EQPT21 Facility's ID=ENG3
** Description=Compressor Engine Construction date=11-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38122E21 POINT 621808.385 3574146.521 0
SO SRCPARAM 38122E21 .0050399 4.57 808.15 23.44 .15
** NMED source ID=38122EQPT23 Facility's ID=H1
** Description=2.0 MMBTU Heater Treater Construction date=11-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38122E23 VOLUME 621800.788 3574144.429 0
SO SRCPARAM 38122E23 .00126 4.57 .47 .93
** NMED source ID=38122EQPT24 Facility's ID=H2
** Description=2.0 MMBTU Heater Treater Construction date=11-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38122E24 VOLUME 621796.547 3574137.529 0
SO SRCPARAM 38122E24 .00126 4.57 .47 .93
** NMED source ID=38122EQPT25 Facility's ID=ENG4
** Description=Compressor Engine Construction date=26-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38122E25 POINT 621798.199 3574129.375 0
```

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SO SRCPARAM 38122E25 .0037799 4.57 808.15 23.44 .15
**********END OF 38122: James 19 Federal 31H, 34H, 20-29 Fed 37H-39H
INFO**********************************
************************************************************
** 19.72km away. Facility ID=758 Name=Cotton Draw Treater
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21113    Permit=2188 GCP4
** lat,long,datum=32.136589, -103.714068, Unknown
** Total Particulate Matter (10 microns or less) emissions=10tons/year
*****************Facility sources: ****************************
** NMED source ID=758RPNT2 Facility's ID=SSM
** Description=SSM Construction date=06-MAR-13
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 758R2 POINT 621287.196 3556299.869 0
SO SRCPARAM 758R2 .287666 1.8 572.6 15 .1
**********END OF 758: Cotton Draw Treater INFO**********************************
************************************************************
** 19.76km away. Facility ID=35528 Name=Devon - Cotton Draw Unit 25 Bone Spring CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1876, -103.731956, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.5tons/year
*****************Facility sources: ****************************
** NMED source ID=35528EQPT2 Facility's ID=10
** Description=Heater Treater 1 Construction date=02-AUG-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35528E2 POINT 619533.273 3561934.796 0
SO SRCPARAM 35528E2 .00126 9.14 708.71 2.82 .34
** NMED source ID=35528EQPT3 Facility's ID=9
** Description=Heater Treater 2 Construction date=02-AUG-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35528E3 POINT 619540.809 3561941.817 0
SO SRCPARAM 35528E3 .00126 9.14 708.71 2.82 .34
** NMED source ID=35528EQPT19 Facility's ID=44
** Description=Heater Treater 3 Construction date=02-AUG-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35528E19 POINT 619534.023 3561945.369 0
SO SRCPARAM 35528E19 .00126 9.14 708.71 2.82 .34
** NMED source ID=35528EQPT21 Facility's ID=41
** Description=Low Pressure Compressor Engine (LPC) Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35528E21 POINT 619526.426 3561943.277 0
SO SRCPARAM 35528E21 .0037799 2.5 919.82 51.42 .1
** NMED source ID=35528EQPT22 Facility's ID=43
** Description=Low Pressure Compressor Engine (LPC) Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35528E22 POINT 619522.185 3561936.377 0
SO SRCPARAM 35528E22 .0037799 2.5 919.82 51.42 .1
** NMED source ID=35528RPNT3 Facility's ID=25
** Description=Haul Roads Construction date=02-AUG-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35528R3 VOLUME 619523.837 3561928.223 0
SO SRCPARAM 35528R3 .3023952 10 20 9.3
**********END OF 35528: Devon - Cotton Draw Unit 25 Bone Spring CTB
INFO**********************************
************************************************************
** 19.79km away. Facility ID=40452 Name=Salado Draw 16-9 South Battery No1
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.037731, -103.573011, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.04tons/year
*****************Facility sources: ******************************
** NMED source ID=40452AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=11-MAY-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452A1 VOLUME 634737.65 3545508.157 0
SO SRCPARAM 40452A1 .0907186 10 10 9.3
** NMED source ID=40452EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E3 POINT 634745.186 3545515.178 0
SO SRCPARAM 40452E3 .0075599 6.17 695.37 37.61 .25
** NMED source ID=40452EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E4 POINT 634738.4 3545518.73 0
SO SRCPARAM 40452E4 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40452EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E5 POINT 634730.803 3545516.638 0
SO SRCPARAM 40452E5 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40452EQPT12 Facility's ID=HT-01
** Description=Heater Treater Construction date=25-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E12 POINT 634726.562 3545509.738 0
SO SRCPARAM 40452E12 .00126 4.57 533.15 7.86 .46
** NMED source ID=40452EQPT13 Facility's ID=HT-02
** Description=Heater Treater Construction date=25-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E13 POINT 634728.214 3545501.584 0
SO SRCPARAM 40452E13 .00126 4.57 533.15 3.93 .46
** NMED source ID=40452EQPT14 Facility's ID=HT-03
** Description=Heater Treater Construction date=25-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E14 POINT 634735.163 3545496.622 0
SO SRCPARAM 40452E14 .00126 4.57 533.15 3.93 .46
** NMED source ID=40452EQPT43 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=11-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E43 POINT 634743.846 3545497.764 0
SO SRCPARAM 40452E43 .0075599 4.42 989.82 70.44 .13
** NMED source ID=40452EQPT45 Facility's ID=GEN-01
** Description=Generator   Engine Construction date=11-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E45 POINT 634749.556 3545504.692 0
SO SRCPARAM 40452E45 .0100798 4.51 840.37 177.36 .09
** NMED source ID=40452EQPT46 Facility's ID=GEN-02
** Description=Generator   Engine Construction date=11-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E46 POINT 634748.991 3545513.873 0
SO SRCPARAM 40452E46 .0100798 4.51 840.37 177.36 .09
** NMED source ID=40452EQPT47 Facility's ID=HT-04
** Description=Heater Treater Construction date=11-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E47 VOLUME 634742.156 3545520.351 0
SO SRCPARAM 40452E47 .00126 4.57 .47 .93
** NMED source ID=40452EQPT48 Facility's ID=HT-05
** Description=Heater Treater Construction date=11-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E48 VOLUME 634732.52 3545520.428 0
SO SRCPARAM 40452E48 .00126 4.57 .47 .93
** NMED source ID=40452EQPT51 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=11-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E51 POINT 634725.259 3545513.762 0
SO SRCPARAM 40452E51 .0075599 4.42 989.82 70.44 .13
**********END OF 40452: Salado Draw 16-9 South Battery No1
INFO**********************************
************************************************************
** 19.81km away. Facility ID=40969 Name=Railsplitter 15 Wellpad 9
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9914 NOI
** lat,long,datum=32.042597, -103.454508, NAD83
** Total Particulate Matter (10 microns or less) emissions=.5tons/year
*****************Facility sources: ******************************
** NMED source ID=40969EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40969E1 POINT 645920.244 3546201.625 0
SO SRCPARAM 40969E1 .0062999 5.85 723.71 34.44 .27
** NMED source ID=40969EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=14-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40969E2 POINT 645927.78 3546208.646 0
SO SRCPARAM 40969E2 .0075599 4.39 778.71 13.8 .26
**********END OF 40969: Railsplitter 15 Wellpad 9
INFO**********************************
************************************************************
** 19.86km away. Facility ID=40448 Name=Right Meow 30 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9614 NOI
** lat,long,datum=32.281673, -103.71733, NAD83
** Total Particulate Matter (10 microns or less) emissions=.79tons/year
*****************Facility sources: ******************************
** NMED source ID=40448EQPT1 Facility's ID=ENG 1
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** Description=ENG 1 Construction date=04-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40448E1 POINT 620787.556 3572379.952 0
SO SRCPARAM 40448E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=40448EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Construction date=04-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40448E2 POINT 620795.092 3572386.973 0
SO SRCPARAM 40448E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40448: Right Meow 30 Wellpad 2
INFO**********************************
************************************************************
** 19.87km away. Facility ID=27900 Name=Red Tank 34 Federal No2 Bat
** Company ID=635 Name=OXY USA WTP Limited Partnership
** SIC=1311 NAIC=21112    Permit=3844 NOI
** lat,long,datum=32.349806, -103.656, NAD83
** Total Particulate Matter (10 microns or less) emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=27900EQPT7 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 27900E7 VOLUME 626468.645 3580003.978 0
SO SRCPARAM 27900E7 .0005796 3.66 .47 .93
**********END OF 27900: Red Tank 34 Federal No2 Bat
INFO**********************************
************************************************************
** 19.88km away. Facility ID=31968 Name=Gaucho Unit 6H CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4928 NOI
** lat,long,datum=32.386111, -103.485261, NAD83
** Total Particulate Matter (10 microns or less) emissions=.55tons/year
*****************Facility sources: ******************************
** NMED source ID=31968AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8664hr/yr, 24hr/day
SO LOCATION 31968A1 VOLUME 642479.503 3584243.486 0
SO SRCPARAM 31968A1 1.0898827 10 90 9.3
** NMED source ID=31968EQPT1 Facility's ID=006 + 009
** Description=Heater Treater 1n+2 Construction date=
** SCC=unknown
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 31968E1 VOLUME 642487.039 3584250.507 0
SO SRCPARAM 31968E1 .0037799 1 .47 .93
** NMED source ID=31968EQPT5 Facility's ID=Heater_7087
** Description=Heater_EQ000067087 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8664hr/yr, 24hr/day
SO LOCATION 31968E5 VOLUME 642480.253 3584254.059 0
SO SRCPARAM 31968E5 .0005796 9.14 .47 .93
**********END OF 31968: Gaucho Unit 6H CTB INFO**********************************
************************************************************
** 19.94km away. Facility ID=39957 Name=Franklin - Green Light Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.166067, -103.318878, NAD83
** Total Particulate Matter (10 microns or less) emissions=.39tons/year
*****************Facility sources: ****************************
** NMED source ID=39957EQPT3 Facility's ID=HT-1 to HT-13
** Description=Heater Treater 0.75 MMBTU/hr Construction date=05-MAY-21
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7512hr/yr, 24hr/day
SO LOCATION 39957E3 VOLUME 658514.016 3560081.531 0
SO SRCPARAM 39957E3 .0163797 6.1 .47 .93
**********END OF 39957: Franklin - Green Light Central Tank Battery
INFO**********************************
************************************************************
** 19.96km away. Facility ID=39735 Name=Devon - Railsplitter 15 CTB 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.039653, -103.459704, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.53tons/year
*****************Facility sources: ****************************
** NMED source ID=39735AREA1 Facility's ID=ROAD-1
** Description=unpaved haul roads Construction date=06-NOV-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39735A1 VOLUME 645434.258 3545868.239 0
SO SRCPARAM 39735A1 .2784556 10 20 9.3
** NMED source ID=39735EQPT10 Facility's ID=HT-1
** Description=heater treater 1 Construction date=06-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39735E10 VOLUME 645441.794 3545875.26 0
SO SRCPARAM 39735E10 .0037799 9.14 .47 .93
** NMED source ID=39735EQPT11 Facility's ID=HT-2
** Description=heater treater 2 Construction date=06-NOV-20
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39735E11 VOLUME 645435.008 3545878.812 0
SO SRCPARAM 39735E11 .0037799 9.14 .47 .93
**********END OF 39735: Devon - Railsplitter 15 CTB 6
INFO**********************************
************************************************************
** 19.96km away. Facility ID=39295 Name=Devon - Todd 36 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257308, -103.728556, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.62tons/year
*****************Facility sources: ******************************
** NMED source ID=39295AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=31-DEC-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39295A1 VOLUME 619762.348 3569666.285 0
SO SRCPARAM 39295A1 .2784556 10 20 9.3
** NMED source ID=39295EQPT9 Facility's ID=HT-1
** Description=3.0 MMBtu/h Heater Treater Construction date=31-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39295E9 VOLUME 619769.884 3569673.306 0
SO SRCPARAM 39295E9 .0037799 9.14 .47 .93
** NMED source ID=39295EQPT10 Facility's ID=HT-2
** Description=3.0 MMBtu/h Heater Treater Construction date=31-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39295E10 VOLUME 619763.098 3569676.858 0
SO SRCPARAM 39295E10 .0037799 9.14 .47 .93
** NMED source ID=39295EQPT13 Facility's ID=GEN-1
** Description=Doosan 21.9L Generator 550 hp Construction date=31-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39295E13 POINT 619755.501 3569674.766 0
SO SRCPARAM 39295E13 .0100798 3.51 1005.37 215.24 .09
** NMED source ID=39295EQPT14 Facility's ID=GEN-4
** Description=Doosan 21.9L Generator 550 hp Construction date=31-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39295E14 POINT 619751.26 3569667.866 0
SO SRCPARAM 39295E14 .0100798 3.51 1005.37 215.24 .09
** NMED source ID=39295EQPT15 Facility's ID=GEN-2
** Description=Doosan 14.6L Generator 362 hp Construction date=31-DEC-19
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39295E15 POINT 619752.912 3569659.712 0
SO SRCPARAM 39295E15 .0075599 3.51 1005.37 136.19 .09
** NMED source ID=39295EQPT16 Facility's ID=GEN-3
** Description=Doosan 14.6L Generator 362 hp Construction date=31-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39295E16 POINT 619759.861 3569654.75 0
SO SRCPARAM 39295E16 .0075599 3.51 1005.37 136.19 .09
**********END OF 39295: Devon - Todd 36 CTB 3
INFO**********************************
************************************************************
** 19.99km away. Facility ID=38973 Name=Jennings 34 W1MD Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=8318 NOI
** lat,long,datum=32.079202, -103.668447, WGS84
** Total Particulate Matter (10 microns or less) emissions=.21tons/year
****************Facility sources: ****************************
** NMED source ID=38973AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=01-JAN-20
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38973A1 VOLUME 625669.032 3549990.387 0
SO SRCPARAM 38973A1 .0907186 10 10 9.3
** NMED source ID=38973EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=31000312
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38973E1 POINT 625676.568 3549997.408 0
SO SRCPARAM 38973E1 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38973EQPT4 Facility's ID=HT-01
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38973E4 VOLUME 625669.782 3550000.96 0
SO SRCPARAM 38973E4 .00126 4.57 .47 .93
**********END OF 38973: Jennings 34 W1MD Fed Com 1H Battery
INFO**********************************
************************************************************
** 20.03km away. Facility ID=39457 Name=Todd 36 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.254986, -103.729986, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.04tons/year
```

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**********Facility sources: ****************************
** NMED source ID=39457EQPT1 Facility's ID=ENG 2
** Description=Engine 2_EQ000641108 Cat G3306TA 203hp Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4128hr/yr, 24hr/day
SO LOCATION 39457E1 POINT 619630.687 3569407.277 0
SO SRCPARAM 39457E1 .0037799 3.6 813.15 19.66 .17
** NMED source ID=39457EQPT2 Facility's ID=ENG 1
** Description=Engine 1_EQ000641104 Cummins KTA19 380hp Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4128hr/yr, 24hr/day
SO LOCATION 39457E2 POINT 619638.223 3569414.298 0
SO SRCPARAM 39457E2 .0075599 4.39 1004.26 17.56 .26
** NMED source ID=39457EQPT3 Facility's ID=ENG 3
** Description=Cat G3306TA 203hp Construction date=30-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39457E3 POINT 619631.437 3569417.85 0
SO SRCPARAM 39457E3 .0037799 3.6 813.15 19.72 .17
** NMED source ID=39457EQPT4 Facility's ID=ENG 4
** Description=Cummins GTA38 760hp Construction date=30-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39457E4 POINT 619623.84 3569415.758 0
SO SRCPARAM 39457E4 .0151198 5.85 952.59 31.94 .27
**********END OF 39457: Todd 36 Wellpad 3 INFO**********************************
************************************************************
** 20.04km away. Facility ID=8248 Name=Coriander Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.3643, -103.63459, NAD83
** Total Particulate Matter (10 microns or less) emissions=5.24tons/year
**********Facility sources: ****************************
** NMED source ID=8248AREA1 Facility's ID=HAUL
** Description=Haul Road Construction date=13-DEC-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248A1 VOLUME 628462.963 3581636.311 0
SO SRCPARAM 8248A1 .0478792 1 .47 .93
** NMED source ID=8248EQPT2 Facility's ID=E-1
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E2 POINT 628470.499 3581643.332 0
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SO SRCPARAM 8248E2 .0239396 6.52 689.26 26.34 .61
** NMED source ID=8248EQPT3 Facility's ID=E-2
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E3 POINT 628463.713 3581646.884 0
SO SRCPARAM 8248E3 .0239396 6.52 689.26 26.34 .61
** NMED source ID=8248EQPT4 Facility's ID=E-3
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E4 POINT 628456.116 3581644.792 0
SO SRCPARAM 8248E4 .0239396 6.52 689.26 26.34 .61
** NMED source ID=8248EQPT5 Facility's ID=E-4
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E5 POINT 628451.875 3581637.892 0
SO SRCPARAM 8248E5 .0176397 6.52 698.15 28.4 .51
** NMED source ID=8248EQPT6 Facility's ID=E-5
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E6 POINT 628453.527 3581629.738 0
SO SRCPARAM 8248E6 .0176397 6.52 698.15 28.4 .51
** NMED source ID=8248EQPT7 Facility's ID=E-6
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E7 POINT 628460.476 3581624.776 0
SO SRCPARAM 8248E7 .0176397 6.52 698.15 28.4 .51
** NMED source ID=8248EQPT8 Facility's ID=E-7
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E8 POINT 628469.159 3581625.918 0
SO SRCPARAM 8248E8 .0176397 6.52 698.15 28.4 .51
** NMED source ID=8248EQPT10 Facility's ID=GEN-1
** Description=Generator Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E10 POINT 628474.869 3581632.846 0
SO SRCPARAM 8248E10 .0050399 1.8 572.59 15 .09
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** NMED source ID=8248EQPT11 Facility's ID=H-1
** Description=H-1 Construction date=13-DEC-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E11 POINT 628474.304 3581642.027 0
SO SRCPARAM 8248E11 .00126 4.72 477.59 8.33 .23
**********END OF 8248: Coriander Compressor Station
INFO**********************************
************************************************************
** 20.05km away. Facility ID=38154 Name=Ophelia 22 West CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0343, -103.5677, WGS84
** Total Particulate Matter (10 microns or less) emissions=.07tons/year
*****************Facility sources: ****************************
** NMED source ID=38154EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=11-MAR-22
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38154E6 VOLUME 635244.21 3545134.441 0
SO SRCPARAM 38154E6 .00252 7.32 .47 .93
**********END OF 38154: Ophelia 22 West CTB
INFO**********************************
************************************************************
** 20.06km away. Facility ID=40206 Name=Devon - Right Meow 30 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.279834, -103.720615, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.44tons/year
*****************Facility sources: ****************************
** NMED source ID=40206AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40206A1 VOLUME 620480.621 3572172.387 0
SO SRCPARAM 40206A1 .2784556 10 20 9.3
** NMED source ID=40206EQPT1 Facility's ID=HT-1
** Description=Heater Treater, 3 MMBtu/hr Construction date=04-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40206E1 VOLUME 620488.157 3572179.408 0
SO SRCPARAM 40206E1 .0037799 9.14 .47 .93
** NMED source ID=40206EQPT2 Facility's ID=HT-2
** Description=Heater Treater, 1 MMBtu/hr Construction date=04-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40206E2 VOLUME 620481.371 3572182.96 0
SO SRCPARAM 40206E2 .00126 9.14 .47 .93
** NMED source ID=40206EQPT11 Facility's ID=LPC 1
** Description=Compressor Engine (GM 5.7L) 4SRB 92 Hp Construction date=04-NOV-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40206E11 POINT 620473.774 3572180.868 0
SO SRCPARAM 40206E11 .00252 2.68 922.04 67.27 .08
**********END OF 40206: Devon - Right Meow 30 CTB 1
INFO**********************************
************************************************************
** 20.07km away. Facility ID=31770 Name=Gaucho Unit 7 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4857 NOI
** lat,long,datum=32.389017, -103.493867, NAD83
** Total Particulate Matter (10 microns or less) emissions=.38tons/year
*****************Facility sources: ****************************
** NMED source ID=31770AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8544hr/yr, 24hr/day
SO LOCATION 31770A1 VOLUME 641665.387 3584554.228 0
SO SRCPARAM 31770A1 1.0898827 10 90 9.3
** NMED source ID=31770EQPT4 Facility's ID=Heater_0023
** Description=Heater_EQ000130023 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8544hr/yr, 24hr/day
SO LOCATION 31770E4 VOLUME 641672.923 3584561.249 0
SO SRCPARAM 31770E4 .0005796 9.14 .47 .93
**********END OF 31770: Gaucho Unit 7 Battery
INFO**********************************
************************************************************
** 20.09km away. Facility ID=35583 Name=Cotton Draw - Scissortail Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.171111, -103.731944, NAD83
** Total Particulate Matter (10 microns or less) emissions=1tons/year
*****************Facility sources: ****************************
** NMED source ID=35583EQPT1 Facility's ID=2
** Description=1380-hp Caterpillar G3516B Construction date=04-FEB-16
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8265hr/yr, 24hr/day
SO LOCATION 35583E1 POINT 619555.954 3560106.881 0
SO SRCPARAM 35583E1 .0138598 4.57 806.48 33.38 .41
** NMED source ID=35583EQPT2 Facility's ID=3
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** Description=1380-hp Caterpillar G3516B Construction date=04-FEB-16
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8345hr/yr, 24hr/day
SO LOCATION 35583E2 POINT 619563.49 3560113.902 0
SO SRCPARAM 35583E2 .0138598 4.57 806.48 33.38 .41
**********END OF 35583: Cotton Draw - Scissortail Compressor Station
INFO**********************************
************************************************************
** 20.11km away. Facility ID=38265 Name=Cave Lion 5 Federal 1H-5H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.065611, -103.396472, NAD83
** Total Particulate Matter (10 microns or less) emissions=.52tons/year
*****************Facility sources: ******************************
** NMED source ID=38265EQPT3 Facility's ID=HTR-01
** Description=Heater Treater Burner-01 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38265E3 VOLUME 651362.523 3548832.935 0
SO SRCPARAM 38265E3 .0005796 4.57 .47 .93
** NMED source ID=38265RPNT2 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38265R2 VOLUME 651370.059 3548839.956 0
SO SRCPARAM 38265R2 .0163797 1 .47 .93
**********END OF 38265: Cave Lion 5 Federal 1H-5H
INFO**********************************
************************************************************
** 20.11km away. Facility ID=39145 Name=Devon - Green Wave 20 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.031692, -103.493778, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.02tons/year
*****************Facility sources: ******************************
** NMED source ID=39145AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=20-SEP-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 39145A1 VOLUME 642228.982 3544940.292 0
SO SRCPARAM 39145A1 .2771956 10 20 9.3
** NMED source ID=39145EQPT9 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater 1 Construction date=20-SEP-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
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SO LOCATION 39145E9 VOLUME 642236.518 3544947.313 0
SO SRCPARAM 39145E9 .0037799 9.14 .47 .93
** NMED source ID=39145EQPT10 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater Treater 2 Construction date=20-SEP-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39145E10 VOLUME 642229.732 3544950.865 0
SO SRCPARAM 39145E10 .0037799 9.14 .47 .93
**********END OF 39145: Devon - Green Wave 20 CTB 3
INFO**********************************
************************************************************
** 20.11km away. Facility ID=39427 Name=Marlan East Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3329, -103.366665, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.81tons/year
*****************Facility sources: ******************************
** NMED source ID=39427AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Emissions Construction date=31-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39427A1 VOLUME 653726.178 3578508.289 0
SO SRCPARAM 39427A1 .0088199 1 .47 .93
** NMED source ID=39427EQPT1 Facility's ID=HT-1
** Description=1.0 MMBtu/hr Heater Treater Construction date=24-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39427E1 VOLUME 653733.714 3578515.31 0
SO SRCPARAM 39427E1 .0005796 6.1 .47 .93
** NMED source ID=39427EQPT4 Facility's ID=GEN-1
** Description=230 hp FPT diesel generator Construction date=31-MAR-20
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1464hr/yr, 4hr/day
SO LOCATION 39427E4 POINT 653726.928 3578518.862 0
SO SRCPARAM 39427E4 .0100798 3.51 742.04 18.26 .02
** NMED source ID=39427EQPT21 Facility's ID=ENG-2
** Description=84-hp Cummins G5.9 engine Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E21 POINT 653719.331 3578516.77 0
SO SRCPARAM 39427E21 .00126 6.1 1005.37 21.68 .1
** NMED source ID=39427EQPT22 Facility's ID=ENG-3
** Description=84-hp Cummins G5.9 engine Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E22 POINT 653715.09 3578509.87 0
SO SRCPARAM 39427E22 .00126 6.1 1005.37 21.68 .1
** NMED source ID=39427EQPT24 Facility's ID=GEN-2
** Description=268 hp PSI 11.1L generator Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E24 POINT 653716.742 3578501.716 0
SO SRCPARAM 39427E24 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=39427EQPT26 Facility's ID=GEN-4
** Description=581 hp PSI 21.9L generator Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E26 POINT 653723.691 3578496.754 0
SO SRCPARAM 39427E26 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=39427EQPT27 Facility's ID=GEN-5
** Description=581 hp PSI 21.9L generator Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E27 POINT 653732.374 3578497.896 0
SO SRCPARAM 39427E27 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=39427EQPT28 Facility's ID=GEN-6
** Description=581 hp PSI 21.9L generator Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E28 POINT 653738.084 3578504.824 0
SO SRCPARAM 39427E28 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=39427EQPT29 Facility's ID=HT-2
** Description=1.0 MMBtu/hr Heater Treater Construction date=23-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E29 VOLUME 653737.519 3578514.005 0
SO SRCPARAM 39427E29 .00126 6.1 .47 .93
** NMED source ID=39427EQPT35 Facility's ID=GEN-3
** Description=581 hp PSI 21.9L generator Construction date=09-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E35 POINT 653730.684 3578520.483 0
SO SRCPARAM 39427E35 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=39427EQPT37 Facility's ID=HT-3
** Description=1.0 MMBtu/hr Heater Treater Construction date=09-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 39427E37 VOLUME 653721.048 3578520.56 0
SO SRCPARAM 39427E37 .00126 6.1 .47 .93
** NMED source ID=39427EQPT42 Facility's ID=GEN-7
** Description=390 hp PSI 14.6L generator Construction date=01-JAN-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E42 POINT 653713.787 3578513.894 0
SO SRCPARAM 39427E42 .0075599 4.51 1023.15 112.53 .1
**********END OF 39427: Marlan East Tank Battery
INFO**********************************
************************************************************
** 20.12km away. Facility ID=40478 Name=Right Meow 30 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9631 NOI
** lat,long,datum=32.281641, -103.720421, NAD83
** Total Particulate Matter (10 microns or less) emissions=.79tons/year
*****************Facility sources: ******************************
** NMED source ID=40478EQPT1 Facility's ID=ENG 1
** Description=Other Construction date=02-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40478E1 POINT 620496.502 3572372.928 0
SO SRCPARAM 40478E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=40478EQPT2 Facility's ID=ENG 2
** Description=Other Construction date=02-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40478E2 POINT 620504.038 3572379.949 0
SO SRCPARAM 40478E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40478: Right Meow 30 Wellpad 1
INFO**********************************
************************************************************
** 20.14km away. Facility ID=30324 Name=Aldabra 25 Fed 6H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4438 NOI
** lat,long,datum=32.26878, -103.72639, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.2tons/year
*****************Facility sources: ******************************
** NMED source ID=30324AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8400hr/yr, 24hr/day
SO LOCATION 30324A1 VOLUME 619951.294 3570940.478 0
SO SRCPARAM 30324A1 1.0898827 10 90 9.3
** NMED source ID=30324EQPT4 Facility's ID=Heater_4747
** Description=Heater_EQ000114747 Construction date=01-JAN-20
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8400hr/yr, 24hr/day
SO LOCATION 30324E4 VOLUME 619958.83 3570947.499 0
SO SRCPARAM 30324E4 .0005796 9.14 .47 .93
**********END OF 30324: Aldabra 25 Fed 6H INFO**********************************
************************************************************
** 20.17km away. Facility ID=38429 Name=Sand Dunes CTB 12
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=8173 NOI
** lat,long,datum=32.22853, -103.737, NAD83
** Total Particulate Matter (10 microns or less) emissions=.6tons/year
*****************Facility sources: ******************************
** NMED source ID=38429EQPT3 Facility's ID=HTR-1
** Description=Heater Treater 4 MMBtu/hr Construction date=29-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7368hr/yr, 20hr/day
SO LOCATION 38429E3 POINT 619004.444 3566466.611 0
SO SRCPARAM 38429E3 .0050399 6.71 533.15 4.51 .46
** NMED source ID=38429EQPT6 Facility's ID=HPS-1
** Description=Heated Production Separator 4 MMBtu/hr Construction date=29-APR-19
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8088hr/yr, 22hr/day
SO LOCATION 38429E6 VOLUME 619011.98 3566473.632 0
SO SRCPARAM 38429E6 .0050399 6.71 .47 .93
** NMED source ID=38429EQPT7 Facility's ID=HTR-2
** Description=Heater Treater 4 MMBtu/hr Construction date=29-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7368hr/yr, 20hr/day
SO LOCATION 38429E7 POINT 619005.194 3566477.184 0
SO SRCPARAM 38429E7 .0050399 6.71 533.15 4.51 .46
** NMED source ID=38429EQPT8 Facility's ID=HPS-2
** Description=Heated Production Separator 4 MMBtu/hr Construction date=29-APR-19
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8088hr/yr, 22hr/day
SO LOCATION 38429E8 VOLUME 618997.597 3566475.092 0
SO SRCPARAM 38429E8 .0050399 6.71 .47 .93
**********END OF 38429: Sand Dunes CTB 12 INFO**********************************
************************************************************
** 20.18km away. Facility ID=37032 Name=Covington A Federal No18 Battery
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=6895 NOI
** lat,long,datum=32.367753, -103.630756, NAD83
** Total Particulate Matter (10 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=37032EQPT1 Facility's ID=HEAT 1
```

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** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37032E1 VOLUME 628818.811 3582023.728 0
SO SRCPARAM 37032E1 .0005796 3.05 .47 .93
** NMED source ID=37032EQPT2 Facility's ID=HEAT 2
** Description=Heater Treater 2 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37032E2 VOLUME 628826.347 3582030.749 0
SO SRCPARAM 37032E2 .0005796 3.05 .47 .93
**********END OF 37032: Covington A Federal No18 Battery
INFO**********************************
************************************************************
** 20.18km away. Facility ID=40112 Name=Bridge State 29 CTB#1
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.356315, -103.396307, WGS84
** Total Particulate Matter (10 microns or less) emissions=.96tons/year
*****************Facility sources: ******************************
** NMED source ID=40112EQPT2 Facility's ID=HT-1
** Description=Heater Treater Burner, 0.75 MMBtu/hr Construction date=25-AUG-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40112E2 VOLUME 650897.132 3581062.079 0
SO SRCPARAM 40112E2 .00126 3.96 .47 .93
** NMED source ID=40112EQPT3 Facility's ID=HT-2
** Description=Heater Treater Burner, 0.75 MMBtu/hr Construction date=25-AUG-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40112E3 VOLUME 650904.668 3581069.1 0
SO SRCPARAM 40112E3 .00126 3.96 .47 .93
** NMED source ID=40112EQPT18 Facility's ID=ENG-1
** Description=Waukesha L5794GSI Construction date=28-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40112E18 POINT 650897.882 3581072.652 0
SO SRCPARAM 40112E18 .0264596 7.32 886.48 20.42 .3
**********END OF 40112: Bridge State 29 CTB#1
INFO**********************************
************************************************************
** 20.23km away. Facility ID=8284 Name=Van Doo Dah 33 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.08244, -103.676132, NAD83
```

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** Total Particulate Matter (10 microns or less) emissions=6.58tons/year
*****************Facility sources: ******************************
** NMED source ID=8284AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=20-NOV-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284A1 VOLUME 624939.276 3550340.414 0
SO SRCPARAM 8284A1 .2784556 10 20 9.3
** NMED source ID=8284EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=20-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E1 POINT 624946.812 3550347.435 0
SO SRCPARAM 8284E1 .0125998 5.85 772.59 37.37 .27
** NMED source ID=8284EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Engine Construction date=20-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E2 POINT 624940.026 3550350.987 0
SO SRCPARAM 8284E2 .0075599 5.85 723.71 34.47 .27
** NMED source ID=8284EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=20-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E3 POINT 624932.429 3550348.895 0
SO SRCPARAM 8284E3 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8284EQPT4 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=20-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E4 POINT 624928.188 3550341.995 0
SO SRCPARAM 8284E4 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8284EQPT5 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=20-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E5 POINT 624929.84 3550333.841 0
SO SRCPARAM 8284E5 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8284EQPT6 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=20-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E6 POINT 624936.789 3550328.879 0
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SO SRCPARAM 8284E6 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8284EQPT9 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=20-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E9 VOLUME 624945.472 3550330.021 0
SO SRCPARAM 8284E9 .0037799 9.14 .47 .93
** NMED source ID=8284EQPT10 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=20-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E10 VOLUME 624951.182 3550336.949 0
SO SRCPARAM 8284E10 .0037799 9.14 .47 .93
**********END OF 8284: Van Doo Dah 33 CTB 3
INFO************************************
************************************************************
** 20.23km away. Facility ID=40183 Name=Falcon Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1859, -103.7367, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.44tons/year
*****************Facility sources: ******************************
** NMED source ID=40183EQPT4 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E4 POINT 619088.258 3561741.075 0
SO SRCPARAM 40183E4 .0214197 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT5 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E5 POINT 619095.794 3561748.096 0
SO SRCPARAM 40183E5 .0214197 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT6 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E6 POINT 619089.008 3561751.648 0
SO SRCPARAM 40183E6 .0214197 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT7 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40183E7 POINT 619081.411 3561749.556 0
SO SRCPARAM 40183E7 .0214197 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT8 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E8 POINT 619077.17 3561742.656 0
SO SRCPARAM 40183E8 .0214197 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT9 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E9 POINT 619078.822 3561734.502 0
SO SRCPARAM 40183E9 .0214197 8.32 729.26 32.22 .55
**********END OF 40183: Falcon Compressor Station
INFO***********************************
************************************************************
** 20.24km away. Facility ID=39522 Name=Cobber 21 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.033372, -103.475663, NAD83
** Total Particulate Matter (10 microns or less) emissions=4.85tons/year
*****************Facility sources: ******************************
** NMED source ID=39522AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=06-MAY-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39522A1 VOLUME 643937.086 3545150.539 0
SO SRCPARAM 39522A1 .2784556 10 20 9.3
** NMED source ID=39522EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39522E1 VOLUME 643944.622 3545157.56 0
SO SRCPARAM 39522E1 .0037799 9.14 .47 .93
** NMED source ID=39522EQPT2 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39522E2 VOLUME 643937.836 3545161.112 0
SO SRCPARAM 39522E2 .0037799 9.14 .47 .93
**********END OF 39522: Cobber 21 CTB 2 INFO***********************************
************************************************************
** 20.27km away. Facility ID=35195 Name=Cotton Draw Unit 167 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
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** SIC=1311 NAIC=21112    Permit=6133 NOI
** lat,long,datum=32.1674, -103.732894, NAD83
** Total Particulate Matter (10 microns or less) emissions=.52tons/year
*****************Facility sources: ****************************
** NMED source ID=35195AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35195A1 VOLUME 619471.223 3559694.435 0
SO SRCPARAM 35195A1 .2784556 10 20 9.3
** NMED source ID=35195EQPT2 Facility's ID=18
** Description=Heater_EQ000135342 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35195E2 VOLUME 619478.759 3559701.456 0
SO SRCPARAM 35195E2 .00126 9.14 .47 .93
** NMED source ID=35195EQPT4 Facility's ID=7
** Description=Heater_EQ000135138 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35195E4 VOLUME 619471.973 3559705.008 0
SO SRCPARAM 35195E4 .0005796 9.14 .47 .93
** NMED source ID=35195EQPT10 Facility's ID=8
** Description=Heater_EQ000135137 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35195E10 VOLUME 619464.376 3559702.916 0
SO SRCPARAM 35195E10 .0005796 9.14 .47 .93
**********END OF 35195: Cotton Draw Unit 167 Battery
INFO***********************************
************************************************************
** 20.28km away. Facility ID=40955 Name=Canvasback 13 Fed 1H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9894 NOI
** lat,long,datum=32.2236, -103.7387, WGS84
** Total Particulate Matter (10 microns or less) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=40955AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=31-MAR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40955A1 VOLUME 618850.669 3565918.199 0
SO SRCPARAM 40955A1 .0005796 1 .47 .93
** NMED source ID=40955EQPT2 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=31-MAR-23
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40955E2 VOLUME 618858.205 3565925.22 0
SO SRCPARAM 40955E2 .00126 6.71 .47 .93
**********END OF 40955: Canvasback 13 Fed 1H Battery
INFO**********************************
************************************************************
** 20.29km away. Facility ID=40751 Name=Mesa Dolphin Battery
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=9765 NOI
** lat,long,datum=32.063833, -103.651528, WGS84
** Total Particulate Matter (10 microns or less) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=40751EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=15-NOV-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40751E3 POINT 627287.234 3548306.462 0
SO SRCPARAM 40751E3 .00126 7.32 533.15 1.46 1.22
**********END OF 40751: Mesa Dolphin Battery
INFO**********************************
************************************************************
** 20.32km away. Facility ID=5051 Name=Cotton Draw Unit 25 CTB 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.193284, -103.738667, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.17tons/year
*****************Facility sources: ****************************
** NMED source ID=5051AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=31-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051A1 VOLUME 618893.219 3562557.47 0
SO SRCPARAM 5051A1 .2784556 10 20 9.3
** NMED source ID=5051EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=31-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051E1 POINT 618900.755 3562564.491 0
SO SRCPARAM 5051E1 .0138598 5.85 772.59 37.4 .27
** NMED source ID=5051EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Engine Construction date=31-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051E2 POINT 618893.969 3562568.043 0
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SO SRCPARAM 5051E2 .0075599 4.39 1000.37 17.38 .26
** NMED source ID=5051EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Engine Construction date=31-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051E3 POINT 618886.372 3562565.951 0
SO SRCPARAM 5051E3 .0075599 4.39 1000.37 17.38 .26
** NMED source ID=5051EQPT6 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=31-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051E6 VOLUME 618882.131 3562559.051 0
SO SRCPARAM 5051E6 .00252 9.14 .47 .93
** NMED source ID=5051EQPT7 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=31-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051E7 VOLUME 618883.783 3562550.897 0
SO SRCPARAM 5051E7 .00252 9.14 .47 .93
**********END OF 5051: Cotton Draw Unit 25 CTB 5
INFO**********************************
************************************************************
** 20.32km away. Facility ID=36592 Name=Stray Cat 8 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6753 NOI
** lat,long,datum=32.312361, -103.703086, NAD83
** Total Particulate Matter (10 microns or less) emissions=.39tons/year
*****************Facility sources: ******************************
** NMED source ID=36592AREA1 Facility's ID=17
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36592A1 VOLUME 622087.843 3575798.153 0
SO SRCPARAM 36592A1 .2784556 10 20 9.3
** NMED source ID=36592EQPT1 Facility's ID=7
** Description=Heater_EQ000060522 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36592E1 VOLUME 622095.379 3575805.174 0
SO SRCPARAM 36592E1 .0005796 9.14 .47 .93
** NMED source ID=36592EQPT2 Facility's ID=24
** Description=Engine_EQ000060548 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
```

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SO LOCATION 36592E2 POINT 622088.593 3575808.726 0
SO SRCPARAM 36592E2 .00252 1.93 1028.15 259.6 .05
**********END OF 36592: Stray Cat 8 Battery
INFO**********************************
************************************************************
** 20.33km away. Facility ID=37926 Name=Hallertau 4 Federal 1H 3H 4H 7H 8H Facility
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.07878, -103.67323, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.5tons/year
*****************Facility sources: ******************************
** NMED source ID=37926AREA1 Facility's ID=HR
** Description=Haul Road Construction date=21-MAR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37926A1 VOLUME 625218.163 3549938.043 0
SO SRCPARAM 37926A1 .1159182 10 10 9.3
** NMED source ID=37926EQPT2 Facility's ID=H1
** Description=2.0 MMBtu/hr Heater Treater Construction date=07-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7636hr/yr, 21hr/day
SO LOCATION 37926E2 VOLUME 625225.699 3549945.064 0
SO SRCPARAM 37926E2 .00126 4.57 .47 .93
** NMED source ID=37926EQPT3 Facility's ID=H2
** Description=2.0 MMBtu/hr Heater Treater Construction date=07-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7636hr/yr, 21hr/day
SO LOCATION 37926E3 VOLUME 625218.913 3549948.616 0
SO SRCPARAM 37926E3 .00126 4.57 .47 .93
** NMED source ID=37926EQPT5 Facility's ID=H3
** Description=2.0 MMBtu/hr Heater Treater Construction date=07-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37926E5 VOLUME 625211.316 3549946.524 0
SO SRCPARAM 37926E5 .00126 4.57 .47 .93
** NMED source ID=37926EQPT7 Facility's ID=FL1
** Description=4.5 MMBtu/hr Flare Construction date=30-JUN-17
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7636hr/yr, 21hr/day
SO LOCATION 37926E7 POINT 625207.075 3549939.624 0
SO SRCPARAM 37926E7 .00126 8.23 1273 20 20.806
** NMED source ID=37926EQPT20 Facility's ID=FL2
** Description=1.3 MMBtu/hr Flare Construction date=20-DEC-17
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=7636hr/yr, 21hr/day
SO LOCATION 37926E20 POINT 625208.727 3549931.47 0
SO SRCPARAM 37926E20 .0002898 12.19 1273 20 20.806
** NMED source ID=37926EQPT22 Facility's ID=ENG5
** Description=Compressor Engine Construction date=21-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37926E22 POINT 625215.676 3549926.508 0
SO SRCPARAM 37926E22 .0138598 6.1 807.04 57.33 .3
** NMED source ID=37926EQPT25 Facility's ID=FL2 SSM
** Description=1.3 MMBtu/hr Flare Construction date=20-AUG-12
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37926E25 POINT 625224.359 3549927.65 0
SO SRCPARAM 37926E25 .0086309 12.19 1273 20 3.604
** NMED source ID=37926RPNT2 Facility's ID=SSM
** Description=Startup, Shutdown, Maintenance Emissions Construction date=07-MAY-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37926R2 VOLUME 625230.069 3549934.578 0
SO SRCPARAM 37926R2 .0005796 1 .47 .93
**********END OF 37926: Hallertau 4 Federal 1H 3H 4H 7H 8H Facility
INFO***********************************
************************************************************
** 20.33km away. Facility ID=38728 Name=El Mar 21 W0DM 2H W1CN  3H W0CN 4H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.034439, -103.581025, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.26tons/year
*****************Facility sources: ******************************
** NMED source ID=38728AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=25-JAN-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728A1 VOLUME 633985.687 3545133.24 0
SO SRCPARAM 38728A1 .0907186 10 10 9.3
** NMED source ID=38728EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=31000312
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E1 POINT 633993.223 3545140.261 0
SO SRCPARAM 38728E1 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38728EQPT5 Facility's ID=HT-01
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38728E5 VOLUME 633986.437 3545143.813 0
SO SRCPARAM 38728E5 .00126 4.57 .47 .93
** NMED source ID=38728EQPT6 Facility's ID=HT-02
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38728E6 VOLUME 633978.84 3545141.721 0
SO SRCPARAM 38728E6 .00126 4.57 .47 .93
** NMED source ID=38728EQPT7 Facility's ID=HT-03
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38728E7 VOLUME 633974.599 3545134.821 0
SO SRCPARAM 38728E7 .00126 4.57 .47 .93
** NMED source ID=38728EQPT27 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=25-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E27 POINT 633976.251 3545126.667 0
SO SRCPARAM 38728E27 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38728EQPT28 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=25-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E28 POINT 633983.2 3545121.705 0
SO SRCPARAM 38728E28 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38728EQPT29 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=25-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E29 POINT 633991.883 3545122.847 0
SO SRCPARAM 38728E29 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38728EQPT30 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=25-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E30 POINT 633997.593 3545129.775 0
SO SRCPARAM 38728E30 .0176397 6.1 706.48 43.31 .41
** NMED source ID=38728EQPT31 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=25-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E31 POINT 633997.028 3545138.956 0
SO SRCPARAM 38728E31 .0138598 7.16 819.82 33.86 .41
** NMED source ID=38728EQPT32 Facility's ID=ENG-07
** Description=Compressor Engine Construction date=25-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E32 POINT 633990.193 3545145.434 0
SO SRCPARAM 38728E32 .0075599 6.17 695.37 37.61 .25
** NMED source ID=38728EQPT33 Facility's ID=HT-04
** Description=Heater Treater Construction date=25-JAN-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E33 VOLUME 633980.557 3545145.511 0
SO SRCPARAM 38728E33 .00126 4.57 .47 .93
** NMED source ID=38728EQPT34 Facility's ID=HT-05
** Description=Heater Treater Construction date=25-JAN-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E34 VOLUME 633973.296 3545138.845 0
SO SRCPARAM 38728E34 .00126 4.57 .47 .93
** NMED source ID=38728EQPT35 Facility's ID=HT-06
** Description=Heater Treater Construction date=25-JAN-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E35 VOLUME 633972.516 3545128.799 0
SO SRCPARAM 38728E35 .00126 4.57 .47 .93
**********END OF 38728: El Mar 21 W0DM 2H W1CN  3H W0CN 4H Battery
INFO************************************
************************************************************
** 20.34km away. Facility ID=38789 Name=Cave Lion 26-35-5 Fed 2H 6H 8H 9H 12H 15H
CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.065875, -103.392078, NAD83
** Total Particulate Matter (10 microns or less) emissions=.61tons/year
*****************Facility sources: ****************************
** NMED source ID=38789AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=10-OCT-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38789A1 VOLUME 651776.9 3548868.376 0
SO SRCPARAM 38789A1 .0037799 1 .47 .93
** NMED source ID=38789EQPT5 Facility's ID=HTR-1
** Description=1.0 MMBtu/hr heater treater 1 Construction date=10-OCT-19
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38789E5 VOLUME 651784.436 3548875.397 0
SO SRCPARAM 38789E5 .00126 4.6 .47 .93
** NMED source ID=38789EQPT6 Facility's ID=HTR-2
** Description=1.0 MMBtu/hr heater treater 2 Construction date=10-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38789E6 VOLUME 651777.65 3548878.949 0
SO SRCPARAM 38789E6 .00126 4.6 .47 .93
** NMED source ID=38789EQPT8 Facility's ID=ENG-1
** Description=690 hp CAT G3508B RICE Construction date=10-OCT-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8052hr/yr, 24hr/day
SO LOCATION 38789E8 POINT 651770.053 3548876.857 0
SO SRCPARAM 38789E8 .0075599 4.88 825.37 27.85 .3
** NMED source ID=38789EQPT12 Facility's ID=GEN-3
** Description=removed-390 hp Doosan D146L generator Construction date=10-OCT-19
** SCC=20200253
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=7858hr/yr, 24hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 38789E12 POINT 651765.812 3548869.957 0
SO SRCPARAM 38789E12 -.0037421 3.24 744.26 144.17 .09
** NMED source ID=38789EQPT14 Facility's ID=ENG-3
** Description=Compressor Engine, Caterpillar G3306 TA Construction date=17-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38789E14 POINT 651767.464 3548861.803 0
SO SRCPARAM 38789E14 .00252 2.99 846.48 39.21 .12
** NMED source ID=38789EQPT30 Facility's ID=ENG-4
** Description=Compressor Engine, Caterpillar G3306 TA Construction date=19-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38789E30 POINT 651774.413 3548856.841 0
SO SRCPARAM 38789E30 .00252 2.99 846.48 39.21 .12
** NMED source ID=38789EQPT31 Facility's ID=ENG-5
** Description=Compressor Engine, Caterpillar G3306 TA Construction date=19-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38789E31 POINT 651783.096 3548857.983 0
SO SRCPARAM 38789E31 .00252 2.99 846.48 39.21 .12
**********END OF 38789: Cave Lion 26-35-5 Fed 2H 6H 8H 9H 12H 15H CTB
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INFO**********************************
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** 20.36km away. Facility ID=38171 Name=Chili Parlor 17 Federal Com No2H 3H Tank
Battery
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3852, -103.588194, NAD83
** Total Particulate Matter (10 microns or less) emissions=.21tons/year
*****************Facility sources: ******************************
** NMED source ID=38171AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=07-DEC-17
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38171A1 VOLUME 632797.872 3584010.005 0
SO SRCPARAM 38171A1 .0062999 1 .47 .93
** NMED source ID=38171EQPT6 Facility's ID=HTR-01
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38171E6 VOLUME 632805.408 3584017.026 0
SO SRCPARAM 38171E6 .0002898 4.57 .47 .93
** NMED source ID=38171EQPT7 Facility's ID=HTR-02
** Description=Heater Treater 2 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 14hr/day
SO LOCATION 38171E7 VOLUME 632798.622 3584020.578 0
SO SRCPARAM 38171E7 .0002898 4.57 .47 .93
**********END OF 38171: Chili Parlor 17 Federal Com No2H 3H Tank Battery
INFO**********************************
************************************************************
** 20.37km away. Facility ID=8008 Name=Comanche Peak Compressor Station
** Company ID=13928 Name=Pinon Midstream LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.162344, -103.3153, WGS84
** Total Particulate Matter (10 microns or less) emissions=8.36tons/year
*****************Facility sources: ******************************
** NMED source ID=8008EQPT1 Facility's ID=ENG-1
** Description=2,500 bhp Compressor Engine 1 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E1 POINT 658857.893 3559674.053 0
SO SRCPARAM 8008E1 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT2 Facility's ID=ENG-2
** Description=2,500 bhp Compressor Engine 2 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E2 POINT 658865.429 3559681.074 0
SO SRCPARAM 8008E2 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT3 Facility's ID=ENG-3
** Description=2,500 bhp Compressor Engine 3 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E3 POINT 658858.643 3559684.626 0
SO SRCPARAM 8008E3 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT4 Facility's ID=ENG-4
** Description=2,500 bhp Compressor Engine 4 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E4 POINT 658851.046 3559682.534 0
SO SRCPARAM 8008E4 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT5 Facility's ID=ENG-5
** Description=2,500 bhp Compressor Engine 5 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E5 POINT 658846.805 3559675.634 0
SO SRCPARAM 8008E5 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT6 Facility's ID=ENG-6
** Description=2,500 bhp Compressor Engine 6 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E6 POINT 658848.457 3559667.48 0
SO SRCPARAM 8008E6 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT7 Facility's ID=ENG-7
** Description=2,500 bhp Compressor Engine 7 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E7 POINT 658855.406 3559662.518 0
SO SRCPARAM 8008E7 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT8 Facility's ID=ENG-8
** Description=2,500 bhp Compressor Engine 8 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E8 POINT 658864.089 3559663.66 0
SO SRCPARAM 8008E8 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT9 Facility's ID=ENG-9
** Description=2,500 bhp Compressor Engine 9 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 8008E9 POINT 658869.799 3559670.588 0
SO SRCPARAM 8008E9 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT10 Facility's ID=ENG-10
** Description=2,500 bhp Compressor Engine 10 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E10 POINT 658869.234 3559679.769 0
SO SRCPARAM 8008E10 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT12 Facility's ID=GEN-1
** Description=447 bhp Turbine 1 Construction date=18-OCT-23
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E12 POINT 658862.399 3559686.247 0
SO SRCPARAM 8008E12 .0005796 6.1 540.37 45.29 .61
** NMED source ID=8008EQPT13 Facility's ID=GEN-2
** Description=447 bhp Turbine 2 Construction date=18-OCT-23
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E13 POINT 658852.763 3559686.324 0
SO SRCPARAM 8008E13 .0005796 6.1 540.37 45.29 .61
** NMED source ID=8008EQPT14 Facility's ID=GEN-3
** Description=447 bhp Turbine 3 Construction date=18-OCT-23
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E14 POINT 658845.502 3559679.658 0
SO SRCPARAM 8008E14 .0005796 6.1 540.37 45.29 .61
**********END OF 8008: Comanche Peak Compressor Station
INFO**********************************
************************************************************
** 20.37km away. Facility ID=38228 Name=Vast Gas Lift Station
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7639 NOI
** lat,long,datum=32.036492, -103.590553, WGS84
** Total Particulate Matter (10 microns or less) emissions=.54tons/year
*****************Facility sources: ****************************
** NMED source ID=38228AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=21-MAR-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38228A1 VOLUME 633082.962 3545349.049 0
SO SRCPARAM 38228A1 .0005796 1 .47 .93
** NMED source ID=38228EQPT1 Facility's ID=ENG-01
** Description=Caterpillar CG137 Construction date=21-MAR-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38228E1 POINT 633090.498 3545356.07 0
SO SRCPARAM 38228E1 .0075599 5.11 790.93 22.8 .2
** NMED source ID=38228EQPT2 Facility's ID=ENG-02
** Description=Caterpillar CG137 Engine Construction date=21-MAR-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38228E2 POINT 633083.712 3545359.622 0
SO SRCPARAM 38228E2 .0075599 5.11 790.93 22.8 .2
**********END OF 38228: Vast Gas Lift Station
INFO**********************************
************************************************************
** 20.38km away. Facility ID=28217 Name=Red Tank 26 Federal No 1 Tank Battery
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=3944 NOI
** lat,long,datum=32.360556, -103.648056, NAD83
** Total Particulate Matter (10 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=28217AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Road Construction date=07-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 28217A1 VOLUME 627201.172 3581205.157 0
SO SRCPARAM 28217A1 .0002898 1 .47 .93
** NMED source ID=28217EQPT10 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8052hr/yr, 24hr/day
SO LOCATION 28217E10 VOLUME 627208.708 3581212.178 0
SO SRCPARAM 28217E10 .0005796 3.66 .47 .93
**********END OF 28217: Red Tank 26 Federal No 1 Tank Battery
INFO**********************************
************************************************************
** 20.48km away. Facility ID=27536 Name=Cotton Draw Unit No 90
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=3787 NOI
** lat,long,datum=32.178833, -103.738056, NAD83
** Total Particulate Matter (10 microns or less) emissions=.82tons/year
*****************Facility sources: ****************************
** NMED source ID=27536AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8736hr/yr, 24hr/day
SO LOCATION 27536A1 VOLUME 618969.614 3560956.145 0
SO SRCPARAM 27536A1 .2784556 10 20 9.3
** NMED source ID=27536EQPT14 Facility's ID=HT-1
```

```
** Description=Heater_EQ000054287 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 27536E14 VOLUME 618977.15 3560963.166 0
SO SRCPARAM 27536E14 .0005796 9.14 .47 .93
**********END OF 27536: Cotton Draw Unit No 90
INFO**********************************
************************************************************
** 20.49km away. Facility ID=39888 Name=Zach 17 8 W1MD Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.037725, -103.598719, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.3tons/year
*****************Facility sources: ****************************
** NMED source ID=39888AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=10-JAN-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888A1 VOLUME 632310.07 3545475.701 0
SO SRCPARAM 39888A1 .0907186 10 10 9.3
** NMED source ID=39888EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=11-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E1 POINT 632317.606 3545482.722 0
SO SRCPARAM 39888E1 .0075599 6.19 695.37 37.61 .25
** NMED source ID=39888EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=10-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E2 POINT 632310.82 3545486.274 0
SO SRCPARAM 39888E2 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39888EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=10-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E3 POINT 632303.223 3545484.182 0
SO SRCPARAM 39888E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39888EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=10-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E4 POINT 632298.982 3545477.282 0
SO SRCPARAM 39888E4 .0050399 4.11 894.82 36.52 .13
```

```
** NMED source ID=39888EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=10-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E5 POINT 632300.634 3545469.128 0
SO SRCPARAM 39888E5 .0075599 4.57 778.71 13.94 .26
** NMED source ID=39888EQPT9 Facility's ID=HT-01
** Description=Heater Treater Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E9 POINT 632307.583 3545464.166 0
SO SRCPARAM 39888E9 .00126 4.57 533.15 3.93 .46
** NMED source ID=39888EQPT10 Facility's ID=HT-02
** Description=Heater Treater Construction date=10-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E10 POINT 632316.266 3545465.308 0
SO SRCPARAM 39888E10 .00126 4.57 533.15 3.93 .46
** NMED source ID=39888EQPT11 Facility's ID=HT-03
** Description=Heater Treater Construction date=10-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E11 POINT 632321.976 3545472.236 0
SO SRCPARAM 39888E11 .00126 4.57 533.15 3.93 .46
** NMED source ID=39888EQPT41 Facility's ID=HT-04
** Description=Heater Treater Construction date=20-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E41 POINT 632321.411 3545481.417 0
SO SRCPARAM 39888E41 .00126 4.57 533.15 3.93 .46
** NMED source ID=39888EQPT42 Facility's ID=HT-05
** Description=Heater Treater Construction date=20-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E42 POINT 632314.576 3545487.895 0
SO SRCPARAM 39888E42 .00126 4.57 533.15 3.93 .46
** NMED source ID=39888EQPT43 Facility's ID=HT-06
** Description=Heater Treater Construction date=20-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E43 POINT 632304.94 3545487.972 0
SO SRCPARAM 39888E43 .00126 4.57 533.15 3.93 .46
** NMED source ID=39888EQPT44 Facility's ID=HT-07
```

```
** Description=Heater Treater Construction date=20-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E44 POINT 632297.679 3545481.306 0
SO SRCPARAM 39888E44 .00126 4.57 533.15 3.93 .46
**********END OF 39888: Zach 17 8 W1MD Fed Com 1H Battery
INFO**********************************
************************************************************
** 20.51km away. Facility ID=29609 Name=Todd 36 State 20 H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4258 NOI
** lat,long,datum=32.268289, -103.730716, NAD83
** Total Particulate Matter (10 microns or less) emissions=.46tons/year
*****************Facility sources: ****************************
** NMED source ID=29609AREA1 Facility's ID=HR-1
** Description=Haul Roads Construction date=06-FEB-19
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29609A1 VOLUME 619544.477 3570881.218 0
SO SRCPARAM 29609A1 1.0898827 10 90 9.3
** NMED source ID=29609EQPT10 Facility's ID=Heater_4725
** Description=Heater_EQ000014725 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7680hr/yr, 24hr/day
SO LOCATION 29609E10 VOLUME 619552.013 3570888.239 0
SO SRCPARAM 29609E10 .0005796 9.14 .47 .93
**********END OF 29609: Todd 36 State 20 H INFO**********************************
************************************************************
** 20.55km away. Facility ID=40208 Name=EOG - Jefe 29 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0979, -103.6966, WGS84
** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=40208EQPT1 Facility's ID=HTR-1
** Description=Heater Treater, 1.5 MMBtu/hr Construction date=19-OCT-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40208E1 VOLUME 622986.757 3552030.728 0
SO SRCPARAM 40208E1 .0014364 4.88 .47 .93
**********END OF 40208: EOG - Jefe 29 Fed Com CTB
INFO**********************************
************************************************************
** 20.56km away. Facility ID=38360 Name=Tour Bus 23 State No301H No502H No601H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
```

```
** lat,long,datum=32.383781, -103.448242, WGS84
** Total Particulate Matter (10 microns or less) emissions=.86tons/year
*****************Facility sources: ****************************
** NMED source ID=38360AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Roads Construction date=21-SEP-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38360A1 VOLUME 645965.697 3584035.094 0
SO SRCPARAM 38360A1 .1146582 10 10 9.3
** NMED source ID=38360EQPT1 Facility's ID=HT-1
** Description=Separator Heater Construction date=21-SEP-20
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 38360E1 POINT 645973.233 3584042.115 0
SO SRCPARAM 38360E1 .0005796 6.4 588.71 2.28 .3
** NMED source ID=38360EQPT2 Facility's ID=HT-2
** Description=Separator Heater Construction date=21-SEP-20
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 38360E2 POINT 645966.447 3584045.667 0
SO SRCPARAM 38360E2 .0005796 6.4 588.71 2.28 .3
** NMED source ID=38360EQPT3 Facility's ID=HT-3
** Description=Separator Heater Construction date=21-SEP-20
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 38360E3 POINT 645958.85 3584043.575 0
SO SRCPARAM 38360E3 .0005796 6.4 588.71 2.28 .3
** NMED source ID=38360EQPT21 Facility's ID=ENG-1
** Description=Gas Lift Engine Construction date=12-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38360E21 POINT 645954.609 3584036.675 0
SO SRCPARAM 38360E21 .0125998 2.44 834.26 37.16 .2
**********END OF 38360: Tour Bus 23 State No301H No502H No601H
INFO*************************************
************************************************************
** 20.59km away. Facility ID=39519 Name=Tin Foil Federal 23 N CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8797 NOI
** lat,long,datum=32.1113, -103.3395, WGS84
** Total Particulate Matter (10 microns or less) emissions=.07tons/year
*****************Facility sources: ****************************
** NMED source ID=39519AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=15-NOV-23
** SCC=31088811
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39519A1 VOLUME 656662.952 3553979.574 0
SO SRCPARAM 39519A1 .0088199 1 .47 .93
** NMED source ID=39519EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39519E4 VOLUME 656670.488 3553986.595 0
SO SRCPARAM 39519E4 .00126 4.57 .47 .93
**********END OF 39519: Tin Foil Federal 23 N CTB
INFO**********************************
************************************************************
** 20.62km away. Facility ID=41036 Name=Red Tank 26 CPF
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=9950 NOI
** lat,long,datum=32.3662, -103.642697, WGS84
** Total Particulate Matter (10 microns or less) emissions=.34tons/year
*****************Facility sources: ******************************
** NMED source ID=41036EQPT2 Facility's ID=HTR-1
** Description=Line Heater Construction date=12-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41036E2 POINT 627697.492 3581837.245 0
SO SRCPARAM 41036E2 .0050399 3.05 310.93 2.25 .15
** NMED source ID=41036EQPT3 Facility's ID=HTR-2
** Description=Line Heater Construction date=12-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41036E3 POINT 627705.028 3581844.266 0
SO SRCPARAM 41036E3 .0050399 3.05 310.93 2.25 .15
**********END OF 41036: Red Tank 26 CPF INFO**********************************
************************************************************
** 20.66km away. Facility ID=6934 Name=Bluehound Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.379834, -103.433963, WGS84
** Total Particulate Matter (10 microns or less) emissions=6.41tons/year
*****************Facility sources: ******************************
** NMED source ID=6934ACT 1 Facility's ID=HAUL
** Description=Unpaved Haul Roads Construction date=03-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934@1 VOLUME 647315.397 3583617.082 0
SO SRCPARAM 6934@1 .1146582 10 10 9.3
** NMED source ID=6934EQPT1 Facility's ID=C-01
```

```
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E1 POINT 647322.933 3583624.103 0
SO SRCPARAM 6934E1 .0277196 6.71 728.15 24.75 .41
** NMED source ID=6934EQPT2 Facility's ID=C-02
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E2 POINT 647316.147 3583627.655 0
SO SRCPARAM 6934E2 .0277196 6.71 728.15 24.75 .41
** NMED source ID=6934EQPT3 Facility's ID=C-03
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E3 POINT 647308.55 3583625.563 0
SO SRCPARAM 6934E3 .0176397 6.71 695.93 26.58 .51
** NMED source ID=6934EQPT4 Facility's ID=C-04
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E4 POINT 647304.309 3583618.663 0
SO SRCPARAM 6934E4 .0176397 6.71 695.93 26.58 .51
** NMED source ID=6934EQPT5 Facility's ID=C-05
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E5 POINT 647305.961 3583610.509 0
SO SRCPARAM 6934E5 .0239396 6.71 686.48 24.93 .61
** NMED source ID=6934EQPT6 Facility's ID=C-06
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E6 POINT 647312.91 3583605.547 0
SO SRCPARAM 6934E6 .0239396 6.71 686.48 24.93 .61
** NMED source ID=6934EQPT7 Facility's ID=C-07
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E7 POINT 647321.593 3583606.689 0
SO SRCPARAM 6934E7 .0176397 6.71 695.93 26.58 .51
** NMED source ID=6934EQPT8 Facility's ID=C-08
** Description=Compressor Engine Construction date=03-JAN-24
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E8 POINT 647327.303 3583613.617 0
SO SRCPARAM 6934E8 .0176397 6.71 695.93 26.58 .51
** NMED source ID=6934EQPT13 Facility's ID=FL-LP
** Description=Low Pressure Side of Process Flare Construction date=03-JAN-24
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E13 POINT 647326.738 3583622.798 0
SO SRCPARAM 6934E13 .0201597 9.14 1273 20 4.652
** NMED source ID=6934EQPT14 Facility's ID=GEN-1
** Description=Generator Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E14 POINT 647319.903 3583629.276 0
SO SRCPARAM 6934E14 .00126 1.8 922.04 21.88 .15
** NMED source ID=6934EQPT16 Facility's ID=REB-1
** Description=Reboiler Construction date=03-JAN-24
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E16 POINT 647310.267 3583629.353 0
SO SRCPARAM 6934E16 .00126 3.05 588.71 .63 .61
** NMED source ID=6934EQPT17 Facility's ID=REB-2
** Description=Reboiler Construction date=03-JAN-24
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E17 POINT 647303.006 3583622.687 0
SO SRCPARAM 6934E17 .00126 3.05 588.71 .32 .61
**********END OF 6934: Bluehound Compressor Station
INFO**********************************
************************************************************
** 20.71km away. Facility ID=39193 Name=Devon - Todd 36 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257628, -103.73671, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.03tons/year
*****************Facility sources: ****************************
** NMED source ID=39193AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=16-OCT-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39193A1 VOLUME 618993.819 3569692.691 0
SO SRCPARAM 39193A1 .0176397 1 .47 .93
** NMED source ID=39193EQPT1 Facility's ID=HT-1
```

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** Description=Heater Treater 1 Construction date=16-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39193E1 VOLUME 619001.355 3569699.712 0
SO SRCPARAM 39193E1 .0037799 9.14 .47 .93
** NMED source ID=39193EQPT2 Facility's ID=GEN 1
** Description=Generator 1 Construction date=16-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39193E2 POINT 618994.569 3569703.264 0
SO SRCPARAM 39193E2 .0100798 2.99 1005.37 215.25 .09
** NMED source ID=39193EQPT3 Facility's ID=GEN-2
** Description=Generator 2 Construction date=16-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39193E3 POINT 618986.972 3569701.172 0
SO SRCPARAM 39193E3 .0075599 2.99 1005.37 136.18 .09
** NMED source ID=39193EQPT4 Facility's ID=LPC-1
** Description=Low Pressure Compressor Construction date=16-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39193E4 POINT 618982.731 3569694.272 0
SO SRCPARAM 39193E4 .00252 2.99 922.04 67.27 .09
** NMED source ID=39193EQPT5 Facility's ID=LPC-2
** Description=Low Pressure Compressor Construction date=16-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39193E5 POINT 618984.383 3569686.118 0
SO SRCPARAM 39193E5 .0037799 2.99 919.82 51.42 .09
**********END OF 39193: Devon - Todd 36 CTB 1
INFO**********************************
************************************************************
** 20.72km away. Facility ID=8128 Name=Van Doo Dah 33 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.082077, -103.682897, NAD83
** Total Particulate Matter (10 microns or less) emissions=6.15tons/year
*****************Facility sources: ****************************
** NMED source ID=8128AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=26-OCT-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128A1 VOLUME 624301.275 3550292.355 0
SO SRCPARAM 8128A1 .2784556 10 20 9.3
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** NMED source ID=8128EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engine Construction date=26-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E1 POINT 624308.811 3550299.376 0
SO SRCPARAM 8128E1 .0125998 5.85 772.59 37.4 .27
** NMED source ID=8128EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Gas Lift Engine Construction date=26-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E2 POINT 624302.025 3550302.928 0
SO SRCPARAM 8128E2 .0075599 3.51 1000.37 71.17 .13
** NMED source ID=8128EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=26-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E3 POINT 624294.428 3550300.836 0
SO SRCPARAM 8128E3 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8128EQPT4 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=26-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E4 POINT 624290.187 3550293.936 0
SO SRCPARAM 8128E4 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8128EQPT5 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=26-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E5 POINT 624291.839 3550285.782 0
SO SRCPARAM 8128E5 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8128EQPT6 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=26-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E6 POINT 624298.788 3550280.82 0
SO SRCPARAM 8128E6 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8128EQPT9 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=26-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E9 VOLUME 624307.471 3550281.962 0
SO SRCPARAM 8128E9 .0037799 9.14 .47 .93
** NMED source ID=8128EQPT10 Facility's ID=HT-2
```

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** Description=Heater Treater 2 Construction date=26-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E10 VOLUME 624313.181 3550288.89 0
SO SRCPARAM 8128E10 .0037799 9.14 .47 .93
**********END OF 8128: Van Doo Dah 33 CTB 2
INFO**********************************
************************************************************
** 20.74km away. Facility ID=36171 Name=COG - Bufflehead 10 Fed 1H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6580 NOI
** lat,long,datum=32.064067, -103.659894, WGS84
** Total Particulate Matter (10 microns or less) emissions=1tons/year
*****************Facility sources: ****************************
** NMED source ID=36171AREA1 Facility's ID=HR-1
** Description=900 ft Haul Roads, 17.8 trucks/d Construction date=15-SEP-15
** SCC=31000102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36171A1 VOLUME 626497.15 3548322.564 0
SO SRCPARAM 36171A1 .0287653 1 .47 .93
**********END OF 36171: COG - Bufflehead 10 Fed 1H Battery
INFO**********************************
************************************************************
** 20.75km away. Facility ID=39717 Name=Caza - Lennox 32 State Nos 9H 10H and 34
State No 1H Facility
** Company ID=13636 Name=Caza Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.355205, -103.384814, WGS84
** Total Particulate Matter (10 microns or less) emissions=.15tons/year
*****************Facility sources: ****************************
** NMED source ID=39717RPNT6 Facility's ID=HR-1
** Description=Haul road - water Construction date=17-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39717R6 VOLUME 651980.528 3580955.279 0
SO SRCPARAM 39717R6 .2658558 10 20 9.3
**********END OF 39717: Caza - Lennox 32 State Nos 9H 10H and 34 State No 1H
Facility INFO**********************************
************************************************************
** 20.77km away. Facility ID=38407 Name=EOG - Peachtree 24 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.024, -103.526, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.38tons/year
*****************Facility sources: ****************************
** NMED source ID=38407EQPT2 Facility's ID=HTR-1
** Description=Heater 0.75 MM Btu/hr Construction date=19-MAR-19
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38407E2 POINT 639197.672 3544045.579 0
SO SRCPARAM 38407E2 .00126 5.18 588.71 3.41 .3
** NMED source ID=38407EQPT3 Facility's ID=HTR-2
** Description=Heater 1.5 MM Btu/hr Construction date=19-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38407E3 POINT 639205.208 3544052.6 0
SO SRCPARAM 38407E3 .00126 5.18 588.71 6.83 .3
** NMED source ID=38407RPNT2 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=19-MAR-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38407R2 VOLUME 639198.422 3544056.152 0
SO SRCPARAM 38407R2 .0466193 1 .47 .93
**********END OF 38407: EOG - Peachtree 24 Fed Com CTB
INFO**********************************
************************************************************
** 20.77km away. Facility ID=38151 Name=Tour Bus 23 State 503H and 504H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.383889, -103.442222, NAD83
** Total Particulate Matter (10 microns or less) emissions=.32tons/year
*****************Facility sources: ****************************
** NMED source ID=38151EQPT8 Facility's ID=ENG-1
** Description=Caterpillar 3306B Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38151E8 POINT 646531.852 3584055.3 0
SO SRCPARAM 38151E8 .0037799 3.66 884.82 36.12 .13
** NMED source ID=38151EQPT10 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38151E10 POINT 646539.388 3584062.321 0
SO SRCPARAM 38151E10 .0005796 6.1 810.93 2.26 .3
** NMED source ID=38151EQPT11 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38151E11 POINT 646532.602 3584065.873 0
SO SRCPARAM 38151E11 .0005796 6.1 810.93 2.26 .3
** NMED source ID=38151EQPT24 Facility's ID=ENG-2
```

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** Description=Caterpillar G3406NA Construction date=21-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38151E24 POINT 646525.005 3584063.781 0
SO SRCPARAM 38151E24 .0037799 3.66 885.93 105.77 .08
**********END OF 38151: Tour Bus 23 State 503H and 504H
INFO**********************************
************************************************************
** 20.77km away. Facility ID=35012 Name=Renegade BPG Fed 1 H Battery
** Company ID=14107 Name=Earthstone Operating LLC
** SIC=1311 NAIC=21112    Permit=6076 NOI
** lat,long,datum=32.048723, -103.414274, NAD83
** Total Particulate Matter (10 microns or less) emissions=.1tons/year
*****************Facility sources: ****************************
** NMED source ID=35012AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1656hr/yr, 24hr/day
SO LOCATION 35012A1 VOLUME 649709.451 3546935.857 0
SO SRCPARAM 35012A1 .0327595 1 .47 .93
** NMED source ID=35012EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1656hr/yr, 24hr/day
SO LOCATION 35012E1 VOLUME 649716.987 3546942.878 0
SO SRCPARAM 35012E1 .00126 7.62 .47 .93
**********END OF 35012: Renegade BPG Fed 1 H Battery
INFO**********************************
************************************************************
** 20.83km away. Facility ID=29195 Name=Dinwiddie 23 Federal NO1
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=4186 NOI
** lat,long,datum=32.119106, -103.330997, NAD83
** Total Particulate Matter (10 microns or less) emissions=.7tons/year
*****************Facility sources: ****************************
** NMED source ID=29195EQPT5 Facility's ID=Unit 4
** Description=one of 3 gen sets - Cat300, Cat230 or MQ150 Construction
date=14-APR-10
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29195E5 POINT 657451.877 3554857.382 0
SO SRCPARAM 29195E5 .0201345 3.72 733.15 77.42 .08
**********END OF 29195: Dinwiddie 23 Federal NO1
INFO**********************************
************************************************************
** 20.86km away. Facility ID=38418 Name=Sand Dunes CS 11
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** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.227111, -103.744527, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.65tons/year
*****************Facility sources: ****************************
** NMED source ID=38418EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=13-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5669hr/yr, 16hr/day
SO LOCATION 38418E4 POINT 618297.011 3566300.989 0
SO SRCPARAM 38418E4 .0251996 6.1 718.71 25.73 .61
** NMED source ID=38418EQPT5 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=13-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6206hr/yr, 17hr/day
SO LOCATION 38418E5 POINT 618304.547 3566308.01 0
SO SRCPARAM 38418E5 .0251996 6.1 718.71 25.73 .61
** NMED source ID=38418EQPT6 Facility's ID=REB-1
** Description=TEG Reboiler Construction date=13-FEB-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=768hr/yr, 2hr/day
SO LOCATION 38418E6 POINT 618297.761 3566311.562 0
SO SRCPARAM 38418E6 .00126 5.79 533.15 .08 .46
** NMED source ID=38418EQPT12 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38418E12 POINT 618290.164 3566309.47 0
SO SRCPARAM 38418E12 .0163797 6.1 702.04 75.59 .3
** NMED source ID=38418EQPT13 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38418E13 POINT 618285.923 3566302.57 0
SO SRCPARAM 38418E13 .0163797 6.1 702.04 75.59 .3
** NMED source ID=38418EQPT14 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=13-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38418E14 POINT 618287.575 3566294.416 0
SO SRCPARAM 38418E14 .0251996 6.1 718.71 25.73 .61
**********END OF 38418: Sand Dunes CS 11 INFO**************************************
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** 20.9km away. Facility ID=40263 Name=Cabra Nino 14 & 14-11 Battery
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** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.38608, -103.445138, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.23tons/year
*****************Facility sources: ****************************
** NMED source ID=40263AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=16-AUG-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263A1 VOLUME 646253.999 3584294.217 0
SO SRCPARAM 40263A1 .0907186 10 10 9.3
** NMED source ID=40263EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=30-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E1 POINT 646261.535 3584301.238 0
SO SRCPARAM 40263E1 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40263EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=30-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E2 POINT 646254.749 3584304.79 0
SO SRCPARAM 40263E2 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40263EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=30-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E3 POINT 646247.152 3584302.698 0
SO SRCPARAM 40263E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40263EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=30-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E4 POINT 646242.911 3584295.798 0
SO SRCPARAM 40263E4 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40263EQPT6 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=30-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E6 POINT 646244.563 3584287.644 0
SO SRCPARAM 40263E6 .0075599 6.17 695.37 37.61 .25
** NMED source ID=40263EQPT7 Facility's ID=HT-01
** Description=Heater Treater Construction date=30-DEC-21
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E7 VOLUME 646251.512 3584282.682 0
SO SRCPARAM 40263E7 .00126 4.57 .47 .93
** NMED source ID=40263EQPT8 Facility's ID=HT-02
** Description=Heater Treater Construction date=30-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E8 VOLUME 646260.195 3584283.824 0
SO SRCPARAM 40263E8 .00126 4.57 .47 .93
** NMED source ID=40263EQPT9 Facility's ID=HT-03
** Description=Heater Treater Construction date=30-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E9 VOLUME 646265.905 3584290.752 0
SO SRCPARAM 40263E9 .00126 4.57 .47 .93
** NMED source ID=40263EQPT10 Facility's ID=HT-04
** Description=Heater Treater Construction date=30-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E10 VOLUME 646265.34 3584299.933 0
SO SRCPARAM 40263E10 .00252 4.57 .47 .93
** NMED source ID=40263EQPT30 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=16-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E30 POINT 646258.505 3584306.411 0
SO SRCPARAM 40263E30 .0050399 4.11 894.82 36.52 .13
**********END OF 40263: Cabra Nino 14 & 14-11 Battery
INFO**********************************
************************************************************
** 20.91km away. Facility ID=39482 Name=Devon- Boundary Raider 7 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.314024, -103.709312, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.1tons/year
*****************Facility sources: ****************************
** NMED source ID=39482AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=09-APR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2568hr/yr, 24hr/day
SO LOCATION 39482A1 VOLUME 621499.482 3575975.437 0
SO SRCPARAM 39482A1 .2771956 10 20 9.3
**********END OF 39482: Devon- Boundary Raider 7 CTB 2
INFO**********************************
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** 20.92km away. Facility ID=38609 Name=Caza - Lennox 33 State No6H Production
** Company ID=13636 Name=Caza Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.355, -103.381667, NAD83
** Total Particulate Matter (10 microns or less) emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=38609RPNT1 Facility's ID=HR-1
** Description=Haul road - Oil Construction date=20-SEP-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38609R1 VOLUME 652277.022 3580937.025 0
SO SRCPARAM 38609R1 .2658558 10 20 9.3
** NMED source ID=38609RPNT2 Facility's ID=HR-2
** Description=Haul road - Produced Water Construction date=20-SEP-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38609R2 VOLUME 652284.558 3580944.046 0
SO SRCPARAM 38609R2 .2658558 10 20 9.3
**********END OF 38609: Caza - Lennox 33 State No6H Production
INFO**********************************
**************************************************************
** 20.93km away. Facility ID=39001 Name=Bonnyman Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.31725, -103.706917, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.1tons/year
*****************Facility sources: ******************************
** NMED source ID=39001EQPT1 Facility's ID=ENG-1
** Description=Engine CAT G3516B 1,380-hp Construction date=12-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7875hr/yr, 24hr/day
SO LOCATION 39001E1 POINT 621720.637 3576335.79 0
SO SRCPARAM 39001E1 .0138598 7.32 809.82 36.76 .38
** NMED source ID=39001EQPT3 Facility's ID=ENG-2
** Description=Engine CAT G3516B 1,380-hp Construction date=12-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8413hr/yr, 24hr/day
SO LOCATION 39001E3 POINT 621728.173 3576342.811 0
SO SRCPARAM 39001E3 .0138598 7.32 809.82 36.76 .38
** NMED source ID=39001EQPT4 Facility's ID=ENG-3
** Description=Engine CAT G3516B 1,380-hp Construction date=12-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8320hr/yr, 24hr/day
SO LOCATION 39001E4 POINT 621721.387 3576346.363 0
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SO SRCPARAM 39001E4 .0138598 7.32 809.82 36.76 .38
** NMED source ID=39001EQPT11 Facility's ID=GEN-1
** Description=Generator CAT G3406 276-hp Construction date=12-JUN-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39001E11 POINT 621713.79 3576344.271 0
SO SRCPARAM 39001E11 .0050399 3.76 835.93 39.68 .13
** NMED source ID=39001EQPT17 Facility's ID=ENG-4
** Description=Engine CAT G3606 1,875-hp Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39001E17 POINT 621709.549 3576337.371 0
SO SRCPARAM 39001E17 .0176397 7.32 705.37 49.65 .38
** NMED source ID=39001EQPT18 Facility's ID=ENG-5
** Description=Engine CAT G3606 1,875-hp Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39001E18 POINT 621711.201 3576329.217 0
SO SRCPARAM 39001E18 .0176397 7.32 705.37 49.65 .38
** NMED source ID=39001EQPT19 Facility's ID=ENG-6
** Description=Engine CAT G3606 1,875-hp Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39001E19 POINT 621718.15 3576324.255 0
SO SRCPARAM 39001E19 .0176397 7.32 705.37 49.65 .38
** NMED source ID=39001EQPT20 Facility's ID=ENG-7
** Description=Engine CAT G3606 1,875-hp Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39001E20 POINT 621726.833 3576325.397 0
SO SRCPARAM 39001E20 .0176397 7.32 705.37 49.65 .38
**********END OF 39001: Bonnyman Compressor Station
INFO***********************************
************************************************************
** 20.94km away. Facility ID=6178 Name=Nitro Compressor Station
** Company ID=901 Name=Versado Gas Processors, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.398534, -103.516093, WGS84
** Total Particulate Matter (10 microns or less) emissions=6.68tons/year
*****************Facility sources: ******************************
** NMED source ID=6178EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 6178E3 POINT 639559.986 3585580.103 0
SO SRCPARAM 6178E3 .0289795 7.32 904.26 35.97 .41
** NMED source ID=6178EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E4 POINT 639567.522 3585587.124 0
SO SRCPARAM 6178E4 .0289795 7.32 904.26 35.97 .41
** NMED source ID=6178EQPT6 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E6 POINT 639560.736 3585590.676 0
SO SRCPARAM 6178E6 .0340195 7.92 867.59 32.25 .51
** NMED source ID=6178EQPT7 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E7 POINT 639553.139 3585588.584 0
SO SRCPARAM 6178E7 .0340195 7.92 867.59 32.25 .51
** NMED source ID=6178EQPT8 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E8 POINT 639548.898 3585581.684 0
SO SRCPARAM 6178E8 .0163797 8.84 707.04 46.51 .51
** NMED source ID=6178EQPT9 Facility's ID=ENG-9
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E9 POINT 639550.55 3585573.53 0
SO SRCPARAM 6178E9 .0163797 8.84 707.04 46.51 .51
** NMED source ID=6178EQPT15 Facility's ID=ENG-10
** Description=Compressor Engine Construction date=24-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E15 POINT 639557.499 3585568.568 0
SO SRCPARAM 6178E15 .0163797 8.84 707.04 46.51 .51
** NMED source ID=6178EQPT16 Facility's ID=ENG-11
** Description=Compressor Engine Construction date=24-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E16 POINT 639566.182 3585569.71 0
```

```
SO SRCPARAM 6178E16 .0163797 8.84 707.04 46.51 .51
**********END OF 6178: Nitro Compressor Station
INFO**********************************
************************************************************
** 20.99km away. Facility ID=36430 Name=Enterprise - Devon Cotton Draw Compressor
Station
** Company ID=1477 Name=Enterprise Field Services, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.15561, -103.737017, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.31tons/year
*****************Facility sources: ******************************
** NMED source ID=36430EQPT1 Facility's ID=ENG-1
** Description=1863-hp Caterpillar G3606 LE Construction date=09-MAY-16
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7618hr/yr, 21hr/day
SO LOCATION 36430E1 POINT 619097.79 3558382.859 0
SO SRCPARAM 36430E1 .0176397 8.84 699.26 76.41 .3
** NMED source ID=36430EQPT2 Facility's ID=ENG-2
** Description=1863-hp Caterpillar G3606 LE Construction date=09-MAY-16
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7706hr/yr, 21hr/day
SO LOCATION 36430E2 POINT 619105.326 3558389.88 0
SO SRCPARAM 36430E2 .0176397 8.84 699.26 76.41 .3
** NMED source ID=36430EQPT3 Facility's ID=GEN-1
** Description=50.6-hp Capstone/C200 Microturbine Construction date=09-MAY-16
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2208hr/yr, 6hr/day
SO LOCATION 36430E3 POINT 619098.54 3558393.432 0
SO SRCPARAM 36430E3 .00126 3.66 552.59 74.46 .08
** NMED source ID=36430EQPT5 Facility's ID=Htr-1
** Description=1.0 MMBtu/hr Heater Construction date=27-JUL-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4609hr/yr, 13hr/day
SO LOCATION 36430E5 POINT 619090.943 3558391.34 0
SO SRCPARAM 36430E5 .00126 4.57 588.71 4.85 .2
** NMED source ID=36430EQPT7 Facility's ID=GEN-3
** Description=146-hp PSI /8.1 LNA Construction date=27-JUL-19
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36430E7 POINT 619086.702 3558384.44 0
SO SRCPARAM 36430E7 .00126 1.83 922.04 68.31 .08
**********END OF 36430: Enterprise - Devon Cotton Draw Compressor Station
INFO**********************************
************************************************************
** 21km away. Facility ID=35492 Name=Cotton Draw Unit 1-12 Bone Spring Central Tank
```

Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6274 NOI
** lat,long,datum=32.144164, -103.732467, NAD83
** Total Particulate Matter (10 microns or less) emissions=.42tons/year
**********Facility sources: **********
** NMED source ID=35492AREA2 Facility's ID=31
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35492A2 VOLUME 619541.82 3557119.035 0
SO SRCPARAM 35492A2 .2784556 10 20 9.3
** NMED source ID=35492EQPT28 Facility's ID=9
** Description=Heater_EQ000055016 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35492E28 VOLUME 619549.356 3557126.056 0
SO SRCPARAM 35492E28 .0005796 9.14 .47 .93
** NMED source ID=35492EQPT44 Facility's ID=10
** Description=Heater_EQ000055022 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35492E44 VOLUME 619542.57 3557129.608 0
SO SRCPARAM 35492E44 .0005796 9.14 .47 .93
**********END OF 35492: Cotton Draw Unit 1-12 Bone Spring Central Tank Battery
INFO**********
**********
** 21.01km away. Facility ID=40179 Name=Red Tank 26 BOO Station
** Company ID=13962 Name=USA Compression Partners LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.365751, -103.650989, WGS84
** Total Particulate Matter (10 microns or less) emissions=6.13tons/year
**********Facility sources: **********
** NMED source ID=40179AREA1 Facility's ID=ROAD
** Description=Unpaved road emissions Construction date=28-SEP-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179A1 VOLUME 626917.931 3581777.603 0
SO SRCPARAM 40179A1 .00126 1 .47 .93
** NMED source ID=40179EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E1 POINT 626925.467 3581784.624 0

```
SO SRCPARAM 40179E1 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E2 POINT 626918.681 3581788.176 0
SO SRCPARAM 40179E2 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E3 POINT 626911.084 3581786.084 0
SO SRCPARAM 40179E3 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E4 POINT 626906.843 3581779.184 0
SO SRCPARAM 40179E4 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT10 Facility's ID=REB-1
** Description=Reboiler, 0.875 MMBtu/hr Construction date=28-SEP-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E10 POINT 626908.495 3581771.03 0
SO SRCPARAM 40179E10 .00126 3.05 533.15 .16 .24
** NMED source ID=40179EQPT14 Facility's ID=REB-2
** Description=Reboiler, 0.875 MMBtu/hr Construction date=28-SEP-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E14 POINT 626915.444 3581766.068 0
SO SRCPARAM 40179E14 .00126 3.05 533.15 .16 .24
** NMED source ID=40179EQPT16 Facility's ID=ENG-5
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=23-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E16 POINT 626924.127 3581767.21 0
SO SRCPARAM 40179E16 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT17 Facility's ID=ENG-6
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=23-SEP-22
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E17 POINT 626929.837 3581774.138 0
SO SRCPARAM 40179E17 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT18 Facility's ID=ENG-7
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=23-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E18 POINT 626929.272 3581783.319 0
SO SRCPARAM 40179E18 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT19 Facility's ID=ENG-8
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=23-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E19 POINT 626922.437 3581789.797 0
SO SRCPARAM 40179E19 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179RPNT2 Facility's ID=Site-SSM
** Description=SSM emissions Construction date=28-SEP-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179R2 VOLUME 626912.801 3581789.874 0
SO SRCPARAM 40179R2 .0002898 1 .47 .93
**********END OF 40179: Red Tank 26 BOO Station
INFO**********************************
************************************************************
** 21.02km away. Facility ID=7170 Name=Speyside CTB
** Company ID=14056 Name=Avant Natural Resources
** SIC=1311 NAIC=21112    Permit=10054 NOI
** lat,long,datum=32.398611, -103.503889, WGS84
** Total Particulate Matter (10 microns or less) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=7170EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=25-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7170E3 VOLUME 640707.752 3585604.638 0
SO SRCPARAM 7170E3 .00126 4.57 .47 .93
**********END OF 7170: Speyside CTB INFO************************************
************************************************************
** 21.02km away. Facility ID=40046 Name=Crunch Berry CTB
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.399237, -103.51646, WGS84
```

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** Total Particulate Matter (10 microns or less) emissions=.43tons/year
*****************Facility sources: ******************************
** NMED source ID=40046EQPT4 Facility's ID=H-1
** Description=Heater Treater Construction date=24-JUN-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40046E4 POINT 639524.385 3585657.563 0
SO SRCPARAM 40046E4 .00126 6.1 588.71 5.19 .2
** NMED source ID=40046EQPT7 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=16-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40046E7 POINT 639531.921 3585664.584 0
SO SRCPARAM 40046E7 .0100798 4.57 863.15 24.17 .2
** NMED source ID=40046EQPT8 Facility's ID=H-2
** Description=Heater Treater Construction date=16-NOV-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40046E8 VOLUME 639525.135 3585668.136 0
SO SRCPARAM 40046E8 .00126 6.1 .47 .93
**********END OF 40046: Crunch Berry CTB INFO************************************
************************************************************
** 21.02km away. Facility ID=33319 Name=Ragin Cajun Central Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5481 NOI
** lat,long,datum=32.037, -103.436, NAD83
** Total Particulate Matter (10 microns or less) emissions=.45tons/year
*****************Facility sources: ******************************
** NMED source ID=33319AREA1 Facility's ID=22
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8616hr/yr, 24hr/day
SO LOCATION 33319A1 VOLUME 647676.886 3545606.301 0
SO SRCPARAM 33319A1 .2784556 10 20 9.3
** NMED source ID=33319EQPT1 Facility's ID=7
** Description=Heater_EQ000152292 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8664hr/yr, 24hr/day
SO LOCATION 33319E1 VOLUME 647684.422 3545613.322 0
SO SRCPARAM 33319E1 .0005796 9.14 .47 .93
** NMED source ID=33319EQPT9 Facility's ID=8
** Description=Heater_EQ000152310 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8664hr/yr, 24hr/day
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SO LOCATION 33319E9 VOLUME 647677.636 3545616.874 0
SO SRCPARAM 33319E9 .0005796 9.14 .47 .93
**********END OF 33319: Ragin Cajun Central Battery
INFO**********************************
************************************************************
** 21.05km away. Facility ID=38200 Name=Cotton Draw Unit 118 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=7609 NOI
** lat,long,datum=32.194658, -103.746547, NAD83
** Total Particulate Matter (10 microns or less) emissions=.78tons/year
*****************Facility sources: ******************************
** NMED source ID=38200AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38200A1 VOLUME 618148.623 3562701.102 0
SO SRCPARAM 38200A1 1.0898827 10 90 9.3
** NMED source ID=38200EQPT6 Facility's ID=Heater_5371
** Description=Heater_EQ000155371 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38200E6 VOLUME 618156.159 3562708.123 0
SO SRCPARAM 38200E6 .0005796 9.14 .47 .93
** NMED source ID=38200EQPT9 Facility's ID=Heater_5348
** Description=Heater_EQ000155348 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38200E9 VOLUME 618149.373 3562711.675 0
SO SRCPARAM 38200E9 .0005796 9.14 .47 .93
**********END OF 38200: Cotton Draw Unit 118 Battery
INFO**********************************
************************************************************
** 21.05km away. Facility ID=31090 Name=Green Wave 20 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4670 NOI
** lat,long,datum=32.022586, -103.49935, NAD83
** Total Particulate Matter (10 microns or less) emissions=.61tons/year
*****************Facility sources: ******************************
** NMED source ID=31090AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 31090A1 VOLUME 641716.803 3543923.478 0
SO SRCPARAM 31090A1 .2784556 10 20 9.3
** NMED source ID=31090EQPT4 Facility's ID=ENG 1
** Description=Engine_EQ000073143 Construction date=01-JAN-20
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 31090E4 POINT 641724.339 3543930.499 0
SO SRCPARAM 31090E4 .0037799 2.5 949.82 64.8 .1
** NMED source ID=31090EQPT9 Facility's ID=HT-1
** Description=Heater_EQ000072971 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31090E9 VOLUME 641717.553 3543934.051 0
SO SRCPARAM 31090E9 .00126 9.14 .47 .93
** NMED source ID=31090EQPT17 Facility's ID=HT-2
** Description=Heater_EQ000118259 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31090E17 VOLUME 641709.956 3543931.959 0
SO SRCPARAM 31090E17 .0005796 9.14 .47 .93
**********END OF 31090: Green Wave 20 CTB 1
INFO************************************
************************************************************
** 21.06km away. Facility ID=40396 Name=Cotton Draw Unit 12 CTB 12
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.140607, -103.731556, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.98tons/year
*****************Facility sources: ****************************
** NMED source ID=40396AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=08-APR-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40396A1 VOLUME 619632.389 3556725.729 0
SO SRCPARAM 40396A1 .2784556 10 20 9.3
** NMED source ID=40396EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516B, 1380 hp Construction date=08-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40396E1 POINT 619639.925 3556732.75 0
SO SRCPARAM 40396E1 .0125998 7.32 715.37 37.76 .38
** NMED source ID=40396EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516B, 1380 hp Construction date=08-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40396E2 POINT 619633.139 3556736.302 0
SO SRCPARAM 40396E2 .0125998 7.32 715.37 37.76 .38
** NMED source ID=40396EQPT4 Facility's ID=HT-1
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** Description=3 MMBtu/h Heater Treater Construction date=08-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40396E4 VOLUME 619625.542 3556734.21 0
SO SRCPARAM 40396E4 .00252 9.14 .47 .93
** NMED source ID=40396EQPT5 Facility's ID=HT-2
** Description=3 MMBtu/h Heater Treater Construction date=08-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40396E5 VOLUME 619621.301 3556727.31 0
SO SRCPARAM 40396E5 .00252 9.14 .47 .93
**********END OF 40396: Cotton Draw Unit 12 CTB 12
INFO**********************************
************************************************************
** 21.12km away. Facility ID=32464 Name=EOG - Endurance 25 Fed Com No1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0208, -103.5236, NAD83
** Total Particulate Matter (10 microns or less) emissions=.92tons/year
*****************Facility sources: ******************************
** NMED source ID=32464AREA1 Facility's ID=ROAD
** Description=Haul Roads (Fugitives) Construction date=26-AUG-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32464A1 VOLUME 639429.187 3543693.926 0
SO SRCPARAM 32464A1 .0214197 1 .47 .93
** NMED source ID=32464EQPT3 Facility's ID=Heater-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32464E3 VOLUME 639436.723 3543700.947 0
SO SRCPARAM 32464E3 .0005796 4.88 .47 .93
** NMED source ID=32464EQPT7 Facility's ID=ENG-1
** Description=Gas Lift Engine (203hp) Construction date=26-AUG-21
** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32464E7 POINT 639429.937 3543704.499 0
SO SRCPARAM 32464E7 .0037799 4.88 846.48 33.83 .13
**********END OF 32464: EOG - Endurance 25 Fed Com No1H
INFO**********************************
************************************************************
** 21.18km away. Facility ID=39840 Name=Cimarex - West Grama Ridge 7-6 Fed 1H, 3H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.400133, -103.50458, WGS84
```

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** Total Particulate Matter (10 microns or less) emissions=.54tons/year
*****************Facility sources: ****************************
** NMED source ID=39840AREA1 Facility's ID=HR
** Description=Haul Road Emissions Construction date=11-JAN-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39840A1 VOLUME 640640.398 3585772.467 0
SO SRCPARAM 39840A1 .1159182 10 10 9.3
** NMED source ID=39840EQPT3 Facility's ID=GEN-1
** Description=Generator Engine 4SRB Construction date=01-JAN-11
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39840E3 POINT 640647.934 3585779.488 0
SO SRCPARAM 39840E3 .0100798 2.29 1023.15 215.25 .09
** NMED source ID=39840EQPT4 Facility's ID=H-1
** Description=Heater Treater 1 (2MM Btu/h) Construction date=11-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39840E4 VOLUME 640641.148 3585783.04 0
SO SRCPARAM 39840E4 .00126 4.57 .47 .93
**********END OF 39840: Cimarex - West Grama Ridge 7-6 Fed 1H, 3H
INFO**********************************
************************************************************
** 21.23km away. Facility ID=41026 Name=Songbird Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.107066, -103.71317, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.98tons/year
*****************Facility sources: ****************************
** NMED source ID=41026EQPT4 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E4 POINT 621410.992 3553028.055 0
SO SRCPARAM 41026E4 .0239396 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT5 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E5 POINT 621418.528 3553035.076 0
SO SRCPARAM 41026E5 .0239396 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT6 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
```

```
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E6 POINT 621411.742 3553038.628 0
SO SRCPARAM 41026E6 .0239396 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT7 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E7 POINT 621404.145 3553036.536 0
SO SRCPARAM 41026E7 .0239396 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT8 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E8 POINT 621399.904 3553029.636 0
SO SRCPARAM 41026E8 .0239396 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT9 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E9 POINT 621401.556 3553021.482 0
SO SRCPARAM 41026E9 .0239396 7.01 710.93 58.98 .41
**********END OF 41026: Songbird Compressor Station
INFO**********************************
************************************************************
** 21.24km away. Facility ID=40511 Name=Cotton Draw Unit 26 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9653 NOI
** lat,long,datum=32.194366, -103.748606, NAD83
** Total Particulate Matter (10 microns or less) emissions=.79tons/year
*****************Facility sources: ****************************
** NMED source ID=40511EQPT1 Facility's ID=ENG 1
** Description=Engine 1 Construction date=24-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40511E1 POINT 617954.908 3562666.47 0
SO SRCPARAM 40511E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=40511EQPT2 Facility's ID=ENG 2
** Description=Engine 2 Construction date=24-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40511E2 POINT 617962.444 3562673.491 0
SO SRCPARAM 40511E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40511: Cotton Draw Unit 26 Wellpad 2
INFO**********************************
************************************************************
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** 21.24km away. Facility ID=40849 Name=Colossus 18 19 Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.049509, -103.403121, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.4tons/year
*****************Facility sources: ****************************
** NMED source ID=40849ACT 1 Facility's ID=ROAD
** Description=Unpaved Haul Road Construction date=20-JAN-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849@1 VOLUME 650761.244 3547038.519 0
SO SRCPARAM 40849@1 .0201597 1 .47 .93
** NMED source ID=40849EQPT3 Facility's ID=GEN-01
** Description=Generator Engine 1 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E3 POINT 650768.78 3547045.54 0
SO SRCPARAM 40849E3 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT4 Facility's ID=GEN-02
** Description=Generator Engine 2 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E4 POINT 650761.994 3547049.092 0
SO SRCPARAM 40849E4 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT5 Facility's ID=GEN-03
** Description=Generator Engine 3 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E5 POINT 650754.397 3547047 0
SO SRCPARAM 40849E5 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT6 Facility's ID=GEN-04
** Description=Generator Engine 4 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E6 POINT 650750.156 3547040.1 0
SO SRCPARAM 40849E6 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT7 Facility's ID=GEN-05
** Description=Generator Engine 5 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E7 POINT 650751.808 3547031.946 0
SO SRCPARAM 40849E7 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT8 Facility's ID=GEN-06
** Description=Generator Engine 6 Construction date=20-JAN-23
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E8 POINT 650758.757 3547026.984 0
SO SRCPARAM 40849E8 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT9 Facility's ID=GEN-07
** Description=Generator Engine 7 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E9 POINT 650767.44 3547028.126 0
SO SRCPARAM 40849E9 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT10 Facility's ID=GEN-08
** Description=Generator Engine 8 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E10 POINT 650773.15 3547035.054 0
SO SRCPARAM 40849E10 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT12 Facility's ID=HTR-01
** Description=Heater Treater Heater-01 Construction date=20-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E12 VOLUME 650772.585 3547044.235 0
SO SRCPARAM 40849E12 .00126 4.88 .47 .93
**********END OF 40849: Colossus 18 19 Fed Com CTB
INFO**********************************
************************************************************
** 21.27km away. Facility ID=40247 Name=Cotton Draw Unit 26 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.192735, -103.74874, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.34tons/year
*****************Facility sources: ****************************
** NMED source ID=40247AREA1 Facility's ID=ROAD-1
** Description=Unpaved haul roads Construction date=14-DEC-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247A1 VOLUME 617944.381 3562485.515 0
SO SRCPARAM 40247A1 .1385978 10 10 9.3
** NMED source ID=40247EQPT3 Facility's ID=HT-1
** Description=3.0 MM Btu/hr heater treater EQ000889383 Construction date=14-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247E3 VOLUME 617951.917 3562492.536 0
SO SRCPARAM 40247E3 .0037799 9.14 .47 .93
** NMED source ID=40247EQPT4 Facility's ID=HT-2
```

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** Description=3.0 MM Btu/hr heater treater EQ000891675 Construction date=14-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247E4 VOLUME 617945.131 3562496.088 0
SO SRCPARAM 40247E4 .0037799 9.14 .47 .93
** NMED source ID=40247EQPT14 Facility's ID=ENG 1
** Description=Gas Lift Engine Construction date=25-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247E14 POINT 617937.534 3562493.996 0
SO SRCPARAM 40247E14 .0138598 5.85 772.59 37.4 .27
** NMED source ID=40247EQPT15 Facility's ID=ENG 2
** Description=Gas Lift Engine Construction date=25-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247E15 POINT 617933.293 3562487.096 0
SO SRCPARAM 40247E15 .0138598 5.85 772.59 37.4 .27
** NMED source ID=40247EQPT16 Facility's ID=LPC-5
** Description=LPC-5 Low Pressure Compressor EQ000184523 Construction date=25-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247E16 POINT 617934.945 3562478.942 0
SO SRCPARAM 40247E16 .0037799 2.5 919.82 51.42 .1
**********END OF 40247: Cotton Draw Unit 26 CTB 2
INFO**********************************
**************************************************************
** 21.29km away. Facility ID=38275 Name=Grama Ridge 8 State 2H-3H-5H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.399667, -103.489889, NAD83
** Total Particulate Matter (10 microns or less) emissions=.14tons/year
*****************Facility sources: ******************************
** NMED source ID=38275EQPT2 Facility's ID=HTR-1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38275E2 VOLUME 642022.915 3585740.227 0
SO SRCPARAM 38275E2 .00126 6.1 .47 .93
** NMED source ID=38275RPNT2 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38275R2 VOLUME 642030.451 3585747.248 0
SO SRCPARAM 38275R2 .0037799 1 .47 .93
```

**********END OF 38275: Grama Ridge 8 State 2H-3H-5H
INFO**********
**********
** 21.31km away. Facility ID=35680 Name=Thor 21 CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0234, -103.5715, WGS84
** Total Particulate Matter (10 microns or less) emissions=.09tons/year
**********Facility sources: **********
** NMED source ID=35680EQPT12 Facility's ID=F-HTR-1
** Description=Heater Treater Construction date=16-APR-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35680E12 VOLUME 634901.345 3543921.335 0
SO SRCPARAM 35680E12 .00126 4.88 .47 .93
** NMED source ID=35680EQPT17 Facility's ID=HTR-1
** Description=Heater Treater Construction date=16-APR-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35680E17 VOLUME 634908.881 3543928.356 0
SO SRCPARAM 35680E17 .00126 4.88 .47 .93
** NMED source ID=35680EQPT18 Facility's ID=HTR-2
** Description=Heater Treater Construction date=16-APR-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35680E18 VOLUME 634902.095 3543931.908 0
SO SRCPARAM 35680E18 .00126 4.88 .47 .93
**********END OF 35680: Thor 21 CTB INFO**********
**********
** 21.34km away. Facility ID=9498 Name=Red Tank 27 Compressor Station
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.361872, -103.663167, WGS84
** Total Particulate Matter (10 microns or less) emissions=.04tons/year
**********Facility sources: **********
** NMED source ID=9498EQPT2 Facility's ID=REB-1
** Description=Glycol Reboiler Construction date=19-JAN-24
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9498E2 POINT 625777.48 3581333.19 0
SO SRCPARAM 9498E2 .00126 3.05 533.15 .16 .24
** NMED source ID=9498RPNT3 Facility's ID=SITE-SSM
** Description=Startup, Shutdown, and Maintenance (SSM) Emissions Construction
date=19-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9498R3 VOLUME 625785.016 3581340.211 0
SO SRCPARAM 9498R3 .0002898 1 .47 .93
**********END OF 9498: Red Tank 27 Compressor Station
INFO**********************************
************************************************************
** 21.36km away. Facility ID=40508 Name=Muskie 23 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9651 NOI
** lat,long,datum=32.029826, -103.447881, NAD83
** Total Particulate Matter (10 microns or less) emissions=.79tons/year
*****************Facility sources: ****************************
** NMED source ID=40508EQPT1 Facility's ID=ENG 1
** Description=Combustion Engine Construction date=19-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40508E1 POINT 646566.36 3544794.796 0
SO SRCPARAM 40508E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=40508EQPT2 Facility's ID=ENG 2
** Description=Combustion Engine Construction date=19-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40508E2 POINT 646573.896 3544801.817 0
SO SRCPARAM 40508E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40508: Muskie 23 Wellpad 3
INFO**********************************
************************************************************
** 21.38km away. Facility ID=722 Name=Bootleg Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.388889, -103.608333, WGS84
** Total Particulate Matter (10 microns or less) emissions=1tons/year
*****************Facility sources: ****************************
** NMED source ID=722EQPT6 Facility's ID=002
** Description=Waukesha L 7042 GSI Construction date=20-MAY-10
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8451hr/yr, 24hr/day
SO LOCATION 722E6 POINT 630931.986 3554367.831 0
SO SRCPARAM 722E6 .014389 6.1 841.48 34.75 .3
** NMED source ID=722EQPT13 Facility's ID=001a
** Description=Waukesha L 7042 GSI Construction date=20-MAY-10
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8240hr/yr, 24hr/day
SO LOCATION 722E13 POINT 630932.101 3584366.983 0
SO SRCPARAM 722E13 .014389 6.1 841.48 34.75 .3
**********END OF 722: Bootleg Compressor Station
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INFO**********************************
************************************************************
** 21.41km away. Facility ID=35139 Name=Salado Draw 19 CTB and CS
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=6109 NSR
** lat,long,datum=32.034917, -103.616556, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.52tons/year
*****************Facility sources: ******************************
** NMED source ID=35139EQPT2 Facility's ID=ENG-1
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6600hr/yr, 18hr/day
SO LOCATION 35139E2 POINT 630629.729 3545142.696 0
SO SRCPARAM 35139E2 .0125998 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT3 Facility's ID=ENG-2
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6402hr/yr, 17hr/day
SO LOCATION 35139E3 POINT 630637.265 3545149.717 0
SO SRCPARAM 35139E3 .0125998 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT4 Facility's ID=ENG-3
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3738hr/yr, 10hr/day
SO LOCATION 35139E4 POINT 630630.479 3545153.269 0
SO SRCPARAM 35139E4 .0125998 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT6 Facility's ID=REB-1
** Description=Glycol Dehydration-Reboiler (1MMBtu/hr) Construction date=07-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35139E6 POINT 630622.882 3545151.177 0
SO SRCPARAM 35139E6 .00126 6.1 533.15 2.5 .3
** NMED source ID=35139EQPT7 Facility's ID=HTR-1
** Description=Heater-Treater (4 MMBtu/hr) Construction date=07-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E7 VOLUME 630618.641 3545144.277 0
SO SRCPARAM 35139E7 .0037799 6.1 .47 .93
** NMED source ID=35139EQPT9 Facility's ID=HTR-2
** Description=Heater-Treater (4 MMBtu/hr) Construction date=07-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E9 VOLUME 630620.293 3545136.123 0
SO SRCPARAM 35139E9 .0037799 6.1 .47 .93
** NMED source ID=35139EQPT10 Facility's ID=HTR-3
** Description=Heater-Treater (4 MMBtu/hr) Construction date=07-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E10 VOLUME 630627.242 3545131.161 0
SO SRCPARAM 35139E10 .0037799 6.1 .47 .93
** NMED source ID=35139EQPT14 Facility's ID=ENG-4
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7385hr/yr, 20hr/day
SO LOCATION 35139E14 POINT 630635.925 3545132.303 0
SO SRCPARAM 35139E14 .0125998 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT21 Facility's ID=SEP-1
** Description=Heated Separator (4 MMBtu/hr) Construction date=12-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E21 VOLUME 630641.635 3545139.231 0
SO SRCPARAM 35139E21 .0037799 6.1 .47 .93
** NMED source ID=35139EQPT22 Facility's ID=SEP-2
** Description=Heated Separator (4 MMBtu/hr) Construction date=12-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E22 VOLUME 630641.07 3545148.412 0
SO SRCPARAM 35139E22 .0037799 6.1 .47 .93
** NMED source ID=35139EQPT23 Facility's ID=SEP-3
** Description=Heated Separator (4 MMBtu/hr) Construction date=12-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E23 VOLUME 630634.235 3545154.89 0
SO SRCPARAM 35139E23 .0037799 6.1 .47 .93
** NMED source ID=35139EQPT24 Facility's ID=ENG-5
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7398hr/yr, 20hr/day
SO LOCATION 35139E24 POINT 630624.599 3545154.967 0
SO SRCPARAM 35139E24 .0125998 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT25 Facility's ID=ENG-6
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35139E25 POINT 630617.338 3545148.301 0
SO SRCPARAM 35139E25 .0125998 6.1 817.59 32.92 .41
**********END OF 35139: Salado Draw 19 CTB and CS
INFO**********************************
************************************************************
** 21.42km away. Facility ID=40315 Name=Muskie 23 CTB 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.031495, -103.44083, NAD83
** Total Particulate Matter (10 microns or less) emissions=4.51tons/year
*****************Facility sources: ****************************
** NMED source ID=40315AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=30-MAR-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40315A1 VOLUME 647229.586 3544989.414 0
SO SRCPARAM 40315A1 .2784556 10 20 9.3
** NMED source ID=40315EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=30-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40315E3 VOLUME 647237.122 3544996.435 0
SO SRCPARAM 40315E3 .0037799 9.14 .47 .93
** NMED source ID=40315EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=30-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40315E4 VOLUME 647230.336 3544999.987 0
SO SRCPARAM 40315E4 .0037799 9.14 .47 .93
**********END OF 40315: Muskie 23 CTB 4 INFO**********************************
************************************************************
** 21.45km away. Facility ID=6933 Name=Cronus Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.347435, -103.684247, WGS84
** Total Particulate Matter (10 microns or less) emissions=6.85tons/year
*****************Facility sources: ****************************
** NMED source ID=6933EQPT2 Facility's ID=ENG-1
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E2 POINT 623813.666 3579708.106 0
SO SRCPARAM 6933E2 .0214197 6.1 703.15 46.33 .46
```

```
** NMED source ID=6933EQPT3 Facility's ID=ENG-2
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E3 POINT 623821.202 3579715.127 0
SO SRCPARAM 6933E3 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT4 Facility's ID=ENG-3
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E4 POINT 623814.416 3579718.679 0
SO SRCPARAM 6933E4 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT5 Facility's ID=ENG-4
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E5 POINT 623806.819 3579716.587 0
SO SRCPARAM 6933E5 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT6 Facility's ID=ENG-5
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E6 POINT 623802.578 3579709.687 0
SO SRCPARAM 6933E6 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT7 Facility's ID=ENG-6
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E7 POINT 623804.23 3579701.533 0
SO SRCPARAM 6933E7 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT8 Facility's ID=ENG-7
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E8 POINT 623811.179 3579696.571 0
SO SRCPARAM 6933E8 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT9 Facility's ID=ENG-8
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E9 POINT 623819.862 3579697.713 0
SO SRCPARAM 6933E9 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT10 Facility's ID=ENG-9
```

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** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E10 POINT 623825.572 3579704.641 0
SO SRCPARAM 6933E10 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT13 Facility's ID=Heater-1
** Description=0.75 MMbtu/h Seperator Heater Construction date=21-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E13 VOLUME 623825.007 3579713.822 0
SO SRCPARAM 6933E13 .00126 3.96 .47 .93
** NMED source ID=6933EQPT15 Facility's ID=Reboiler-1
** Description=2 MMbtu/hr Dehydrator Reboiler Construction date=21-NOV-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E15 POINT 623818.172 3579720.3 0
SO SRCPARAM 6933E15 .00252 3.96 588.71 5.3 .3
**********END OF 6933: Cronus Compressor Station
INFO************************************
************************************************************
** 21.45km away. Facility ID=40509 Name=Muskie 23 Wellpad 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9652 NOI
** lat,long,datum=32.030144, -103.444057, NAD83
** Total Particulate Matter (10 microns or less) emissions=.79tons/year
*****************Facility sources: ******************************
** NMED source ID=40509EQPT1 Facility's ID=ENG 1
** Description=Engine 1 Construction date=20-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40509E1 POINT 646926.991 3544835.246 0
SO SRCPARAM 40509E1 .0151198 5.85 256.07 31.94 .27
** NMED source ID=40509EQPT2 Facility's ID=ENG 2
** Description=Engine 2 Construction date=20-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40509E2 POINT 646934.527 3544842.267 0
SO SRCPARAM 40509E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40509: Muskie 23 Wellpad 4
INFO************************************
************************************************************
** 21.45km away. Facility ID=40747 Name=Muskie 23 CTB 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.032987, -103.435491, NAD83
```

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** Total Particulate Matter (10 microns or less) emissions=4.84tons/year
*****************Facility sources: ******************************
** NMED source ID=40747AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=13-OCT-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40747A1 VOLUME 647731.397 3545162.111 0
SO SRCPARAM 40747A1 .2784556 10 20 9.3
** NMED source ID=40747EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=13-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40747E2 VOLUME 647738.933 3545169.132 0
SO SRCPARAM 40747E2 .0037799 9.14 .47 .93
** NMED source ID=40747EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=13-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40747E3 VOLUME 647732.147 3545172.684 0
SO SRCPARAM 40747E3 .0037799 9.14 .47 .93
**********END OF 40747: Muskie 23 CTB 5 INFO************************************
************************************************************
** 21.47km away. Facility ID=8508 Name=Purrito 18 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.308076, -103.720666, NAD83
** Total Particulate Matter (10 microns or less) emissions=4.95tons/year
*****************Facility sources: ******************************
** NMED source ID=8508AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=05-DEC-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508A1 VOLUME 620438.462 3575303.226 0
SO SRCPARAM 8508A1 .2784556 10 20 9.3
** NMED source ID=8508EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E1 POINT 620445.998 3575310.247 0
SO SRCPARAM 8508E1 .0125998 5.85 772.59 37.4 .27
** NMED source ID=8508EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Gas Lift Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 8508E2 POINT 620439.212 3575313.799 0
SO SRCPARAM 8508E2 .0037799 3.6 853.15 19.96 .17
** NMED source ID=8508EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E3 POINT 620431.615 3575311.707 0
SO SRCPARAM 8508E3 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8508EQPT4 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E4 POINT 620427.374 3575304.807 0
SO SRCPARAM 8508E4 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8508EQPT5 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E5 POINT 620429.026 3575296.653 0
SO SRCPARAM 8508E5 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8508EQPT6 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E6 POINT 620435.975 3575291.691 0
SO SRCPARAM 8508E6 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8508EQPT11 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=05-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E11 VOLUME 620444.658 3575292.833 0
SO SRCPARAM 8508E11 .00252 9.14 .47 .93
** NMED source ID=8508EQPT12 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=05-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E12 VOLUME 620450.368 3575299.761 0
SO SRCPARAM 8508E12 .00252 9.14 .47 .93
**********END OF 8508: Purrito 18 CTB 1 INFO**********************************
************************************************************
** 21.49km away. Facility ID=36830 Name=Rattlesnake 21 East CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0218, -103.5717, WGS84
```

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** Total Particulate Matter (10 microns or less) emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=36830EQPT4 Facility's ID=Heater-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8616hr/yr, 24hr/day
SO LOCATION 36830E4 VOLUME 634884.801 3543743.712 0
SO SRCPARAM 36830E4 .00126 4.88 .47 .93
**********END OF 36830: Rattlesnake 21 East CTB
INFO*********************************
************************************************************
** 21.52km away. Facility ID=38694 Name=Picante Compressor Station
** Company ID=12729 Name=Delaware Basin Midstream, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.037986, -103.626833, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.5tons/year
*****************Facility sources: ******************************
** NMED source ID=38694EQPT1 Facility's ID=CE-1
** Description=1875 hp Cat G3606 A4 Construction date=21-NOV-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8213hr/yr, 24hr/day
SO LOCATION 38694E1 POINT 629654.929 3545470.531 0
SO SRCPARAM 38694E1 .0188997 7.62 691.48 47.58 .3
** NMED source ID=38694EQPT2 Facility's ID=CE-2
** Description=1875 hp Cat 3606 A4 Construction date=21-NOV-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8286hr/yr, 24hr/day
SO LOCATION 38694E2 POINT 629662.465 3545477.552 0
SO SRCPARAM 38694E2 .0188997 7.62 691.48 47.58 .3
** NMED source ID=38694EQPT3 Facility's ID=CE-3
** Description=1875 hp Cat 3606 A4 Construction date=21-NOV-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7150hr/yr, 24hr/day
SO LOCATION 38694E3 POINT 629655.679 3545481.104 0
SO SRCPARAM 38694E3 .0188997 7.62 691.48 47.58 .3
** NMED source ID=38694EQPT4 Facility's ID=CE-4
** Description=1875 hp Cat 3606 A4 Construction date=21-NOV-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8436hr/yr, 24hr/day
SO LOCATION 38694E4 POINT 629648.082 3545479.012 0
SO SRCPARAM 38694E4 .0188997 7.62 691.48 47.58 .3
** NMED source ID=38694EQPT5 Facility's ID=DHR-1
** Description=0.25 MMBtu/hr glycol regen heater Construction date=21-NOV-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8697hr/yr, 24hr/day
SO LOCATION 38694E5 POINT 629643.841 3545472.112 0
SO SRCPARAM 38694E5 .0002898 5.18 477.59 .98 .24
** NMED source ID=38694EQPT6 Facility's ID=DHR-2
** Description=0.25 MMBtu/hr glycol regen heater Construction date=21-NOV-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8697hr/yr, 24hr/day
SO LOCATION 38694E6 POINT 629645.493 3545463.958 0
SO SRCPARAM 38694E6 .0002898 5.18 477.59 .98 .24
** NMED source ID=38694EQPT7 Facility's ID=GEN-1
** Description=Office Diesel Generator Construction date=21-NOV-18
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5986hr/yr, 16hr/day
SO LOCATION 38694E7 POINT 629652.442 3545458.996 0
SO SRCPARAM 38694E7 .0002898 1.83 655.37 33.71 .09
** NMED source ID=38694EQPT13 Facility's ID=EC-1
** Description=Enclosed Vapor Combustor Construction date=21-NOV-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8713hr/yr, 24hr/day
SO LOCATION 38694E13 POINT 629661.125 3545460.138 0
SO SRCPARAM 38694E13 .0113398 7.01 1273 20 1.22
** NMED source ID=38694EQPT14 Facility's ID=CE-5
** Description=1875 hp Cat 3606 A4 Construction date=22-JUL-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38694E14 POINT 629666.835 3545467.066 0
SO SRCPARAM 38694E14 .0188997 7.62 691.48 47.58 .3
** NMED source ID=38694EQPT15 Facility's ID=GEN-2
** Description=Hot Start Diesel Generator Construction date=22-JUL-20
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38694E15 POINT 629666.27 3545476.247 0
SO SRCPARAM 38694E15 .0002898 1.83 655.37 33.71 .09
** NMED source ID=38694EQPT16 Facility's ID=FL-1 SSM
** Description=SSM Flare Construction date=15-JUL-22
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38694E16 POINT 629659.435 3545482.725 0
SO SRCPARAM 38694E16 .002016 9.14 1273 20 .67
** NMED source ID=38694EQPT18 Facility's ID=GEN-3
** Description=Heat Trace Diesel Generator Construction date=15-JUL-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2781hr/yr, 24hr/day
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SO LOCATION 38694E18 POINT 629649.799 3545482.802 0
SO SRCPARAM 38694E18 .0002898 1.83 588.71 37.03 .06
** NMED source ID=38694EQPT19 Facility's ID=GEN-4
** Description=Light Tower Diesel Generator Construction date=15-JUL-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38694E19 POINT 629642.538 3545476.136 0
SO SRCPARAM 38694E19 .00126 1.83 572.59 20.75 .03
** NMED source ID=38694EQPT20 Facility's ID=GEN-5
** Description=Light Tower Diesel Generator Construction date=15-JUL-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38694E20 POINT 629641.758 3545466.09 0
SO SRCPARAM 38694E20 .00126 1.83 572.59 20.75 .03
**********END OF 38694: Picante Compressor Station
INFO**********************************
************************************************************
** 21.56km away. Facility ID=30051 Name=CDU Booster Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1431, -103.7384, WGS84
** Total Particulate Matter (10 microns or less) emissions=6.04tons/year
*****************Facility sources: ******************************
** NMED source ID=30051EQPT1 Facility's ID=ENG-1
** Description=Waukesha L-7042GSI 1465 hp w/compressor Construction date=07-SEP-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4701hr/yr, 24hr/day
SO LOCATION 30051E1 POINT 618983.618 3556994.511 0
SO SRCPARAM 30051E1 .0352794 4.57 917.59 32.92 .38
** NMED source ID=30051EQPT2 Facility's ID=ENG-2
** Description=Waukesha L-7042GSI 1465 hp w/compressor Construction date=07-SEP-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2540hr/yr, 24hr/day
SO LOCATION 30051E2 POINT 618991.154 3557001.532 0
SO SRCPARAM 30051E2 .0352794 4.57 917.59 32.92 .38
** NMED source ID=30051EQPT3 Facility's ID=ENG-3
** Description=Waukesha L-7042GSI 1465 hp w/compressor Construction date=07-SEP-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3857hr/yr, 24hr/day
SO LOCATION 30051E3 POINT 618984.368 3557005.084 0
SO SRCPARAM 30051E3 .0352794 4.57 917.59 32.92 .38
** NMED source ID=30051EQPT4 Facility's ID=ENG-4
** Description=Waukesha L-7042GSI 1465 hp w/compressor Construction date=07-SEP-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=2544hr/yr, 24hr/day
SO LOCATION 30051E4 POINT 618976.771 3557002.992 0
SO SRCPARAM 30051E4 .0352794 4.57 917.59 32.92 .38
** NMED source ID=30051EQPT7 Facility's ID=ENG-5
** Description=Caterpillar G3516B LE, 1380 hp w/compressor Construction
date=17-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8325hr/yr, 24hr/day
SO LOCATION 30051E7 POINT 671488.299 3592698.753 1063.1
SO SRCPARAM 30051E7 .0151198 4.57 880.93 38.1 .38
** NMED source ID=30051EQPT8 Facility's ID=ENG-6
** Description=Caterpillar G3516B LE, 1380 hp w/compressor Construction
date=17-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 30051E8 POINT 671488.299 3592698.753 1063.1
SO SRCPARAM 30051E8 .0151198 4.57 880.93 38.1 .38
** NMED source ID=30051EQPT10 Facility's ID=RBL-1
** Description=0.75 MMBtu/hr TEG Dehydrator Reboiler Construction date=22-AUG-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 30051E10 POINT 618981.131 3556982.976 0
SO SRCPARAM 30051E10 .00126 7.01 588.71 1.5 .32
** NMED source ID=30051EQPT13 Facility's ID=ECD-2
** Description=11 MSCFD Enclosed Combustion Device Construction date=14-JAN-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 30051E13 POINT 618989.814 3556984.118 0
SO SRCPARAM 30051E13 .0005796 4.57 1273 20 .76
**********END OF 30051: CDU Booster Station
INFO**********************************
************************************************************
** 21.6km away. Facility ID=40799 Name=Exotic Cat 5 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.336131, -103.698909, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.19tons/year
*****************Facility sources: ******************************
** NMED source ID=40799AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=28-OCT-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40799A1 VOLUME 622449.081 3578438.073 0
SO SRCPARAM 40799A1 .2784556 10 20 9.3
** NMED source ID=40799EQPT2 Facility's ID=HT-1
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** Description=Heater Treater 1 Construction date=28-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40799E2 VOLUME 622456.617 3578445.094 0
SO SRCPARAM 40799E2 .0037799 9.14 .47 .93
** NMED source ID=40799EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=28-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40799E3 VOLUME 622449.831 3578448.646 0
SO SRCPARAM 40799E3 .0037799 9.14 .47 .93
**********END OF 40799: Exotic Cat 5 CTB 2 INFO************************************
************************************************************
** 21.6km away. Facility ID=39310 Name=Queso Blanco CTB
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.387722, -103.430306, NAD83
** Total Particulate Matter (10 microns or less) emissions=.57tons/year
*****************Facility sources: ****************************
** NMED source ID=39310EQPT11 Facility's ID=ENG-1
** Description=Caterpillar 690 hp compressor engine Construction date=01-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39310E11 POINT 647646.609 3584496.644 0
SO SRCPARAM 39310E11 .0062999 7.32 799.82 41.86 .1
** NMED source ID=39310EQPT12 Facility's ID=ENG-2
** Description=Caterpillar 203 hp compressor engine Construction date=01-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39310E12 POINT 647654.145 3584503.665 0
SO SRCPARAM 39310E12 .0037799 4.27 858.71 55.6 .1
** NMED source ID=39310EQPT13 Facility's ID=ENG-3
** Description=Caterpillar 203 hp compressor engine Construction date=01-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39310E13 POINT 647647.359 3584507.217 0
SO SRCPARAM 39310E13 .0037799 4.27 858.71 55.6 .1
** NMED source ID=39310EQPT14 Facility's ID=H-1
** Description=1 MMbtu/h Heater Treater Construction date=01-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39310E14 VOLUME 647639.762 3584505.125 0
SO SRCPARAM 39310E14 .00126 3.96 .47 .93
** NMED source ID=39310EQPT15 Facility's ID=H-2
```

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** Description=1 MMbtu/h Heater Treater Construction date=01-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39310E15 VOLUME 647635.521 3584498.225 0
SO SRCPARAM 39310E15 .00126 3.96 .47 .93
**********END OF 39310: Queso Blanco CTB INFO**********************************
************************************************************
** 21.64km away. Facility ID=40510 Name=Cotton Draw Unit 26 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9654 NOI
** lat,long,datum=32.194398, -103.752865, NAD83
** Total Particulate Matter (10 microns or less) emissions=.79tons/year
*****************Facility sources: ****************************
** NMED source ID=40510EQPT1 Facility's ID=ENG 1
** Description=Engine 1 Construction date=25-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40510E1 POINT 617553.391 3562665.353 0
SO SRCPARAM 40510E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=40510EQPT2 Facility's ID=ENG 2
** Description=Engine 2 Construction date=25-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40510E2 POINT 617560.927 3562672.374 0
SO SRCPARAM 40510E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40510: Cotton Draw Unit 26 Wellpad 1
INFO**********************************
************************************************************
** 21.66km away. Facility ID=40982 Name=Muskie 23 Wellpad 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9927 NOI
** lat,long,datum=32.030273, -103.437491, NAD83
** Total Particulate Matter (10 microns or less) emissions=.37tons/year
*****************Facility sources: ****************************
** NMED source ID=40982EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=23-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40982E1 POINT 647546.876 3544858.499 0
SO SRCPARAM 40982E1 .0062999 5.85 723.71 34.47 .27
** NMED source ID=40982EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=23-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40982E2 POINT 647554.412 3544865.52 0
```

```
SO SRCPARAM 40982E2 .0037799 3.6 853.15 19.79 .17
**********END OF 40982: Muskie 23 Wellpad 6
INFO**********************************
************************************************************
** 21.67km away. Facility ID=38071 Name=Rocco Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1321 NAIC=21113    Permit=unknown
** lat,long,datum=32.313694, -103.719139, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.62tons/year
*****************Facility sources: ****************************
** NMED source ID=38071EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516J Engine Construction date=18-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8456hr/yr, 24hr/day
SO LOCATION 38071E1 POINT 620574.783 3575927.754 0
SO SRCPARAM 38071E1 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38071EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516J Engine Construction date=18-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7764hr/yr, 24hr/day
SO LOCATION 38071E2 POINT 620582.319 3575934.775 0
SO SRCPARAM 38071E2 .0125998 7.32 812.04 38.4 .38
** NMED source ID=38071EQPT6 Facility's ID=ENG-3
** Description=Caterpillar G3516J Engine Construction date=18-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7919hr/yr, 24hr/day
SO LOCATION 38071E6 POINT 620575.533 3575938.327 0
SO SRCPARAM 38071E6 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38071EQPT7 Facility's ID=ENG-4
** Description=Caterpillar G3516J Engine Construction date=18-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8400hr/yr, 24hr/day
SO LOCATION 38071E7 POINT 620567.936 3575936.235 0
SO SRCPARAM 38071E7 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38071EQPT8 Facility's ID=ENG-5
** Description=Caterpillar G3516J Engine Construction date=18-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8447hr/yr, 24hr/day
SO LOCATION 38071E8 POINT 620563.695 3575929.335 0
SO SRCPARAM 38071E8 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38071EQPT14 Facility's ID=GEN-1
** Description=276-hp Caterpillar G3406 Construction date=18-OCT-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 38071E14 POINT 620565.347 3575921.181 0
SO SRCPARAM 38071E14 .0050399 5.64 814.82 27.46 .15
** NMED source ID=38071EQPT15 Facility's ID=ENG-6
** Description=Caterpillar G3516TALE+ Engine Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38071E15 POINT 620572.296 3575916.219 0
SO SRCPARAM 38071E15 .0163797 7.92 821.48 15.67 .61
** NMED source ID=38071EQPT16 Facility's ID=ENG-7
** Description=Caterpillar G3516TALE+ Engine Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38071E16 POINT 620580.979 3575917.361 0
SO SRCPARAM 38071E16 .0163797 7.92 821.48 15.67 .61
** NMED source ID=38071EQPT17 Facility's ID=ENG-8
** Description=Caterpillar G3516TALE+ Engine Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38071E17 POINT 620586.689 3575924.289 0
SO SRCPARAM 38071E17 .0163797 7.92 821.48 15.67 .61
** NMED source ID=38071EQPT18 Facility's ID=ENG-9
** Description=Caterpillar G3516TALE+ Engine Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38071E18 POINT 620586.124 3575933.47 0
SO SRCPARAM 38071E18 .0163797 7.92 821.48 15.67 .61
**********END OF 38071: Rocco Compressor Station
INFO**********************************
************************************************************
** 21.67km away. Facility ID=33008 Name=Cotton Draw Unit 219 CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5302 NOI
** lat,long,datum=32.152661, -103.743528, NAD83
** Total Particulate Matter (10 microns or less) emissions=.94tons/year
*****************Facility sources: ****************************
** NMED source ID=33008AREA1 Facility's ID=22
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33008A1 VOLUME 618487.584 3558048.756 0
SO SRCPARAM 33008A1 .2784556 10 20 9.3
** NMED source ID=33008EQPT6 Facility's ID=7
** Description=Heater_EQ000170196 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33008E6 VOLUME 618495.12 3558055.777 0
SO SRCPARAM 33008E6 .00126 9.14 .47 .93
** NMED source ID=33008EQPT8 Facility's ID=24
** Description=Engine_EQ000183185 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33008E8 POINT 618488.334 3558059.329 0
SO SRCPARAM 33008E8 .0037799 3.6 853.15 19.79 .17
** NMED source ID=33008EQPT16 Facility's ID=8
** Description=Heater_EQ000170034 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33008E16 VOLUME 618480.737 3558057.237 0
SO SRCPARAM 33008E16 .00126 9.14 .47 .93
** NMED source ID=33008EQPT20 Facility's ID=23
** Description=Heater_EQ000169988 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33008E20 VOLUME 618476.496 3558050.337 0
SO SRCPARAM 33008E20 .0005796 9.14 .47 .93
**********END OF 33008: Cotton Draw Unit 219 CTB
INFO**********************************
************************************************************
** 21.7km away. Facility ID=40983 Name=Muskie 23 Wellpad 7
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9928 NOI
** lat,long,datum=32.031256, -103.433618, NAD83
** Total Particulate Matter (10 microns or less) emissions=.37tons/year
*****************Facility sources: ****************************
** NMED source ID=40983EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=23-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40983E1 POINT 647911.061 3544972.774 0
SO SRCPARAM 40983E1 .0062999 5.85 723.71 34.44 .27
** NMED source ID=40983EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=23-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40983E2 POINT 647918.597 3544979.795 0
SO SRCPARAM 40983E2 .0037799 3.6 853.15 19.79 .17
**********END OF 40983: Muskie 23 Wellpad 7
INFO**********************************
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** 21.7km away. Facility ID=39172 Name=NGL - Red Road Salt Water Disposal
** Company ID=13605 Name=NGL Water Solutions Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.269761, -103.743503, NAD83
** Total Particulate Matter (10 microns or less) emissions=22.46tons/year
*****************Facility sources: ******************************
** NMED source ID=39172AREA1 Facility's ID=ROAD-1
** Description=Road Dust Construction date=03-OCT-19
** SCC=31000199
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5136hr/yr, 24hr/day
SO LOCATION 39172A1 VOLUME 618338.169 3571030.227 0
SO SRCPARAM 39172A1 .7043288 10 60 9.3
** NMED source ID=39172EQPT1 Facility's ID=ENG-1
** Description=Generator Engine CAT G3516 2059-hp Construction date=03-OCT-19
** SCC=20200401
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5136hr/yr, 24hr/day
SO LOCATION 39172E1 POINT 618345.705 3571037.248 0
SO SRCPARAM 39172E1 .0768588 4.51 804.21 79.58 .3
**********END OF 39172: NGL - Red Road Salt Water Disposal
INFO*************************************
************************************************************
** 21.79km away. Facility ID=37713 Name=Medusa LGL
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0183, -103.5671, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.55tons/year
*****************Facility sources: ******************************
** NMED source ID=37713EQPT13 Facility's ID=HTR-1
** Description=0.5 MMBTU/hr Heated Separator Construction date=31-AUG-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37713E13 VOLUME 635324.399 3543361.462 0
SO SRCPARAM 37713E13 .0005796 4.57 .47 .93
** NMED source ID=37713EQPT17 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=12-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37713E17 POINT 635331.935 3543368.483 0
SO SRCPARAM 37713E17 .0176397 7.01 719.26 27.07 .52
** NMED source ID=37713EQPT18 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=12-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8748hr/yr, 24hr/day
SO LOCATION 37713E18 POINT 635325.149 3543372.035 0
SO SRCPARAM 37713E18 .0176397 7.01 719.26 27.07 .52
```

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** NMED source ID=37713EQPT20 Facility's ID=RBL-1
** Description=Dehy Reboiler Construction date=12-OCT-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37713E20 POINT 635317.552 3543369.943 0
SO SRCPARAM 37713E20 .00126 3.96 588.71 .29 .91
** NMED source ID=37713EQPT24 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=29-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37713E24 POINT 635313.311 3543363.043 0
SO SRCPARAM 37713E24 .0176397 7.01 712.04 27.31 .52
** NMED source ID=37713EQPT25 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=29-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37713E25 POINT 635314.963 3543354.889 0
SO SRCPARAM 37713E25 .0176397 7.01 712.04 27.31 .52
**********END OF 37713: Medusa LGL INFO************************************
************************************************************
** 21.79km away. Facility ID=38680 Name=COG - Hennin Federal 3B CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8051 NOI
** lat,long,datum=32.0779, -103.353847, WGS84
** Total Particulate Matter (10 microns or less) emissions=.14tons/year
*****************Facility sources: ******************************
** NMED source ID=38680AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=19-OCT-18
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38680A1 VOLUME 655365.734 3550255.939 0
SO SRCPARAM 38680A1 .0005796 1 .47 .93
** NMED source ID=38680EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38680E4 VOLUME 655373.27 3550262.96 0
SO SRCPARAM 38680E4 .00126 4.57 .47 .93
** NMED source ID=38680EQPT7 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=19-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38680E7 VOLUME 655366.484 3550266.512 0
SO SRCPARAM 38680E7 .00126 4.57 .47 .93
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** NMED source ID=38680EQPT8 Facility's ID=HT-03
** Description=Heater Treater Burners Construction date=19-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38680E8 VOLUME 655358.887 3550264.42 0
SO SRCPARAM 38680E8 .00126 4.57 .47 .93
**********END OF 38680: COG - Hennin Federal 3B CTB
INFO**********************************
************************************************************
** 21.8km away. Facility ID=37266 Name=Rattlesnake 28 West CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0194, -103.5743, WGS84
** Total Particulate Matter (10 microns or less) emissions=.64tons/year
*****************Facility sources: ******************************
** NMED source ID=37266EQPT2 Facility's ID=HTR-1
** Description=0.75 MMBtu/hr heater treater Construction date=12-MAR-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37266E2 VOLUME 634642.753 3543474.409 0
SO SRCPARAM 37266E2 .00126 4.88 .47 .93
** NMED source ID=37266EQPT19 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=08-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37266E19 POINT 634650.289 3543481.43 0
SO SRCPARAM 37266E19 .0075599 3.96 803.71 59.13 .13
** NMED source ID=37266EQPT20 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=08-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37266E20 POINT 634643.503 3543484.982 0
SO SRCPARAM 37266E20 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=37266EQPT21 Facility's ID=HTR-2
** Description=Heater Treater Construction date=08-DEC-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37266E21 POINT 634635.906 3543482.89 0
SO SRCPARAM 37266E21 .00126 7.32 588.71 .19 1.83
** NMED source ID=37266EQPT22 Facility's ID=HTR-3
** Description=Heater Treater Construction date=08-DEC-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37266E22 VOLUME 634631.665 3543475.99 0
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SO SRCPARAM 37266E22 .00126 4.88 .47 .93
**********END OF 37266: Rattlesnake 28 West CTB
INFO**********************************
************************************************************
** 21.83km away. Facility ID=31865 Name=Rattlesnake 13-12 Fed No 1H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4888 NOI
** lat,long,datum=32.036997, -103.416189, NAD83
** Total Particulate Matter (10 microns or less) emissions=.22tons/year
*****************Facility sources: ****************************
** NMED source ID=31865AREA1 Facility's ID=20
** Description=Unpaved Haul Roads Construction date=25-AUG-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31865A1 VOLUME 649547.704 3545633.236 0
SO SRCPARAM 31865A1 .2784556 10 20 9.3
** NMED source ID=31865EQPT8 Facility's ID=8
** Description=Heater_EQ000065377 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5640hr/yr, 24hr/day
SO LOCATION 31865E8 VOLUME 649555.24 3545640.257 0
SO SRCPARAM 31865E8 .0005796 9.14 .47 .93
**********END OF 31865: Rattlesnake 13-12 Fed No 1H
INFO**********************************
************************************************************
** 21.84km away. Facility ID=7689 Name=Maestro Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.10442, -103.32895, WGS84
** Total Particulate Matter (10 microns or less) emissions=5.11tons/year
*****************Facility sources: ****************************
** NMED source ID=7689EQPT14 Facility's ID=RBL-1
** Description=Reboiler Construction date=23-OCT-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E14 POINT 657670.262 3553232.212 0
SO SRCPARAM 7689E14 .00126 3.05 422.04 5 .3
** NMED source ID=7689EQPT15 Facility's ID=RBL-2
** Description=Reboiler Construction date=23-OCT-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E15 POINT 657677.798 3553239.233 0
SO SRCPARAM 7689E15 .00126 3.05 422.04 5 .3
** NMED source ID=7689EQPT19 Facility's ID=ENG-1
** Description=Caterpillar G3516J Construction date=23-OCT-23
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E19 POINT 657671.012 3553242.785 0
SO SRCPARAM 7689E19 .0138598 7.92 707.04 28.93 .41
** NMED source ID=7689EQPT20 Facility's ID=ENG-2
** Description=Caterpillar G3516J Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E20 POINT 657663.415 3553240.693 0
SO SRCPARAM 7689E20 .0138598 7.92 707.04 28.93 .41
** NMED source ID=7689EQPT21 Facility's ID=ENG-3
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E21 POINT 657659.174 3553233.793 0
SO SRCPARAM 7689E21 .0176397 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT22 Facility's ID=ENG-4
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E22 POINT 657660.826 3553225.639 0
SO SRCPARAM 7689E22 .0176397 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT23 Facility's ID=ENG-5
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E23 POINT 657667.775 3553220.677 0
SO SRCPARAM 7689E23 .0176397 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT24 Facility's ID=ENG-6
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E24 POINT 657676.458 3553221.819 0
SO SRCPARAM 7689E24 .0176397 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT25 Facility's ID=ENG-7
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E25 POINT 657682.168 3553228.747 0
SO SRCPARAM 7689E25 .0176397 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT26 Facility's ID=ENG-8
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E26 POINT 657681.603 3553237.928 0
SO SRCPARAM 7689E26 .0176397 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT27 Facility's ID=GEN-1
** Description=Natural Gas Fired Generator Construction date=23-OCT-23
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E27 POINT 657674.768 3553244.406 0
SO SRCPARAM 7689E27 .0050399 1.8 572.59 15 .08
** NMED source ID=7689RPNT3 Facility's ID=SSM
** Description=SSM Construction date=23-OCT-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689R3 VOLUME 657665.132 3553244.483 0
SO SRCPARAM 7689R3 .0040319 1 .47 .93
**********END OF 7689: Maestro Compressor Station
INFO************************************
************************************************************
** 21.85km away. Facility ID=39173 Name=Airstream 24 State Com CTB 2
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.386306, -103.420503, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.25tons/year
*****************Facility sources: ******************************
** NMED source ID=39173EQPT16 Facility's ID=ENG-2
** Description=Caterpillar G3508BLE Construction date=01-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6456hr/yr, 24hr/day
SO LOCATION 39173E16 POINT 648571.105 3584353.234 0
SO SRCPARAM 39173E16 .0075599 4.57 772.59 64.19 .21
** NMED source ID=39173EQPT19 Facility's ID=HT-1
** Description=1 MMBtu/h Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8520hr/yr, 24hr/day
SO LOCATION 39173E19 POINT 648578.641 3584360.255 0
SO SRCPARAM 39173E19 .00126 3.96 588.71 2.26 .3
** NMED source ID=39173EQPT20 Facility's ID=ENG-1
** Description=Caterpillar G3516TALE Construction date=23-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39173E20 POINT 648571.855 3584363.807 0
SO SRCPARAM 39173E20 .0125998 7.62 771.48 28.62 .41
** NMED source ID=39173EQPT21 Facility's ID=ENG-3
** Description=Caterpillar CG 137-8 Engine, 400 hp Construction date=23-JUN-22
** SCC=20200253
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39173E21 POINT 648564.258 3584361.715 0
SO SRCPARAM 39173E21 .0088199 3.66 802.59 15.1 .25
** NMED source ID=39173EQPT22 Facility's ID=ENG-4
** Description=Caterpillar 3306 B Engine, 145 hp Construction date=23-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39173E22 POINT 648560.017 3584354.815 0
SO SRCPARAM 39173E22 .00252 3.35 909.26 18.32 .15
** NMED source ID=39173EQPT23 Facility's ID=ENG-5
** Description=Caterpillar 3306 B Engine, 145 hp Construction date=23-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39173E23 POINT 648561.669 3584346.661 0
SO SRCPARAM 39173E23 .00252 3.35 909.26 18.32 .15
** NMED source ID=39173EQPT27 Facility's ID=HT-2
** Description=1 MMBtu/h Heater Treater Construction date=23-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39173E27 POINT 648568.618 3584341.699 0
SO SRCPARAM 39173E27 .00126 3.96 588.71 2.26 .3
**********END OF 39173: Airstream 24 State Com CTB 2
INFO**********************************
************************************************************
** 21.86km away. Facility ID=40184 Name=Almost Eddy 30 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0978, -103.7138, WGS84
** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=40184EQPT3 Facility's ID=HTR-1
** Description=Heater Treater Construction date=27-OCT-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40184E3 VOLUME 621363.804 3552000.149 0
SO SRCPARAM 40184E3 .00126 4.88 .47 .93
**********END OF 40184: Almost Eddy 30 Fed Com CTB
INFO**********************************
************************************************************
** 21.88km away. Facility ID=40806 Name=Stray Cat 5 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9790 NOI
** lat,long,datum=32.3402, -103.698576, NAD83
** Total Particulate Matter (10 microns or less) emissions=.39tons/year
*****************Facility sources: ****************************
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** NMED source ID=40806EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=03-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40806E1 POINT 622474.941 3578889.546 0
SO SRCPARAM 40806E1 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40806EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=07-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40806E3 POINT 622482.477 3578896.567 0
SO SRCPARAM 40806E3 .0075599 4.39 790.93 14.04 .26
**********END OF 40806: Stray Cat 5 Wellpad 2
INFO**********************************
************************************************************
** 21.99km away. Facility ID=38447 Name=Red Tank 27-28 CTB
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=7840 NOI
** lat,long,datum=32.364893, -103.669665, WGS84
** Total Particulate Matter (10 microns or less) emissions=.69tons/year
*****************Facility sources: ****************************
** NMED source ID=38447EQPT4 Facility's ID=HTR-1
** Description=NOI 3.0 MMBtu/h Heater Treater Construction date=13-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38447E4 POINT 625161.898 3581660.485 0
SO SRCPARAM 38447E4 .00252 5.49 533.15 1.27 .15
** NMED source ID=38447EQPT18 Facility's ID=HTR-2
** Description=NOI 3.0 MMBTU/h Heater Treater Construction date=26-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38447E18 VOLUME 625169.434 3581667.506 0
SO SRCPARAM 38447E18 .00252 5.49 .47 .93
** NMED source ID=38447EQPT19 Facility's ID=HTR-3
** Description=NOI 3.0 MMBTU/h Heater Treater Construction date=26-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38447E19 VOLUME 625162.648 3581671.058 0
SO SRCPARAM 38447E19 .00252 5.49 .47 .93
** NMED source ID=38447EQPT23 Facility's ID=CHS-1
** Description=NOI 12 MMBtu/h Heater Treater Construction date=07-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38447E23 POINT 625155.051 3581668.966 0
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SO SRCPARAM 38447E23 .0113398 5.49 533.15 5.09 .15
**********END OF 38447: Red Tank 27-28 CTB INFO**********************************
************************************************************
** 22.01km away. Facility ID=37152 Name=EOG - Ophelia 27 East CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.015, -103.558611, WGS84
** Total Particulate Matter (10 microns or less) emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=37152EQPT4 Facility's ID=HTR-1
** Description=Heater Treater (0.75 MMBtu/h) Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37152E4 VOLUME 636131.063 3543006.295 0
SO SRCPARAM 37152E4 .00126 4.88 .47 .93
**********END OF 37152: EOG - Ophelia 27 East CTB
INFO**********************************
************************************************************
** 22.05km away. Facility ID=40057 Name=Franklin - LOE Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=9278 NSR
** lat,long,datum=32.11235, -103.3207, NAD83
** Total Particulate Matter (10 microns or less) emissions=.39tons/year
*****************Facility sources: ******************************
** NMED source ID=40057EQPT11 Facility's ID=HT-01
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3576hr/yr, 24hr/day
SO LOCATION 40057E11 VOLUME 658435.08 3554123.474 0
SO SRCPARAM 40057E11 .00126 6.1 .47 .93
** NMED source ID=40057EQPT12 Facility's ID=HT-02
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3576hr/yr, 24hr/day
SO LOCATION 40057E12 VOLUME 658442.616 3554130.495 0
SO SRCPARAM 40057E12 .00126 6.1 .47 .93
** NMED source ID=40057EQPT13 Facility's ID=HT-03
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E13 VOLUME 658435.83 3554134.047 0
SO SRCPARAM 40057E13 .00126 6.1 .47 .93
** NMED source ID=40057EQPT14 Facility's ID=HT-04
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E14 VOLUME 658428.233 3554131.955 0
SO SRCPARAM 40057E14 .00126 6.1 .47 .93
** NMED source ID=40057EQPT15 Facility's ID=HT-05
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E15 VOLUME 658423.992 3554125.055 0
SO SRCPARAM 40057E15 .00126 6.1 .47 .93
** NMED source ID=40057EQPT16 Facility's ID=HT-06
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E16 VOLUME 658425.644 3554116.901 0
SO SRCPARAM 40057E16 .00126 6.1 .47 .93
** NMED source ID=40057EQPT17 Facility's ID=HT-07
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E17 VOLUME 658432.593 3554111.939 0
SO SRCPARAM 40057E17 .00126 6.1 .47 .93
** NMED source ID=40057EQPT18 Facility's ID=HT-08
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E18 VOLUME 658441.276 3554113.081 0
SO SRCPARAM 40057E18 .00126 6.1 .47 .93
** NMED source ID=40057EQPT19 Facility's ID=HT-09
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E19 VOLUME 658446.986 3554120.009 0
SO SRCPARAM 40057E19 .00126 6.1 .47 .93
** NMED source ID=40057EQPT20 Facility's ID=HT-10
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E20 VOLUME 658446.421 3554129.19 0
SO SRCPARAM 40057E20 .00126 6.1 .47 .93
** NMED source ID=40057EQPT21 Facility's ID=HT-11
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40057E21 VOLUME 658439.586 3554135.668 0
SO SRCPARAM 40057E21 .00126 6.1 .47 .93
** NMED source ID=40057EQPT22 Facility's ID=HT-12
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E22 VOLUME 658429.95 3554135.745 0
SO SRCPARAM 40057E22 .00126 6.1 .47 .93
** NMED source ID=40057EQPT23 Facility's ID=HT-13
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E23 VOLUME 658422.689 3554129.079 0
SO SRCPARAM 40057E23 .00126 6.1 .47 .93
**********END OF 40057: Franklin - LOE Central Tank Battery
INFO***********************************
************************************************************
** 22.08km away. Facility ID=35495 Name=Cotton Draw Unit 11 Bone Spring Central Tank
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6281 NOI
** lat,long,datum=32.149364, -103.746792, NAD83
** Total Particulate Matter (10 microns or less) emissions=.18tons/year
*****************Facility sources: ******************************
** NMED source ID=35495AREA1 Facility's ID=29
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35495A1 VOLUME 618184.016 3557679.674 0
SO SRCPARAM 35495A1 .2784556 10 20 9.3
** NMED source ID=35495EQPT4 Facility's ID=9
** Description=Heater_EQ000054624 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35495E4 VOLUME 618191.552 3557686.695 0
SO SRCPARAM 35495E4 .0005796 9.14 .47 .93
** NMED source ID=35495EQPT12 Facility's ID=10
** Description=Heater_EQ000054628 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35495E12 VOLUME 618184.766 3557690.247 0
SO SRCPARAM 35495E12 .0005796 9.14 .47 .93
**********END OF 35495: Cotton Draw Unit 11 Bone Spring Central Tank
INFO***********************************
************************************************************
** 22.08km away. Facility ID=31350 Name=Cotton Draw Unit 158 Battery
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** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4751 NOI
** lat,long,datum=32.1385, -103.74225, NAD83
** Total Particulate Matter (10 microns or less) emissions=.24tons/year
*****************Facility sources: ****************************
** NMED source ID=31350AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31350A1 VOLUME 618626.449 3556480.322 0
SO SRCPARAM 31350A1 .2784556 10 20 9.3
** NMED source ID=31350EQPT7 Facility's ID=HT-1
** Description=Heater_EQ000128970 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 31350E7 VOLUME 618633.985 3556487.343 0
SO SRCPARAM 31350E7 .0005796 9.14 .47 .93
** NMED source ID=31350EQPT8 Facility's ID=HT-2
** Description=Heater_EQ000128805 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 31350E8 VOLUME 618627.199 3556490.895 0
SO SRCPARAM 31350E8 .0005796 9.14 .47 .93
**********END OF 31350: Cotton Draw Unit 158 Battery
INFO**********************************
**************************************************************
** 22.09km away. Facility ID=38845 Name=Tomb Raider 12-1 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.309223, -103.727492, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.09tons/year
*****************Facility sources: ****************************
** NMED source ID=38845AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=08-MAR-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 38845A1 VOLUME 619794.296 3575422.732 0
SO SRCPARAM 38845A1 .2784556 10 20 9.3
** NMED source ID=38845EQPT2 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater Construction date=08-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38845E2 VOLUME 619801.832 3575429.753 0
SO SRCPARAM 38845E2 .00252 9.14 .47 .93
** NMED source ID=38845EQPT10 Facility's ID=LPC-1
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** Description=188 hp Cummins G855 w/ NSCR Construction date=08-MAR-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38845E10 POINT 619795.046 3575433.305 0
SO SRCPARAM 38845E10 .0037799 2.99 919.82 51.42 .1
** NMED source ID=38845EQPT16 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater Treater Construction date=29-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38845E16 VOLUME 619787.449 3575431.213 0
SO SRCPARAM 38845E16 .00252 9.14 .47 .93
** NMED source ID=38845EQPT17 Facility's ID=LPC-3
** Description=188 hp Cummins G855 w/ NSCR Construction date=29-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38845E17 POINT 619783.208 3575424.313 0
SO SRCPARAM 38845E17 .0037799 2.99 919.82 51.42 .1
**********END OF 38845: Tomb Raider 12-1 CTB 1
INFO************************************
************************************************************
** 22.1km away. Facility ID=34418 Name=Mean Green 27 Fed 1H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5922 NOI
** lat,long,datum=32.021942, -103.450797, NAD83
** Total Particulate Matter (10 microns or less) emissions=.55tons/year
*****************Facility sources: ******************************
** NMED source ID=34418AREA1 Facility's ID=25
** Description=Unpaved Haul Roads Construction date=18-AUG-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34418A1 VOLUME 646303.509 3543916.816 0
SO SRCPARAM 34418A1 .2784556 10 20 9.3
** NMED source ID=34418EQPT7 Facility's ID=9
** Description=Heater_EQ000146716 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 34418E7 VOLUME 646311.045 3543923.837 0
SO SRCPARAM 34418E7 .0005796 9.14 .47 .93
** NMED source ID=34418EQPT8 Facility's ID=10
** Description=Heater_EQ000146547 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 34418E8 VOLUME 646304.259 3543927.389 0
SO SRCPARAM 34418E8 .0005796 9.14 .47 .93
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** NMED source ID=34418EQPT17 Facility's ID=27
** Description=Combustion Engine EQ000062033 Construction date=18-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34418E17 POINT 646296.662 3543925.297 0
SO SRCPARAM 34418E17 .0037799 3.6 853.15 19.79 .17
**********END OF 34418: Mean Green 27 Fed 1H
INFO**********************************
************************************************************
** 22.14km away. Facility ID=37265 Name=Orrtanna 20 Federal No 701H and 702H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.02235, -103.599694, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.3tons/year
*****************Facility sources: ******************************
** NMED source ID=37265AREA1 Facility's ID=HAUL
** Description=haul roads Construction date=11-AUG-16
** SCC=30588801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37265A1 VOLUME 632240.099 3543770.071 0
SO SRCPARAM 37265A1 .2267964 10 20 9.3
**********END OF 37265: Orrtanna 20 Federal No 701H and 702H
INFO**********************************
************************************************************
** 22.15km away. Facility ID=8516 Name=Dagger Lake South TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.401148, -103.591571, NAD83
** Total Particulate Matter (10 microns or less) emissions=.72tons/year
*****************Facility sources: ******************************
** NMED source ID=8516EQPT2 Facility's ID=ENG-1
** Description=188-hp Cummins G855 engine Construction date=27-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E2 POINT 632456.907 3585773.871 0
SO SRCPARAM 8516E2 .0037799 6.1 919.82 11.43 .21
** NMED source ID=8516EQPT3 Facility's ID=ENG-2
** Description=188-hp Cummins G855 engine Construction date=27-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E3 POINT 632464.443 3585780.892 0
SO SRCPARAM 8516E3 .0037799 6.1 919.82 11.43 .21
** NMED source ID=8516EQPT4 Facility's ID=ENG-3
** Description=188-hp Cummins G855 engine Construction date=27-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E4 POINT 632457.657 3585784.444 0
SO SRCPARAM 8516E4 .0037799 6.1 919.82 11.43 .21
** NMED source ID=8516EQPT5 Facility's ID=ENG-4
** Description=188-hp Cummins G855 engine Construction date=27-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E5 POINT 632450.06 3585782.352 0
SO SRCPARAM 8516E5 .0037799 6.1 919.82 11.43 .21
** NMED source ID=8516EQPT8 Facility's ID=HT-1
** Description=Heater Treater Construction date=27-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E8 VOLUME 632445.819 3585775.452 0
SO SRCPARAM 8516E8 .00126 6.1 .47 .93
** NMED source ID=8516EQPT9 Facility's ID=HT-2
** Description=Heater Treater Construction date=27-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E9 VOLUME 632447.471 3585767.298 0
SO SRCPARAM 8516E9 .00126 6.1 .47 .93
** NMED source ID=8516EQPT10 Facility's ID=HT-3
** Description=Heater Treater Construction date=27-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E10 VOLUME 632454.42 3585762.336 0
SO SRCPARAM 8516E10 .00126 6.1 .47 .93
** NMED source ID=8516EQPT11 Facility's ID=HT-4
** Description=Heater Treater Construction date=27-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E11 VOLUME 632463.103 3585763.478 0
SO SRCPARAM 8516E11 .00126 6.1 .47 .93
** NMED source ID=8516EQPT30 Facility's ID=REB-1
** Description=Dehy Reboiler Construction date=27-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E30 POINT 632468.813 3585770.406 0
SO SRCPARAM 8516E30 .00126 6.1 644.26 2.09 .2
** NMED source ID=8516RPNT2 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=27-DEC-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 8516R2 VOLUME 632468.248 3585779.587 0
SO SRCPARAM 8516R2 .0667789 10 10 9.3
**********END OF 8516: Dagger Lake South TB
INFO************************************
************************************************************
** 22.16km away. Facility ID=39684 Name=Tomb Raider 12 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.311422, -103.726875, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.08tons/year
*****************Facility sources: ******************************
** NMED source ID=39684EQPT1 Facility's ID=ENG 2
** Description=Engine 2_EQ000476103 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1944hr/yr, 24hr/day
SO LOCATION 39684E1 POINT 619849.489 3575667.202 0
SO SRCPARAM 39684E1 .0100798 5.58 812.59 35.45 .2
** NMED source ID=39684EQPT2 Facility's ID=ENG 1
** Description=Engine 1 EQ000476103 Construction date=01-JUN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39684E2 POINT 619857.025 3575674.223 0
SO SRCPARAM 39684E2 .0075599 4.39 790.93 14.04 .26
** NMED source ID=39684EQPT3 Facility's ID=ENG 3
** Description=Engine 3 Construction date=28-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39684E3 POINT 619850.239 3575677.775 0
SO SRCPARAM 39684E3 .0075599 4.39 790.93 14.04 .26
** NMED source ID=39684EQPT4 Facility's ID=ENG 4
** Description=Engine 4 Construction date=28-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39684E4 POINT 619842.642 3575675.683 0
SO SRCPARAM 39684E4 .0075599 4.39 790.93 14.04 .26
**********END OF 39684: Tomb Raider 12 Wellpad 1
INFO************************************
************************************************************
** 22.18km away. Facility ID=38781 Name=Devon - Mean Green 23 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.025583, -103.436314, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.64tons/year
*****************Facility sources: ******************************
** NMED source ID=38781EQPT8 Facility's ID=HT-1
** Description=Heater Treater 1, 3 MMBtu/hr Construction date=14-JAN-19
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38781E8 POINT 647665.559 3544340.169 0
SO SRCPARAM 38781E8 .0037799 9.14 708.71 2.82 .34
** NMED source ID=38781RPNT3 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=14-JAN-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38781R3 VOLUME 647673.095 3544347.19 0
SO SRCPARAM 38781R3 .2784556 10 20 9.3
**********END OF 38781: Devon - Mean Green 23 CTB 2
INFO**********************************
************************************************************
** 22.26km away. Facility ID=307 Name=Cal-Mon Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=4922 NAIC=48621    Permit=unknown
** lat,long,datum=32.26374, -103.75183, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.96tons/year
*****************Facility sources: ****************************
** NMED source ID=307EQPT4 Facility's ID=002
** Description=Waukesha L7042GSI Construction date=22-AUG-05
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6513hr/yr, 24hr/day
SO LOCATION 307E4 POINT 617577.451 3570289.582 0
SO SRCPARAM 307E4 .0281858 7.01 841.48 34.75 .36
** NMED source ID=307EQPT18 Facility's ID=001B
** Description=Waukesha L7042GSI Construction date=16-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 307E18 POINT 617577.451 3570289.582 0
SO SRCPARAM 307E18 .0281858 6.1 841.48 34.75 .36
**********END OF 307: Cal-Mon Compressor Station
INFO**********************************
************************************************************
** 22.29km away. Facility ID=39783 Name=Caza - Sioux 25-36 State Fed Com 8H 9H 10H
11H 12H and 13H Production Facility
** Company ID=13636 Name=Caza Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.108575, -103.320298, WGS84
** Total Particulate Matter (10 microns or less) emissions=.68tons/year
*****************Facility sources: ****************************
** NMED source ID=39783AREA1 Facility's ID=HR-1
** Description=Haul Road -water Construction date=30-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39783A1 VOLUME 658479.535 3553705.548 0
SO SRCPARAM 39783A1 .0214197 1 .47 .93
** NMED source ID=39783EQPT3 Facility's ID=HT-1
** Description=Heater Treater Construction date=30-DEC-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E3 VOLUME 658487.071 3553712.569 0
SO SRCPARAM 39783E3 .00126 4.57 .47 .93
** NMED source ID=39783EQPT4 Facility's ID=HT-2
** Description=Heater Treater Construction date=30-DEC-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E4 VOLUME 658480.285 3553716.121 0
SO SRCPARAM 39783E4 .00126 4.57 .47 .93
** NMED source ID=39783EQPT5 Facility's ID=HT-3
** Description=Heater Treater Construction date=30-DEC-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E5 VOLUME 658472.688 3553714.029 0
SO SRCPARAM 39783E5 .00126 4.57 .47 .93
** NMED source ID=39783EQPT6 Facility's ID=HT-4
** Description=Heater Treater Construction date=30-DEC-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E6 VOLUME 658468.447 3553707.129 0
SO SRCPARAM 39783E6 .00126 4.57 .47 .93
**********END OF 39783: Caza - Sioux 25-36 State Fed Com 8H 9H 10H 11H 12H and 13H
Production Facility INFO**********************************
************************************************************
** 22.32km away. Facility ID=39500 Name=Uncle Don 35 State Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=8784 NOI
** lat,long,datum=32.341966, -103.344776, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.3tons/year
*****************Facility sources: ****************************
** NMED source ID=39500AREA1 Facility's ID=HR
** Description=Unpaved Haul Roads Construction date=18-APR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39500A1 VOLUME 655771.035 3579545.054 0
SO SRCPARAM 39500A1 .0002898 1 .47 .93
** NMED source ID=39500EQPT9 Facility's ID=GEN-2
** Description=Generator Perkins  216 HP Construction date=16-JUN-21
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39500E9 POINT 655771.785 3579555.627 0
SO SRCPARAM 39500E9 .065519 6.1 857.59 14.31 .21
**********END OF 39500: Uncle Don 35 State Facility
INFO**********************************
************************************************************
** 22.34km away. Facility ID=38674 Name=Talco 9 26 35  Federal 3H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8046 NOI
** lat,long,datum=32.058686, -103.3689, WGS84
** Total Particulate Matter (10 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=38674AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=29-NOV-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38674A1 VOLUME 653977.051 3548104.223 0
SO SRCPARAM 38674A1 .0088199 1 .47 .93
** NMED source ID=38674EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38674E4 VOLUME 653984.587 3548111.244 0
SO SRCPARAM 38674E4 .00126 4.57 .47 .93
**********END OF 38674: Talco 9 26 35  Federal 3H Battery
INFO**********************************
************************************************************
** 22.37km away. Facility ID=31258 Name=Cotton Draw Unit 13 Fed 1H CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4730 NOI
** lat,long,datum=32.123954, -103.738091, NAD83
** Total Particulate Matter (10 microns or less) emissions=.22tons/year
*****************Facility sources: ****************************
** NMED source ID=31258AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=04-APR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31258A1 VOLUME 619037.63 3554872.393 0
SO SRCPARAM 31258A1 .2784556 10 20 9.3
** NMED source ID=31258EQPT3 Facility's ID=HT-1
** Description=HT-1 EQ000062102 Construction date=04-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31258E3 VOLUME 619045.166 3554879.414 0
SO SRCPARAM 31258E3 .0005796 9.14 .47 .93
** NMED source ID=31258EQPT4 Facility's ID=HT-2
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** Description=HT-2 EQ000062104 Construction date=04-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31258E4 VOLUME 619038.38 3554882.966 0
SO SRCPARAM 31258E4 .0005796 9.14 .47 .93
**********END OF 31258: Cotton Draw Unit 13 Fed 1H CTB
INFO**********************************
************************************************************
** 22.4km away. Facility ID=40118 Name=El Campeon CTB 17N
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.044334, -103.38996, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.37tons/year
*****************Facility sources: ******************************
** NMED source ID=40118AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=30-NOV-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118A1 VOLUME 652012.473 3546483.264 0
SO SRCPARAM 40118A1 .1322979 10 10 9.3
** NMED source ID=40118EQPT5 Facility's ID=HT-1
** Description=Heater Treater 0.75 MMBtu/h Construction date=04-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E5 VOLUME 652020.009 3546490.285 0
SO SRCPARAM 40118E5 .00126 4.57 .47 .93
** NMED source ID=40118EQPT6 Facility's ID=HT-4
** Description=Heater Treater 1 MMBtu/h Dual Burner Construction date=04-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E6 VOLUME 652013.223 3546493.837 0
SO SRCPARAM 40118E6 .00252 4.57 .47 .93
** NMED source ID=40118EQPT22 Facility's ID=HT-2
** Description=Heater Treater 0.75 MMBtu/h Construction date=04-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E22 VOLUME 652005.626 3546491.745 0
SO SRCPARAM 40118E22 .00126 4.57 .47 .93
** NMED source ID=40118EQPT23 Facility's ID=HT-3
** Description=Heater Treater 0.75 MMBtu/h Construction date=04-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E23 VOLUME 652001.385 3546484.845 0
SO SRCPARAM 40118E23 .00126 4.57 .47 .93
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** NMED source ID=40118EQPT30 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=27-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E30 POINT 652003.037 3546476.691 0
SO SRCPARAM 40118E30 .0075599 4.57 1003.71 28.06 .21
** NMED source ID=40118EQPT31 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=27-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E31 POINT 652009.986 3546471.729 0
SO SRCPARAM 40118E31 .0075599 4.57 1003.71 28.06 .21
** NMED source ID=40118EQPT32 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=27-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E32 POINT 652018.669 3546472.871 0
SO SRCPARAM 40118E32 .0125998 4.57 805.37 74.49 .27
** NMED source ID=40118EQPT35 Facility's ID=HT-5
** Description=Heater Treater 1 MMBtu/h Dual Burner Construction date=27-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E35 VOLUME 652024.379 3546479.799 0
SO SRCPARAM 40118E35 .00252 4.57 .47 .93
** NMED source ID=40118EQPT36 Facility's ID=HT-6
** Description=Heater Treater 1 MMBtu/h Dual Burner Construction date=27-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E36 VOLUME 652023.814 3546488.98 0
SO SRCPARAM 40118E36 .00252 4.57 .47 .93
** NMED source ID=40118EQPT37 Facility's ID=HT-7
** Description=Heater Treater 1 MMBtu/h Dual Burner Construction date=27-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E37 VOLUME 652016.979 3546495.458 0
SO SRCPARAM 40118E37 .00252 4.57 .47 .93
** NMED source ID=40118EQPT38 Facility's ID=HT-8
** Description=Heater Treater 0.75 MMBtu/h Construction date=27-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E38 VOLUME 652007.343 3546495.535 0
SO SRCPARAM 40118E38 .00126 4.57 .47 .93
** NMED source ID=40118EQPT48 Facility's ID=ENG-1A
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** Description=Compressor Engine Construction date=30-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E48 POINT 652000.082 3546488.869 0
SO SRCPARAM 40118E48 .0037799 4.57 846.48 25.1 .15
** NMED source ID=40118EQPT49 Facility's ID=ENG-2A
** Description=Compressor Engine Construction date=30-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E49 POINT 651999.302 3546478.823 0
SO SRCPARAM 40118E49 .0037799 4.57 846.48 25.1 .15
** NMED source ID=40118EQPT50 Facility's ID=ENG-3A
** Description=Compressor Engine Construction date=30-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E50 POINT 652005.72 3546470.772 0
SO SRCPARAM 40118E50 .0075599 4.57 1003.71 28.06 .21
** NMED source ID=40118EQPT51 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=30-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E51 POINT 652016.122 3546469.231 0
SO SRCPARAM 40118E51 .0125998 4.57 740.37 65.47 .27
** NMED source ID=40118EQPT54 Facility's ID=HT-9
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E54 VOLUME 652024.962 3546475.323 0
SO SRCPARAM 40118E54 .00126 4.57 .47 .93
** NMED source ID=40118EQPT55 Facility's ID=HT-10
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E55 VOLUME 652027.319 3546486.021 0
SO SRCPARAM 40118E55 .00126 4.57 .47 .93
** NMED source ID=40118EQPT56 Facility's ID=HT-11
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E56 VOLUME 652021.635 3546495.642 0
SO SRCPARAM 40118E56 .00126 4.57 .47 .93
** NMED source ID=40118EQPT57 Facility's ID=HT-12
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E57 VOLUME 652010.705 3546498.864 0
SO SRCPARAM 40118E57 .00126 4.57 .47 .93
** NMED source ID=40118EQPT58 Facility's ID=HT-13
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E58 VOLUME 652000.318 3546493.669 0
SO SRCPARAM 40118E58 .00126 4.57 .47 .93
** NMED source ID=40118EQPT59 Facility's ID=HT-14
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E59 VOLUME 651996.187 3546482.579 0
SO SRCPARAM 40118E59 .00126 4.57 .47 .93
** NMED source ID=40118EQPT60 Facility's ID=HT-15
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E60 VOLUME 652000.813 3546471.448 0
SO SRCPARAM 40118E60 .00126 4.57 .47 .93
** NMED source ID=40118EQPT61 Facility's ID=HT-16
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E61 VOLUME 652011.987 3546466.371 0
SO SRCPARAM 40118E61 .00126 4.57 .47 .93
** NMED source ID=40118EQPT62 Facility's ID=HT-17
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E62 VOLUME 652023.83 3546470.347 0
SO SRCPARAM 40118E62 .00126 4.57 .47 .93
** NMED source ID=40118EQPT63 Facility's ID=HT-18
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E63 VOLUME 652029.886 3546481.525 0
SO SRCPARAM 40118E63 .00126 4.57 .47 .93
** NMED source ID=40118EQPT64 Facility's ID=HT-19
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E64 VOLUME 652026.639 3546494.043 0
SO SRCPARAM 40118E64 .00126 4.57 .47 .93
** NMED source ID=40118EQPT65 Facility's ID=HT-20
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E65 VOLUME 652015.541 3546501.102 0
SO SRCPARAM 40118E65 .00126 4.57 .47 .93
** NMED source ID=40118EQPT66 Facility's ID=HT-21
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E66 VOLUME 652002.395 3546498.658 0
SO SRCPARAM 40118E66 .00126 4.57 .47 .93
** NMED source ID=40118EQPT67 Facility's ID=HT-22
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E67 VOLUME 651994.314 3546487.73 0
SO SRCPARAM 40118E67 .00126 4.57 .47 .93
** NMED source ID=40118EQPT68 Facility's ID=HT-23
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E68 VOLUME 651995.88 3546474.008 0
SO SRCPARAM 40118E68 .00126 4.57 .47 .93
** NMED source ID=40118EQPT69 Facility's ID=HT-24
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E69 VOLUME 652006.55 3546464.895 0
SO SRCPARAM 40118E69 .00126 4.57 .47 .93
** NMED source ID=40118EQPT74 Facility's ID=ENG-7A
** Description=Compressor Engine Construction date=30-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E74 POINT 652020.787 3546465.515 0
SO SRCPARAM 40118E74 .0037799 4.57 846.48 25.1 .15
**********END OF 40118: El Campeon CTB 17N INFO**********************************
************************************************************
** 22.42km away. Facility ID=40175 Name=Sand Dunes 10 CS
** Company ID=164 Name=Chevron USA Inc - Midland
```

```
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.229764, -103.760867, NAD83
** Total Particulate Matter (10 microns or less) emissions=4.05tons/year
*****************Facility sources: ******************************
** NMED source ID=40175EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine CAT G3608A4 2500-hp Construction date=12-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E1 POINT 616753.876 3566577.217 0
SO SRCPARAM 40175E1 .0214197 6.1 718.71 26.21 .61
** NMED source ID=40175EQPT4 Facility's ID=REB-1
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=12-OCT-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E4 POINT 616761.412 3566584.238 0
SO SRCPARAM 40175E4 .00126 5.79 533.15 .07 .46
** NMED source ID=40175EQPT8 Facility's ID=ENG-2
** Description=Compressor Engine CAT G3608A4 2500-hp Construction date=10-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E8 POINT 616754.626 3566587.79 0
SO SRCPARAM 40175E8 .0214197 6.1 718.71 26.21 .61
** NMED source ID=40175EQPT9 Facility's ID=ENG-3
** Description=Compressor Engine CAT G3608A4 2500-hp Construction date=10-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E9 POINT 616747.029 3566585.698 0
SO SRCPARAM 40175E9 .0214197 6.1 718.71 26.21 .61
** NMED source ID=40175EQPT10 Facility's ID=ENG-4
** Description=Compressor Engine CAT G3608A4 2500-hp Construction date=10-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E10 POINT 616742.788 3566578.798 0
SO SRCPARAM 40175E10 .0214197 6.1 718.71 26.21 .61
** NMED source ID=40175EQPT11 Facility's ID=REB-2
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=10-JUN-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E11 POINT 616744.44 3566570.644 0
SO SRCPARAM 40175E11 .00126 5.79 533.15 .07 .46
** NMED source ID=40175EQPT12 Facility's ID=REB-3
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=10-JUN-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E12 POINT 616751.389 3566565.682 0
SO SRCPARAM 40175E12 .00126 5.79 533.15 .07 .46
** NMED source ID=40175EQPT13 Facility's ID=REB-4
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=10-JUN-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E13 POINT 616760.072 3566566.824 0
SO SRCPARAM 40175E13 .00126 5.79 533.15 .07 .46
** NMED source ID=40175EQPT14 Facility's ID=REB-5
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=10-JUN-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E14 POINT 616765.782 3566573.752 0
SO SRCPARAM 40175E14 .00126 5.79 533.15 .07 .46
** NMED source ID=40175EQPT15 Facility's ID=REB-6
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=10-JUN-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E15 POINT 616765.217 3566582.933 0
SO SRCPARAM 40175E15 .00126 5.79 533.15 .07 .46
** NMED source ID=40175EQPT26 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=25-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E26 POINT 616758.382 3566589.411 0
SO SRCPARAM 40175E26 .0214197 6.1 718.71 26.21 .61
**********END OF 40175: Sand Dunes 10 CS INFO**********************************
************************************************************
** 22.44km away. Facility ID=30897 Name=Cotton Draw Unit 135
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4606 NOI
** lat,long,datum=32.152761, -103.752058, NAD83
** Total Particulate Matter (10 microns or less) emissions=.23tons/year
*****************Facility sources: ****************************
** NMED source ID=30897AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8640hr/yr, 24hr/day
SO LOCATION 30897A1 VOLUME 617683.005 3558050.484 0
SO SRCPARAM 30897A1 .2784556 10 20 9.3
** NMED source ID=30897EQPT7 Facility's ID=HT-1
** Description=Heater_EQ000117603 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 30897E7 VOLUME 617690.541 3558057.505 0
SO SRCPARAM 30897E7 .0005796 9.14 .47 .93
**********END OF 30897: Cotton Draw Unit 135
INFO**********************************
************************************************************
** 22.52km away. Facility ID=36802 Name=Salado Draw 23 Compressor Station & Tank
Battery
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21113    Permit=6832 NSR
** lat,long,datum=32.036306, -103.645306, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.12tons/year
*****************Facility sources: ******************************
** NMED source ID=36802EQPT5 Facility's ID=HTR-1
** Description=Heater/Treater Construction date=30-MAR-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E5 VOLUME 627912.894 3545262.259 0
SO SRCPARAM 36802E5 .0037799 6.1 .47 .93
** NMED source ID=36802EQPT6 Facility's ID=HTR-2
** Description=Heater/Treater Construction date=30-MAR-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E6 VOLUME 627920.43 3545269.28 0
SO SRCPARAM 36802E6 .0037799 6.1 .47 .93
** NMED source ID=36802EQPT7 Facility's ID=HTR-3
** Description=Heater/Treater Construction date=30-MAR-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E7 VOLUME 627913.644 3545272.832 0
SO SRCPARAM 36802E7 .0037799 6.1 .47 .93
** NMED source ID=36802EQPT8 Facility's ID=HTR-4
** Description=Heater/Treater Construction date=30-MAR-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E8 VOLUME 627906.047 3545270.74 0
SO SRCPARAM 36802E8 .0037799 6.1 .47 .93
** NMED source ID=36802EQPT16 Facility's ID=HTR-5
** Description=Heater/Treater Construction date=20-MAR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E16 VOLUME 627901.806 3545263.84 0
SO SRCPARAM 36802E16 .0037799 6.1 .47 .93
** NMED source ID=36802EQPT19 Facility's ID=HTR-6
** Description=Heater/Treater Construction date=20-MAR-18
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E19 VOLUME 627903.458 3545255.686 0
SO SRCPARAM 36802E19 .0037799 6.1 .47 .93
** NMED source ID=36802EQPT20 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7390hr/yr, 20hr/day
SO LOCATION 36802E20 POINT 627910.407 3545250.724 0
SO SRCPARAM 36802E20 .0163797 8.84 717.04 20.97 .5
** NMED source ID=36802EQPT21 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E21 POINT 627919.09 3545251.866 0
SO SRCPARAM 36802E21 .0163797 8.84 717.04 20.97 .5
** NMED source ID=36802EQPT22 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E22 POINT 627924.8 3545258.794 0
SO SRCPARAM 36802E22 .0163797 8.84 717.04 20.97 .5
** NMED source ID=36802EQPT23 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36802E23 POINT 627924.235 3545267.975 0
SO SRCPARAM 36802E23 .0163797 8.84 717.04 20.97 .5
** NMED source ID=36802EQPT27 Facility's ID=REB-1
** Description=Reboiler Construction date=07-JUN-17
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E27 POINT 627917.4 3545274.453 0
SO SRCPARAM 36802E27 .00126 4.88 533.15 2.52 .3
**********END OF 36802: Salado Draw 23 Compressor Station & Tank Battery
INFO************************************
************************************************************
** 22.53km away. Facility ID=40378 Name=Tatanka North Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.082106, -103.339109, NAD83
** Total Particulate Matter (10 microns or less) emissions=.7tons/year
*****************Facility sources: ******************************
** NMED source ID=40378EQPT4 Facility's ID=HT-01
```

```
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E4 VOLUME 656749.712 3550743.562 0
SO SRCPARAM 40378E4 .00126 6.1 .47 .93
** NMED source ID=40378EQPT5 Facility's ID=HT-02
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E5 VOLUME 656757.248 3550750.583 0
SO SRCPARAM 40378E5 .00126 6.1 .47 .93
** NMED source ID=40378EQPT6 Facility's ID=HT-03
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E6 VOLUME 656750.462 3550754.135 0
SO SRCPARAM 40378E6 .00126 6.1 .47 .93
** NMED source ID=40378EQPT7 Facility's ID=HT-04
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E7 VOLUME 656742.865 3550752.043 0
SO SRCPARAM 40378E7 .00126 6.1 .47 .93
** NMED source ID=40378EQPT8 Facility's ID=HT-05
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E8 VOLUME 656738.624 3550745.143 0
SO SRCPARAM 40378E8 .00126 6.1 .47 .93
** NMED source ID=40378EQPT9 Facility's ID=HT-06
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E9 VOLUME 656740.276 3550736.989 0
SO SRCPARAM 40378E9 .00126 6.1 .47 .93
** NMED source ID=40378EQPT10 Facility's ID=HT-07
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E10 VOLUME 656747.225 3550732.027 0
SO SRCPARAM 40378E10 .00126 6.1 .47 .93
** NMED source ID=40378EQPT11 Facility's ID=HT-08
** Description=Heater Treater Construction date=11-OCT-22
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** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E11 VOLUME 656755.908 3550733.169 0
SO SRCPARAM 40378E11 .00126 6.1 .47 .93
** NMED source ID=40378EQPT12 Facility's ID=HT-09
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E12 VOLUME 656761.618 3550740.097 0
SO SRCPARAM 40378E12 .00126 6.1 .47 .93
** NMED source ID=40378EQPT13 Facility's ID=HT-10
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E13 VOLUME 656761.053 3550749.278 0
SO SRCPARAM 40378E13 .00126 6.1 .47 .93
** NMED source ID=40378EQPT14 Facility's ID=HT-11
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E14 VOLUME 656754.218 3550755.756 0
SO SRCPARAM 40378E14 .00126 6.1 .47 .93
** NMED source ID=40378EQPT15 Facility's ID=HT-12
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E15 VOLUME 656744.582 3550755.833 0
SO SRCPARAM 40378E15 .00126 6.1 .47 .93
** NMED source ID=40378EQPT16 Facility's ID=HT-13
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E16 VOLUME 656737.321 3550749.167 0
SO SRCPARAM 40378E16 .00126 6.1 .47 .93
** NMED source ID=40378EQPT17 Facility's ID=HT-14
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E17 VOLUME 656736.541 3550739.121 0
SO SRCPARAM 40378E17 .00126 6.1 .47 .93
** NMED source ID=40378EQPT18 Facility's ID=HT-15
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E18 VOLUME 656742.959 3550731.07 0
SO SRCPARAM 40378E18 .00126 6.1 .47 .93
** NMED source ID=40378EQPT19 Facility's ID=HT-16
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E19 VOLUME 656753.361 3550729.529 0
SO SRCPARAM 40378E19 .0062999 6.1 .47 .93
** NMED source ID=40378EQPT20 Facility's ID=HT-17
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E20 VOLUME 656762.201 3550735.621 0
SO SRCPARAM 40378E20 .0062999 6.1 .47 .93
**********END OF 40378: Tatanka North Central Tank Battery
INFO**********************************
**************************************************************
** 22.57km away. Facility ID=40089 Name=El Campeon CTB 17S
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.040487, -103.393626, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.21tons/year
*****************Facility sources: ******************************
** NMED source ID=40089AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=08-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089A1 VOLUME 651672.652 3546051.62 0
SO SRCPARAM 40089A1 .440993 10 40 9.3
** NMED source ID=40089EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3306TA Construction date=23-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E1 POINT 651680.188 3546058.641 0
SO SRCPARAM 40089E1 .0037799 4.57 853.15 25.05 .15
** NMED source ID=40089EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3306TA Construction date=23-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E2 POINT 651673.402 3546062.193 0
SO SRCPARAM 40089E2 .0037799 4.57 853.15 25.05 .15
** NMED source ID=40089EQPT3 Facility's ID=ENG-3
** Description=Caterpillar G3306TA Construction date=23-JUL-21
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E3 POINT 651665.805 3546060.101 0
SO SRCPARAM 40089E3 .0037799 4.57 853.15 25.05 .15
** NMED source ID=40089EQPT5 Facility's ID=ENG-5
** Description=Caterpillar G3306TA Construction date=23-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E5 POINT 651661.564 3546053.201 0
SO SRCPARAM 40089E5 .0037799 4.57 853.15 25.05 .15
** NMED source ID=40089EQPT6 Facility's ID=ENG-6
** Description=Caterpillar G3306TA Construction date=23-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E6 POINT 651663.216 3546045.047 0
SO SRCPARAM 40089E6 .0037799 4.57 853.15 25.05 .15
** NMED source ID=40089EQPT7 Facility's ID=ENG-7
** Description=Caterpillar G3306TA Construction date=23-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E7 POINT 651670.165 3546040.085 0
SO SRCPARAM 40089E7 .0037799 4.57 853.15 25.05 .15
** NMED source ID=40089EQPT8 Facility's ID=HT-1
** Description=0.75 MMBtu/h Heater Treater Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E8 VOLUME 651678.848 3546041.227 0
SO SRCPARAM 40089E8 .00126 4.57 .47 .93
** NMED source ID=40089EQPT9 Facility's ID=HT-2
** Description=0.75 MMBtu/h Heater Treater Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E9 VOLUME 651684.558 3546048.155 0
SO SRCPARAM 40089E9 .00126 4.57 .47 .93
** NMED source ID=40089EQPT10 Facility's ID=HT-3
** Description=0.75 MMBtu/h Heater Treater Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E10 VOLUME 651683.993 3546057.336 0
SO SRCPARAM 40089E10 .00126 4.57 .47 .93
** NMED source ID=40089EQPT11 Facility's ID=HT-4
** Description=0.75 MMBtu/h Heater Treater Construction date=23-JUL-21
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E11 VOLUME 651677.158 3546063.814 0
SO SRCPARAM 40089E11 .00126 4.57 .47 .93
** NMED source ID=40089EQPT12 Facility's ID=HT-5
** Description=0.75 MMBtu/h Heater Treater Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E12 VOLUME 651667.522 3546063.891 0
SO SRCPARAM 40089E12 .00126 4.57 .47 .93
** NMED source ID=40089EQPT13 Facility's ID=HT-6
** Description=0.75 MMBtu/h Heater Treater Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E13 VOLUME 651660.261 3546057.225 0
SO SRCPARAM 40089E13 .00126 4.57 .47 .93
** NMED source ID=40089EQPT14 Facility's ID=HT-7
** Description=0.75 MMBtu/h Heater Treater Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E14 VOLUME 651659.481 3546047.179 0
SO SRCPARAM 40089E14 .00126 4.57 .47 .93
** NMED source ID=40089EQPT41 Facility's ID=HT-8
** Description=0.75 MMBtu/h Heater Treater Construction date=15-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E41 VOLUME 651665.899 3546039.128 0
SO SRCPARAM 40089E41 .00126 4.57 .47 .93
** NMED source ID=40089EQPT42 Facility's ID=HT-9
** Description=0.75 MMBtu/h Heater Treater Construction date=15-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E42 VOLUME 651676.301 3546037.587 0
SO SRCPARAM 40089E42 .00126 4.57 .47 .93
** NMED source ID=40089EQPT47 Facility's ID=ENG-4A
** Description=Compressor Engine Construction date=08-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E47 POINT 651685.141 3546043.679 0
SO SRCPARAM 40089E47 .0075599 4.57 778.71 40.29 .15
** NMED source ID=40089EQPT48 Facility's ID=ENG-8A
** Description=Compressor Engine Construction date=08-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E48 POINT 651687.498 3546054.377 0
SO SRCPARAM 40089E48 .0075599 4.57 778.71 40.36 .15
** NMED source ID=40089EQPT50 Facility's ID=GEN-1
** Description=Electric Generator Construction date=08-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E50 POINT 651681.814 3546063.998 0
SO SRCPARAM 40089E50 .0088199 4.57 1005.37 49.04 .15
** NMED source ID=40089EQPT51 Facility's ID=GEN-2
** Description=Electric Generator Construction date=08-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E51 POINT 651670.884 3546067.22 0
SO SRCPARAM 40089E51 .0088199 4.57 1005.37 49.04 .15
** NMED source ID=40089EQPT52 Facility's ID=GEN-3
** Description=Electric Generator Construction date=08-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E52 POINT 651660.497 3546062.025 0
SO SRCPARAM 40089E52 .0088199 4.57 1005.37 49.04 .15
** NMED source ID=40089EQPT53 Facility's ID=GEN-4
** Description=Electric Generator Construction date=08-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E53 POINT 651656.366 3546050.935 0
SO SRCPARAM 40089E53 .0088199 4.57 1005.37 49.04 .15
**********END OF 40089: El Campeon CTB 17S INFO************************************
************************************************************
** 22.58km away. Facility ID=38375 Name=Calmon 35 Fed CTB No2
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=7788 NOI
** lat,long,datum=32.268667, -103.753639, NAD83
** Total Particulate Matter (10 microns or less) emissions=.2tons/year
*****************Facility sources: ****************************
** NMED source ID=38375EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000128
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38375E1 VOLUME 617384.893 3570897.813 0
SO SRCPARAM 38375E1 .00252 3.66 .47 .93
** NMED source ID=38375EQPT2 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000128
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38375E2 VOLUME 617392.429 3570904.834 0
SO SRCPARAM 38375E2 .00252 3.66 .47 .93
**********END OF 38375: Calmon 35 Fed CTB No2
INFO**********************************
************************************************************
** 22.58km away. Facility ID=6157 Name=Tomb Raider 12 Wellpad 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10010 NOI
** lat,long,datum=32.312679, -103.731125, NAD83
** Total Particulate Matter (10 microns or less) emissions=.37tons/year
*****************Facility sources: ****************************
** NMED source ID=6157EQPT1 Facility's ID=ENG 1
** Description=Combustion Engine Construction date=28-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6157E1 POINT 619447.724 3575801.807 0
SO SRCPARAM 6157E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=6157EQPT2 Facility's ID=ENG 2
** Description=Combustion Engine Construction date=28-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6157E2 POINT 619455.26 3575808.828 0
SO SRCPARAM 6157E2 .0037799 3.6 853.15 19.96 .17
**********END OF 6157: Tomb Raider 12 Wellpad 4
INFO**********************************
************************************************************
** 22.61km away. Facility ID=40926 Name=Bora Bora 13 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.309025, -103.734012, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.57tons/year
*****************Facility sources: ****************************
** NMED source ID=40926AREA1 Facility's ID=ROAD-1
** Description=ROAD-1 Unpaved Haul Roads Construction date=13-MAR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40926A1 VOLUME 619180.718 3575393.512 0
SO SRCPARAM 40926A1 .2784556 10 20 9.3
** NMED source ID=40926EQPT2 Facility's ID=HT-1
** Description=HT-1 Heater Treater Construction date=13-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40926E2 VOLUME 619188.254 3575400.533 0
SO SRCPARAM 40926E2 .00252 9.14 .47 .93
** NMED source ID=40926EQPT3 Facility's ID=HT-2
```

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** Description=HT-2 Heater Treater Construction date=13-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40926E3 VOLUME 619181.468 3575404.085 0
SO SRCPARAM 40926E3 .00252 9.14 .47 .93
**********END OF 40926: Bora Bora 13 CTB 2 INFO**********************************
************************************************************
** 22.61km away. Facility ID=40908 Name=Boundary Raider 6 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9860 NOI
** lat,long,datum=32.339804, -103.709229, NAD83
** Total Particulate Matter (10 microns or less) emissions=.24tons/year
*****************Facility sources: ****************************
** NMED source ID=40908EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Compressor Engine Construction date=31-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40908E1 POINT 621472.86 3578833.511 0
SO SRCPARAM 40908E1 .0062999 5.85 772.59 21.02 .27
**********END OF 40908: Boundary Raider 6 Wellpad 3
INFO**********************************
************************************************************
** 22.64km away. Facility ID=31985 Name= Livestock Federal 2-9 Pad
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=4938 NOI
** lat,long,datum=32.40937, -103.57472, NAD83
** Total Particulate Matter (10 microns or less) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=31985EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31985E1 POINT 634029.659 3586706.403 0
SO SRCPARAM 31985E1 .0005796 3.05 310.93 .23 .15
**********END OF 31985:  Livestock Federal 2-9 Pad
INFO**********************************
************************************************************
** 22.66km away. Facility ID=5906 Name=Bora Bora 13 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10003 NOI
** lat,long,datum=32.310983, -103.733303, NAD83
** Total Particulate Matter (10 microns or less) emissions=.41tons/year
*****************Facility sources: ****************************
** NMED source ID=5906EQPT1 Facility's ID=ENG-1
** Description=Combustion Engine Construction date=14-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5906E1 POINT 619244.902 3575611.364 0
SO SRCPARAM 5906E1 .0088199 3.51 1000.37 71.17 .13
** NMED source ID=5906EQPT2 Facility's ID=ENG-2
** Description=Combustion Engine Construction date=14-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5906E2 POINT 619252.438 3575618.385 0
SO SRCPARAM 5906E2 .0037799 3.6 853.15 19.96 .17
**********END OF 5906: Bora Bora 13 Wellpad 2
INFO**********************************
************************************************************
** 22.67km away. Facility ID=39591 Name=Black Marlin A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.135789, -103.300103, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.36tons/year
*****************Facility sources: ****************************
** NMED source ID=39591EQPT14 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=11-FEB-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591E14 POINT 660337.562 3556752.536 0
SO SRCPARAM 39591E14 .0113398 4.57 724.26 110.64 .2
** NMED source ID=39591EQPT15 Facility's ID=HT-2
** Description=Heater Treater 1, 1.0 MMBtu/hr Construction date=04-FEB-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591E15 POINT 660345.098 3556759.557 0
SO SRCPARAM 39591E15 .00252 4.57 510.93 .4 .3
** NMED source ID=39591EQPT16 Facility's ID=TRB-1
** Description=Elec Generating Turbine Construction date=11-FEB-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591E16 POINT 660338.312 3556763.109 0
SO SRCPARAM 39591E16 .00252 4.57 537.04 11.49 .08
** NMED source ID=39591EQPT17 Facility's ID=TRB-2
** Description=Elec Generating Turbine Construction date=11-FEB-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591E17 POINT 660330.715 3556761.017 0
SO SRCPARAM 39591E17 .00252 4.57 537.04 11.49 .08
** NMED source ID=39591EQPT18 Facility's ID=TRB-3
** Description=Elec Generating Turbine Construction date=11-FEB-22
** SCC=20100201
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591E18 POINT 660326.474 3556754.117 0
SO SRCPARAM 39591E18 .00252 4.57 537.04 11.49 .08
** NMED source ID=39591RPNT2 Facility's ID=HR-1
** Description=Unpaved Haul Road-1 Construction date=07-JUL-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591R2 VOLUME 660328.126 3556745.963 0
SO SRCPARAM 39591R2 .1322979 10 10 9.3
**********END OF 39591: Black Marlin A CTB INFO************************************
************************************************************
** 22.68km away. Facility ID=38146 Name=XTO - PLU Twin Wells East Tank Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=7563 NSR
** lat,long,datum=32.208611, -103.764722, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.36tons/year
*****************Facility sources: ******************************
** NMED source ID=38146AREA2 Facility's ID=ROAD
** Description=Haul Road Emissions Construction date=15-NOV-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38146A2 VOLUME 616417.584 3564228.064 0
SO SRCPARAM 38146A2 .0345235 1 .47 .93
** NMED source ID=38146EQPT8 Facility's ID=LPF1
** Description=Low Pressure Flare  Construction date=15-NOV-18
** SCC=31000216
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38146E8 POINT 616425.12 3564235.085 0
SO SRCPARAM 38146E8 .0327595 12.19 1273 20 9.535
**********END OF 38146: XTO - PLU Twin Wells East Tank Battery
INFO************************************
************************************************************
** 22.7km away. Facility ID=41035 Name=FME Forge Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.07712, -103.3418, NAD83
** Total Particulate Matter (10 microns or less) emissions=.38tons/year
*****************Facility sources: ******************************
** NMED source ID=41035EQPT2 Facility's ID=HT-01
** Description=Heater #1 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E2 POINT 656504.212 3550186.884 0
SO SRCPARAM 41035E2 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT3 Facility's ID=HT-02
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** Description=Heater #2 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E3 POINT 656511.748 3550193.905 0
SO SRCPARAM 41035E3 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT4 Facility's ID=HT-03
** Description=Heater #3 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E4 POINT 656504.962 3550197.457 0
SO SRCPARAM 41035E4 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT5 Facility's ID=HT-04
** Description=Heater #4 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E5 POINT 656497.365 3550195.365 0
SO SRCPARAM 41035E5 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT6 Facility's ID=HT-05
** Description=Heater #5 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E6 POINT 656493.124 3550188.465 0
SO SRCPARAM 41035E6 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT7 Facility's ID=HT-06
** Description=Heater #6 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E7 POINT 656494.776 3550180.311 0
SO SRCPARAM 41035E7 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT8 Facility's ID=HT-07
** Description=Heater #7 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E8 POINT 656501.725 3550175.349 0
SO SRCPARAM 41035E8 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT9 Facility's ID=HT-08
** Description=Heater #8 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E9 POINT 656510.408 3550176.491 0
SO SRCPARAM 41035E9 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT10 Facility's ID=HT-09
** Description=Heater #9 Construction date=23-MAY-23
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E10 POINT 656516.118 3550183.419 0
SO SRCPARAM 41035E10 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT11 Facility's ID=HT-10
** Description=Heater #10 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E11 POINT 656515.553 3550192.6 0
SO SRCPARAM 41035E11 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT12 Facility's ID=HT-11
** Description=Heater #11 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E12 POINT 656508.718 3550199.078 0
SO SRCPARAM 41035E12 .00252 6.1 810.93 .3 .3
** NMED source ID=41035EQPT13 Facility's ID=HT-12
** Description=Heater #12 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E13 POINT 656499.082 3550199.155 0
SO SRCPARAM 41035E13 .00252 6.1 810.93 .3 .3
**********END OF 41035: FME Forge Central Tank Battery
INFO**********************************
**************************************************************
** 22.7km away. Facility ID=34629 Name=Mean Green 23 Fed 1H Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5970 NOI
** lat,long,datum=32.021667, -103.433222, NAD83
** Total Particulate Matter (10 microns or less) emissions=.78tons/year
*****************Facility sources: ****************************
** NMED source ID=34629AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 34629A1 VOLUME 647963.879 3543910.268 0
SO SRCPARAM 34629A1 1.0898827 10 90 9.3
** NMED source ID=34629EQPT5 Facility's ID=Heater_0762
** Description=Heater_EQ000160762 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 34629E5 VOLUME 647971.415 3543917.289 0
SO SRCPARAM 34629E5 .0005796 9.14 .47 .93
** NMED source ID=34629EQPT8 Facility's ID=Heater_0759
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** Description=Heater_EQ000160759 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 34629E8 VOLUME 647964.629 3543920.841 0
SO SRCPARAM 34629E8 .0005796 9.14 .47 .93
**********END OF 34629: Mean Green 23 Fed 1H Battery
INFO**********************************
************************************************************
** 22.73km away. Facility ID=40341 Name=Red Hills West Unit 027H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.052591, -103.676682, WGS84
** Total Particulate Matter (10 microns or less) emissions=.89tons/year
*****************Facility sources: ****************************
** NMED source ID=40341EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=10-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E2 POINT 624927.948 3547030.817 0
SO SRCPARAM 40341E2 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40341EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=10-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E3 POINT 624935.484 3547037.838 0
SO SRCPARAM 40341E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40341EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=10-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E4 POINT 624928.698 3547041.39 0
SO SRCPARAM 40341E4 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40341EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=10-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E5 POINT 624921.101 3547039.298 0
SO SRCPARAM 40341E5 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40341EQPT10 Facility's ID=HT-1
** Description=Heater Treater Construction date=10-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E10 VOLUME 624916.86 3547032.398 0
SO SRCPARAM 40341E10 .00126 4.57 .47 .93
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** NMED source ID=40341EQPT11 Facility's ID=HT-02
** Description=Heater Treater Construction date=10-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E11 VOLUME 624918.512 3547024.244 0
SO SRCPARAM 40341E11 .00126 4.57 .47 .93
** NMED source ID=40341EQPT12 Facility's ID=HT-03
** Description=Heater Treater Construction date=10-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E12 VOLUME 624925.461 3547019.282 0
SO SRCPARAM 40341E12 .00126 4.57 .47 .93
** NMED source ID=40341EQPT36 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=29-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E36 POINT 624934.144 3547020.424 0
SO SRCPARAM 40341E36 .0050399 4.11 894.82 36.52 .13
**********END OF 40341: Red Hills West Unit 027H Battery
INFO**********************************
************************************************************
** 22.74km away. Facility ID=39848 Name=Devon - Boundary Raider 6 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.338269, -103.7124, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.88tons/year
*****************Facility sources: ****************************
** NMED source ID=39848AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=21-JAN-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39848A1 VOLUME 621176.465 3578659.747 0
SO SRCPARAM 39848A1 .2784556 10 20 9.3
** NMED source ID=39848EQPT6 Facility's ID=HTR-1
** Description=Heater Treater 3 MMBTU/hr Construction date=21-JAN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39848E6 VOLUME 621184.001 3578666.768 0
SO SRCPARAM 39848E6 .0037799 9.14 .47 .93
** NMED source ID=39848EQPT7 Facility's ID=HTR-2
** Description=Heater Treater 3 MMBTU/hr Construction date=21-JAN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39848E7 VOLUME 621177.215 3578670.32 0
```

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SO SRCPARAM 39848E7 .0037799 9.14 .47 .93
** NMED source ID=39848EQPT12 Facility's ID=LPC 1
** Description=Low Pressure Compressor 92 hp Construction date=21-JAN-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39848E12 POINT 621169.618 3578668.228 0
SO SRCPARAM 39848E12 .00252 2.68 922.04 67.27 .08
**********END OF 39848: Devon - Boundary Raider 6 CTB 3
INFO**********************************
************************************************************
** 22.78km away. Facility ID=39267 Name=Ghost Compressor Station
** Company ID=12729 Name=Delaware Basin Midstream, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.034, -103.6461, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.49tons/year
*****************Facility sources: ******************************
** NMED source ID=39267EQPT1 Facility's ID=CE-1
** Description=1875 hp Caterpillar G3606 A4 Engine Construction date=17-DEC-19
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1101hr/yr, 24hr/day
SO LOCATION 39267E1 POINT 627841.121 3545005.683 0
SO SRCPARAM 39267E1 .0188997 7.62 691.48 47.61 .3
** NMED source ID=39267EQPT2 Facility's ID=CE-2
** Description=1875 hp Caterpillar G3606 A4 Engine Construction date=17-DEC-19
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1188hr/yr, 24hr/day
SO LOCATION 39267E2 POINT 627848.657 3545012.704 0
SO SRCPARAM 39267E2 .0188997 7.62 691.48 47.61 .3
** NMED source ID=39267EQPT3 Facility's ID=CE-3
** Description=1875 hp Caterpillar G3606 A4 Engine Construction date=17-DEC-19
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1141hr/yr, 24hr/day
SO LOCATION 39267E3 POINT 627841.871 3545016.256 0
SO SRCPARAM 39267E3 .0188997 7.62 691.48 47.61 .3
** NMED source ID=39267EQPT4 Facility's ID=CE-4
** Description=1875 hp Caterpillar G3606 A4 Engine Construction date=17-DEC-19
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=973hr/yr, 24hr/day
SO LOCATION 39267E4 POINT 627834.274 3545014.164 0
SO SRCPARAM 39267E4 .0188997 7.62 691.48 47.61 .3
** NMED source ID=39267EQPT5 Facility's ID=DHR-1
** Description=.25 MM Btu/hr Dehydrator Reboiler Construction date=17-DEC-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1139hr/yr, 24hr/day
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SO LOCATION 39267E5 POINT 627830.033 3545007.264 0
SO SRCPARAM 39267E5 .0002898 5.18 477.59 .98 .24
** NMED source ID=39267EQPT6 Facility's ID=DHR-2
** Description=.25 MM Btu/hr Dehydrator Reboiler Construction date=17-DEC-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1139hr/yr, 24hr/day
SO LOCATION 39267E6 POINT 627831.685 3544999.11 0
SO SRCPARAM 39267E6 .0002898 5.18 477.59 .98 .24
** NMED source ID=39267EQPT7 Facility's ID=GEN-1
** Description=63 hp Kohler KDI 2504 Diesel Generator Construction date=17-DEC-19
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=940hr/yr, 24hr/day
SO LOCATION 39267E7 POINT 627838.634 3544994.148 0
SO SRCPARAM 39267E7 .0002898 1.83 854.26 16.18 .08
** NMED source ID=39267EQPT11 Facility's ID=EC-1
** Description=12.2 MM Btu/hr Enclosed Vapor Combustor Construction date=17-DEC-19
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1240hr/yr, 24hr/day
SO LOCATION 39267E11 POINT 627847.317 3544995.29 0
SO SRCPARAM 39267E11 .0113398 7.01 1273 20 1.22
** NMED source ID=39267EQPT12 Facility's ID=CE-5
** Description=1875 hp Caterpillar G3606 A4 Engine Construction date=14-AUG-20
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39267E12 POINT 627853.027 3545002.218 0
SO SRCPARAM 39267E12 .0188997 7.62 691.48 47.61 .3
** NMED source ID=39267EQPT15 Facility's ID=FL-1
** Description=10 MMSCFD SSM Flare Construction date=08-JUN-22
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39267E15 POINT 627852.462 3545011.399 0
SO SRCPARAM 39267E15 .0002898 12.19 1273 20 .67
** NMED source ID=39267EQPT16 Facility's ID=GEN-2
** Description=134 hp Caterpillar Diesel Generator Construction date=08-JUN-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39267E16 POINT 627845.627 3545017.877 0
SO SRCPARAM 39267E16 .00126 2.13 620.93 29.81 .09
** NMED source ID=39267EQPT17 Facility's ID=GEN-3
** Description=11.6 hp Allmand Night Lite Kubota Generator Construction
date=08-JUN-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39267E17 POINT 627835.991 3545017.954 0
SO SRCPARAM 39267E17 .00126 1.83 572.59 27.52 .03
** NMED source ID=39267EQPT18 Facility's ID=GEN-4
** Description=11.3 hp Allmand Night Lite Mitsubishi Generator Construction
date=08-JUN-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39267E18 POINT 627828.73 3545011.288 0
SO SRCPARAM 39267E18 .00126 1.83 572.59 25.53 .03
** NMED source ID=39267EQPT21 Facility's ID=FL-1 SSM
** Description=10 MMSCFD SSM Flare Construction date=08-JUN-22
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39267E21 POINT 627827.95 3545001.242 0
SO SRCPARAM 39267E21 .0008568 12.19 1273 20 .67
**********END OF 39267: Ghost Compressor Station
INFO**********************************
************************************************************
** 22.79km away. Facility ID=38835 Name=Cal Mon CGL
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.26998, -103.755572, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.26tons/year
*****************Facility sources: ******************************
** NMED source ID=38835AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Road Emissions Construction date=31-OCT-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38835A1 VOLUME 617201.139 3571041.257 0
SO SRCPARAM 38835A1 .00126 1 .47 .93
** NMED source ID=38835EQPT1 Facility's ID=REB-1
** Description=Reboiler Construction date=26-FEB-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38835E1 POINT 617208.675 3571048.278 0
SO SRCPARAM 38835E1 .00126 4.57 533.15 .14 .24
** NMED source ID=38835EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=26-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8665hr/yr, 24hr/day
SO LOCATION 38835E2 POINT 617201.889 3571051.83 0
SO SRCPARAM 38835E2 .0125998 4.57 816.48 26.79 .46
** NMED source ID=38835EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=26-FEB-19
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8565hr/yr, 24hr/day
SO LOCATION 38835E3 POINT 617194.292 3571049.738 0
SO SRCPARAM 38835E3 .0125998 4.57 816.48 26.79 .46
** NMED source ID=38835EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=26-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38835E4 POINT 617190.051 3571042.838 0
SO SRCPARAM 38835E4 .0125998 4.57 816.48 26.79 .46
** NMED source ID=38835EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=26-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38835E5 POINT 617191.703 3571034.684 0
SO SRCPARAM 38835E5 .0125998 4.57 816.48 26.79 .46
** NMED source ID=38835EQPT8 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=06-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38835E8 POINT 617198.652 3571029.722 0
SO SRCPARAM 38835E8 .0125998 4.57 816.48 26.79 .46
** NMED source ID=38835RPNT4 Facility's ID=SITE-SSM
** Description=Startup Shutdown Maintenance Activities Construction date=26-FEB-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38835R4 VOLUME 617207.335 3571030.864 0
SO SRCPARAM 38835R4 .0002898 1 .47 .93
**********END OF 38835: Cal Mon CGL INFO**********************************
************************************************************
** 22.82km away. Facility ID=38863 Name=Pinestraw CTB
** Company ID=13544 Name=Ameredev II LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.165108, -103.287681, WGS84
** Total Particulate Matter (10 microns or less) emissions=.18tons/year
*****************Facility sources: ******************************
** NMED source ID=38863AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=25-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=276hr/yr, 24hr/day
SO LOCATION 38863A1 VOLUME 661457.671 3560021.604 0
SO SRCPARAM 38863A1 .0667789 10 10 9.3
** NMED source ID=38863EQPT27 Facility's ID=HT-1
** Description=1.5 MMBTU/hr Heater Construction date=16-MAR-22
** SCC=31000107
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38863E27 VOLUME 661465.207 3560028.625 0
SO SRCPARAM 38863E27 .00126 4.72 .47 .93
** NMED source ID=38863EQPT28 Facility's ID=HT-2
** Description=1.5 MMBTU/hr Heater Construction date=16-MAR-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38863E28 VOLUME 661458.421 3560032.177 0
SO SRCPARAM 38863E28 .00126 4.72 .47 .93
**********END OF 38863: Pinestraw CTB INFO************************************
************************************************************
** 22.91km away. Facility ID=37746 Name=Paduca Breaks Central Gathering Facility
** Company ID=12729 Name=Delaware Basin Midstream, LLC
** SIC=1311 NAIC=211111   Permit=unknown
** lat,long,datum=32.06243, -103.69265, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.99tons/year
*****************Facility sources: ****************************
** NMED source ID=37746EQPT1 Facility's ID=CE-1
** Description=1380hp Caterpillar G3516J Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7991hr/yr, 24hr/day
SO LOCATION 37746E1 POINT 623407.16 3548103.16 0
SO SRCPARAM 37746E1 .0151198 7.01 717.04 29.47 .41
** NMED source ID=37746EQPT2 Facility's ID=CE-2
** Description=1380hp Caterpillar G3516J Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8230hr/yr, 21hr/day
SO LOCATION 37746E2 POINT 623414.696 3548110.181 0
SO SRCPARAM 37746E2 .0151198 7.01 717.04 29.47 .41
** NMED source ID=37746EQPT3 Facility's ID=CE-3
** Description=1380hp Caterpillar G3516J Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8237hr/yr, 24hr/day
SO LOCATION 37746E3 POINT 623407.91 3548113.733 0
SO SRCPARAM 37746E3 .0151198 7.01 717.04 29.47 .41
** NMED source ID=37746EQPT4 Facility's ID=CE-4
** Description=1380hp Caterpillar G3516J Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8356hr/yr, 24hr/day
SO LOCATION 37746E4 POINT 623400.313 3548111.641 0
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SO SRCPARAM 37746E4 .0151198 7.01 717.04 29.47 .41
** NMED source ID=37746EQPT5 Facility's ID=CE-5
** Description=1380hp Caterpillar G3516B Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8124hr/yr, 24hr/day
SO LOCATION 37746E5 POINT 623396.072 3548104.741 0
SO SRCPARAM 37746E5 .0138598 7.01 805.93 33.86 .41
** NMED source ID=37746EQPT6 Facility's ID=CE-6
** Description=1380hp Caterpillar G3516B Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8057hr/yr, 24hr/day
SO LOCATION 37746E6 POINT 623397.724 3548096.587 0
SO SRCPARAM 37746E6 .0138598 7.01 805.93 33.86 .41
** NMED source ID=37746EQPT7 Facility's ID=CE-7
** Description=1380hp Caterpillar G3516B Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8275hr/yr, 24hr/day
SO LOCATION 37746E7 POINT 623404.673 3548091.625 0
SO SRCPARAM 37746E7 .0138598 7.01 717.04 29.47 .41
** NMED source ID=37746EQPT8 Facility's ID=CE-8
** Description=1380hp Caterpillar G3516B Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7630hr/yr, 24hr/day
SO LOCATION 37746E8 POINT 623413.356 3548092.767 0
SO SRCPARAM 37746E8 .0138598 7.01 805.93 33.86 .41
** NMED source ID=37746EQPT9 Facility's ID=EC-1
** Description=10 MMBTtu/h Enclosed Vapor Combustor (Tanks) Construction
date=18-APR-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8713hr/yr, 24hr/day
SO LOCATION 37746E9 POINT 623419.066 3548099.695 0
SO SRCPARAM 37746E9 .0088199 6.1 1273 20 1.22
** NMED source ID=37746EQPT10 Facility's ID=EC-2
** Description=10 MMBtu/h Enclosed Vapor Combustor (Dehydrator) Construction
date=18-APR-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8697hr/yr, 24hr/day
SO LOCATION 37746E10 POINT 623418.501 3548108.876 0
SO SRCPARAM 37746E10 .0088199 7.62 1273 20 1.37
** NMED source ID=37746EQPT11 Facility's ID=LH-1
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** Description=1.5 MMBTU/h Line Heater Construction date=18-APR-17
** SCC=31000406
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8643hr/yr, 24hr/day
SO LOCATION 37746E11 POINT 623411.666 3548115.354 0
SO SRCPARAM 37746E11 .00252 3.66 478.15 3.26 .3
** NMED source ID=37746EQPT12 Facility's ID=DHR-1
** Description=1.5 MMBTU/h Dehydrator Reboiler Construction date=18-APR-17
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8678hr/yr, 24hr/day
SO LOCATION 37746E12 POINT 623402.03 3548115.431 0
SO SRCPARAM 37746E12 .00252 3.66 478.15 3.26 .3
** NMED source ID=37746EQPT18 Facility's ID=CE-9
** Description=1775hp Caterpillar G3606A3 Compressor Engine Construction
date=18-APR-17
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8312hr/yr, 24hr/day
SO LOCATION 37746E18 POINT 623394.769 3548108.765 0
SO SRCPARAM 37746E18 .0176397 7.01 742.59 70.71 .3
** NMED source ID=37746RPNT8 Facility's ID=FL-PILOT
** Description=Flare for SSM Activities Construction date=25-JUL-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37746R8 POINT 623393.989 3548098.719 0
SO SRCPARAM 37746R8 .0002898 9.14 1273.15 19.99 .67
** NMED source ID=37746RPNT9 Facility's ID=FL-1 SSM
** Description=Flare for SSM Activities Construction date=25-JUL-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37746R9 POINT 623400.407 3548090.668 0
SO SRCPARAM 37746R9 .0017262 9.14 1273.15 19.99 .67
**********END OF 37746: Paduca Breaks Central Gathering Facility
INFO**********************************
************************************************************
** 22.92km away. Facility ID=38894 Name=Antler 17 State 2BS and 3H Production
Facility
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.384881, -103.394253, WGS84
** Total Particulate Matter (10 microns or less) emissions=.29tons/year
****************Facility sources: ****************************
** NMED source ID=38894AREA1 Facility's ID=HR-1 (Oil)
** Description=Unpaved Haul Road Construction date=13-APR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38894A1 VOLUME 651042.888 3584232.023 0
SO SRCPARAM 38894A1 .1108782 10 10 9.3
** NMED source ID=38894AREA2 Facility's ID=HR-2 (PW)
** Description=Unpaved Haul Road Construction date=13-APR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38894A2 VOLUME 651050.424 3584239.044 0
SO SRCPARAM 38894A2 .1108782 10 10 9.3
** NMED source ID=38894EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 MMBtu/hr Construction date=02-JUN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38894E1 POINT 651043.638 3584242.596 0
SO SRCPARAM 38894E1 .00126 4.57 422.04 11.75 .2
** NMED source ID=38894EQPT2 Facility's ID=HT-2
** Description=Heater Treater 1 MMBtu/hr Construction date=02-JUN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38894E2 POINT 651036.041 3584240.504 0
SO SRCPARAM 38894E2 .00126 4.57 422.04 11.75 .2
**********END OF 38894: Antler 17 State 2BS and 3H Production Facility
INFO**********************************
************************************************************
** 22.92km away. Facility ID=39668 Name=Talco A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.047219, -103.375839, NAD83
** Total Particulate Matter (10 microns or less) emissions=6.12tons/year
*****************Facility sources: ****************************
** NMED source ID=39668AREA2 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39668A2 VOLUME 653341.057 3546823.077 0
SO SRCPARAM 39668A2 .1108782 10 10 9.3
** NMED source ID=39668EQPT1 Facility's ID=HT-1
** Description=2.0 MMBtu/hr Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=312hr/yr, 24hr/day
SO LOCATION 39668E1 VOLUME 653348.593 3546830.098 0
SO SRCPARAM 39668E1 .00252 4.57 .47 .93
** NMED source ID=39668EQPT9 Facility's ID=ENG-1
** Description=1380 HP Compressor Engine Construction date=13-JAN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39668E9 POINT 653341.807 3546833.65 0
SO SRCPARAM 39668E9 .0125998 4.57 730.37 38.25 .36
** NMED source ID=39668EQPT21 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=25-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39668E21 POINT 653334.21 3546831.558 0
SO SRCPARAM 39668E21 .0113398 4.57 812.59 35.36 .2
**********END OF 39668: Talco A CTB INFO************************************
************************************************************
** 22.97km away. Facility ID=40783 Name=Uncle Richard TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.167285, -103.285446, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.29tons/year
*****************Facility sources: ******************************
** NMED source ID=40783AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Roads Construction date=30-NOV-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783A1 VOLUME 661664.595 3560266.318 0
SO SRCPARAM 40783A1 .1058383 10 10 9.3
** NMED source ID=40783EQPT1 Facility's ID=ENG-1
** Description=4-Stroke Rich Burn Compressor Engine Construction date=30-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E1 POINT 661672.131 3560273.339 0
SO SRCPARAM 40783E1 .00126 6.1 1005.37 9.44 .15
** NMED source ID=40783EQPT2 Facility's ID=ENG-2
** Description=4-Stroke Rich Burn Compressor Engine Construction date=30-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E2 POINT 661665.345 3560276.891 0
SO SRCPARAM 40783E2 .00126 6.1 1005.37 9.44 .15
** NMED source ID=40783EQPT5 Facility's ID=GEN-1
** Description=4-Stroke Rich Burn Generator Construction date=30-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E5 POINT 661657.748 3560274.799 0
SO SRCPARAM 40783E5 .0113398 6.1 1023.15 39.53 .21
** NMED source ID=40783EQPT6 Facility's ID=GEN-2
** Description=4-Stroke Rich Burn Generator Construction date=30-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E6 POINT 661653.507 3560267.899 0
SO SRCPARAM 40783E6 .0113398 6.1 1023.15 39.53 .21
** NMED source ID=40783EQPT7 Facility's ID=GEN-3
** Description=4-Stroke Rich Burn Generator Construction date=30-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E7 POINT 661655.159 3560259.745 0
SO SRCPARAM 40783E7 .0113398 6.1 1023.15 39.53 .21
** NMED source ID=40783EQPT9 Facility's ID=HT-1
** Description=Heater Treater Construction date=30-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E9 VOLUME 661662.108 3560254.783 0
SO SRCPARAM 40783E9 .00126 6.1 .47 .93
** NMED source ID=40783EQPT19 Facility's ID=ENG-3
** Description=384-hp Ajax DPC 2802 LE engine Construction date=17-JAN-24
** SCC=20200252
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E19 POINT 661670.791 3560255.925 0
SO SRCPARAM 40783E19 .0176397 6.61 513.71 15.92 .34
**********END OF 40783: Uncle Richard TB INFO************************************
************************************************************
** 23.02km away. Facility ID=33076 Name=Aldabra 26 and 27 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5335 NOI
** lat,long,datum=32.269714, -103.758175, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.22tons/year
*****************Facility sources: ****************************
** NMED source ID=33076AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33076A1 VOLUME 616956.311 3571008.928 0
SO SRCPARAM 33076A1 1.0898827 10 90 9.3
** NMED source ID=33076EQPT11 Facility's ID=Heater_0726
** Description=Heater_EQ000170726 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33076E11 VOLUME 616963.847 3571015.949 0
SO SRCPARAM 33076E11 .0005796 9.14 .47 .93
** NMED source ID=33076EQPT12 Facility's ID=Heater_0705
** Description=Heater_EQ000170705 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33076E12 VOLUME 616957.061 3571019.501 0
SO SRCPARAM 33076E12 .0005796 9.14 .47 .93
**********END OF 33076: Aldabra 26 and 27 Battery
INFO**********************************
************************************************************
** 23.02km away. Facility ID=40538 Name=Red Stag 5 32 Battery No1
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.414995, -103.48726, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.94tons/year
*****************Facility sources: ****************************
** NMED source ID=40538AREA1 Facility's ID=HR-01
** Description=Hauling Roads Construction date=08-NOV-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538A1 VOLUME 642246.14 3587443.08 0
SO SRCPARAM 40538A1 .0907186 10 10 9.3
** NMED source ID=40538EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E1 POINT 642253.676 3587450.101 0
SO SRCPARAM 40538E1 .0075599 6.17 695.37 37.61 .25
** NMED source ID=40538EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E2 POINT 642246.89 3587453.653 0
SO SRCPARAM 40538E2 .0075599 4.57 778.71 13.94 .26
** NMED source ID=40538EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E4 POINT 642239.293 3587451.561 0
SO SRCPARAM 40538E4 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40538EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E5 POINT 642235.052 3587444.661 0
SO SRCPARAM 40538E5 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40538EQPT6 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E6 POINT 642236.704 3587436.507 0
SO SRCPARAM 40538E6 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40538EQPT7 Facility's ID=ENG-07
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E7 POINT 642243.653 3587431.545 0
SO SRCPARAM 40538E7 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40538EQPT11 Facility's ID=GEN-01
** Description=Generator Engine Construction date=08-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E11 POINT 642252.336 3587432.687 0
SO SRCPARAM 40538E11 .0100798 4.51 840.37 179.41 .09
** NMED source ID=40538EQPT12 Facility's ID=HT-01
** Description=Heater Treater Construction date=08-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E12 POINT 642258.046 3587439.615 0
SO SRCPARAM 40538E12 .00126 4.57 533.15 3.93 .46
** NMED source ID=40538EQPT13 Facility's ID=HT-02
** Description=Heater Treater Construction date=08-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E13 POINT 642257.481 3587448.796 0
SO SRCPARAM 40538E13 .00252 4.57 533.15 7.86 .46
** NMED source ID=40538EQPT39 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=16-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E39 POINT 642250.646 3587455.274 0
SO SRCPARAM 40538E39 .0088199 4.42 989.82 70.41 .13
**********END OF 40538: Red Stag 5 32 Battery No1
INFO**********************************
************************************************************
** 23.1km away. Facility ID=35661 Name=ConocoPhillips - Red Hills West 16 State No2
** Company ID=198 Name=ConocoPhillips Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.047424, -103.675312, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.11tons/year
****************Facility sources: ****************************
** NMED source ID=35661EQPT13 Facility's ID=ENG-1
** Description=1340hp Caterpillar 3516TA 4SULB Compressor Engine Construction
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date=09-DEC-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5095hr/yr, 24hr/day
SO LOCATION 35661E13 POINT 625064.322 3546459.608 0
SO SRCPARAM 35661E13 .0151198 6.52 740.37 49.56 .3
** NMED source ID=35661RPNT2 Facility's ID=ROAD
** Description=Haul Roads Construction date=30-JAN-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35661R2 VOLUME 625071.858 3546466.629 0
SO SRCPARAM 35661R2 .0856786 10 10 9.3
**********END OF 35661: ConocoPhillips - Red Hills West 16 State No2
INFO**********************************
************************************************************
** 23.1km away. Facility ID=39502 Name=Matador- Grevey Com Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.033733, -103.395678, WGS84
** Total Particulate Matter (10 microns or less) emissions=.53tons/year
*****************Facility sources: ******************************
** NMED source ID=39502AREA1 Facility's ID=HR-1
** Description=Unpaved Road Emissions Construction date=10-JUN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39502A1 VOLUME 651490.006 3545299.976 0
SO SRCPARAM 39502A1 .0100798 1 .47 .93
** NMED source ID=39502EQPT1 Facility's ID=HT-1
** Description=Heater Treater Construction date=10-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39502E1 VOLUME 651497.542 3545306.997 0
SO SRCPARAM 39502E1 .00126 6.1 .47 .93
** NMED source ID=39502EQPT2 Facility's ID=ENG-1
** Description=Engine drives flash gas compressor Construction date=10-JUN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8614hr/yr, 24hr/day
SO LOCATION 39502E2 POINT 651490.756 3545310.549 0
SO SRCPARAM 39502E2 .0037799 3.4 816.48 49.87 .1
** NMED source ID=39502EQPT3 Facility's ID=GEN-1
** Description=Generator provides electric power Construction date=10-JUN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8614hr/yr, 24hr/day
SO LOCATION 39502E3 POINT 651483.159 3545308.457 0
SO SRCPARAM 39502E3 .00252 2.64 1023.15 46.6 .09
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**********END OF 39502: Matador- Grevey Com Tank Battery
INFO**********
**********
** 23.11km away. Facility ID=31720 Name=Bootleg Ridge Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.3087, -103.7402, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.28tons/year
**********Facility sources: **********
** NMED source ID=31720EQPT3 Facility's ID=REB-1
** Description=1.0 MMBtu/hr dehy reboiler Construction date=20-FEB-14
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8708hr/yr, 24hr/day
SO LOCATION 31720E3 POINT 618598.559 3575350.618 0
SO SRCPARAM 31720E3 .00126 3.05 588.71 2.65 .3
** NMED source ID=31720EQPT6 Facility's ID=17-0536
** Description=Cat G3516B, 1380 hp 4SLB Construction date=20-FEB-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8127hr/yr, 22hr/day
SO LOCATION 31720E6 POINT 618606.095 3575357.639 0
SO SRCPARAM 31720E6 .0138598 7.01 699.82 26.24 .46
** NMED source ID=31720EQPT11 Facility's ID=17-0641
** Description=Cat G3516B, 1380 hp 4SLB Construction date=19-OCT-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8064hr/yr, 22hr/day
SO LOCATION 31720E11 POINT 618599.309 3575361.191 0
SO SRCPARAM 31720E11 .0138598 7.01 699.82 26.24 .46
** NMED source ID=31720EQPT12 Facility's ID=17-0644
** Description=Cat G3516B, 1380 hp 4SLB Construction date=19-OCT-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8233hr/yr, 23hr/day
SO LOCATION 31720E12 POINT 618591.712 3575359.099 0
SO SRCPARAM 31720E12 .0138598 7.01 699.82 26.24 .46
** NMED source ID=31720EQPT13 Facility's ID=17-0535
** Description=Cat G3516B, 1380 hp 4SLB Construction date=15-NOV-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7842hr/yr, 21hr/day
SO LOCATION 31720E13 POINT 618587.471 3575352.199 0
SO SRCPARAM 31720E13 .0138598 7.01 699.82 26.24 .46
** NMED source ID=31720EQPT14 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=06-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31720E14 POINT 618589.123 3575344.045 0

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SO SRCPARAM 31720E14 .0176397 7.01 718.15 34.32 .46
** NMED source ID=31720EQPT15 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=06-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31720E15 POINT 618596.072 3575339.083 0
SO SRCPARAM 31720E15 .0176397 7.01 718.15 34.32 .46
**********END OF 31720: Bootleg Ridge Compressor Station
INFO**********************************
************************************************************
** 23.11km away. Facility ID=30873 Name=Cotton Draw Unit 153
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4597 NOI
** lat,long,datum=32.166339, -103.763583, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.52tons/year
*****************Facility sources: ****************************
** NMED source ID=30873AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 30873A1 VOLUME 616578.812 3559543.152 0
SO SRCPARAM 30873A1 1.0898827 10 90 9.3
** NMED source ID=30873EQPT4 Facility's ID=Heater_5083
** Description=Heater_EQ000115083 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 30873E4 VOLUME 616586.348 3559550.173 0
SO SRCPARAM 30873E4 .0005796 9.14 .47 .93
** NMED source ID=30873EQPT5 Facility's ID=Heater_4900
** Description=Heater_EQ000114900 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 30873E5 VOLUME 616579.562 3559553.725 0
SO SRCPARAM 30873E5 .0005796 9.14 .47 .93
**********END OF 30873: Cotton Draw Unit 153
INFO**********************************
************************************************************
** 23.13km away. Facility ID=38058 Name=Hallertau 5 Federal 7-11H, 16H Facility
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.067439, -103.7018, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.87tons/year
*****************Facility sources: ****************************
** NMED source ID=38058AREA1 Facility's ID=HR
** Description=Haul Road Emissions Construction date=18-NOV-22
** SCC=31088811
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38058A1 VOLUME 622536.701 3548648.011 0
SO SRCPARAM 38058A1 .1159182 10 10 9.3
** NMED source ID=38058EQPT18 Facility's ID=H-1
** Description=Heater treater 1; 2.0 MMBtu/h Construction date=18-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8563hr/yr, 23hr/day
SO LOCATION 38058E18 POINT 568241.173 3595198.763 0
SO SRCPARAM 38058E18 .00126 4.57 477.59 4.05 .15
** NMED source ID=38058EQPT19 Facility's ID=H-2
** Description=Heater treater 2; 2.0 MMBtu/hr Construction date=18-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8563hr/yr, 23hr/day
SO LOCATION 38058E19 POINT 568241.173 3595198.763 0
SO SRCPARAM 38058E19 .00126 4.57 477.59 4.05 .15
** NMED source ID=38058EQPT25 Facility's ID=ENG-3
** Description=Caterpillar G3516 TALE; 1340 hp Construction date=10-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38058E25 POINT 622529.854 3548656.492 0
SO SRCPARAM 38058E25 .0151198 6.22 819.26 59.31 .3
** NMED source ID=38058EQPT28 Facility's ID=ENG-4
** Description=Caterpillar G3306TA Compressor Engine Construction date=19-AUG-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38058E28 POINT 622525.613 3548649.592 0
SO SRCPARAM 38058E28 .0037799 3.51 846.48 25.09 .15
** NMED source ID=38058EQPT29 Facility's ID=ENG-5
** Description=Caterpillar G3306TA Compressor Engine Construction date=19-AUG-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38058E29 POINT 622527.265 3548641.438 0
SO SRCPARAM 38058E29 .0037799 3.66 846.48 25.09 .15
**********END OF 38058: Hallertau 5 Federal 7-11H, 16H Facility
INFO**********************************
************************************************************
** 23.13km away. Facility ID=5881 Name=Bora Bora 13 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10002 NOI
** lat,long,datum=32.311067, -103.738924, NAD83
** Total Particulate Matter (10 microns or less) emissions=.41tons/year
****************Facility sources: ****************************
** NMED source ID=5881EQPT1 Facility's ID=ENG-1
** Description=Combustion Engine Construction date=14-JUL-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5881E1 POINT 618715.604 3575614.436 0
SO SRCPARAM 5881E1 .0088199 3.51 1000.37 71.17 .13
** NMED source ID=5881EQPT2 Facility's ID=ENG-2
** Description=Combustion Engine Construction date=14-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5881E2 POINT 618723.14 3575621.457 0
SO SRCPARAM 5881E2 .0037799 3.6 853.15 19.96 .17
**********END OF 5881: Bora Bora 13 Wellpad 1
INFO**********************************
************************************************************
** 23.14km away. Facility ID=37521 Name=EOG - Endurance 36 South CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.002772, -103.529239, WGS84
** Total Particulate Matter (10 microns or less) emissions=.32tons/year
*****************Facility sources: ****************************
** NMED source ID=37521AREA1 Facility's ID=HAUL
** Description=Haul Roads Construction date=19-OCT-16
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37521A1 VOLUME 638923.797 3541688.099 0
SO SRCPARAM 37521A1 .0075599 1 .47 .93
** NMED source ID=37521EQPT4 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37521E4 VOLUME 638931.333 3541695.12 0
SO SRCPARAM 37521E4 .0005796 4.57 .47 .93
** NMED source ID=37521EQPT17 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37521E17 VOLUME 638924.547 3541698.672 0
SO SRCPARAM 37521E17 .00126 4.88 .47 .93
**********END OF 37521: EOG - Endurance 36 South CTB
INFO**********************************
************************************************************
** 23.14km away. Facility ID=30899 Name=Cotton Draw 10 Fed 2H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4608 NOI
** lat,long,datum=32.151361, -103.759361, WGS84
** Total Particulate Matter (10 microns or less) emissions=.33tons/year
```

**********Facility sources: **********
** NMED source ID=30899AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 30899A1 VOLUME 616996.061 3557887.324 0
SO SRCPARAM 30899A1 .2784556 10 20 9.3
** NMED source ID=30899EQPT5 Facility's ID=HT-2
** Description=Heater_EQ000113089 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 30899E5 VOLUME 617003.597 3557894.345 0
SO SRCPARAM 30899E5 .0005796 9.14 .47 .93
** NMED source ID=30899EQPT12 Facility's ID=HT-1
** Description=Heater_EQ000112920 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 30899E12 VOLUME 616996.811 3557897.897 0
SO SRCPARAM 30899E12 .0005796 9.14 .47 .93
**********END OF 30899: Cotton Draw 10 Fed 2H
INFO**********
**********
** 23.21km away. Facility ID=39798 Name=Black Sheep 4 33 B3OB Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.414586, -103.472886, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.04tons/year
**********Facility sources: **********
** NMED source ID=39798EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=25-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E1 POINT 643598.543 3587416.962 0
SO SRCPARAM 39798E1 .0075599 6.17 695.37 37.61 .25
** NMED source ID=39798EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=25-OCT-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E2 POINT 643606.079 3587423.983 0
SO SRCPARAM 39798E2 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39798EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=25-OCT-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day

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SO LOCATION 39798E3 POINT 643599.293 3587427.535 0
SO SRCPARAM 39798E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39798EQPT6 Facility's ID=HT-01
** Description=Heater Treater Construction date=25-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E6 POINT 643591.696 3587425.443 0
SO SRCPARAM 39798E6 .00126 4.57 533.15 3.93 .46
** NMED source ID=39798EQPT7 Facility's ID=HT-02
** Description=Heater Treater Construction date=25-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E7 POINT 643587.455 3587418.543 0
SO SRCPARAM 39798E7 .00126 4.57 533.15 3.93 .46
** NMED source ID=39798EQPT8 Facility's ID=HT-03
** Description=Heater Treater Construction date=25-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E8 POINT 643589.107 3587410.389 0
SO SRCPARAM 39798E8 .00126 4.57 533.15 3.93 .46
** NMED source ID=39798EQPT9 Facility's ID=HT-04
** Description=Heater Treater Construction date=25-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E9 POINT 643596.056 3587405.427 0
SO SRCPARAM 39798E9 .00126 4.57 533.15 3.93 .46
** NMED source ID=39798EQPT13 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=23-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E13 POINT 643604.739 3587406.569 0
SO SRCPARAM 39798E13 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39798EQPT14 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=23-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E14 POINT 643610.449 3587413.497 0
SO SRCPARAM 39798E14 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39798EQPT17 Facility's ID=HT-05
** Description=Heater Treater Construction date=23-MAR-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E17 POINT 643609.884 3587422.678 0
```

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SO SRCPARAM 39798E17 .00126 4.57 533.15 3.93 .46
**********END OF 39798: Black Sheep 4 33 B3OB Fed Com 1H Battery
INFO**********************************
************************************************************
** 23.22km away. Facility ID=37766 Name=Endurance Localized Gas Lift
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0022, -103.5352, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.56tons/year
*****************Facility sources: ****************************
** NMED source ID=37766EQPT13 Facility's ID=Heater-1
** Description=0.5 MMBtu/hr Heater Separator Construction date=01-NOV-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37766E13 VOLUME 638361.543 3541617.041 0
SO SRCPARAM 37766E13 .0005796 4.57 .47 .93
** NMED source ID=37766EQPT20 Facility's ID=RBL-1
** Description=Reboiler Construction date=04-APR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37766E20 POINT 638369.079 3541624.062 0
SO SRCPARAM 37766E20 .0005796 3.96 588.71 .15 .91
** NMED source ID=37766EQPT23 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=30-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37766E23 POINT 638362.293 3541627.614 0
SO SRCPARAM 37766E23 .0176397 7.01 699.26 26.64 .52
** NMED source ID=37766EQPT24 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=30-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37766E24 POINT 638354.696 3541625.522 0
SO SRCPARAM 37766E24 .0176397 7.01 699.26 26.64 .52
** NMED source ID=37766EQPT25 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=30-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37766E25 POINT 638350.455 3541618.622 0
SO SRCPARAM 37766E25 .0176397 7.01 699.26 26.64 .52
** NMED source ID=37766EQPT26 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=30-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 37766E26 POINT 638352.107 3541610.468 0
SO SRCPARAM 37766E26 .0176397 7.01 699.26 26.64 .52
**********END OF 37766: Endurance Localized Gas Lift
INFO**********************************
************************************************************
** 23.24km away. Facility ID=40769 Name=Mule 23 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.121818, -103.747189, NAD83
** Total Particulate Matter (10 microns or less) emissions=5.96tons/year
*****************Facility sources: ******************************
** NMED source ID=40769AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=16-NOV-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40769A1 VOLUME 618182.097 3554625.587 0
SO SRCPARAM 40769A1 .2784556 10 20 9.3
** NMED source ID=40769EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=16-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40769E2 VOLUME 618189.633 3554632.608 0
SO SRCPARAM 40769E2 .0037799 9.14 .47 .93
** NMED source ID=40769EQPT11 Facility's ID=ENG-1
** Description=ENG-1 Combustion Engine Construction date=16-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40769E11 POINT 618182.847 3554636.16 0
SO SRCPARAM 40769E11 .0138598 7.01 809.26 57.36 .3
**********END OF 40769: Mule 23 CTB 2 INFO**********************************
************************************************************
** 23.25km away. Facility ID=40178 Name=Sand Dunes 10 CTB
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=9386 GCP6
** lat,long,datum=32.235589, -103.769003, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.97tons/year
*****************Facility sources: ******************************
** NMED source ID=40178AREA1 Facility's ID=HAUL
** Description=Haul Road Fugitives Construction date=12-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178A1 VOLUME 615979.832 3567214.148 0
SO SRCPARAM 40178A1 .061739 1 .47 .93
** NMED source ID=40178EQPT9 Facility's ID=HPS-1
** Description=Heated Production Separator Construction date=12-SEP-23
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E9 POINT 615987.368 3567221.169 0
SO SRCPARAM 40178E9 .0037799 6.71 533.15 .21 .46
** NMED source ID=40178EQPT10 Facility's ID=HPS-2
** Description=Heated Production Separator Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E10 POINT 615980.582 3567224.721 0
SO SRCPARAM 40178E10 .0037799 6.71 533.15 .21 .46
** NMED source ID=40178EQPT11 Facility's ID=HPS-3
** Description=Heated Production Separator Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E11 POINT 615972.985 3567222.629 0
SO SRCPARAM 40178E11 .0037799 6.71 533.15 .21 .46
** NMED source ID=40178EQPT12 Facility's ID=HTR-1
** Description=Heater Treater Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E12 POINT 615968.744 3567215.729 0
SO SRCPARAM 40178E12 .0037799 6.71 533.15 .21 .46
** NMED source ID=40178EQPT13 Facility's ID=HTR-2
** Description=Heater Treater Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E13 POINT 615970.396 3567207.575 0
SO SRCPARAM 40178E13 .0037799 6.71 533.15 .21 .46
** NMED source ID=40178EQPT14 Facility's ID=HTR-3
** Description=Heater Treater Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E14 POINT 615977.345 3567202.613 0
SO SRCPARAM 40178E14 .0037799 6.71 533.15 .21 .46
**********END OF 40178: Sand Dunes 10 CTB INFO**********************************
************************************************************
** 23.26km away. Facility ID=38147 Name=XTO - Poker Lake Unit Twin Wells West Tank
Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=7562 NSR
** lat,long,datum=32.208333, -103.770833, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.2tons/year
*****************Facility sources: ****************************
** NMED source ID=38147AREA2 Facility's ID=ROAD
** Description=Haul Road Emissions Construction date=04-DEC-18
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** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38147A2 VOLUME 615841.973 3564190.642 0
SO SRCPARAM 38147A2 .0377994 1 .47 .93
**********END OF 38147: XTO - Poker Lake Unit Twin Wells West Tank Battery
INFO**********************************
************************************************************
** 23.26km away. Facility ID=7571 Name=Yeah Yeah Federal 10C CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=10078 NOI
** lat,long,datum=32.412269, -103.459339, WGS84
** Total Particulate Matter (10 microns or less) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=7571AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=20-SEP-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7571A1 VOLUME 644876.237 3587178.37 0
SO SRCPARAM 7571A1 .0100798 1 .47 .93
** NMED source ID=7571EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=20-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7571E3 VOLUME 644883.773 3587185.391 0
SO SRCPARAM 7571E3 .00126 6.71 .47 .93
**********END OF 7571: Yeah Yeah Federal 10C CTB
INFO**********************************
************************************************************
** 23.27km away. Facility ID=39715 Name=Big Sinks Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.103717, -103.736182, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.55tons/year
*****************Facility sources: ****************************
** NMED source ID=39715EQPT1 Facility's ID=ENG-1
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E1 POINT 619244.032 3552631.106 0
SO SRCPARAM 39715E1 .0214197 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT5 Facility's ID=ECD-1
** Description=ECD-1 (176.5 MSCF/d) Construction date=18-OCT-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E5 POINT 619251.568 3552638.127 0
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SO SRCPARAM 39715E5 .00126 8.23 1273 20 1.52
** NMED source ID=39715EQPT6 Facility's ID=RBL-1
** Description=Reboiler 1 MMBTU/hr Construction date=18-OCT-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E6 POINT 619244.782 3552641.679 0
SO SRCPARAM 39715E6 .00126 3.66 588.71 2.34 .32
** NMED source ID=39715EQPT8 Facility's ID=ENG-2
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E8 POINT 619237.185 3552639.587 0
SO SRCPARAM 39715E8 .0214197 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT9 Facility's ID=ENG-3
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E9 POINT 619232.944 3552632.687 0
SO SRCPARAM 39715E9 .0214197 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT10 Facility's ID=ENG-4
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E10 POINT 619234.596 3552624.533 0
SO SRCPARAM 39715E10 .0214197 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT11 Facility's ID=ENG-5
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E11 POINT 619241.545 3552619.571 0
SO SRCPARAM 39715E11 .0214197 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT12 Facility's ID=ENG-6
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E12 POINT 619250.228 3552620.713 0
SO SRCPARAM 39715E12 .0214197 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT16 Facility's ID=ECD-2
** Description=ECD-1 (106.2 MSCF/d) Construction date=18-OCT-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E16 POINT 619255.938 3552627.641 0
SO SRCPARAM 39715E16 .0002898 8.23 1273 20 1.22
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**********END OF 39715: Big Sinks Compressor Station
INFO**********************************
************************************************************
** 23.29km away. Facility ID=34299 Name=Ridge Runner 7-1H Battery
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=5889 NOI
** lat,long,datum=32.403694, -103.619, NAD83
** Total Particulate Matter (10 microns or less) emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=34299EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 34299E1 VOLUME 629873.46 3586022.472 0
SO SRCPARAM 34299E1 .0005796 3.66 .47 .93
**********END OF 34299: Ridge Runner 7-1H Battery
INFO**********************************
************************************************************
** 23.33km away. Facility ID=40192 Name=Blue Marlin CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.113114, -103.304683, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.91tons/year
*****************Facility sources: ******************************
** NMED source ID=40192AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=28-OCT-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192A1 VOLUME 659945.078 3554231.841 0
SO SRCPARAM 40192A1 .1322979 10 10 9.3
** NMED source ID=40192EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516J, 1308 hp Construction date=28-OCT-21
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E1 POINT 659952.614 3554238.862 0
SO SRCPARAM 40192E1 .0113398 4.57 724.26 110.64 .2
** NMED source ID=40192EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516J, 1308 hp Construction date=28-OCT-21
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E2 POINT 659945.828 3554242.414 0
SO SRCPARAM 40192E2 .0113398 4.57 724.26 110.64 .2
** NMED source ID=40192EQPT7 Facility's ID=HT-1
** Description=2 MMBtu/h Heater Treater Construction date=28-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E7 VOLUME 659938.231 3554240.322 0
SO SRCPARAM 40192E7 .00126 4.57 .47 .93
** NMED source ID=40192EQPT20 Facility's ID=TRB-1
** Description=Elec Generating Turbine 244 kW Construction date=28-OCT-21
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E20 POINT 659933.99 3554233.422 0
SO SRCPARAM 40192E20 .00252 7 588 10 .7
** NMED source ID=40192EQPT21 Facility's ID=TRB-2
** Description=Elec Generating Turbine 244 kW Construction date=28-OCT-21
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E21 POINT 659935.642 3554225.268 0
SO SRCPARAM 40192E21 .00252 7 588 10 .7
** NMED source ID=40192EQPT22 Facility's ID=TRB-3
** Description=Elec Generating Turbine 244 kW Construction date=28-OCT-21
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E22 POINT 659942.591 3554220.306 0
SO SRCPARAM 40192E22 .00252 7 588 10 .7
**********END OF 40192: Blue Marlin CTB INFO************************************
************************************************************
** 23.34km away. Facility ID=38008 Name=Todd-Apache 6 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=7526 NOI
** lat,long,datum=32.338263, -103.720513, NAD83
** Total Particulate Matter (10 microns or less) emissions=.67tons/year
*****************Facility sources: ****************************
** NMED source ID=38008AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=07-NOV-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38008A1 VOLUME 620412.901 3578649.93 0
SO SRCPARAM 38008A1 .2784556 10 20 9.3
** NMED source ID=38008EQPT18 Facility's ID=17(dup)
** Description=Removed - 1 MMBtu/hr Heater Treater 2 Construction date=29-JUN-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38008E18 VOLUME 620420.437 3578656.951 0
SO SRCPARAM 38008E18 .00126 9.14 .47 .93
** NMED source ID=38008EQPT35 Facility's ID=ENG 1
** Description=ENG 1 EQ000070978 Construction date=21-SEP-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38008E35 POINT 620413.651 3578660.503 0
SO SRCPARAM 38008E35 .0037799 2.5 919.82 51.44 .1
** NMED source ID=38008EQPT36 Facility's ID=HT-1
** Description=Heater Treater 1 EQ000070979 Construction date=21-SEP-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38008E36 VOLUME 620406.054 3578658.411 0
SO SRCPARAM 38008E36 .00126 9.14 .47 .93
** NMED source ID=38008EQPT37 Facility's ID=HT-2
** Description=Heater Treater 2 EQ000070962 Construction date=21-SEP-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38008E37 VOLUME 620401.813 3578651.511 0
SO SRCPARAM 38008E37 .00126 9.14 .47 .93
** NMED source ID=38008EQPT41 Facility's ID=ENG 2
** Description=ENG 2 EQ000875201 Construction date=21-SEP-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38008E41 POINT 620403.465 3578643.357 0
SO SRCPARAM 38008E41 .0037799 3.6 853.15 19.96 .17
**********END OF 38008: Todd-Apache 6 CTB 1
INFO***********************************
************************************************************
** 23.45km away. Facility ID=39498 Name=Chevron - Dagger Lake Section 4 CS
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.41645, -103.57656, NAD83
** Total Particulate Matter (10 microns or less) emissions=4.19tons/year
*****************Facility sources: ******************************
** NMED source ID=39498EQPT1 Facility's ID=REB-1
** Description=1.5 MMBtu/hr TEG Reboiler Construction date=16-APR-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E1 POINT 633846.16 3587489.016 0
SO SRCPARAM 39498E1 .00126 5.41 533.15 1.69 .46
** NMED source ID=39498EQPT2 Facility's ID=ENG-1
** Description=1875 hp Caterpillar G3606 compressor engine Construction
date=16-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E2 POINT 633853.696 3587496.037 0
SO SRCPARAM 39498E2 .0176397 8.84 708.71 28.65 .5
** NMED source ID=39498EQPT3 Facility's ID=ENG-2
** Description=1875 hp Caterpillar G3606 compressor engine Construction
```

```
date=16-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E3 POINT 633846.91 3587499.589 0
SO SRCPARAM 39498E3 .0176397 8.84 708.71 28.65 .5
** NMED source ID=39498EQPT4 Facility's ID=ENG-3
** Description=1875 hp Caterpillar G3606 compressor engine Construction
date=16-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E4 POINT 633839.313 3587497.497 0
SO SRCPARAM 39498E4 .0176397 8.84 708.71 28.65 .5
** NMED source ID=39498EQPT5 Facility's ID=ENG-4
** Description=1875 hp Caterpillar G3606 compressor engine Construction
date=16-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E5 POINT 633835.072 3587490.597 0
SO SRCPARAM 39498E5 .0176397 8.84 708.71 28.65 .5
** NMED source ID=39498EQPT7 Facility's ID=ENG-6
** Description=2500 hp Caterpillar G3608 compressor engine Construction
date=16-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E7 POINT 633836.724 3587482.443 0
SO SRCPARAM 39498E7 .0239396 8.84 718.71 26.21 .61
** NMED source ID=39498EQPT12 Facility's ID=ENG-5
** Description=2500 hp Caterpillar G3608 compressor engine Construction
date=03-NOV-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E12 POINT 633843.673 3587477.481 0
SO SRCPARAM 39498E12 .0239396 8.84 718.71 26.21 .61
**********END OF 39498: Chevron - Dagger Lake Section 4 CS
INFO************************************
************************************************************
** 23.46km away. Facility ID=38939 Name=ConocoPhillips - Zia Hill 25E
** Company ID=1455 Name=ConocoPhillips - Midland Office
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.018611, -103.626667, WGS84
** Total Particulate Matter (10 microns or less) emissions=.58tons/year
*****************Facility sources: ******************************
** NMED source ID=38939AREA1 Facility's ID=ROAD
** Description=Haul Roads Construction date=03-MAY-19
** SCC=31088811
```

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38939A1 VOLUME 629697.913 3543322.876 0
SO SRCPARAM 38939A1 .0428393 1 .47 .93
** NMED source ID=38939EQPT1 Facility's ID=ENG1
** Description=690 hp Caterpillar 3508ULB Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4831hr/yr, 24hr/day
SO LOCATION 38939E1 POINT 629705.449 3543329.897 0
SO SRCPARAM 38939E1 .0062999 6.1 785.93 27.49 .3
** NMED source ID=38939EQPT2 Facility's ID=AUXH1
** Description=2 MMBTU/hr heater Construction date=03-MAY-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6216hr/yr, 24hr/day
SO LOCATION 38939E2 POINT 629698.663 3543333.449 0
SO SRCPARAM 38939E2 .00252 4.57 672.04 4.45 .3
** NMED source ID=38939EQPT3 Facility's ID=AUXH2
** Description=2 MMBTU/hr heater Construction date=03-MAY-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38939E3 POINT 629691.066 3543331.357 0
SO SRCPARAM 38939E3 .00252 4.57 672.04 4.45 .3
** NMED source ID=38939EQPT4 Facility's ID=FL1
** Description=8.4 MMscfd Dual Tip Flare Construction date=03-MAY-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6696hr/yr, 24hr/day
SO LOCATION 38939E4 POINT 629686.825 3543324.457 0
SO SRCPARAM 38939E4 .0453593 9.14 1273 20 20.806
**********END OF 38939: ConocoPhillips - Zia Hill 25E
INFO**********************************
************************************************************
** 23.49km away. Facility ID=38740 Name=Madera 19 Fed Com 1H 2H 6H CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.022528, -103.410695, NAD83
** Total Particulate Matter (10 microns or less) emissions=.51tons/year
*****************Facility sources: ****************************
** NMED source ID=38740AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=08-JUL-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38740A1 VOLUME 650090.125 3544036.8 0
SO SRCPARAM 38740A1 .00126 1 .47 .93
** NMED source ID=38740EQPT1 Facility's ID=HTR-01
** Description=Heater Treater-01 Construction date=08-JUL-19
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38740E1 VOLUME 650097.661 3544043.821 0
SO SRCPARAM 38740E1 .00126 4.6 .47 .93
** NMED source ID=38740EQPT4 Facility's ID=ENG-02
** Description=VRU Engine Construction date=08-JUL-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38740E4 POINT 650090.875 3544047.373 0
SO SRCPARAM 38740E4 .0037799 3.51 919.82 62.24 .09
** NMED source ID=38740EQPT33 Facility's ID=ENG-1
** Description=Gas Lift Compressor Construction date=18-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38740E33 POINT 650083.278 3544045.281 0
SO SRCPARAM 38740E33 .0037799 4.51 846.48 25.05 .15
** NMED source ID=38740EQPT34 Facility's ID=ENG-3
** Description=Gas Lift Compressor Construction date=18-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38740E34 POINT 650079.037 3544038.381 0
SO SRCPARAM 38740E34 .0037799 4.51 846.48 25.05 .15
**********END OF 38740: Madera 19 Fed Com 1H 2H 6H CTB
INFO**********************************
************************************************************
** 23.58km away. Facility ID=33016 Name=Big Sinks Draw 25 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5305 NOI
** lat,long,datum=32.101822, -103.738581, NAD83
** Total Particulate Matter (10 microns or less) emissions=.63tons/year
*****************Facility sources: ****************************
** NMED source ID=33016AREA1 Facility's ID=22
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33016A1 VOLUME 619020.123 3552418.382 0
SO SRCPARAM 33016A1 .2784556 10 20 9.3
** NMED source ID=33016EQPT2 Facility's ID=6
** Description=Heater_EQ000002549 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33016E2 VOLUME 619027.659 3552425.403 0
SO SRCPARAM 33016E2 .0005796 9.14 .47 .93
** NMED source ID=33016EQPT6 Facility's ID=7
```

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** Description=Heater_EQ000002519 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33016E6 VOLUME 619020.873 3552428.955 0
SO SRCPARAM 33016E6 .0005796 9.14 .47 .93
** NMED source ID=33016EQPT8 Facility's ID=23
** Description=Heater_EQ000002531 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33016E8 VOLUME 619013.276 3552426.863 0
SO SRCPARAM 33016E8 .0005796 9.14 .47 .93
** NMED source ID=33016EQPT16 Facility's ID=30
** Description=LPC_EQ000166150 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33016E16 POINT 619009.035 3552419.963 0
SO SRCPARAM 33016E16 .00252 2.68 922.04 67.27 .08
**********END OF 33016: Big Sinks Draw 25 Battery
INFO************************************
************************************************************
** 23.58km away. Facility ID=40762 Name=Mule 23 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.121859, -103.751118, NAD83
** Total Particulate Matter (10 microns or less) emissions=4.58tons/year
*****************Facility sources: ******************************
** NMED source ID=40762AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=01-NOV-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40762A1 VOLUME 617811.382 3554625.828 0
SO SRCPARAM 40762A1 .2784556 10 20 9.3
** NMED source ID=40762EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=01-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40762E2 VOLUME 617818.918 3554632.849 0
SO SRCPARAM 40762E2 .0037799 9.14 .47 .93
** NMED source ID=40762EQPT11 Facility's ID=ENG-1
** Description=ENG-1 Combustion Engine Construction date=01-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40762E11 POINT 617812.132 3554636.401 0
SO SRCPARAM 40762E11 .0138598 7.01 809.26 57.36 .3
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** NMED source ID=40762EQPT12 Facility's ID=ENG-2
** Description=ENG-2 Combustion Engine Construction date=01-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40762E12 POINT 617804.535 3554634.309 0
SO SRCPARAM 40762E12 .0037799 3.6 813.15 19.72 .17
**********END OF 40762: Mule 23 CTB 1 INFO**********************************
************************************************************
** 23.61km away. Facility ID=39859 Name=Franklin - Paul Foster CTB
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.082102, -103.324553, NAD83
** Total Particulate Matter (10 microns or less) emissions=.13tons/year
*****************Facility sources: ****************************
** NMED source ID=39859EQPT1 Facility's ID=GEN-01
** Description=Diesel Generator  1675 hp Construction date=19-FEB-21
** SCC=20100102
** Potential operating rate=480hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39859E1 POINT 658123.64 3550764.371 0
SO SRCPARAM 39859E1 .0692989 5.49 777.59 971.4 .3
SO EMISFACT 39859E1 HROFDY 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
**********END OF 39859: Franklin - Paul Foster CTB
INFO**********************************
************************************************************
** 23.63km away. Facility ID=38796 Name=Ram 3 Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.413757, -103.45107, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.62tons/year
*****************Facility sources: ****************************
** NMED source ID=38796EQPT2 Facility's ID=HT-01
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38796E2 VOLUME 645651.503 3587354.582 0
SO SRCPARAM 38796E2 .00126 4.57 .47 .93
** NMED source ID=38796EQPT3 Facility's ID=HT-02
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38796E3 VOLUME 645659.039 3587361.603 0
SO SRCPARAM 38796E3 .00126 4.57 .47 .93
** NMED source ID=38796EQPT16 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=08-NOV-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E16 POINT 645652.253 3587365.155 0
SO SRCPARAM 38796E16 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38796EQPT17 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=25-SEP-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E17 POINT 645644.656 3587363.063 0
SO SRCPARAM 38796E17 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38796EQPT18 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=09-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E18 POINT 645640.415 3587356.163 0
SO SRCPARAM 38796E18 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38796EQPT19 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=09-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E19 POINT 645642.067 3587348.009 0
SO SRCPARAM 38796E19 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38796EQPT20 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=09-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E20 POINT 645649.016 3587343.047 0
SO SRCPARAM 38796E20 .0075599 6.17 695.37 37.61 .25
** NMED source ID=38796EQPT23 Facility's ID=HT-03
** Description=Heater Treater Construction date=17-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E23 VOLUME 645657.699 3587344.189 0
SO SRCPARAM 38796E23 .00126 4.57 .47 .93
** NMED source ID=38796EQPT24 Facility's ID=HT-04
** Description=Heater Treater Construction date=17-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E24 VOLUME 645663.409 3587351.117 0
SO SRCPARAM 38796E24 .00126 4.57 .47 .93
** NMED source ID=38796EQPT38 Facility's ID=HT-05
** Description=Heater Treater Construction date=17-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38796E38 VOLUME 645662.844 3587360.298 0
SO SRCPARAM 38796E38 .00126 4.57 .47 .93
** NMED source ID=38796EQPT39 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=28-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E39 POINT 645656.009 3587366.776 0
SO SRCPARAM 38796E39 .0075599 6.17 695.37 37.61 .25
** NMED source ID=38796EQPT40 Facility's ID=ENG-07
** Description=Compressor Engine Construction date=28-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E40 POINT 645646.373 3587366.853 0
SO SRCPARAM 38796E40 .0075599 6.17 695.37 37.61 .25
** NMED source ID=38796EQPT41 Facility's ID=GEN-01
** Description=Generator Engine Construction date=28-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E41 POINT 645639.112 3587360.187 0
SO SRCPARAM 38796E41 .0050399 4.51 930.37 87.13 .09
** NMED source ID=38796EQPT42 Facility's ID=GEN-02
** Description=Generator Engine Construction date=28-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E42 POINT 645638.332 3587350.141 0
SO SRCPARAM 38796E42 .0050399 4.51 840.37 177.38 .09
**********END OF 38796: Ram 3 Battery INFO************************************
************************************************************
** 23.64km away. Facility ID=40264 Name=E Livingston 31 Fed 6H TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.341106, -103.721932, NAD83
** Total Particulate Matter (10 microns or less) emissions=.2tons/year
*****************Facility sources: ******************************
** NMED source ID=40264AREA1 Facility's ID=HR
** Description=Unpaved Roads Construction date=05-JAN-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40264A1 VOLUME 620275.587 3578963.511 0
SO SRCPARAM 40264A1 .0050399 1 .47 .93
** NMED source ID=40264EQPT1 Facility's ID=HT-1
** Description=0.5 MMBTU/hr, Heater Treater Construction date=05-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40264E1 VOLUME 620283.123 3578970.532 0
SO SRCPARAM 40264E1 .0005796 6.1 .47 .93
** NMED source ID=40264EQPT12 Facility's ID=HT-2
** Description=0.5 MMBTU/hr, Heater Treater Construction date=28-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40264E12 VOLUME 620276.337 3578974.084 0
SO SRCPARAM 40264E12 .0005796 6.1 .47 .93
**********END OF 40264: E Livingston 31 Fed 6H TB
INFO************************************
************************************************************
** 23.65km away. Facility ID=5127 Name=Exmoor 15 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.134797, -103.758413, NAD83
** Total Particulate Matter (10 microns or less) emissions=4.35tons/year
*****************Facility sources: ******************************
** NMED source ID=5127AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=19-JUN-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5127A1 VOLUME 617106.64 3556052.13 0
SO SRCPARAM 5127A1 .2784556 10 20 9.3
** NMED source ID=5127EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=19-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5127E1 POINT 617114.176 3556059.151 0
SO SRCPARAM 5127E1 .0302395 6.28 873.71 25.31 .41
** NMED source ID=5127EQPT6 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=19-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5127E6 VOLUME 617107.39 3556062.703 0
SO SRCPARAM 5127E6 .0037799 9.14 .47 .93
** NMED source ID=5127EQPT7 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=19-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5127E7 VOLUME 617099.793 3556060.611 0
SO SRCPARAM 5127E7 .0037799 9.14 .47 .93
**********END OF 5127: Exmoor 15 CTB 2 INFO**********************************
************************************************************
** 23.7km away. Facility ID=37912 Name=ConocoPhillips - War Hammer 25 WF1
** Company ID=198 Name=ConocoPhillips Company
```

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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.015556, -103.624722, WGS84
** Total Particulate Matter (10 microns or less) emissions=.69tons/year
*****************Facility sources: ****************************
** NMED source ID=37912EQPT1 Facility's ID=ENG1
** Description=690 hp Caterpillar G3508ULB Construction date=04-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4831hr/yr, 24hr/day
SO LOCATION 37912E1 POINT 629885.925 3542986.545 0
SO SRCPARAM 37912E1 .0075599 7.1 725.93 34.78 .25
** NMED source ID=37912EQPT2 Facility's ID=FL1
** Description=Flare 15 MMscfd Construction date=04-SEP-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5664hr/yr, 24hr/day
SO LOCATION 37912E2 POINT 629893.461 3542993.566 0
SO SRCPARAM 37912E2 .0037799 12.19 1273 20 2.632
** NMED source ID=37912EQPT3 Facility's ID=HT1
** Description=Heater Treater 2.5 MMBtu/hr Construction date=04-SEP-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5208hr/yr, 24hr/day
SO LOCATION 37912E3 VOLUME 629886.675 3542997.118 0
SO SRCPARAM 37912E3 .00252 4.57 .47 .93
** NMED source ID=37912EQPT6 Facility's ID=HT2
** Description=Heater Treater 2.5 MMBtu/hr Construction date=04-SEP-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5208hr/yr, 24hr/day
SO LOCATION 37912E6 VOLUME 629879.078 3542995.026 0
SO SRCPARAM 37912E6 .00252 4.57 .47 .93
** NMED source ID=37912RPNT2 Facility's ID=ROAD
** Description=Haul Road Emissions Construction date=04-SEP-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37912R2 VOLUME 629874.837 3542988.126 0
SO SRCPARAM 37912R2 .0856786 10 10 9.3
**********END OF 37912: ConocoPhillips - War Hammer 25 WF1
INFO**********************************
************************************************************
** 23.72km away. Facility ID=35048 Name=Salado Draw Compressor Station
** Company ID=12729 Name=Delaware Basin Midstream, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.037364, -103.670419, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.34tons/year
*****************Facility sources: ****************************
** NMED source ID=35048EQPT13 Facility's ID=CE-1
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7091hr/yr, 24hr/day
SO LOCATION 35048E13 POINT 625540.041 3545350.073 0
SO SRCPARAM 35048E13 .0138598 7.01 805.93 32.31 .41
** NMED source ID=35048EQPT14 Facility's ID=CE-2
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6776hr/yr, 24hr/day
SO LOCATION 35048E14 POINT 625547.577 3545357.094 0
SO SRCPARAM 35048E14 .0138598 7.01 805.93 32.31 .41
** NMED source ID=35048EQPT15 Facility's ID=CE-3
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6817hr/yr, 24hr/day
SO LOCATION 35048E15 POINT 625540.791 3545360.646 0
SO SRCPARAM 35048E15 .0138598 7.01 805.93 32.31 .41
** NMED source ID=35048EQPT16 Facility's ID=CE-4
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7031hr/yr, 24hr/day
SO LOCATION 35048E16 POINT 625533.194 3545358.554 0
SO SRCPARAM 35048E16 .0138598 7.01 761.48 32.31 .41
** NMED source ID=35048EQPT17 Facility's ID=FL-1
** Description=Flare Pilot Construction date=23-NOV-15
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35048E17 POINT 625528.953 3545351.654 0
SO SRCPARAM 35048E17 .0002898 12.19 1273 20 20.806
** NMED source ID=35048EQPT18 Facility's ID=CE-5
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7401hr/yr, 24hr/day
SO LOCATION 35048E18 POINT 625530.605 3545343.5 0
SO SRCPARAM 35048E18 .0138598 7.01 761.48 32.31 .41
** NMED source ID=35048EQPT19 Facility's ID=CE-6
** Description=1380 hp Caterpillar G3516B Construction date=23-NOV-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7594hr/yr, 24hr/day
SO LOCATION 35048E19 POINT 625537.554 3545338.538 0
SO SRCPARAM 35048E19 .0138598 7.01 761.48 32.31 .41
** NMED source ID=35048EQPT20 Facility's ID=CE-7
** Description=1380 hp Caterpillar G3516B Construction date=23-NOV-15
** SCC=20200254
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8011hr/yr, 24hr/day
SO LOCATION 35048E20 POINT 625546.237 3545339.68 0
SO SRCPARAM 35048E20 .0138598 7.01 805.93 32.31 .41
** NMED source ID=35048EQPT21 Facility's ID=CE-8
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8392hr/yr, 24hr/day
SO LOCATION 35048E21 POINT 625551.947 3545346.608 0
SO SRCPARAM 35048E21 .0138598 7.01 761.48 32.31 .41
** NMED source ID=35048EQPT22 Facility's ID=DHR-1
** Description=Dehydrator Reboiler Construction date=20-JAN-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4622hr/yr, 24hr/day
SO LOCATION 35048E22 POINT 625551.382 3545355.789 0
SO SRCPARAM 35048E22 .00126 6.1 477.59 .98 .46
** NMED source ID=35048EQPT24 Facility's ID=EC-1
** Description=Enclosed Vapor Combustor - Tanks Construction date=31-DEC-15
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8742hr/yr, 24hr/day
SO LOCATION 35048E24 POINT 625544.547 3545362.267 0
SO SRCPARAM 35048E24 .0088199 7.62 922.04 1.97 1.37
** NMED source ID=35048EQPT25 Facility's ID=TO-1
** Description=Thermal Oxidizer Construction date=20-JAN-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5051hr/yr, 24hr/day
SO LOCATION 35048E25 POINT 625534.911 3545362.344 0
SO SRCPARAM 35048E25 .0088199 10.67 1172.04 4.13 1.07
** NMED source ID=35048EQPT29 Facility's ID=SSM-FL1
** Description=Flare for SSM Activities Construction date=07-SEP-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35048E29 POINT 625527.65 3545355.678 0
SO SRCPARAM 35048E29 .0011466 12.19 1273 20 20.806
**********END OF 35048: Salado Draw Compressor Station
INFO**********************************
************************************************************
** 23.72km away. Facility ID=40403 Name=Red Hills West Unit #023H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.05045, -103.689887, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.28tons/year
****************Facility sources: ****************************
** NMED source ID=40403EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=23-OCT-22
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E1 POINT 623684.113 3546778.266 0
SO SRCPARAM 40403E1 .0075599 6.17 695.37 37.61 .25
** NMED source ID=40403EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=23-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E2 POINT 623691.649 3546785.287 0
SO SRCPARAM 40403E2 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40403EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=23-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E3 POINT 623684.863 3546788.839 0
SO SRCPARAM 40403E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40403EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=23-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E4 POINT 623677.266 3546786.747 0
SO SRCPARAM 40403E4 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40403EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=23-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E5 POINT 623673.025 3546779.847 0
SO SRCPARAM 40403E5 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40403EQPT6 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=21-MAY-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E6 POINT 623674.677 3546771.693 0
SO SRCPARAM 40403E6 .00252 6.61 499.82 11.19 .3
** NMED source ID=40403EQPT10 Facility's ID=HT-01
** Description=Heater Treater Construction date=23-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E10 POINT 623681.626 3546766.731 0
SO SRCPARAM 40403E10 .00126 4.57 533.15 3.96 .46
** NMED source ID=40403EQPT11 Facility's ID=HT-02
** Description=Heater Treater Construction date=23-OCT-22
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E11 POINT 623690.309 3546767.873 0
SO SRCPARAM 40403E11 .00126 4.57 533.15 3.93 .46
** NMED source ID=40403EQPT12 Facility's ID=HT-03
** Description=Heater Treater Construction date=23-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E12 POINT 623696.019 3546774.801 0
SO SRCPARAM 40403E12 .00126 4.57 533.15 3.93 .46
** NMED source ID=40403EQPT13 Facility's ID=HT-04
** Description=Heater Treater Construction date=23-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E13 POINT 623695.454 3546783.982 0
SO SRCPARAM 40403E13 .00126 4.57 533.15 3.93 .46
**********END OF 40403: Red Hills West Unit #023H Battery
INFO**********************************
************************************************************
** 23.73km away. Facility ID=38744 Name=Moon Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.0929, -103.7339, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.46tons/year
*****************Facility sources: ******************************
** NMED source ID=38744EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8238hr/yr, 24hr/day
SO LOCATION 38744E1 POINT 619473.442 3551434.503 0
SO SRCPARAM 38744E1 .0113398 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT4 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7814hr/yr, 24hr/day
SO LOCATION 38744E4 POINT 619480.978 3551441.524 0
SO SRCPARAM 38744E4 .0113398 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT5 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7896hr/yr, 24hr/day
SO LOCATION 38744E5 POINT 619474.192 3551445.076 0
SO SRCPARAM 38744E5 .0113398 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT6 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=17-APR-20
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7968hr/yr, 24hr/day
SO LOCATION 38744E6 POINT 619466.595 3551442.984 0
SO SRCPARAM 38744E6 .0113398 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT7 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8234hr/yr, 24hr/day
SO LOCATION 38744E7 POINT 619462.354 3551436.084 0
SO SRCPARAM 38744E7 .0113398 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT8 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8446hr/yr, 24hr/day
SO LOCATION 38744E8 POINT 619464.006 3551427.93 0
SO SRCPARAM 38744E8 .0113398 7.32 806.48 37.76 .38
**********END OF 38744: Moon Compressor Station
INFO***********************************
************************************************************
** 23.74km away. Facility ID=40306 Name=El Campeon CTB 30
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.018875, -103.413464, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.97tons/year
*****************Facility sources: ****************************
** NMED source ID=40306AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=12-JUL-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306A1 VOLUME 649834.546 3543627.978 0
SO SRCPARAM 40306A1 .3313747 10 30 9.3
** NMED source ID=40306EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3306TA 203 hp engine Construction date=28-JAN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E1 POINT 649842.082 3543634.999 0
SO SRCPARAM 40306E1 .0037799 4.57 853.15 36.27 .15
** NMED source ID=40306EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3306TA 203 hp engine Construction date=28-JAN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E2 POINT 649835.296 3543638.551 0
SO SRCPARAM 40306E2 .0037799 4.57 853.15 36.27 .15
** NMED source ID=40306EQPT3 Facility's ID=ENG-3
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** Description=Caterpillar G3306TA 203 hp engine Construction date=28-JAN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E3 POINT 649827.699 3543636.459 0
SO SRCPARAM 40306E3 .0037799 4.57 853.15 36.27 .15
** NMED source ID=40306EQPT4 Facility's ID=ENG-4
** Description=Caterpillar G3306TA 203 hp engine Construction date=28-JAN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E4 POINT 649823.458 3543629.559 0
SO SRCPARAM 40306E4 .0037799 4.57 853.15 36.27 .15
** NMED source ID=40306EQPT5 Facility's ID=HT-1
** Description=0.75 MMbtu/h Heater Treater Construction date=28-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E5 VOLUME 649825.11 3543621.405 0
SO SRCPARAM 40306E5 .00126 4.57 .47 .93
** NMED source ID=40306EQPT6 Facility's ID=HT-2
** Description=0.75 MMbtu/h Heater Treater Construction date=28-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E6 VOLUME 649832.059 3543616.443 0
SO SRCPARAM 40306E6 .00126 4.57 .47 .93
** NMED source ID=40306EQPT7 Facility's ID=HT-3
** Description=0.75 MMbtu/h Heater Treater Construction date=28-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E7 VOLUME 649840.742 3543617.585 0
SO SRCPARAM 40306E7 .00126 4.57 .47 .93
** NMED source ID=40306EQPT8 Facility's ID=HT-4
** Description=0.75 MMbtu/h Heater Treater Construction date=28-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E8 VOLUME 649846.452 3543624.513 0
SO SRCPARAM 40306E8 .00126 4.57 .47 .93
** NMED source ID=40306EQPT23 Facility's ID=GEN-1
** Description=Generator Construction date=12-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E23 POINT 649845.887 3543633.694 0
SO SRCPARAM 40306E23 .0088199 4.57 1005.37 49.01 .15
** NMED source ID=40306EQPT24 Facility's ID=GEN-2
** Description=Generator Construction date=12-JUL-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E24 POINT 649839.052 3543640.172 0
SO SRCPARAM 40306E24 .0088199 4.57 1005.37 49.01 .15
** NMED source ID=40306EQPT25 Facility's ID=GEN-3
** Description=Generator Construction date=12-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E25 POINT 649829.416 3543640.249 0
SO SRCPARAM 40306E25 .0088199 4.57 1005.37 49.01 .15
** NMED source ID=40306EQPT26 Facility's ID=GEN-4
** Description=Generator Construction date=12-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E26 POINT 649822.155 3543633.583 0
SO SRCPARAM 40306E26 .0088199 4.57 1005.37 49.01 .15
**********END OF 40306: El Campeon CTB 30 INFO**********************************
************************************************************
** 23.76km away. Facility ID=38506 Name=Tomb Raider 1 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.339961, -103.724672, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.91tons/year
*****************Facility sources: ******************************
** NMED source ID=38506EQPT3 Facility's ID=ENG-1
** Description=Caterpillar CG137-8 400 hp Construction date=09-JUL-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38506E3 POINT 620019.227 3578833.502 0
SO SRCPARAM 38506E3 .0075599 4.39 778.71 15 .26
** NMED source ID=38506EQPT7 Facility's ID=HT-1
** Description=Heater Treater 1, 1.0 mm btu/h Construction date=19-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E7 VOLUME 620026.763 3578840.523 0
SO SRCPARAM 38506E7 .00126 9.14 .47 .93
** NMED source ID=38506EQPT8 Facility's ID=HT-2
** Description=Heater Treater 2, 1.0 mm btu/h Construction date=19-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E8 VOLUME 620019.977 3578844.075 0
SO SRCPARAM 38506E8 .00126 9.14 .47 .93
** NMED source ID=38506EQPT9 Facility's ID=HT-3
** Description=Heater Treater 3, 1.0 mm btu/h Construction date=19-JUL-18
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E9 VOLUME 620012.38 3578841.983 0
SO SRCPARAM 38506E9 .00126 9.14 .47 .93
** NMED source ID=38506EQPT10 Facility's ID=HT-4
** Description=Heater Treater 4, 1.0 mm btu/h Construction date=19-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E10 VOLUME 620008.139 3578835.083 0
SO SRCPARAM 38506E10 .00126 9.14 .47 .93
** NMED source ID=38506EQPT11 Facility's ID=HT-5
** Description=Heater Treater 5, 1.0 mm btu/h Construction date=19-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E11 VOLUME 620009.791 3578826.929 0
SO SRCPARAM 38506E11 .00126 9.14 .47 .93
** NMED source ID=38506EQPT12 Facility's ID=HT-6
** Description=Heater Treater 6, 1.0 mm btu/h Construction date=09-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E12 VOLUME 620016.74 3578821.967 0
SO SRCPARAM 38506E12 .00126 9.14 .47 .93
** NMED source ID=38506EQPT14 Facility's ID=LPC-1
** Description=Cummins G855 (LPC), 188 hp Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38506E14 POINT 620025.423 3578823.109 0
SO SRCPARAM 38506E14 .0037799 3.51 919.82 51.44 .21
** NMED source ID=38506EQPT15 Facility's ID=LPC-2
** Description=Cummins G855 (LPC), 188 hp Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38506E15 POINT 620031.133 3578830.037 0
SO SRCPARAM 38506E15 .0037799 3.51 919.82 51.44 .21
** NMED source ID=38506EQPT16 Facility's ID=LPC-3
** Description=GM Vortex 5.7L (LPC), 92 hp Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38506E16 POINT 620030.568 3578839.218 0
SO SRCPARAM 38506E16 .00126 3.51 922.04 89.62 .21
** NMED source ID=38506EQPT17 Facility's ID=LPC-4
** Description=GM Vortex 5.7L (LPC), 92 hp Construction date=19-JUL-18
** SCC=20200254
```

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38506E17 POINT 620023.733 3578845.696 0
SO SRCPARAM 38506E17 .00126 3.51 922.04 89.62 .21
** NMED source ID=38506EQPT20 Facility's ID=ENG-2
** Description=Caterpillar CG137-8 400 hp
 Construction date=19-JUL-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38506E20 POINT 620014.097 3578845.773 0
SO SRCPARAM 38506E20 .0075599 4.39 778.71 15 .26
** NMED source ID=38506RPNT1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=19-JUL-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506R1 VOLUME 620006.836 3578839.107 0
SO SRCPARAM 38506R1 .314995 10 30 9.3
**********END OF 38506: Tomb Raider 1 CTB 3
INFO**********************************
************************************************************
** 23.81km away. Facility ID=39793 Name=Devon - Galapagos 14 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.308785, -103.748574, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.84tons/year
*****************Facility sources: ****************************
** NMED source ID=39793AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=18-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793A1 VOLUME 617810.06 3575350.806 0
SO SRCPARAM 39793A1 .2784556 10 20 9.3
** NMED source ID=39793EQPT3 Facility's ID=GEN-1
** Description=Generator 1 (550 hp) 4SRB Construction date=18-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E3 POINT 617817.596 3575357.827 0
SO SRCPARAM 39793E3 .0100798 3.51 1005.37 215.22 .09
** NMED source ID=39793EQPT4 Facility's ID=GEN-2
** Description=Generator 1 (550 hp) 4SRB Construction date=18-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E4 POINT 617810.81 3575361.379 0
SO SRCPARAM 39793E4 .0100798 3.51 1005.37 215.22 .09
** NMED source ID=39793EQPT5 Facility's ID=HT-1
```

```
** Description=Heater Treater (3 MM BTU/hr) Construction date=18-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E5 VOLUME 617803.213 3575359.287 0
SO SRCPARAM 39793E5 .0037799 9.14 .47 .93
** NMED source ID=39793EQPT6 Facility's ID=HT-2
** Description=Heater Treater (3 MM BTU/hr) Construction date=18-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E6 VOLUME 617798.972 3575352.387 0
SO SRCPARAM 39793E6 .0037799 9.14 .47 .93
** NMED source ID=39793EQPT7 Facility's ID=LPC-1
** Description=Low Pressure Compressor (188 hp) Construction date=18-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E7 POINT 617800.624 3575344.233 0
SO SRCPARAM 39793E7 .0037799 3.51 919.82 51.42 .1
** NMED source ID=39793EQPT8 Facility's ID=LPC-2
** Description=Low Pressure Compressor (188 hp) Construction date=18-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E8 POINT 617807.573 3575339.271 0
SO SRCPARAM 39793E8 .0037799 3.51 919.82 51.42 .1
** NMED source ID=39793EQPT9 Facility's ID=LPC-3
** Description=Low Pressure Compressor (188 hp) Construction date=18-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E9 POINT 617816.256 3575340.413 0
SO SRCPARAM 39793E9 .0037799 3.51 919.82 51.42 .1
**********END OF 39793: Devon - Galapagos 14 CTB 2
INFO**********************************
************************************************************
** 23.82km away. Facility ID=31536 Name=Kiehne Ranch 15-26-32 USA 1H
** Company ID=14099 Name=Chevron USA Inc. - Houston
** SIC=1311 NAIC=21112    Permit=4794 NOI
** lat,long,datum=32.03572, -103.66963, WGS84
** Total Particulate Matter (10 microns or less) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=31536EQPT8 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31536E8 VOLUME 625616.79 3545168.743 0
SO SRCPARAM 31536E8 .0005796 3.05 .47 .93
```

**********END OF 31536: Kiehne Ranch 15-26-32 USA 1H
INFO**********
**********
** 23.82km away. Facility ID=40298 Name=El Campeon CTB 20
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.02862, -103.390899, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.26tons/year
**********Facility sources: **********
** NMED source ID=40298AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=22-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298A1 VOLUME 651949.766 3544739.851 0
SO SRCPARAM 40298A1 .440993 10 40 9.3
** NMED source ID=40298EQPT5 Facility's ID=HT-1
** Description=2.0 MMbtu/h Heater Treater Construction date=28-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298E5 VOLUME 651957.302 3544746.872 0
SO SRCPARAM 40298E5 .00252 4.57 .47 .93
** NMED source ID=40298EQPT7 Facility's ID=HT-3
** Description=0.75 MMbtu/h Heater Treater Construction date=28-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298E7 VOLUME 651950.516 3544750.424 0
SO SRCPARAM 40298E7 .00126 4.57 .47 .93
** NMED source ID=40298EQPT25 Facility's ID=GEN-1
** Description=Generator Engine Construction date=22-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298E25 POINT 651942.919 3544748.332 0
SO SRCPARAM 40298E25 .0088199 4.57 1005.37 49.04 .15
** NMED source ID=40298EQPT26 Facility's ID=GEN-2
** Description=Generator Engine Construction date=22-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298E26 POINT 651938.678 3544741.432 0
SO SRCPARAM 40298E26 .0088199 4.57 1005.37 49.04 .15
** NMED source ID=40298EQPT27 Facility's ID=GEN-3
** Description=Generator Engine Construction date=22-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298E27 POINT 651940.33 3544733.278 0

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SO SRCPARAM 40298E27 .0088199 4.57 1005.37 49.04 .15
** NMED source ID=40298EQPT28 Facility's ID=GEN-4
** Description=Generator Engine Construction date=22-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298E28 POINT 651947.279 3544728.316 0
SO SRCPARAM 40298E28 .0088199 4.57 1005.37 49.04 .15
** NMED source ID=40298EQPT29 Facility's ID=HT-2A
** Description=2.0 MMbtu/h Heater Treater Construction date=22-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298E29 VOLUME 651955.962 3544729.458 0
SO SRCPARAM 40298E29 .00252 4.57 .47 .93
**********END OF 40298: El Campeon CTB 20 INFO************************************
************************************************************
** 23.84km away. Facility ID=39205 Name=Mewbourne - Armstrong 26 25 W1IP Fed Com 1H
Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.101567, -103.741636, WGS84
** Total Particulate Matter (10 microns or less) emissions=.68tons/year
*****************Facility sources: ******************************
** NMED source ID=39205EQPT1 Facility's ID=ENG-01
** Description=202 HP Compressor Engine (Caterpillar 3306TA) Construction
date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39205E1 POINT 618732.181 3552386.744 0
SO SRCPARAM 39205E1 .0037799 4.57 834.82 25.24 .15
** NMED source ID=39205EQPT2 Facility's ID=ENG-02
** Description=202 HP Compressor Engine (Caterpillar 3306TA) Construction
date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39205E2 POINT 618739.717 3552393.765 0
SO SRCPARAM 39205E2 .0037799 4.57 834.82 25.24 .15
** NMED source ID=39205EQPT7 Facility's ID=HT-01
** Description=0.75 MMBtu/hr Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39205E7 VOLUME 618732.931 3552397.317 0
SO SRCPARAM 39205E7 .00126 4.57 .47 .93
** NMED source ID=39205EQPT8 Facility's ID=HT-02
** Description=0.75 MMBtu/hr Heater Treater Construction date=01-JAN-20
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39205E8 VOLUME 618725.334 3552395.225 0
SO SRCPARAM 39205E8 .00126 4.57 .47 .93
** NMED source ID=39205EQPT9 Facility's ID=HT-03
** Description=1.5 MMBtu/hr Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39205E9 VOLUME 618721.093 3552388.325 0
SO SRCPARAM 39205E9 .00126 4.57 .47 .93
** NMED source ID=39205EQPT25 Facility's ID=ENG-03
** Description=690 HP Compressor Engine Construction date=09-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39205E25 POINT 618722.745 3552380.171 0
SO SRCPARAM 39205E25 .0062999 5.49 694.82 25.77 .3
** NMED source ID=39205EQPT27 Facility's ID=HT-04
** Description=1.5 MMBtu/hr Heater Treater Construction date=09-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39205E27 VOLUME 618729.694 3552375.209 0
SO SRCPARAM 39205E27 .00126 4.57 .47 .93
**********END OF 39205: Mewbourne - Armstrong 26 25 W1IP Fed Com 1H Battery
INFO***********************************
************************************************************
** 23.86km away. Facility ID=40190 Name=Squeeze 2 State Com Battery
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.414301, -103.445185, WGS84
** Total Particulate Matter (10 microns or less) emissions=.31tons/year
*****************Facility sources: ****************************
** NMED source ID=40190AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road 1 Construction date=08-MAR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40190A1 VOLUME 646204.072 3587422.931 0
SO SRCPARAM 40190A1 .0995384 10 10 9.3
** NMED source ID=40190EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 MMBtu/hr Construction date=27-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40190E1 VOLUME 646211.608 3587429.952 0
SO SRCPARAM 40190E1 .00126 7.62 .47 .93
**********END OF 40190: Squeeze 2 State Com Battery
INFO***********************************
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************************************************************
** 23.93km away. Facility ID=39861 Name=Red Hills West 22 Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=9090 NOI
** lat,long,datum=32.034905, -103.670274, WGS84
** Total Particulate Matter (10 microns or less) emissions=.11tons/year
*****************Facility sources: ****************************
** NMED source ID=39861AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=11-JAN-24
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39861A1 VOLUME 625557.09 3545077.646 0
SO SRCPARAM 39861A1 .0907186 10 10 9.3
** NMED source ID=39861EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=11-JAN-24
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39861E3 VOLUME 625564.626 3545084.667 0
SO SRCPARAM 39861E3 .00126 4.57 .47 .93
** NMED source ID=39861EQPT4 Facility's ID=HT-02
** Description=Heater Treater Construction date=11-JAN-24
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39861E4 VOLUME 625557.84 3545088.219 0
SO SRCPARAM 39861E4 .00126 4.57 .47 .93
** NMED source ID=39861EQPT5 Facility's ID=HT-03
** Description=Heater Treater Construction date=11-JAN-24
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39861E5 VOLUME 625550.243 3545086.127 0
SO SRCPARAM 39861E5 .00126 4.57 .47 .93
**********END OF 39861: Red Hills West 22 Fed Com 1H Battery
INFO**********************************
************************************************************
** 23.93km away. Facility ID=38056 Name=Wildcat Compressor Station
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=7474 Title V
** lat,long,datum=32.201944, -103.777778, NAD83
** Total Particulate Matter (10 microns or less) emissions=16.34tons/year
*****************Facility sources: ****************************
** NMED source ID=38056EQPT5 Facility's ID=ENG1
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8476hr/yr, 24hr/day
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SO LOCATION 38056E5 POINT 615195.456 3563474.912 0
SO SRCPARAM 38056E5 .0297305 7.62 704.82 90.17 .46
** NMED source ID=38056EQPT6 Facility's ID=ENG2
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8045hr/yr, 24hr/day
SO LOCATION 38056E6 POINT 615202.992 3563481.933 0
SO SRCPARAM 38056E6 .0313231 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT7 Facility's ID=ENG3
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8432hr/yr, 24hr/day
SO LOCATION 38056E7 POINT 615196.206 3563485.485 0
SO SRCPARAM 38056E7 .0298855 7.62 704.82 90.17 .46
** NMED source ID=38056EQPT8 Facility's ID=ENG4
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7003hr/yr, 24hr/day
SO LOCATION 38056E8 POINT 615188.609 3563483.393 0
SO SRCPARAM 38056E8 .0503992 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT9 Facility's ID=ENG5
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6682hr/yr, 24hr/day
SO LOCATION 38056E9 POINT 615184.368 3563476.493 0
SO SRCPARAM 38056E9 .0503992 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT10 Facility's ID=ENG6
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7009hr/yr, 24hr/day
SO LOCATION 38056E10 POINT 615186.02 3563468.339 0
SO SRCPARAM 38056E10 .0503992 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT11 Facility's ID=ENG7
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38056E11 POINT 615192.969 3563463.377 0
SO SRCPARAM 38056E11 .0503992 7.62 704.82 90.2 .46
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** NMED source ID=38056EQPT12 Facility's ID=ENG8
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38056E12 POINT 615201.652 3563464.519 0
SO SRCPARAM 38056E12 .0503992 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT21 Facility's ID=ENG9
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38056E21 POINT 615207.362 3563471.447 0
SO SRCPARAM 38056E21 .0503992 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT23 Facility's ID=ENG11
** Description=Caterpillar 3516TA Natural Gas Engine-1380hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4693hr/yr, 24hr/day
SO LOCATION 38056E23 POINT 615206.797 3563480.628 0
SO SRCPARAM 38056E23 .014389 6.1 809.26 59.28 .3
** NMED source ID=38056EQPT24 Facility's ID=ENG12
** Description=Caterpillar 3516TA Natural Gas Engine-1380hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5475hr/yr, 24hr/day
SO LOCATION 38056E24 POINT 615199.962 3563487.106 0
SO SRCPARAM 38056E24 .014389 6.1 809.26 59.28 .3
** NMED source ID=38056EQPT35 Facility's ID=HTR1
** Description=Fuel Line Heater-0.75 MMBtu/hr Construction date=10-SEP-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38056E35 POINT 615190.326 3563487.183 0
SO SRCPARAM 38056E35 .0011466 4.57 699.82 1.96 .23
**********END OF 38056: Wildcat Compressor Station
INFO**********************************
************************************************************
** 23.96km away. Facility ID=40119 Name=Red Hills West 22 W0AP Fed Com No2H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.033583, -103.668553, WGS84
** Total Particulate Matter (10 microns or less) emissions=.99tons/year
****************Facility sources: ****************************
** NMED source ID=40119EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine (Caterpillar G3306TA) Construction date=02-SEP-21
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E1 POINT 625721.412 3544933.096 0
SO SRCPARAM 40119E1 .0037799 4.11 834.82 35.72 .13
** NMED source ID=40119EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine (Caterpillar G3306TA) Construction date=02-SEP-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E2 POINT 625728.948 3544940.117 0
SO SRCPARAM 40119E2 .0037799 4.11 834.82 35.72 .13
** NMED source ID=40119EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine (Caterpillar G3516J) Construction date=02-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E3 POINT 625722.162 3544943.669 0
SO SRCPARAM 40119E3 .0138598 6.27 774.82 50.87 .3
** NMED source ID=40119EQPT7 Facility's ID=HT-1
** Description=Heater Treater Construction date=02-SEP-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E7 VOLUME 625714.565 3544941.577 0
SO SRCPARAM 40119E7 .00126 4.57 .47 .93
** NMED source ID=40119EQPT8 Facility's ID=HT-2
** Description=Heater Treater Construction date=02-SEP-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E8 VOLUME 625710.324 3544934.677 0
SO SRCPARAM 40119E8 .00126 4.57 .47 .93
** NMED source ID=40119EQPT11 Facility's ID=HT-3
** Description=Heater Treater Construction date=15-SEP-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E11 VOLUME 625711.976 3544926.523 0
SO SRCPARAM 40119E11 .00126 4.57 .47 .93
** NMED source ID=40119EQPT12 Facility's ID=HT-4
** Description=Heater Treater Construction date=02-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E12 VOLUME 625718.925 3544921.561 0
SO SRCPARAM 40119E12 .00126 4.57 .47 .93
** NMED source ID=40119EQPT13 Facility's ID=HT-5
** Description=Heater Treater Construction date=02-MAY-22
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E13 VOLUME 625727.608 3544922.703 0
SO SRCPARAM 40119E13 .00126 4.57 .47 .93
**********END OF 40119: Red Hills West 22 W0AP Fed Com No2H Battery
INFO**********************************
************************************************************
** 23.99km away. Facility ID=40035 Name=Tenderloin Federal 1 B CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9257 NOI
** lat,long,datum=32.42602, -103.52262, WGS84
** Total Particulate Matter (10 microns or less) emissions=.81tons/year
*****************Facility sources: ******************************
** NMED source ID=40035AREA2 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=02-MAR-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40035A2 VOLUME 638903.944 3588618.85 0
SO SRCPARAM 40035A2 .0005796 1 .47 .93
** NMED source ID=40035EQPT4 Facility's ID=ENG-01
** Description=Compressor engine Construction date=29-OCT-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40035E4 POINT 638911.48 3588625.871 0
SO SRCPARAM 40035E4 .0075599 5.49 1000.37 50.23 .15
** NMED source ID=40035EQPT5 Facility's ID=ENG-02
** Description=Compressor engine Construction date=29-OCT-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40035E5 POINT 638904.694 3588629.423 0
SO SRCPARAM 40035E5 .0075599 5.49 1000.37 50.23 .15
** NMED source ID=40035EQPT6 Facility's ID=ENG-03
** Description=Compressor engine Construction date=29-OCT-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40035E6 POINT 638897.097 3588627.331 0
SO SRCPARAM 40035E6 .0075599 5.49 1000.37 50.23 .15
** NMED source ID=40035EQPT9 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=29-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40035E9 VOLUME 638892.856 3588620.431 0
SO SRCPARAM 40035E9 .00126 6.71 .47 .93
**********END OF 40035: Tenderloin Federal 1 B CTB
INFO**********************************
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************************************************************
** 24.01km away. Facility ID=40506 Name=Belloq 11 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.31475, -103.74722, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.57tons/year
*****************Facility sources: ******************************
** NMED source ID=40506ACT 1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=01-JUL-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40506@1 VOLUME 617929.805 3576013.571 0
SO SRCPARAM 40506@1 .2784556 10 20 9.3
** NMED source ID=40506EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=01-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40506E2 VOLUME 617937.341 3576020.592 0
SO SRCPARAM 40506E2 .0037799 9.14 .47 .93
** NMED source ID=40506EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=01-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40506E3 VOLUME 617930.555 3576024.144 0
SO SRCPARAM 40506E3 .0037799 9.14 .47 .93
**********END OF 40506: Belloq 11 CTB 2 INFO**********************************
************************************************************
** 24.03km away. Facility ID=38508 Name=OXY - North Corridor East Central Gas Lift
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.264425, -103.770981, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.2tons/year
*****************Facility sources: ******************************
** NMED source ID=38508EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine G3516B Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7693hr/yr, 24hr/day
SO LOCATION 38508E1 POINT 615756.864 3570408.712 0
SO SRCPARAM 38508E1 .0125998 4.57 816.48 26.27 .46
** NMED source ID=38508EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine G3516B Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7687hr/yr, 24hr/day
SO LOCATION 38508E2 POINT 615764.4 3570415.733 0
SO SRCPARAM 38508E2 .0125998 4.57 816.48 26.27 .46
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** NMED source ID=38508EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine G3516B Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7701hr/yr, 24hr/day
SO LOCATION 38508E3 POINT 615757.614 3570419.285 0
SO SRCPARAM 38508E3 .0125998 4.57 816.48 26.27 .46
** NMED source ID=38508EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine G3516B Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7665hr/yr, 24hr/day
SO LOCATION 38508E4 POINT 615750.017 3570417.193 0
SO SRCPARAM 38508E4 .0125998 4.57 816.48 26.27 .46
** NMED source ID=38508EQPT7 Facility's ID=REB-1
** Description=Glycol Dehydrator Reboiler Construction date=19-JUL-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38508E7 POINT 615745.776 3570410.293 0
SO SRCPARAM 38508E7 .00126 3.05 533.15 .12 .24
** NMED source ID=38508EQPT9 Facility's ID=ENG-5
** Description=Compressor Engine G3516B Construction date=01-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38508E9 POINT 615747.428 3570402.139 0
SO SRCPARAM 38508E9 .0125998 4.57 816.48 26.27 .46
** NMED source ID=38508RPNT2 Facility's ID=ROAD
** Description=Road Emissions Construction date=19-JUL-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38508R2 VOLUME 615754.377 3570397.177 0
SO SRCPARAM 38508R2 .0002898 1 .47 .93
** NMED source ID=38508RPNT5 Facility's ID=SSM
** Description=Startup, Shutdown, and Maintenance Construction date=11-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38508R5 VOLUME 615763.06 3570398.319 0
SO SRCPARAM 38508R5 .0002898 1 .47 .93
**********END OF 38508: OXY - North Corridor East Central Gas Lift
INFO**********************************
************************************************************
** 24.04km away. Facility ID=39691 Name=AO6 Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.415813, -103.603433, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.19tons/year
```

**********Facility sources: **********
** NMED source ID=39691EQPT1 Facility's ID=ENG-1
** Description=Ajax DPC 2802LE 301 hp engine Construction date=16-OCT-20
** SCC=20200252
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8008hr/yr, 24hr/day
SO LOCATION 39691E1 POINT 631319.996 3587385.051 0
SO SRCPARAM 39691E1 .0062999 6.61 588.71 16.5 .34
** NMED source ID=39691EQPT16 Facility's ID=HT-1
** Description=1.0 MMBtu/h Heater Treater Construction date=30-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39691E16 POINT 631327.532 3587392.072 0
SO SRCPARAM 39691E16 .00126 6.1 644.26 2.09 .2
** NMED source ID=39691RPNT3 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=16-OCT-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39691R3 VOLUME 631320.746 3587395.624 0
SO SRCPARAM 39691R3 .0881986 10 10 9.3
**********END OF 39691: AO6 Battery INFO**********
**********
** 24.05km away. Facility ID=32643 Name=Cotton Draw Unit 15 Fed Com 2 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5158 NOI
** lat,long,datum=32.136778, -103.763778, NAD83
** Total Particulate Matter (10 microns or less) emissions=.18tons/year
**********Facility sources: **********
** NMED source ID=32643AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32643A1 VOLUME 616598.057 3556265.915 0
SO SRCPARAM 32643A1 .2784556 10 20 9.3
** NMED source ID=32643EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1_EQ000063765 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32643E1 VOLUME 616605.593 3556272.936 0
SO SRCPARAM 32643E1 .0005796 9.14 .47 .93
**********END OF 32643: Cotton Draw Unit 15 Fed Com 2 Battery
INFO**********
**********
** 24.15km away. Facility ID=40838 Name=Belloq 11 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9829 NOI

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** lat,long,datum=32.312163, -103.750552, NAD83
** Total Particulate Matter (10 microns or less) emissions=.37tons/year
*****************Facility sources: ****************************
** NMED source ID=40838EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=12-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40838E1 POINT 617619.471 3575723.116 0
SO SRCPARAM 40838E1 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40838EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=12-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40838E2 POINT 617627.007 3575730.137 0
SO SRCPARAM 40838E2 .0062999 5.85 772.59 21.02 .27
**********END OF 40838: Belloq 11 Wellpad 1
INFO*************************************
************************************************************
** 24.23km away. Facility ID=32209 Name=XTO - PLU No411 Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.192768, -103.780229, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.04tons/year
*****************Facility sources: ****************************
** NMED source ID=32209AREA1 Facility's ID=ROAD
** Description=Road Emissions Construction date=21-AUG-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3hr/yr, 24hr/day
SO LOCATION 32209A1 VOLUME 614975.973 3562455.066 0
SO SRCPARAM 32209A1 .0377994 1 .47 .93
** NMED source ID=32209EQPT1 Facility's ID=AUXH1
** Description=0.5 MMBttu/hr Heater Treater Construction date=21-AUG-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32209E1 POINT 614983.509 3562462.087 0
SO SRCPARAM 32209E1 .0005796 6.1 810.93 1.34 .3
** NMED source ID=32209EQPT2 Facility's ID=AUXH2
** Description=0.5 MMBttu/hr Heater Treater Construction date=21-AUG-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32209E2 POINT 614976.723 3562465.639 0
SO SRCPARAM 32209E2 .0005796 6.1 810.93 1.34 .3
** NMED source ID=32209EQPT21 Facility's ID=HPF
** Description=5 MMscfd High Pressure Flare-SSM Construction date=21-AUG-20
** SCC=31000205
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32209E21 POINT 614969.126 3562463.547 0
SO SRCPARAM 32209E21 .0057581 6.1 1273 20 20.806
** NMED source ID=32209EQPT22 Facility's ID=LPF
** Description=1 MMscfd Low Pressure Flare Construction date=21-AUG-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32209E22 POINT 614964.885 3562456.647 0
SO SRCPARAM 32209E22 .00126 6.1 1273 20 2.632
**********END OF 32209: XTO - PLU No411 Battery
INFO************************************
************************************************************
** 24.26km away. Facility ID=39823 Name=Dark Horse Treating Facility
** Company ID=13928 Name=Pinon Midstream LLC
** SIC=4932 NAIC=22121    Permit=9058 NSR
** lat,long,datum=32.120112, -103.289663, WGS84
** Total Particulate Matter (10 microns or less) emissions=5.2tons/year
*****************Facility sources: ******************************
** NMED source ID=39823EQPT1 Facility's ID=C-1200
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=28-DEC-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E1 POINT 661350.011 3555030.08 0
SO SRCPARAM 39823E1 .0251996 9.6 718.15 26 .61
** NMED source ID=39823EQPT10 Facility's ID=C-1210
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=28-DEC-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E10 POINT 661357.547 3555037.101 0
SO SRCPARAM 39823E10 .0251996 9.6 718.15 26 .61
** NMED source ID=39823EQPT11 Facility's ID=C-1220
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=28-DEC-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E11 POINT 661350.761 3555040.653 0
SO SRCPARAM 39823E11 .0251996 9.6 718.15 26 .61
** NMED source ID=39823EQPT12 Facility's ID=C-1230
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=28-DEC-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39823E12 POINT 661343.164 3555038.561 0
SO SRCPARAM 39823E12 .0251996 9.6 718.15 26 .61
** NMED source ID=39823RPNT4 Facility's ID=HAUL
** Description=Condensate and NGL Truck Haul Construction date=28-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823R4 VOLUME 661338.923 3555031.661 0
SO SRCPARAM 39823R4 .1637974 10 10 9.3
**********END OF 39823: Dark Horse Treating Facility
INFO*************************************
************************************************************
** 24.26km away. Facility ID=39663 Name=Coltrane-Bebop and Big Sinks 1 12 W1BO Fed
Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.078278, -103.728501, WGS84
** Total Particulate Matter (10 microns or less) emissions=2.55tons/year
*****************Facility sources: ****************************
** NMED source ID=39663AREA1 Facility's ID=HR-02
** Description=Haul Road Emissions Construction date=01-FEB-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663A1 VOLUME 620002.057 3549819.563 0
SO SRCPARAM 39663A1 .0907186 10 10 9.3
** NMED source ID=39663AREA2 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=13-JUL-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663A2 VOLUME 620009.593 3549826.584 0
SO SRCPARAM 39663A2 .0907186 10 10 9.3
** NMED source ID=39663EQPT7 Facility's ID=HT-01
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E7 VOLUME 620002.807 3549830.136 0
SO SRCPARAM 39663E7 .00126 4.57 .47 .93
** NMED source ID=39663EQPT8 Facility's ID=HT-02
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E8 VOLUME 619995.21 3549828.044 0
SO SRCPARAM 39663E8 .00252 4.57 .47 .93
** NMED source ID=39663EQPT9 Facility's ID=HT-03
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E9 VOLUME 619990.969 3549821.144 0
SO SRCPARAM 39663E9 .00126 4.57 .47 .93
** NMED source ID=39663EQPT10 Facility's ID=HT-04
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E10 VOLUME 619992.621 3549812.99 0
SO SRCPARAM 39663E10 .00126 4.57 .47 .93
** NMED source ID=39663EQPT11 Facility's ID=HT-05
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E11 VOLUME 619999.57 3549808.028 0
SO SRCPARAM 39663E11 .00126 4.57 .47 .93
** NMED source ID=39663EQPT12 Facility's ID=HT-06
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E12 VOLUME 620008.253 3549809.17 0
SO SRCPARAM 39663E12 .00252 4.57 .47 .93
** NMED source ID=39663EQPT13 Facility's ID=HT-07
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E13 VOLUME 620013.963 3549816.098 0
SO SRCPARAM 39663E13 .00252 4.57 .47 .93
** NMED source ID=39663EQPT59 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=01-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E59 POINT 620013.398 3549825.279 0
SO SRCPARAM 39663E59 .0138598 7.16 819.82 33.86 .41
** NMED source ID=39663EQPT60 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=01-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E60 POINT 620006.563 3549831.757 0
SO SRCPARAM 39663E60 .0075599 6.17 695.37 37.61 .25
** NMED source ID=39663EQPT61 Facility's ID=GEN-01
** Description=Generator Engine Construction date=01-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E61 POINT 619996.927 3549831.834 0
SO SRCPARAM 39663E61 .0100798 4.51 840.37 179.41 .09
** NMED source ID=39663EQPT62 Facility's ID=GEN-02
** Description=Generator Engine Construction date=01-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E62 POINT 619989.666 3549825.168 0
SO SRCPARAM 39663E62 .0050399 4.51 930.37 88.12 .09
** NMED source ID=39663EQPT63 Facility's ID=GEN-03
** Description=Generator Engine Construction date=01-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E63 POINT 619988.886 3549815.122 0
SO SRCPARAM 39663E63 .0050399 4.51 930.37 88.12 .09
** NMED source ID=39663EQPT66 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=13-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E66 POINT 619995.304 3549807.071 0
SO SRCPARAM 39663E66 .0088199 4.57 989.82 70.41 .13
** NMED source ID=39663EQPT67 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=13-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E67 POINT 620005.706 3549805.53 0
SO SRCPARAM 39663E67 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39663EQPT73 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=08-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E73 POINT 620014.546 3549811.622 0
SO SRCPARAM 39663E73 .0088199 4.57 989.82 70.41 .13
**********END OF 39663: Coltrane-Bebop and Big Sinks 1 12 W1BO Fed Com 1H Battery
INFO***********************************
************************************************************
** 24.27km away. Facility ID=38846 Name=Tomb Raider 1 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.337958, -103.733158, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.25tons/year
*****************Facility sources: ******************************
** NMED source ID=38846EQPT1 Facility's ID=HT-1
** Description=Heater Treater Construction date=27-NOV-19
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38846E1 POINT 619223.192 3578601.969 0
SO SRCPARAM 38846E1 .0037799 9.14 888.71 9.07 .31
** NMED source ID=38846RPNT2 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=27-NOV-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38846R2 VOLUME 619230.728 3578608.99 0
SO SRCPARAM 38846R2 .2784556 10 20 9.3
**********END OF 38846: Tomb Raider 1 CTB 1
INFO**********************************
************************************************************
** 24.3km away. Facility ID=39634 Name=Chimichangas 12 State Com CTB 1
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.410174, -103.41928, NAD83
** Total Particulate Matter (10 microns or less) emissions=.4tons/year
*****************Facility sources: ******************************
** NMED source ID=39634EQPT2 Facility's ID=HT-1
** Description=1 MMBtu/h Heater Treater Construction date=26-AUG-20
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3072hr/yr, 24hr/day
SO LOCATION 39634E2 VOLUME 648647.03 3587001.121 0
SO SRCPARAM 39634E2 .00126 3.96 .47 .93
** NMED source ID=39634EQPT11 Facility's ID=ENG-1
** Description=Caterpillar 3408 Compressor Engine, 400 hp Construction
date=23-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39634E11 POINT 648654.566 3587008.142 0
SO SRCPARAM 39634E11 .0100798 3.66 802.59 15.1 .25
** NMED source ID=39634EQPT14 Facility's ID=HT-2
** Description=1 MMBtu/h Heater Treater Construction date=23-JUN-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39634E14 VOLUME 648647.78 3587011.694 0
SO SRCPARAM 39634E14 .00126 10 .47 .93
**********END OF 39634: Chimichangas 12 State Com CTB 1
INFO**********************************
************************************************************
** 24.3km away. Facility ID=660 Name=Grama Ridge Gas Storage Facility
** Company ID=8891 Name=Enstor Operating Company LLC
** SIC=4922 NAIC=48621    Permit=unknown
** lat,long,datum=32.42265, -103.462956, WGS84
** Total Particulate Matter (10 microns or less) emissions=.5tons/year
```

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**********Facility sources: ****************************
** NMED source ID=660EQPT16 Facility's ID=5
** Description=Line Heater Construction date=08-APR-10
** SCC=31000404
** Potential operating rate=5256hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 660E16 POINT 644519.522 3588324.381 0
SO SRCPARAM 660E16 .0125998 9.14 449.82 14.63 .52
SO EMISFACT 660E16 HROFDY 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0
**********END OF 660: Grama Ridge Gas Storage Facility
INFO**********************************
************************************************************
** 24.31km away. Facility ID=39692 Name=Dagger Lake North TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.418668, -103.602166, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.37tons/year
**********Facility sources: ****************************
** NMED source ID=39692AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=14-OCT-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39692A1 VOLUME 631435.003 3587703.126 0
SO SRCPARAM 39692A1 .3527944 10 30 9.3
** NMED source ID=39692EQPT18 Facility's ID=ENG-1
** Description=Caterpillar 3516J  1380 hp Construction date=20-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7208hr/yr, 24hr/day
SO LOCATION 39692E18 POINT 631442.539 3587710.147 0
SO SRCPARAM 39692E18 .0125998 6.1 707.04 205.89 .15
** NMED source ID=39692EQPT24 Facility's ID=HT-1
** Description=Heater Treater Construction date=03-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39692E24 POINT 631435.753 3587713.699 0
SO SRCPARAM 39692E24 .0005796 9.14 422.04 2.09 .2
**********END OF 39692: Dagger Lake North TB
INFO**********************************
************************************************************
** 24.39km away. Facility ID=31539 Name=ConocoPhillips - Golden Spur Fed Production
Location
** Company ID=198 Name=ConocoPhillips Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.003126, -103.4406, NAD83
** Total Particulate Matter (10 microns or less) emissions=.38tons/year
**********Facility sources: ****************************
** NMED source ID=31539AREA1 Facility's ID=HR
```

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** Description=Haul Road Emissions Construction date=23-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31539A1 VOLUME 647296.7 3541844.716 0
SO SRCPARAM 31539A1 .0680389 10 10 9.3
** NMED source ID=31539EQPT6 Facility's ID=FL1
** Description=Flare Construction date=23-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3000hr/yr, 24hr/day
SO LOCATION 31539E6 POINT 647304.236 3541851.737 0
SO SRCPARAM 31539E6 .060479 7.62 1273 20 9.069
** NMED source ID=31539EQPT8 Facility's ID=ENG1
** Description=276 hp Caterpillar 3406TA Engine Construction date=23-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2372hr/yr, 24hr/day
SO LOCATION 31539E8 POINT 647297.45 3541855.289 0
SO SRCPARAM 31539E8 .00252 4.15 836.48 27.46 .15
** NMED source ID=31539EQPT10 Facility's ID=HT1
** Description=0.5 MMBtu/hr Heater Treater Construction date=23-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2424hr/yr, 24hr/day
SO LOCATION 31539E10 VOLUME 647289.853 3541853.197 0
SO SRCPARAM 31539E10 .00126 6.1 .47 .93
**********END OF 31539: ConocoPhillips - Golden Spur Fed Production Location
INFO**********************************
************************************************************
** 24.41km away. Facility ID=34038 Name=PLU Big Sinks 3-25-31 Tank Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.16455, -103.77727, WGS84
** Total Particulate Matter (10 microns or less) emissions=.88tons/year
*****************Facility sources: ******************************
** NMED source ID=34038EQPT1 Facility's ID=HPF
** Description=High Pressure Flare Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 34038E1 POINT 615290.465 3559330.082 0
SO SRCPARAM 34038E1 .0005796 8.84 1273 20 20.806
** NMED source ID=34038EQPT3 Facility's ID=HT-1
** Description=Heater Treater Construction date=04-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34038E3 VOLUME 615298.001 3559337.103 0
SO SRCPARAM 34038E3 .00126 6.1 .47 .93
```

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** NMED source ID=34038EQPT12 Facility's ID=LPF
** Description=Low Pressure Flare Construction date=30-SEP-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34038E12 POINT 615291.215 3559340.655 0
SO SRCPARAM 34038E12 .0005796 8.84 1273 20 20.806
** NMED source ID=34038EQPT13 Facility's ID=HPF SSM
** Description=High Pressure Flare Construction date=03-SEP-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34038E13 POINT 615283.618 3559338.563 0
SO SRCPARAM 34038E13 .0230072 8.84 1273 20 5.505
** NMED source ID=34038EQPT14 Facility's ID=LPF SSM
** Description=Low Pressure Flare Construction date=30-SEP-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34038E14 POINT 615279.377 3559331.663 0
SO SRCPARAM 34038E14 .0005796 8.84 1273 20 20.806
**********END OF 34038: PLU Big Sinks 3-25-31 Tank Battery
INFO**********************************
************************************************************
** 24.42km away. Facility ID=36735 Name=Belgian Shire CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6805 NOI
** lat,long,datum=32.116667, -103.758056, NAD83
** Total Particulate Matter (10 microns or less) emissions=.34tons/year
*****************Facility sources: ****************************
** NMED source ID=36735AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36735A1 VOLUME 617163.485 3554042.698 0
SO SRCPARAM 36735A1 .2784556 10 20 9.3
** NMED source ID=36735EQPT13 Facility's ID=HT-2
** Description=HT-2_EQ000057078 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36735E13 VOLUME 617171.021 3554049.719 0
SO SRCPARAM 36735E13 .0005796 9.14 .47 .93
** NMED source ID=36735EQPT14 Facility's ID=HT-1
** Description=HT-1_EQ000056908 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36735E14 VOLUME 617164.235 3554053.271 0
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SO SRCPARAM 36735E14 .0005796 9.14 .47 .93
**********END OF 36735: Belgian Shire CTB INFO************************************
************************************************************
** 24.52km away. Facility ID=40839 Name=Belloq 11 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9827 NOI
** lat,long,datum=32.31229, -103.754908, NAD83
** Total Particulate Matter (10 microns or less) emissions=.5tons/year
*****************Facility sources: ******************************
** NMED source ID=40839EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=06-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40839E1 POINT 617209.218 3575732.422 0
SO SRCPARAM 40839E1 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40839EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=06-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40839E2 POINT 617216.754 3575739.443 0
SO SRCPARAM 40839E2 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40839EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=06-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40839E3 POINT 617209.968 3575742.995 0
SO SRCPARAM 40839E3 .0062999 5.85 772.59 21.02 .27
**********END OF 40839: Belloq 11 Wellpad 2
INFO*********************************
************************************************************
** 24.52km away. Facility ID=38848 Name=Devon - Belloq 11 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.314692, -103.753403, NAD83
** Total Particulate Matter (10 microns or less) emissions=3.38tons/year
*****************Facility sources: ******************************
** NMED source ID=38848EQPT3 Facility's ID=HT-1
** Description=Heater Treater Construction date=03-MAY-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38848E3 POINT 617347.807 3576000.353 0
SO SRCPARAM 38848E3 .0037799 9.14 708.71 2.82 .34
** NMED source ID=38848EQPT11 Facility's ID=LPC-1
** Description=Low Pressure Compressor Construction date=03-MAY-19
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38848E11 POINT 617355.343 3576007.374 0
SO SRCPARAM 38848E11 .0037799 3.51 919.82 22.41 .15
** NMED source ID=38848EQPT15 Facility's ID=GEN-1
** Description=Generator 550 hp Construction date=03-MAY-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6072hr/yr, 24hr/day
SO LOCATION 38848E15 POINT 617348.557 3576010.926 0
SO SRCPARAM 38848E15 .0100798 3.51 1005.37 77.49 .15
** NMED source ID=38848EQPT16 Facility's ID=GEN-2
** Description=Generator 362 hp Construction date=03-MAY-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6072hr/yr, 24hr/day
SO LOCATION 38848E16 POINT 617340.96 3576008.834 0
SO SRCPARAM 38848E16 .0075599 3.51 1005.37 49.03 .15
** NMED source ID=38848EQPT19 Facility's ID=LPC-3
** Description=Low Pressure Compressor Construction date=24-APR-20
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2712hr/yr, 24hr/day
SO LOCATION 38848E19 POINT 617336.719 3576001.934 0
SO SRCPARAM 38848E19 .0037799 3.51 919.82 22.41 .15
** NMED source ID=38848EQPT20 Facility's ID=GEN-4
** Description=Generator 550 hp Construction date=24-APR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2712hr/yr, 24hr/day
SO LOCATION 38848E20 POINT 617338.371 3575993.78 0
SO SRCPARAM 38848E20 .0100798 3.51 1005.37 77.49 .15
** NMED source ID=38848RPNT2 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=03-MAY-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38848R2 VOLUME 617345.32 3575988.818 0
SO SRCPARAM 38848R2 .2784556 10 20 9.3
**********END OF 38848: Devon - Belloq 11 CTB 1
INFO**********************************
************************************************************
** 24.66km away. Facility ID=39393 Name=Armstrong 26 23 W1EE Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.100586, -103.751058, WGS84
** Total Particulate Matter (10 microns or less) emissions=1.51tons/year
*****************Facility sources: ******************************
** NMED source ID=39393AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=08-DEC-23
** SCC=30688901
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39393A1 VOLUME 617844.372 3552267.655 0
SO SRCPARAM 39393A1 .0907186 10 10 9.3
** NMED source ID=39393EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=28-JUN-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39393E1 POINT 617851.908 3552274.676 0
SO SRCPARAM 39393E1 .0138598 7.16 819.82 33.86 .41
** NMED source ID=39393EQPT5 Facility's ID=HT-01
** Description=Heater Treater Construction date=28-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39393E5 VOLUME 617845.122 3552278.228 0
SO SRCPARAM 39393E5 .00252 4.57 .47 .93
** NMED source ID=39393EQPT6 Facility's ID=HT-02
** Description=Heater Treater Construction date=28-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39393E6 VOLUME 617837.525 3552276.136 0
SO SRCPARAM 39393E6 .00252 4.57 .47 .93
** NMED source ID=39393EQPT7 Facility's ID=HT-03
** Description=Heater Treater Construction date=28-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39393E7 VOLUME 617833.284 3552269.236 0
SO SRCPARAM 39393E7 .00126 4.57 .47 .93
** NMED source ID=39393EQPT8 Facility's ID=HT-04
** Description=Heater Treater Construction date=28-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39393E8 VOLUME 617834.936 3552261.082 0
SO SRCPARAM 39393E8 .00126 4.57 .47 .93
** NMED source ID=39393EQPT27 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=03-NOV-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39393E27 POINT 617841.885 3552256.12 0
SO SRCPARAM 39393E27 .0125998 5.49 857.04 38.28 .2
** NMED source ID=39393EQPT29 Facility's ID=HT-05
** Description=Heater Treater Construction date=03-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39393E29 VOLUME 617850.568 3552257.262 0
SO SRCPARAM 39393E29 .00126 4.57 .47 .93
** NMED source ID=39393EQPT30 Facility's ID=HT-06
** Description=Heater Treater Construction date=03-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39393E30 VOLUME 617856.278 3552264.19 0
SO SRCPARAM 39393E30 .00252 4.57 .47 .93
** NMED source ID=39393EQPT35 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=08-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39393E35 POINT 617855.713 3552273.371 0
SO SRCPARAM 39393E35 .0088199 4.57 989.82 70.41 .13
**********END OF 39393: Armstrong 26 23 W1EE Fed Com 1H Battery
INFO**********************************
************************************************************
** 24.66km away. Facility ID=40735 Name=Ranger Peak Compressor Station
** Company ID=13928 Name=Pinon Midstream LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.114295, -103.288249, NAD83
** Total Particulate Matter (10 microns or less) emissions=5.96tons/year
*****************Facility sources: ******************************
** NMED source ID=40735EQPT1 Facility's ID=ENG-1
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E1 POINT 661493.669 3554387.29 0
SO SRCPARAM 40735E1 .0239396 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT2 Facility's ID=ENG-2
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E2 POINT 661501.205 3554394.311 0
SO SRCPARAM 40735E2 .0239396 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT3 Facility's ID=ENG-3
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E3 POINT 661494.419 3554397.863 0
SO SRCPARAM 40735E3 .0239396 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT4 Facility's ID=ENG-4
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E4 POINT 661486.822 3554395.771 0
SO SRCPARAM 40735E4 .0239396 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT5 Facility's ID=ENG-5
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E5 POINT 661482.581 3554388.871 0
SO SRCPARAM 40735E5 .0239396 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT6 Facility's ID=ENG-6
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E6 POINT 661484.233 3554380.717 0
SO SRCPARAM 40735E6 .0239396 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT9 Facility's ID=GEN-1
** Description=Generator Engine Construction date=06-OCT-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E9 POINT 661491.182 3554375.755 0
SO SRCPARAM 40735E9 .0005796 6.1 540.37 45.29 .61
** NMED source ID=40735EQPT10 Facility's ID=GEN-2
** Description=Generator Engine Construction date=06-OCT-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E10 POINT 661499.865 3554376.897 0
SO SRCPARAM 40735E10 .0005796 6.1 540.37 45.29 .61
** NMED source ID=40735EQPT11 Facility's ID=GEN-3
** Description=Generator Engine Construction date=06-OCT-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E11 POINT 661505.575 3554383.825 0
SO SRCPARAM 40735E11 .0005796 6.1 540.37 45.29 .61
** NMED source ID=40735EQPT14 Facility's ID=ENG-8
** Description=Engine Construction date=07-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E14 POINT 661505.01 3554393.006 0
SO SRCPARAM 40735E14 .0264596 9.14 868.15 19.6 .46
**********END OF 40735: Ranger Peak Compressor Station
INFO**********************************
************************************************************
** 24.68km away. Facility ID=27650 Name=Concrete Mobility -  GCP5-3802
```

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** Company ID=10457 Name=Concrete Mobility
** SIC=3273 NAIC=32732    Permit=3802 GCP5
** lat,long,datum=32.06515, -103.7215, WGS84
** Total Particulate Matter (10 microns or less) emissions=95tons/year
*****************Facility sources: ****************************
** NMED source ID=27650ACT 1 Facility's ID=GCP-5
** Description=200 YPD Concrete Batch Plant Construction date=15-AUG-08
** SCC=30501199
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 27650@1 VOLUME 620680.094 3548372.058 0
SO SRCPARAM 27650@1 2.7328336 10 220 9.3
**********END OF 27650: Concrete Mobility -  GCP5-3802
INFO*********************************
************************************************************
** 24.74km away. Facility ID=41074 Name=El Campeon EC1a CTB20 Satellite
** Company ID= Name=
** SIC=1311 NAIC=21112    Permit=9978 NOI
** lat,long,datum=32.023042, -103.383104, NAD83
** Total Particulate Matter (10 microns or less) emissions=.99tons/year
*****************Facility sources: ****************************
** NMED source ID=41074EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine 1 Construction date=18-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E1 POINT 652695.202 3544132.455 0
SO SRCPARAM 41074E1 .0037799 4.57 846.48 35.54 .13
** NMED source ID=41074EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine 2 Construction date=18-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E2 POINT 652702.738 3544139.476 0
SO SRCPARAM 41074E2 .0037799 4.57 846.48 35.54 .13
** NMED source ID=41074EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine 3 Construction date=18-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E3 POINT 652695.952 3544143.028 0
SO SRCPARAM 41074E3 .0037799 4.57 846.48 35.54 .13
** NMED source ID=41074EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine 4 Construction date=18-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E4 POINT 652688.355 3544140.936 0
SO SRCPARAM 41074E4 .0037799 4.57 846.48 35.54 .13
** NMED source ID=41074EQPT5 Facility's ID=GEN-1
```

```
** Description=Generator Engine 1 Construction date=18-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E5 POINT 652684.114 3544134.036 0
SO SRCPARAM 41074E5 .0075599 3.66 1005.37 43.59 .2
** NMED source ID=41074EQPT6 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=18-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E6 VOLUME 652685.766 3544125.882 0
SO SRCPARAM 41074E6 .00126 1 .47 .93
** NMED source ID=41074EQPT7 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=18-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E7 VOLUME 652692.715 3544120.92 0
SO SRCPARAM 41074E7 .00126 1 .47 .93
** NMED source ID=41074EQPT8 Facility's ID=HT-3
** Description=Heater Treater 3 Construction date=18-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E8 VOLUME 652701.398 3544122.062 0
SO SRCPARAM 41074E8 .00126 1 .47 .93
** NMED source ID=41074EQPT9 Facility's ID=HT-4
** Description=Heater Treater 4 Construction date=18-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E9 VOLUME 652707.108 3544128.99 0
SO SRCPARAM 41074E9 .00126 1 .47 .93
**********END OF 41074: El Campeon EC1a CTB20 Satellite
INFO**********************************
************************************************************
** 24.75km away. Facility ID=37883 Name=Battle Axe 27 WF1
** Company ID=1455 Name=ConocoPhillips - Midland Office
** SIC=1311 NAIC=21112    Permit=7308 NOI
** lat,long,datum=32.018542, -103.656269, WGS84
** Total Particulate Matter (10 microns or less) emissions=.13tons/year
*****************Facility sources: ****************************
** NMED source ID=37883AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=25-SEP-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37883A1 VOLUME 626902.159 3543280.072 0
SO SRCPARAM 37883A1 .00126 1 .47 .93
```

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** NMED source ID=37883EQPT17 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=25-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37883E17 VOLUME 626909.695 3543287.093 0
SO SRCPARAM 37883E17 .00126 4.57 .47 .93
** NMED source ID=37883EQPT18 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=25-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37883E18 VOLUME 626902.909 3543290.645 0
SO SRCPARAM 37883E18 .00126 4.57 .47 .93
**********END OF 37883: Battle Axe 27 WF1 INFO************************************
************************************************************
** 24.79km away. Facility ID=40356 Name=PLU 16 Twin Wells Ranch West Tank Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.208522, -103.787086, WGS84
** Total Particulate Matter (10 microns or less) emissions=3.43tons/year
*****************Facility sources: ******************************
** NMED source ID=40356AREA1 Facility's ID=ROAD
** Description=ROAD EMISSIONS Construction date=07-APR-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356A1 VOLUME 614309.884 3564194.192 0
SO SRCPARAM 40356A1 .0428393 1 .47 .93
** NMED source ID=40356EQPT1 Facility's ID=HPF
** Description=HIGH PRESSURE FLARE Construction date=07-APR-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E1 POINT 614317.42 3564201.213 0
SO SRCPARAM 40356E1 .00126 30.48 1273 20 20.806
** NMED source ID=40356EQPT3 Facility's ID=HTR1
** Description=HEATER TREATER BURNER: 4.0 MMBTU/HR Construction date=07-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E3 POINT 614310.634 3564204.765 0
SO SRCPARAM 40356E3 .0037799 12.19 810.93 10.15 .3
** NMED source ID=40356EQPT4 Facility's ID=HTR2
** Description=HEATER TREATER BURNER: 4.0 MMBTU/HR Construction date=07-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E4 POINT 614303.037 3564202.673 0
SO SRCPARAM 40356E4 .0037799 12.19 810.93 10.15 .3
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** NMED source ID=40356EQPT5 Facility's ID=LPF
** Description=LOW PRESSURE FLARE Construction date=07-APR-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E5 POINT 614298.796 3564195.773 0
SO SRCPARAM 40356E5 .00252 12.19 1273 20 2.632
** NMED source ID=40356EQPT12 Facility's ID=HPF SSM
** Description=HIGH PRESSURE FLARE Construction date=07-APR-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E12 POINT 614300.448 3564187.619 0
SO SRCPARAM 40356E12 .0117934 30.48 1273 20 3.604
** NMED source ID=40356EQPT13 Facility's ID=LPF SSM
** Description=LOW PRESSURE FLARE Construction date=07-APR-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E13 POINT 614307.397 3564182.657 0
SO SRCPARAM 40356E13 .0069047 12.19 1273 20 3.604
**********END OF 40356: PLU 16 Twin Wells Ranch West Tank Battery
INFO**********************************
************************************************************
** 24.87km away. Facility ID=38575 Name=Lusitano 27 Wellpad 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.107913, -103.758301, NAD83
** Total Particulate Matter (10 microns or less) emissions=.48tons/year
*****************Facility sources: ****************************
** NMED source ID=38575EQPT3 Facility's ID=ENG 3
** Description=COMPRESSOR ENGINE Construction date=09-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38575E3 POINT 617151.552 3553072 0
SO SRCPARAM 38575E3 .0138598 7.01 809.26 57.36 .3
**********END OF 38575: Lusitano 27 Wellpad 6
INFO**********************************
************************************************************
** 24.88km away. Facility ID=39820 Name=Aleutian 10 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3123, -103.759228, NAD83
** Total Particulate Matter (10 microns or less) emissions=1.08tons/year
*****************Facility sources: ****************************
** NMED source ID=39820EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=01-FEB-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39820E1 POINT 616802.506 3575728.814 0
SO SRCPARAM 39820E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=39820EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=19-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39820E2 POINT 616810.042 3575735.835 0
SO SRCPARAM 39820E2 .0125998 5.85 772.59 38.07 .27
** NMED source ID=39820EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=19-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39820E3 POINT 616803.256 3575739.387 0
SO SRCPARAM 39820E3 .0037799 3.6 846.48 20.01 .17
**********END OF 39820: Aleutian 10 Wellpad 1
INFO**********************************
************************************************************
** 24.93km away. Facility ID=39043 Name=Frizzle Fry 15 Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3982, -103.66847, NAD83
** Total Particulate Matter (10 microns or less) emissions=.89tons/year
*****************Facility sources: ******************************
** NMED source ID=39043AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=03-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39043A1 VOLUME 625228.37 3585354.364 0
SO SRCPARAM 39043A1 .00252 1 .47 .93
** NMED source ID=39043EQPT1 Facility's ID=HTR-1
** Description=Heater Treater-01 Construction date=03-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39043E1 POINT 625235.906 3585361.385 0
SO SRCPARAM 39043E1 .00126 4.57 533.15 3.79 .09
** NMED source ID=39043EQPT3 Facility's ID=ENG-1
** Description=VRU Engine Construction date=03-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39043E3 POINT 625229.12 3585364.937 0
SO SRCPARAM 39043E3 .0037799 2.99 919.82 51.45 .1
** NMED source ID=39043EQPT4 Facility's ID=ENG-2
** Description=Combustion Engine Construction date=03-MAR-20
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39043E4 POINT 625221.523 3585362.845 0
SO SRCPARAM 39043E4 .0075599 4.51 1000.37 50.23 .15
** NMED source ID=39043EQPT5 Facility's ID=ENG-3
** Description=Combustion Engine Construction date=03-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39043E5 POINT 625217.282 3585355.945 0
SO SRCPARAM 39043E5 .0050399 3.84 846.48 39.23 .12
** NMED source ID=39043EQPT6 Facility's ID=GEN-1
** Description=Generator-1 Construction date=03-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39043E6 POINT 625218.934 3585347.791 0
SO SRCPARAM 39043E6 .0050399 2.99 794.26 96.56 .09
**********END OF 39043: Frizzle Fry 15 Fed Com CTB
INFO**********************************
************************************************************
** 24.96km away. Facility ID=40120 Name=Nina Cortell South TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.399713, -103.66639, NAD83
** Total Particulate Matter (10 microns or less) emissions=2.41tons/year
*****************Facility sources: ******************************
** NMED source ID=40120AREA1 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=01-SEP-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6912hr/yr, 24hr/day
SO LOCATION 40120A1 VOLUME 625421.914 3585524.537 0
SO SRCPARAM 40120A1 .0667789 10 10 9.3
** NMED source ID=40120EQPT1 Facility's ID=GEN-1
** Description=PSI Generator, 581hp Construction date=01-SEP-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5447hr/yr, 24hr/day
SO LOCATION 40120E1 POINT 625429.45 3585531.558 0
SO SRCPARAM 40120E1 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=40120EQPT3 Facility's ID=HT-1
** Description=1 MMBtu/hr Heater Treater Construction date=01-SEP-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6912hr/yr, 24hr/day
SO LOCATION 40120E3 VOLUME 625422.664 3585535.11 0
SO SRCPARAM 40120E3 .00126 6.1 .47 .93
** NMED source ID=40120EQPT14 Facility's ID=ENG-2
** Description=GM 5.7L Compressor, 94hp Construction date=01-SEP-21
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6912hr/yr, 24hr/day
SO LOCATION 40120E14 POINT 625415.067 3585533.018 0
SO SRCPARAM 40120E14 .00126 6.1 1005.37 8.58 .21
** NMED source ID=40120EQPT23 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=06-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E23 POINT 625410.826 3585526.118 0
SO SRCPARAM 40120E23 .00126 6.1 1005.37 8.58 .21
** NMED source ID=40120EQPT24 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=06-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E24 POINT 625412.478 3585517.964 0
SO SRCPARAM 40120E24 .00252 2.99 898.71 34.72 .13
** NMED source ID=40120EQPT28 Facility's ID=HT-2
** Description=1 MMBtu/hr Heater Treater Construction date=06-DEC-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E28 VOLUME 625419.427 3585513.002 0
SO SRCPARAM 40120E28 .00126 6.1 .47 .93
** NMED source ID=40120EQPT29 Facility's ID=HT-3
** Description=1 MMBtu/hr Heater Treater Construction date=06-DEC-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E29 VOLUME 625428.11 3585514.144 0
SO SRCPARAM 40120E29 .00126 6.1 .47 .93
** NMED source ID=40120EQPT37 Facility's ID=HT-4
** Description=1 MMBtu/hr Heater Treater Construction date=07-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E37 VOLUME 625433.82 3585521.072 0
SO SRCPARAM 40120E37 .00126 6.1 .47 .93
** NMED source ID=40120EQPT39 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E39 POINT 625433.255 3585530.253 0
SO SRCPARAM 40120E39 .0037799 6.1 919.82 11.43 .21
** NMED source ID=40120EQPT40 Facility's ID=ENG-9
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E40 POINT 625426.42 3585536.731 0
SO SRCPARAM 40120E40 .0138598 6.1 804.82 50.99 .3
** NMED source ID=40120EQPT41 Facility's ID=ENG-10
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E41 POINT 625416.784 3585536.808 0
SO SRCPARAM 40120E41 .0302395 6.1 701.48 77.75 .3
** NMED source ID=40120EQPT42 Facility's ID=HT-5
** Description=1 MMBtu/hr Heater Treater Construction date=13-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E42 VOLUME 625409.523 3585530.142 0
SO SRCPARAM 40120E42 .00126 6.1 .47 .93
**********END OF 40120: Nina Cortell South TB
INFO**********************************
************************************************************
** 24.96km away. Facility ID=39770 Name=Island Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.31525, -103.758347, NAD83
** Total Particulate Matter (10 microns or less) emissions=4.12tons/year
*****************Facility sources: ******************************
** NMED source ID=39770EQPT5 Facility's ID=GEN-1
** Description=Moser DRG250 Generator Construction date=25-NOV-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E5 POINT 616881.657 3576056.809 0
SO SRCPARAM 39770E5 .0088199 3.15 1023.15 102.72 .1
** NMED source ID=39770EQPT11 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=10-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E11 POINT 616889.193 3576063.83 0
SO SRCPARAM 39770E11 .0125998 7.32 724.26 32 .38
** NMED source ID=39770EQPT12 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=10-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E12 POINT 616882.407 3576067.382 0
SO SRCPARAM 39770E12 .0125998 7.32 724.26 32 .38
** NMED source ID=39770EQPT13 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=10-MAY-22
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E13 POINT 616874.81 3576065.29 0
SO SRCPARAM 39770E13 .0125998 7.32 724.26 32 .38
** NMED source ID=39770EQPT17 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=30-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E17 POINT 616870.569 3576058.39 0
SO SRCPARAM 39770E17 .0239396 7.92 702.59 26.01 .61
** NMED source ID=39770EQPT18 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=30-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E18 POINT 616872.221 3576050.236 0
SO SRCPARAM 39770E18 .0239396 7.92 702.59 26.01 .61
** NMED source ID=39770EQPT19 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=30-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E19 POINT 616879.17 3576045.274 0
SO SRCPARAM 39770E19 .0239396 7.92 702.59 26.01 .61
**********END OF 39770: Island Booster Station
INFO**********************************
************************************************************
** 24.99km away. Facility ID=40887 Name=Flight Compressor Station
** Company ID=14143 Name=Northwind Midstream Partners LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.425808, -103.448452, WGS84
** Total Particulate Matter (10 microns or less) emissions=4.54tons/year
*****************Facility sources: ****************************
** NMED source ID=40887EQPT15 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E15 POINT 645878.308 3588694.214 0
SO SRCPARAM 40887E15 .0428393 7.62 682.04 90.5 .46
** NMED source ID=40887EQPT16 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E16 POINT 645885.844 3588701.235 0
SO SRCPARAM 40887E16 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40887EQPT17 Facility's ID=ENG-3
```

```
** Description=Compressor Engine Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E17 POINT 645879.058 3588704.787 0
SO SRCPARAM 40887E17 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40887EQPT18 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=05-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E18 POINT 645871.461 3588702.695 0
SO SRCPARAM 40887E18 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40887EQPT19 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=05-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E19 POINT 645867.22 3588695.795 0
SO SRCPARAM 40887E19 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40887EQPT22 Facility's ID=RBL-1
** Description=TEG Glycol Regen Heater Construction date=05-SEP-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E22 POINT 645868.872 3588687.641 0
SO SRCPARAM 40887E22 .00126 5.18 588.71 6.83 .3
**********END OF 40887: Flight Compressor Station
INFO**********************************
************************************************************
** 25km away. Facility ID=38039 Name=Lusitano 27 CTB 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=7458 NOI
** lat,long,datum=32.106058, -103.758672, NAD83
** Total Particulate Matter (10 microns or less) emissions=.93tons/year
*****************Facility sources: ******************************
** NMED source ID=38039AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=18-SEP-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38039A1 VOLUME 617118.915 3552865.959 0
SO SRCPARAM 38039A1 .2784556 10 20 9.3
** NMED source ID=38039EQPT9 Facility's ID=HT-1
** Description=Heater Treater 1 EQ000070240 Construction date=18-SEP-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38039E9 VOLUME 617126.451 3552872.98 0
SO SRCPARAM 38039E9 .00126 9.14 .47 .93
```

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** NMED source ID=38039EQPT10 Facility's ID=HT-2
** Description=Heater Treater 2 EQ000070245 Construction date=18-SEP-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38039E10 VOLUME 617119.665 3552876.532 0
SO SRCPARAM 38039E10 .00126 9.14 .47 .93
** NMED source ID=38039EQPT15 Facility's ID=ENG 1
** Description=Compressor Engine EQ000068200 Construction date=15-SEP-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38039E15 POINT 617112.068 3552874.44 0
SO SRCPARAM 38039E15 .00252 2.68 922.04 46.73 .09
**********END OF 38039: Lusitano 27 CTB 6 INFO**********************************
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SO SRCGROUP PSD 40887E17 40887E18 40887E19 40887E22 38039A1 38039E9
SO SRCGROUP PSD 38039E10 38039E15
SO FINISHED
** Receptor near center of domain added to aid import into GUI programs.
RE STARTING
RE ELEVUNIT METERS
RE DISCCART 639114, 3565730 3000 3000
RE Finished

** Meteorolgy options. May not be the actual met file used for this model.
ME STARTING
ME SURFFILE 'C:\MET\AERMET\HOBBS_Artesia-NWS_Midland-ua_2015.SFC' FREE
ME PROFFILE 'C:\MET\AERMET\HOBBS_Artesia-NWS_Midland-ua_2015.PFL'
ME SURFDATA  722676 2015
ME UAIRDATA  23023 2015 'MIDLAND INTERNATIONAL AP, TX'
ME PROFBASE 1110 METERS
ME FINISHED

OU STARTING
OU PLOTFILE 24, PERIOD NAAQS 'C:\Models\DELETEME_2015_PM10.GRF' 31
OU PLOTFILE 24, PERIOD PSD 'C:\Models\DELETEME_2015_PM10.GRF' 31
OU SUMMFILE 'C:\Models\DELETEME_2015_PM10.SUM'
OU Finished
```

# APPENDIX C. $PM_{2.5}$ SURROUNDING SOURCE INVENTORY

```
** Surrounding sources generated by New Mexico Environment Department, Air Quality
Bureau
** Particulate Matter (2.5 microns or less) sources generated 27-JAN-24
CO STARTING
CO TITLEONE Sources within 25km  of Lat/lon=32.21055556, -103.52388889 UTM=639113.7,
3564730, Zone=13
CO TITLETWO (plus very large sources within 50km).
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO RUNORNOT RUN
CO AVERTIME 24, PERIOD
CO POLLUTID PM2.5
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
**********************************************************
** 0km away. Facility ID=29885 Name=Red Hills Gas Processing Plant
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21112    Permit=4310 Title V
** lat,long,datum=32.210556, -103.523889, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=23.37tons/year
*****************Facility sources: ****************************
** NMED source ID=29885EQPT1 Facility's ID=1-EP-1
** Description=Hot Oil Heater Construction date=15-NOV-10
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6844hr/yr, 19hr/day
SO LOCATION 29885E1 POINT 639113.704 3564730.017 0
SO SRCPARAM 29885E1 .0345235 15.24 602.04 5.54 1.27
** NMED source ID=29885EQPT10 Facility's ID=1.5-EP-1d
** Description=Removed, Amine Heater (Reboiler) Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 29885E10 POINT 639121.24 3564737.038 0
SO SRCPARAM 29885E10 -.0184083 4.57 602.04 81.66 .3
** NMED source ID=29885EQPT24 Facility's ID=2-EP-1b
** Description=HMO Heater - Cryo 2 Train Construction date=23-MAY-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5180hr/yr, 14hr/day
SO LOCATION 29885E24 POINT 639114.454 3564740.59 0
SO SRCPARAM 29885E24 .0166821 6.78 316.48 2.24 1.17
** NMED source ID=29885EQPT28 Facility's ID=EP-5
** Description=Thermal Oxidizer (TO) Construction date=20-JUL-16
** SCC=31000404
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
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SO LOCATION 29885E28 POINT 639106.857 3564738.498 0
SO SRCPARAM 29885E28 .0261824 23.16 1088.71 1.38 3.05
** NMED source ID=29885EQPT32 Facility's ID=2-EP-1e
** Description=Glycol Dehydrator Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8634hr/yr, 24hr/day
SO LOCATION 29885E32 POINT 639102.616 3564731.598 0
SO SRCPARAM 29885E32 .0028728 6.1 602.04 15.15 .2
** NMED source ID=29885EQPT34 Facility's ID=2-EP-1h
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8634hr/yr, 24hr/day
SO LOCATION 29885E34 POINT 639104.268 3564723.444 0
SO SRCPARAM 29885E34 .0291862 7.56 491.48 2.28 1.07
** NMED source ID=29885EQPT37 Facility's ID=3-EP-1a
** Description=Mol Sieve Heater - Cryo 3 Train Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2856hr/yr, 8hr/day
SO LOCATION 29885E37 POINT 639111.217 3564718.482 0
SO SRCPARAM 29885E37 .0051785 6.71 560.93 7.11 .41
** NMED source ID=29885EQPT38 Facility's ID=3-EP-1b
** Description=HMO Heater - Cryo 3 Train Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5141hr/yr, 14hr/day
SO LOCATION 29885E38 POINT 639119.9 3564719.624 0
SO SRCPARAM 29885E38 .012373 7.87 493.71 5.91 .71
** NMED source ID=29885EQPT39 Facility's ID=3-EP-1d
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E39 POINT 639125.61 3564726.552 0
SO SRCPARAM 29885E39 .0517852 4.57 491.48 12.41 .46
** NMED source ID=29885EQPT40 Facility's ID=3-EP-1e
** Description=Glycol Dehydrator Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8569hr/yr, 23hr/day
SO LOCATION 29885E40 POINT 639125.045 3564735.733 0
SO SRCPARAM 29885E40 .0028728 6.1 602.04 16.63 .21
** NMED source ID=29885EQPT44 Facility's ID=EP-6
** Description=Thermal Oxidizer (TO) Construction date=24-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885E44 POINT 639118.21 3564742.211 0
```

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SO SRCPARAM 29885E44 .0261824 15.24 1088.71 2.8 2.13
** NMED source ID=29885EQPT46 Facility's ID=2a-EP-1d
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8634hr/yr, 24hr/day
SO LOCATION 29885E46 POINT 639108.574 3564742.288 0
SO SRCPARAM 29885E46 .0291862 7.56 491.48 2.28 1.07
** NMED source ID=29885EQPT47 Facility's ID=3-EP-1h
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E47 POINT 639101.313 3564735.622 0
SO SRCPARAM 29885E47 .0503992 4.57 491.48 12.41 .46
** NMED source ID=29885EQPT55 Facility's ID=4-EP-1b
** Description=HMO Heater - Cryo 4 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5178hr/yr, 14hr/day
SO LOCATION 29885E55 POINT 639100.533 3564725.576 0
SO SRCPARAM 29885E55 .012373 7.87 493.71 7.96 .71
** NMED source ID=29885EQPT57 Facility's ID=4-EP-1a
** Description=Mol Sieve Heater - Cryo 4 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2877hr/yr, 8hr/day
SO LOCATION 29885E57 POINT 639106.951 3564717.525 0
SO SRCPARAM 29885E57 .0051785 6.71 464.82 8.56 .41
** NMED source ID=29885EQPT58 Facility's ID=4-EP-1d
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8631hr/yr, 24hr/day
SO LOCATION 29885E58 POINT 639117.353 3564715.984 0
SO SRCPARAM 29885E58 .0291963 4.57 491.48 12.41 .46
** NMED source ID=29885EQPT59 Facility's ID=4-EP-1e
** Description=Glycol Dehydrator Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8631hr/yr, 24hr/day
SO LOCATION 29885E59 POINT 639126.193 3564722.076 0
SO SRCPARAM 29885E59 .0028728 6.1 602.04 16.63 .21
** NMED source ID=29885EQPT60 Facility's ID=4-EP-1h
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8631hr/yr, 24hr/day
SO LOCATION 29885E60 POINT 639128.55 3564732.774 0
SO SRCPARAM 29885E60 .0291963 4.57 491.48 12.41 .46
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** NMED source ID=29885EQPT63 Facility's ID=EP-8
** Description=Thermal Oxidizer (TO) Construction date=24-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885E63 POINT 639122.866 3564742.395 0
SO SRCPARAM 29885E63 .0261824 15.24 1088.71 2.8 2.13
** NMED source ID=29885EQPT64 Facility's ID=5-EP-1a
** Description=Amine Unit & Glycol Dehydrator Reboiler  Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8615hr/yr, 24hr/day
SO LOCATION 29885E64 POINT 639111.936 3564745.617 0
SO SRCPARAM 29885E64 .0517852 4.57 491.48 12.41 .46
** NMED source ID=29885EQPT65 Facility's ID=5-EP-1b
** Description=Glycol Dehydrator Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8615hr/yr, 24hr/day
SO LOCATION 29885E65 POINT 639101.549 3564740.422 0
SO SRCPARAM 29885E65 .0028728 6.1 602.04 16.63 .21
** NMED source ID=29885EQPT66 Facility's ID=5-EP-1c
** Description=Mole Sieve Heater - Cryo 5 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2871hr/yr, 8hr/day
SO LOCATION 29885E66 POINT 639097.418 3564729.332 0
SO SRCPARAM 29885E66 .0051785 6.71 464.82 8.56 .41
** NMED source ID=29885EQPT67 Facility's ID=5-EP-1d
** Description=HMO Heater - Cryo 5 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5169hr/yr, 14hr/day
SO LOCATION 29885E67 POINT 639102.044 3564718.201 0
SO SRCPARAM 29885E67 .012373 7.87 493.71 7.96 .71
** NMED source ID=29885EQPT71 Facility's ID=6-EP-1a
** Description=Amine Unit & Glycol Dehydrator Reboiler  Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2532hr/yr, 7hr/day
SO LOCATION 29885E71 POINT 639113.218 3564713.124 0
SO SRCPARAM 29885E71 .0517852 4.57 491.48 12.41 .46
** NMED source ID=29885EQPT72 Facility's ID=6-EP-1b
** Description=Glycol Dehydrator Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E72 POINT 639125.061 3564717.1 0
SO SRCPARAM 29885E72 .0028728 6.1 602.04 16.63 .21
** NMED source ID=29885EQPT73 Facility's ID=6-EP-1c
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** Description=Mole Sieve Heater - Cryo 6 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=836hr/yr, 2hr/day
SO LOCATION 29885E73 POINT 639131.117 3564728.278 0
SO SRCPARAM 29885E73 .0051785 6.71 464.82 8.56 .41
** NMED source ID=29885EQPT74 Facility's ID=6-EP-1d
** Description=HMO Heater - Cryo 6 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1519hr/yr, 4hr/day
SO LOCATION 29885E74 POINT 639127.87 3564740.796 0
SO SRCPARAM 29885E74 .012373 7.87 493.71 7.96 .71
** NMED source ID=29885EQPT77 Facility's ID=7-EP-1c
** Description=Mole Sieve Heater - Cryo 7 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E77 POINT 639116.772 3564747.855 0
SO SRCPARAM 29885E77 .0051785 6.71 464.82 8.56 .41
** NMED source ID=29885EQPT78 Facility's ID=7-EP-1d
** Description=HMO Heater - Cryo 7 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E78 POINT 639103.626 3564745.411 0
SO SRCPARAM 29885E78 .012373 7.87 493.71 7.96 .71
** NMED source ID=29885EQPT85 Facility's ID=EP-10
** Description=Thermal Oxidizer (TO) Construction date=24-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E85 POINT 639095.545 3564734.483 0
SO SRCPARAM 29885E85 .0261824 15.24 1088.71 2.8 2.13
**********END OF 29885: Red Hills Gas Processing Plant
INFO**********************************
************************************************************
** 1.48km away. Facility ID=33152 Name=PolyNatura - Ochoa Mine Project
** Company ID=12322 Name=PolyNatura Corp
** SIC=1474 NAIC=212391   Permit=5384 NSR
** lat,long,datum=32.19975, -103.533111, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=133.94tons/year
*****************Facility sources: ****************************
** NMED source ID=33152AREA3 Facility's ID=S189/S190
** Description=Product/Recycle Haul Road Ochoa Plant Construction date=10-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152A3 VOLUME 638260.858 3563520.142 0
SO SRCPARAM 33152A3 .0125998 10 10 9.3
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** NMED source ID=33152AREA5 Facility's ID=S191/S192/S193
** Description=Additive/Equipment/De-Duster Delivery Haul Road Construction
date=10-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152A5 VOLUME 638268.394 3563527.163 0
SO SRCPARAM 33152A5 .0172617 1 .47 .93
** NMED source ID=33152AREA8 Facility's ID=S194
** Description=Waste (Gypsum) Haul Road  Construction date=10-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152A8 VOLUME 638261.608 3563530.715 0
SO SRCPARAM 33152A8 .062999 10 50 9.3
** NMED source ID=33152EQPT63 Facility's ID=S18 A
** Description=Polyhalite Dryer Calciner (stack 3A) (S19A; S21A; S22A; S30A)
Construction date=10-DEC-13
** SCC=30502201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152E63 POINT 638254.011 3563528.623 0
SO SRCPARAM 33152E63 2.393962 76.81 519.26 28 3
** NMED source ID=33152EQPT71 Facility's ID=S34
** Description=SOP Product Dryer (Stack 4) (S32, S33, S35) Construction
date=10-DEC-13
** SCC=30502201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152E71 POINT 638249.77 3563521.723 0
SO SRCPARAM 33152E71 .0755988 64.62 422.04 19.34 .86
** NMED source ID=33152EQPT103 Facility's ID=S73 A
** Description=SOP Granulation Dryer stack 6 (S72, S85) Construction date=10-DEC-13
** SCC=30502201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 3152E103 POINT 638251.422 3563513.569 0
SO SRCPARAM 3152E103 .1385978 70.71 297.04 18.63 1.27
** NMED source ID=33152EQPT120 Facility's ID=S90
** Description=Langbeinite Product Dryer (stack 7) (S88, S89) Construction
date=10-DEC-13
** SCC=30502201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 3152E120 POINT 638258.371 3563508.607 0
SO SRCPARAM 3152E120 .0503992 64.62 449.82 17.28 .76
** NMED source ID=33152EQPT143 Facility's ID=S113
** Description=Langbeinite Glazing/Conditioning Dryer (Stack 10) (S111, S112, S114)
Construction date=10-DEC-13
** SCC=30502201
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 3152E143 POINT 638267.054 3563509.749 0
SO SRCPARAM 3152E143 .0755988 7 730 28 .3
** NMED source ID=33152EQPT216 Facility's ID=S196
** Description=Boiler 1 (Stack 12) Construction date=10-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 3152E216 POINT 638272.764 3563516.677 0
SO SRCPARAM 3152E216 .1007984 15.24 455.37 25.19 1.22
** NMED source ID=33152EQPT218 Facility's ID=S197
** Description=Boiler 2 (Stack 13) Construction date=10-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 3152E218 POINT 638272.199 3563525.858 0
SO SRCPARAM 3152E218 .1007984 15.24 455.37 25.19 1.22
** NMED source ID=33152RPNT10 Facility's ID=S195
** Description=Jal Loadout Haul Roads Construction date=10-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R10 VOLUME 638265.364 3563532.336 0
SO SRCPARAM 33152R10 .0503992 10 40 9.3
** NMED source ID=33152RPNT11 Facility's ID=Stk1
** Description=ROM Area Dust Collector (S3; S4; S5A,B; S6A,B; S7) Construction
date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R11 POINT 638255.728 3563532.413 0
SO SRCPARAM 33152R11 .0264596 30.78 297.04 16.11 .43
** NMED source ID=33152RPNT12 Facility's ID=Stk2
** Description=Crusher Area Dust Collector (S8 - S13; S14A,B; S15A,B) Construction
date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R12 POINT 638248.467 3563525.747 0
SO SRCPARAM 33152R12 .0755988 64.62 297.04 15.51 .74
** NMED source ID=33152RPNT13 Facility's ID=Stk5
** Description=SOP Area Dust Collector (S16AB; S17AB; S20AB; S23-S28; S36-S55;
S59-S68; S69AB; S70AB; S71AB; S74-S77; S78AB; S79AB; S80-S84; S86; S87; S124; S125;
S127; S128; S130-S134) Construction date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R13 POINT 638247.687 3563515.701 0
SO SRCPARAM 33152R13 .2267964 70.71 297.04 18.63 1.27
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** NMED source ID=33152RPNT14 Facility's ID=Stk8
** Description=Langbeinite Area Dust Collector (S91, S94-S103, S104AB) Construction
date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R14 POINT 638254.105 3563507.65 0
SO SRCPARAM 33152R14 .1007984 64.62 297.04 15.97 .89
** NMED source ID=33152RPNT15 Facility's ID=Stk9
** Description=Langbeinite Compactor Dust Collector (S105; S106; S107AB; S108-S110;
S115-S123) Construction date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R15 POINT 638264.507 3563506.109 0
SO SRCPARAM 33152R15 .0881986 64.62 297.04 17.25 .91
** NMED source ID=33152RPNT16 Facility's ID=Stk11
** Description=Jal Loadout Facility Dust Collector (S146-S153; S155; S167-S171;
S174) Construction date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R16 POINT 638273.347 3563512.201 0
SO SRCPARAM 33152R16 .188997 38.1 297.04 15.24 1.19
** NMED source ID=33152RPNT17 Facility's ID=Ochoa PM Fugitives
** Description=Total Ochoa PM Fugitive emissions, except haul roads (S1, S2, S56,
S57, S92, S93, S126-S188, S175-S180) Construction date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R17 VOLUME 638275.704 3563522.899 0
SO SRCPARAM 33152R17 .062999 10 20 9.3
** NMED source ID=33152RPNT18 Facility's ID=Jal Loadout PM Fugitives
** Description=Total Jal Loadout PM Fugitive emissions, except haul roads
(S136-S173) Construction date=01-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152R18 VOLUME 638270.02 3563532.52 0
SO SRCPARAM 33152R18 .062999 10 20 9.3
**********END OF 33152: PolyNatura - Ochoa Mine Project
INFO**********************************
************************************************************
** 1.69km away. Facility ID=39982 Name=EOG - Jupiter 19 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2056, -103.5069, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=39982EQPT5 Facility's ID=HTR-1E
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** Description=Heater Treater (1.5 MMBtu/h) Construction date=18-MAY-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39982E5 VOLUME 640722.595 3564202.703 0
SO SRCPARAM 39982E5 .00126 4.88 .47 .93
** NMED source ID=39982EQPT6 Facility's ID=HTR-1W
** Description=Heater Treater (1.5 MMBtu/h) Construction date=18-MAY-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39982E6 VOLUME 640730.131 3564209.724 0
SO SRCPARAM 39982E6 .00126 4.88 .47 .93
**********END OF 39982: EOG - Jupiter 19 Fed Com CTB
INFO************************************
************************************************************
** 1.71km away. Facility ID=38504 Name=Leo Thorsness Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223267, -103.534069, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.5tons/year
*****************Facility sources: ******************************
** NMED source ID=38504AREA1 Facility's ID=HR-1
** Description=haul road Construction date=28-AUG-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38504A1 VOLUME 638134.989 3566126.05 0
SO SRCPARAM 38504A1 .0138598 10 10 9.3
** NMED source ID=38504EQPT3 Facility's ID=ENG-5
** Description=Caterpillar G3306, 203 HP Construction date=28-AUG-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7900hr/yr, 22hr/day
SO LOCATION 38504E3 POINT 638142.525 3566133.071 0
SO SRCPARAM 38504E3 .00126 4.57 880.93 56.25 .1
** NMED source ID=38504EQPT5 Facility's ID=GEN-1
** Description=PSI 390 HP generator Construction date=28-AUG-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3841hr/yr, 10hr/day
SO LOCATION 38504E5 POINT 638135.739 3566136.623 0
SO SRCPARAM 38504E5 .0050399 3.05 1005.37 112.55 .1
** NMED source ID=38504EQPT6 Facility's ID=HT-1
** Description=Heater Treater, 0.5 MMBtu/hr Construction date=28-AUG-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38504E6 VOLUME 638128.142 3566134.531 0
SO SRCPARAM 38504E6 .0005796 6.1 .47 .93
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** NMED source ID=38504EQPT7 Facility's ID=HT-2
** Description=Heater Treater, 0.5 MMBtu/hr Construction date=28-AUG-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38504E7 VOLUME 638123.901 3566127.631 0
SO SRCPARAM 38504E7 .0005796 6.1 .47 .93
** NMED source ID=38504EQPT26 Facility's ID=ENG-2
** Description=Caterpillar G3406NA, 215hp Construction date=13-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38504E26 POINT 638125.553 3566119.477 0
SO SRCPARAM 38504E26 .00252 2.5 898.71 73.66 .09
** NMED source ID=38504EQPT27 Facility's ID=ENG-6
** Description=Caterpillar G3406NA, 215hp Construction date=12-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38504E27 POINT 638132.502 3566114.515 0
SO SRCPARAM 38504E27 .00252 2.5 898.71 73.66 .09
**********END OF 38504: Leo Thorsness Facility
INFO**********************************
************************************************************
** 1.72km away. Facility ID=39913 Name=Broadside 12 Facility 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9134 NOI
** lat,long,datum=32.225803, -103.527072, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.19tons/year
*****************Facility sources: ****************************
** NMED source ID=39913AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=01-SEP-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39913A1 VOLUME 638790.526 3566416.216 0
SO SRCPARAM 39913A1 .0277196 10 20 9.3
** NMED source ID=39913EQPT2 Facility's ID=ENG 1
** Description=ENG 1 EQ000162142 Construction date=01-SEP-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39913E2 POINT 638798.062 3566423.237 0
SO SRCPARAM 39913E2 .0037799 3.6 853.15 19.96 .17
** NMED source ID=39913EQPT4 Facility's ID=HT-1
** Description=HT-1 EQ000717193 Construction date=01-SEP-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39913E4 VOLUME 638791.276 3566426.789 0
```

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SO SRCPARAM 39913E4 .0005796 9.14 .47 .93
**********END OF 39913: Broadside 12 Facility 1
INFO**********************************
************************************************************
** 1.75km away. Facility ID=40312 Name=Broadside 12 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9510 NOI
** lat,long,datum=32.225971, -103.520534, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.32tons/year
*****************Facility sources: ****************************
** NMED source ID=40312EQPT1 Facility's ID=ENG-1
** Description=Combustion Engine Construction date=27-JAN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40312E1 POINT 639406.389 3566443.308 0
SO SRCPARAM 40312E1 .0088199 5.18 710.93 52.3 .25
**********END OF 40312: Broadside 12 Wellpad 2
INFO**********************************
************************************************************
** 1.76km away. Facility ID=39788 Name=EOG - Falcon 25 Fed 1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.195, -103.5274, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=39788EQPT2 Facility's ID=Heater-1
** Description=0.5 MM Btu/hr heater treater Construction date=15-JAN-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39788E2 VOLUME 638806.41 3563000.908 0
SO SRCPARAM 39788E2 .0005796 5.18 .47 .93
**********END OF 39788: EOG - Falcon 25 Fed 1H
INFO**********************************
************************************************************
** 1.79km away. Facility ID=40140 Name=Devon - Broadside 12 Facility 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.225931, -103.518415, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.16tons/year
*****************Facility sources: ****************************
** NMED source ID=40140AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=15-SEP-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5136hr/yr, 24hr/day
SO LOCATION 40140A1 VOLUME 639606.138 3566441.626 0
SO SRCPARAM 40140A1 .0277196 10 20 9.3
**********END OF 40140: Devon - Broadside 12 Facility 2
```

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INFO**********************************
************************************************************
** 1.94km away. Facility ID=36406 Name=Sebastian Fed Com 2H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6667 NOI
** lat,long,datum=32.224177, -103.51112, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=36406AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=20-SEP-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36406A1 VOLUME 640296.29 3566256.678 0
SO SRCPARAM 36406A1 .0002898 1 .47 .93
** NMED source ID=36406EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 36406E4 VOLUME 640303.826 3566263.699 0
SO SRCPARAM 36406E4 .00126 6.71 .47 .93
**********END OF 36406: Sebastian Fed Com 2H Battery
INFO**********************************
************************************************************
** 2.04km away. Facility ID=39685 Name=Blue Krait 23 Wellpad 7
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=8945 NOI
** lat,long,datum=32.195933, -103.536886, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.77tons/year
*****************Facility sources: ******************************
** NMED source ID=39685EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=29-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39685E1 POINT 637910.773 3563092.133 0
SO SRCPARAM 39685E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=39685EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=29-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39685E2 POINT 637918.309 3563099.154 0
SO SRCPARAM 39685E2 .0037799 3.6 853.15 19.79 .17
** NMED source ID=39685EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=02-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39685E3 POINT 637911.523 3563102.706 0
SO SRCPARAM 39685E3 .0075599 4.39 778.71 13.8 .26
** NMED source ID=39685EQPT4 Facility's ID=ENG 4
** Description=ENG 4 Combustion Engine Construction date=02-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39685E4 POINT 637903.926 3563100.614 0
SO SRCPARAM 39685E4 .0037799 3.6 853.15 19.79 .17
**********END OF 39685: Blue Krait 23 Wellpad 7
INFO**********************************
************************************************************
** 2.24km away. Facility ID=40063 Name=Concrete Batch Plant, GCP5-9285
** Company ID=719 Name=Roswell Ready Mix Company
** SIC=3273 NAIC=32732    Permit=9285 GCP5
** lat,long,datum=32.22806, -103.51224, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=95tons/year
*****************Facility sources: ******************************
** NMED source ID=40063ACT 1 Facility's ID=GCP-5
** Description=Concrete Batch Plant Construction date=17-JUL-21
** SCC=30501199
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40063@1 VOLUME 640184.781 3566685.695 0
SO SRCPARAM 40063@1 2.7328336 10 220 9.3
**********END OF 40063: Concrete Batch Plant, GCP5-9285
INFO**********************************
************************************************************
** 2.39km away. Facility ID=40875 Name=Blue Krait 23 Wellpad 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9847 NOI
** lat,long,datum=32.196517, -103.543112, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.39tons/year
*****************Facility sources: ******************************
** NMED source ID=40875EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=09-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40875E1 POINT 637322.987 3563148.906 0
SO SRCPARAM 40875E1 .0075599 4.39 778.71 13.8 .26
** NMED source ID=40875EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Engine Construction date=09-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40875E2 POINT 637330.523 3563155.927 0
SO SRCPARAM 40875E2 .0037799 3.6 853.15 19.79 .17
**********END OF 40875: Blue Krait 23 Wellpad 6
INFO**********************************
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**************************************************************
** 2.76km away. Facility ID=38952 Name=Carl Mottek Fed Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.22393, -103.49917, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.74tons/year
*****************Facility sources: ******************************
** NMED source ID=38952AREA1 Facility's ID=HR-01
** Description=Unpaved Haul Road Construction date=28-OCT-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38952A1 VOLUME 641422.826 3566244.965 0
SO SRCPARAM 38952A1 .0340195 10 30 9.3
** NMED source ID=38952EQPT2 Facility's ID=HT-01
** Description=0.5 MMBTU/h heater treater Construction date=28-OCT-19
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38952E2 VOLUME 641430.362 3566251.986 0
SO SRCPARAM 38952E2 .0002898 10 .47 .93
** NMED source ID=38952EQPT3 Facility's ID=ENG-01
** Description=400 hp Caterpillar CG137-8 Construction date=28-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8689hr/yr, 24hr/day
SO LOCATION 38952E3 POINT 641423.576 3566255.538 0
SO SRCPARAM 38952E3 .0075599 6.1 804.26 13.5 .27
** NMED source ID=38952EQPT6 Facility's ID=FL-1 HP
** Description=10 MMSCFD Flare Construction date=28-OCT-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38952E6 POINT 641415.979 3566253.446 0
SO SRCPARAM 38952E6 .0201597 15.09 1273 20 4.652
** NMED source ID=38952EQPT11 Facility's ID=FL-1 LP
** Description=Standard Flare Low Pressure Construction date=28-OCT-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38952E11 POINT 641411.738 3566246.546 0
SO SRCPARAM 38952E11 .0037799 15.09 1273 20 2.632
** NMED source ID=38952EQPT12 Facility's ID=GEN-1
** Description=4-Stroke Rich Burn Compressor Engine Construction date=16-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38952E12 POINT 641413.39 3566238.392 0
SO SRCPARAM 38952E12 .0037799 4.51 1023.15 16.65 .21
** NMED source ID=38952EQPT24 Facility's ID=GEN-2
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** Description=4-Stroke Rich Burn Compressor Engine Construction date=16-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38952E24 POINT 641420.339 3566233.43 0
SO SRCPARAM 38952E24 .0037799 4.51 1023.15 16.65 .21
** NMED source ID=38952EQPT25 Facility's ID=GEN-3
** Description=4-Stroke Rich Burn Compressor Engine Construction date=16-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38952E25 POINT 641429.022 3566234.572 0
SO SRCPARAM 38952E25 .0037799 4.51 1023.15 16.65 .21
**********END OF 38952: Carl Mottek Fed Tank Battery
INFO************************************
************************************************************
** 2.76km away. Facility ID=34645 Name=Abu Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19, -103.5075, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=4.35tons/year
*****************Facility sources: ******************************
** NMED source ID=34645EQPT1 Facility's ID=ENG-1
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8759hr/yr, 24hr/day
SO LOCATION 34645E1 POINT 640690.05 3562472.466 0
SO SRCPARAM 34645E1 .0201597 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT2 Facility's ID=ENG-2
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8746hr/yr, 24hr/day
SO LOCATION 34645E2 POINT 640697.586 3562479.487 0
SO SRCPARAM 34645E2 .0201597 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT3 Facility's ID=ENG-3
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8745hr/yr, 24hr/day
SO LOCATION 34645E3 POINT 640690.8 3562483.039 0
SO SRCPARAM 34645E3 .0201597 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT4 Facility's ID=ENG-4
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8544hr/yr, 24hr/day
SO LOCATION 34645E4 POINT 640683.203 3562480.947 0
SO SRCPARAM 34645E4 .0201597 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT5 Facility's ID=ENG-5
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8781hr/yr, 24hr/day
SO LOCATION 34645E5 POINT 640678.962 3562474.047 0
SO SRCPARAM 34645E5 .0201597 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT6 Facility's ID=ENG-6
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8437hr/yr, 23hr/day
SO LOCATION 34645E6 POINT 640680.614 3562465.893 0
SO SRCPARAM 34645E6 .0201597 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT7 Facility's ID=HTR-1
** Description=1.5 MMBtu/hr Heater Construction date=15-DEC-14
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 34645E7 VOLUME 640687.563 3562460.931 0
SO SRCPARAM 34645E7 .00126 2.44 .47 .93
** NMED source ID=34645EQPT8 Facility's ID=REB-1
** Description=0.75 MMBtu/hr TEG Reboiler Construction date=15-DEC-14
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 34645E8 POINT 640696.246 3562462.073 0
SO SRCPARAM 34645E8 .00126 2.44 588.71 7.22 .15
**********END OF 34645: Abu Compressor Station
INFO**********************************
************************************************************
** 2.8km away. Facility ID=39449 Name=Devon - Blue Krait 23 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.198574, -103.550084, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.26tons/year
*****************Facility sources: ****************************
** NMED source ID=39449EQPT15 Facility's ID=LPC-3
** Description=Low Pressure Compressor Engine Construction date=27-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1440hr/yr, 24hr/day
SO LOCATION 39449E15 POINT 636662.685 3563368.063 0
SO SRCPARAM 39449E15 .00252 2.68 922.04 67.27 .09
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** NMED source ID=39449RPNT2 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=27-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1440hr/yr, 24hr/day
SO LOCATION 39449R2 VOLUME 636670.221 3563375.084 0
SO SRCPARAM 39449R2 .0277196 10 20 9.3
**********END OF 39449: Devon - Blue Krait 23 CTB 2
INFO**********************************
************************************************************
** 2.96km away. Facility ID=39951 Name=EOG - Falcon 25 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1841, -103.527, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=39951EQPT1 Facility's ID=HTR-1
** Description=Heater Treater 1.5 MMBTU/hr Construction date=09-JUN-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39951E1 VOLUME 638860.671 3561793.032 0
SO SRCPARAM 39951E1 .00126 4.88 .47 .93
**********END OF 39951: EOG - Falcon 25 Fed Com CTB
INFO**********************************
************************************************************
** 3.1km away. Facility ID=39998 Name=Yukon 20 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2071, -103.4912, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.19tons/year
*****************Facility sources: ******************************
** NMED source ID=39998EQPT4 Facility's ID=HTR-3
** Description=Heater Treater Construction date=04-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E4 VOLUME 642200.111 3564389.663 0
SO SRCPARAM 39998E4 .00126 4.88 .47 .93
** NMED source ID=39998EQPT12 Facility's ID=HTR-1
** Description=Heater Treater Construction date=08-DEC-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E12 VOLUME 642207.647 3564396.684 0
SO SRCPARAM 39998E12 .00126 4.88 .47 .93
** NMED source ID=39998EQPT13 Facility's ID=HTR-2
** Description=Heater Treater Construction date=08-DEC-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E13 VOLUME 642200.861 3564400.236 0
SO SRCPARAM 39998E13 .00126 4.88 .47 .93
** NMED source ID=39998EQPT19 Facility's ID=ENG-4
** Description=Gas Lift Engine Construction date=07-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E19 POINT 642193.264 3564398.144 0
SO SRCPARAM 39998E19 .00252 3.96 899.82 25.12 .13
**********END OF 39998: Yukon 20 Fed Com CTB
INFO**********************************
************************************************************
** 3.22km away. Facility ID=38910 Name=Mark West - Bell Lake South Compressor
Station
** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.237897, -103.512808, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=7.32tons/year
*****************Facility sources: ******************************
** NMED source ID=38910EQPT1 Facility's ID=Reboil-1
** Description=TEG Reboiler 1.5 MMscfd Construction date=05-APR-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38910E1 POINT 640116.154 3567775.511 0
SO SRCPARAM 38910E1 .00126 4.88 588.71 2.35 .4
** NMED source ID=38910EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine CAT 3608, 2500HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7125hr/yr, 24hr/day
SO LOCATION 38910E2 POINT 640123.69 3567782.532 0
SO SRCPARAM 38910E2 .0314995 7.01 718.71 57.49 .41
** NMED source ID=38910EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine CAT 3608, 2500HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7225hr/yr, 24hr/day
SO LOCATION 38910E3 POINT 640116.904 3567786.084 0
SO SRCPARAM 38910E3 .0314995 7.01 708.15 57.94 .41
** NMED source ID=38910EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine CAT 3516J, 1380HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6863hr/yr, 24hr/day
SO LOCATION 38910E4 POINT 640109.307 3567783.992 0
SO SRCPARAM 38910E4 .0188997 7.01 713.71 52 .3
** NMED source ID=38910EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=05-APR-19
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7400hr/yr, 24hr/day
SO LOCATION 38910E5 POINT 640105.066 3567777.092 0
SO SRCPARAM 38910E5 .0214197 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7192hr/yr, 24hr/day
SO LOCATION 38910E6 POINT 640106.718 3567768.938 0
SO SRCPARAM 38910E6 .0214197 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6892hr/yr, 24hr/day
SO LOCATION 38910E7 POINT 640113.667 3567763.976 0
SO SRCPARAM 38910E7 .0214197 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT8 Facility's ID=ENG-7
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6988hr/yr, 24hr/day
SO LOCATION 38910E8 POINT 640122.35 3567765.118 0
SO SRCPARAM 38910E8 .0214197 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT15 Facility's ID=ENG-8
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=12-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6027hr/yr, 24hr/day
SO LOCATION 38910E15 POINT 640128.06 3567772.046 0
SO SRCPARAM 38910E15 .0188997 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT16 Facility's ID=ENG-9
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=12-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38910E16 POINT 640127.495 3567781.227 0
SO SRCPARAM 38910E16 .0214197 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT19 Facility's ID=ECD-1
** Description=Enclosed Combustion Device 500 m scf/d Construction date=29-NOV-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=500hr/yr, 24hr/day
SO LOCATION 38910E19 POINT 640120.66 3567787.705 0
SO SRCPARAM 38910E19 .0466193 9.75 1273 20 2.13
** NMED source ID=38910EQPT20 Facility's ID=ECD-2
** Description=Enclosed Combustion Device 30 M scf/d Construction date=29-NOV-21
** SCC=31000205
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38910E20 POINT 640111.024 3567787.782 0
SO SRCPARAM 38910E20 .00252 3.66 1273 20 1.22
**********END OF 38910: Mark West - Bell Lake South Compressor Station
INFO**********************************
************************************************************
** 3.25km away. Facility ID=32699 Name=EOG - Hawk 25 Fed No 1H and Falcon 25 Fed No
2H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.182, -103.5311, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.22tons/year
****************Facility sources: ****************************
** NMED source ID=32699AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Roads Construction date=31-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32699A1 VOLUME 638477.304 3561554.935 0
SO SRCPARAM 32699A1 .0050399 1 .47 .93
** NMED source ID=32699EQPT3 Facility's ID=HT-1
** Description=Heater Treater (0.5 MM BTU/hr) Construction date=31-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7332hr/yr, 24hr/day
SO LOCATION 32699E3 VOLUME 638484.84 3561561.956 0
SO SRCPARAM 32699E3 .00126 5.18 .47 .93
** NMED source ID=32699EQPT4 Facility's ID=HT-2
** Description=Heater Treater (0.5 MM BTU/hr) Construction date=31-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8773hr/yr, 24hr/day
SO LOCATION 32699E4 VOLUME 638478.054 3561565.508 0
SO SRCPARAM 32699E4 .00126 5.18 .47 .93
** NMED source ID=32699EQPT5 Facility's ID=HT-3
** Description=Heater Treater (0.5 MM BTU/hr) Construction date=31-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32699E5 VOLUME 638470.457 3561563.416 0
SO SRCPARAM 32699E5 .00126 5.18 .47 .93
**********END OF 32699: EOG - Hawk 25 Fed No 1H and Falcon 25 Fed No 2H
INFO**********************************
************************************************************
** 3.3km away. Facility ID=40279 Name=Tap Rock - Prometheus D CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199421, -103.556337, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.84tons/year
```

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*****************Facility sources: ****************************
** NMED source ID=40279AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=13-JAN-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279A1 VOLUME 636071.99 3563454.03 0
SO SRCPARAM 40279A1 .3527944 10 30 9.3
** NMED source ID=40279EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3606 1875 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279E1 POINT 636079.526 3563461.051 0
SO SRCPARAM 40279E1 .0151198 4.57 725.93 174.96 .2
** NMED source ID=40279EQPT2 Facility's ID=GEN-1
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279E2 POINT 636072.74 3563464.603 0
SO SRCPARAM 40279E2 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40279EQPT3 Facility's ID=GEN-2
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279E3 POINT 636065.143 3563462.511 0
SO SRCPARAM 40279E3 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40279EQPT4 Facility's ID=GEN-3
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279E4 POINT 636060.902 3563455.611 0
SO SRCPARAM 40279E4 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40279EQPT5 Facility's ID=GEN-4
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279E5 POINT 636062.554 3563447.457 0
SO SRCPARAM 40279E5 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40279EQPT6 Facility's ID=HT-1
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279E6 POINT 636069.503 3563442.495 0
SO SRCPARAM 40279E6 .00252 4.57 510.93 .4 .3
```

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** NMED source ID=40279EQPT7 Facility's ID=HT-2
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279E7 POINT 636078.186 3563443.637 0
SO SRCPARAM 40279E7 .00252 4.57 510.93 .4 .3
**********END OF 40279: Tap Rock - Prometheus D CTB
INFO**********************************
************************************************************
** 3.3km away. Facility ID=40266 Name=EOG - Denali Local Gas Lift
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2017, -103.4905, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.46tons/year
*****************Facility sources: ******************************
** NMED source ID=40266EQPT2 Facility's ID=ENG -1
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E2 POINT 642274.499 3563791.931 0
SO SRCPARAM 40266E2 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E3 POINT 642282.035 3563798.952 0
SO SRCPARAM 40266E3 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E4 POINT 642275.249 3563802.504 0
SO SRCPARAM 40266E4 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E5 POINT 642267.652 3563800.412 0
SO SRCPARAM 40266E5 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E6 POINT 642263.411 3563793.512 0
```

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SO SRCPARAM 40266E6 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E7 POINT 642265.063 3563785.358 0
SO SRCPARAM 40266E7 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT9 Facility's ID=HTR-1
** Description=Separator Heater Construction date=17-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E9 POINT 642272.012 3563780.396 0
SO SRCPARAM 40266E9 .00126 3.05 588.71 .95 .52
** NMED source ID=40266EQPT11 Facility's ID=RBL-1
** Description=Dehy Reboiler Construction date=17-DEC-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E11 POINT 642280.695 3563781.538 0
SO SRCPARAM 40266E11 .00126 6.1 588.71 .11 1.83
**********END OF 40266: EOG - Denali Local Gas Lift
INFO************************************
************************************************************
** 3.31km away. Facility ID=32162 Name=EOG - Vanguard 30 State Com 1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.181675, -103.515464, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=32162EQPT9 Facility's ID=HTR- 1
** Description=0.5 MMBtu/h Heater Treater Construction date=17-DEC-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8723hr/yr, 24hr/day
SO LOCATION 32162E9 VOLUME 639951.993 3561539.147 0
SO SRCPARAM 32162E9 .0005796 4.57 .47 .93
**********END OF 32162: EOG - Vanguard 30 State Com 1H
INFO************************************
************************************************************
** 3.42km away. Facility ID=38948 Name=Charles Ling East Fed Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.237744, -103.540898, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.2tons/year
*****************Facility sources: ******************************
** NMED source ID=38948EQPT15 Facility's ID=HT-01
** Description=Heater Treater Global Vessels 0.5 MMbtu/hr Construction
date=08-AUG-19
```

```
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38948E15 POINT 637469.627 3567722.24 0
SO SRCPARAM 38948E15 .00126 10.67 422.04 135.85 .2
** NMED source ID=38948EQPT17 Facility's ID=FL-1-LP-NO
** Description=Flare 0.1 MMscfd Construction date=08-AUG-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38948E17 POINT 637477.163 3567729.261 0
SO SRCPARAM 38948E17 .00126 12.19 1273 20 20.806
** NMED source ID=38948EQPT25 Facility's ID=FL-1-HP-SSM
** Description=Flare 8.6 MMscfd Construction date=05-AUG-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38948E25 POINT 637470.377 3567732.813 0
SO SRCPARAM 38948E25 .0002898 12.19 1273 20 5.885
** NMED source ID=38948EQPT29 Facility's ID=ENG-2
** Description=Engine 2 Construction date=12-MAR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38948E29 POINT 637462.78 3567730.721 0
SO SRCPARAM 38948E29 .00126 6.1 1005.37 4.2 .3
** NMED source ID=38948EQPT30 Facility's ID=ENG-1
** Description=Engine 1 Construction date=09-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38948E30 POINT 637458.539 3567723.821 0
SO SRCPARAM 38948E30 .0037799 6.1 810.37 10.52 .3
** NMED source ID=38948RPNT2 Facility's ID=HR-01
** Description=Unpaved Haul Road Construction date=08-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38948R2 VOLUME 637460.191 3567715.667 0
SO SRCPARAM 38948R2 .00126 1 .47 .93
**********END OF 38948: Charles Ling East Fed Tank Battery
INFO************************************
************************************************************
** 3.43km away. Facility ID=35483 Name=Dragon 36 State Nos 501H, 502H, 701H, 706H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.17971, -103.52411, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.37tons/year
*****************Facility sources: ******************************
** NMED source ID=35483EQPT17 Facility's ID=HEATER-1
```

```
** Description=0.75 MM Btu/hr Heater Treater Construction date=10-JUL-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35483E17 VOLUME 639139.818 3561310.084 0
SO SRCPARAM 35483E17 .00126 5.18 .47 .93
** NMED source ID=35483EQPT18 Facility's ID=HEATER-2
** Description=0.75 MM Btu/hr Heater Treater Construction date=10-JUL-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35483E18 VOLUME 639147.354 3561317.105 0
SO SRCPARAM 35483E18 .00126 5.18 .47 .93
** NMED source ID=35483RPNT1 Facility's ID=ROAD
** Description=Haul Roads Construction date=02-AUG-16
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 2hr/day
SO LOCATION 35483R1 VOLUME 639140.568 3561320.657 0
SO SRCPARAM 35483R1 .0088199 10 10 9.3
**********END OF 35483: Dragon 36 State Nos 501H, 502H, 701H, 706H
INFO**********************************
************************************************************
** 3.48km away. Facility ID=38491 Name=EOG - Dragon Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.179322, -103.526394, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=5tons/year
*****************Facility sources: ******************************
** NMED source ID=38491EQPT1 Facility's ID=ENG-2
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8437hr/yr, 23hr/day
SO LOCATION 38491E1 POINT 638925.062 3561264.118 0
SO SRCPARAM 38491E1 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT2 Facility's ID=ENG-4
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8097hr/yr, 22hr/day
SO LOCATION 38491E2 POINT 638932.598 3561271.139 0
SO SRCPARAM 38491E2 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT3 Facility's ID=ENG-5
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8034hr/yr, 22hr/day
SO LOCATION 38491E3 POINT 638925.812 3561274.691 0
SO SRCPARAM 38491E3 .0151198 8.53 719.26 27.43 .51
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** NMED source ID=38491EQPT4 Facility's ID=ENG-6
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8643hr/yr, 24hr/day
SO LOCATION 38491E4 POINT 638918.215 3561272.599 0
SO SRCPARAM 38491E4 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT5 Facility's ID=ENG-7
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38491E5 POINT 638913.974 3561265.699 0
SO SRCPARAM 38491E5 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT6 Facility's ID=ENG-9
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38491E6 POINT 638915.626 3561257.545 0
SO SRCPARAM 38491E6 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT8 Facility's ID=Heater-1
** Description=Separator Heater Construction date=01-AUG-18
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38491E8 POINT 638922.575 3561252.583 0
SO SRCPARAM 38491E8 .0005796 7 730 28 .3
** NMED source ID=38491EQPT10 Facility's ID=ENG-3
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8680hr/yr, 24hr/day
SO LOCATION 38491E10 POINT 638931.258 3561253.725 0
SO SRCPARAM 38491E10 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT11 Facility's ID=ENG-8
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38491E11 POINT 638936.968 3561260.653 0
SO SRCPARAM 38491E11 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT16 Facility's ID=Reboiler-1
** Description=Reboiler Dehydrator Construction date=01-AUG-18
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38491E16 POINT 638936.403 3561269.834 0
SO SRCPARAM 38491E16 .00126 7 730 28 .3
** NMED source ID=38491EQPT17 Facility's ID=ENG-1
```

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** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8106hr/yr, 22hr/day
SO LOCATION 38491E17 POINT 638929.568 3561276.312 0
SO SRCPARAM 38491E17 .0151198 8.53 719.26 27.43 .51
**********END OF 38491: EOG - Dragon Localized Gas Lift Station
INFO**********************************
************************************************************
** 3.57km away. Facility ID=40277 Name=Prometheus C CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199493, -103.559476, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.1tons/year
*****************Facility sources: ******************************
** NMED source ID=40277AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=13-JAN-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40277A1 VOLUME 635775.99 3563458.042 0
SO SRCPARAM 40277A1 .0365394 10 30 9.3
** NMED source ID=40277EQPT6 Facility's ID=HT-1
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40277E6 POINT 635783.526 3563465.063 0
SO SRCPARAM 40277E6 .00252 4.57 510.93 .4 .3
** NMED source ID=40277EQPT7 Facility's ID=HT-2
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40277E7 POINT 635776.74 3563468.615 0
SO SRCPARAM 40277E7 .00252 4.57 510.93 .4 .3
** NMED source ID=40277EQPT24 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=09-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40277E24 POINT 635769.143 3563466.523 0
SO SRCPARAM 40277E24 .0151198 6.1 700.93 76.78 .3
** NMED source ID=40277EQPT25 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=09-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40277E25 POINT 635764.902 3563459.623 0
SO SRCPARAM 40277E25 .0125998 4.57 719.26 52.3 .3
```

**********END OF 40277: Prometheus C CTB INFO**********
**********
** 3.6km away. Facility ID=33901 Name=Hawk 35 Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1801, -103.5367, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
**********Facility sources: **********
** NMED source ID=33901EQPT6 Facility's ID=HTR-1
** Description=Heater Treater,  0.75-mmBTU/hr Construction date=18-JUN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 33901E6 POINT 637952.192 3561337.102 0
SO SRCPARAM 33901E6 .00126 4.88 588.71 .21 1.22
**********END OF 33901: Hawk 35 Fed CTB INFO**********
**********
** 3.74km away. Facility ID=38310 Name=Targa - Blu Compressor Station
** Company ID=901 Name=Versado Gas Processors, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.209103, -103.484219, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
**********Facility sources: **********
** NMED source ID=38310EQPT6 Facility's ID=H-1
** Description=TEG Reboiler 3.0 MM Btu/hr Construction date=12-FEB-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38310E6 POINT 642854.986 3564620.98 0
SO SRCPARAM 38310E6 .00252 6.1 477.59 .52 1.07
**********END OF 38310: Targa - Blu Compressor Station
INFO**********
**********
** 3.76km away. Facility ID=40742 Name=South Bell Lake Pad 5
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.243999, -103.518564, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
**********Facility sources: **********
** NMED source ID=40742EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=21-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40742E3 POINT 639564.465 3568444.499 0
SO SRCPARAM 40742E3 .00126 4.57 333.15 7.99 .09
** NMED source ID=40742EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=21-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40742E4 POINT 639572.001 3568451.52 0
SO SRCPARAM 40742E4 .00126 4.57 333.15 7.99 .09
**********END OF 40742: South Bell Lake Pad 5
INFO*********************************
************************************************************
** 3.8km away. Facility ID=39780 Name=Kaiser-Francis - South Bell Lake Pad 3
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.24465, -103.524856, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: *****************************
** NMED source ID=39780EQPT2 Facility's ID=HT-1
** Description=Heater Treater (0.75 MM BTU/h) Construction date=11-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39780E2 VOLUME 638970.654 3568508.508 0
SO SRCPARAM 39780E2 .00126 4.57 .47 .93
** NMED source ID=39780EQPT6 Facility's ID=HT-2
** Description=Heater Treater (0.75 MM BTU/h) Construction date=09-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39780E6 VOLUME 638978.19 3568515.529 0
SO SRCPARAM 39780E6 .00126 4.57 .47 .93
**********END OF 39780: Kaiser-Francis - South Bell Lake Pad 3
INFO*********************************
************************************************************
** 3.86km away. Facility ID=40276 Name=Tap Rock - Prometheus B CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19947, -103.56268, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.84tons/year
*****************Facility sources: *****************************
** NMED source ID=40276AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=13-JAN-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276A1 VOLUME 635474.005 3563451.45 0
SO SRCPARAM 40276A1 .3527944 10 30 9.3
** NMED source ID=40276EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3606 1875 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276E1 POINT 635481.541 3563458.471 0
SO SRCPARAM 40276E1 .0151198 4.57 725.93 174.96 .2
** NMED source ID=40276EQPT2 Facility's ID=GEN-1
```

```
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276E2 POINT 635474.755 3563462.023 0
SO SRCPARAM 40276E2 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40276EQPT3 Facility's ID=GEN-2
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276E3 POINT 635467.158 3563459.931 0
SO SRCPARAM 40276E3 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40276EQPT4 Facility's ID=GEN-3
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276E4 POINT 635462.917 3563453.031 0
SO SRCPARAM 40276E4 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40276EQPT5 Facility's ID=GEN-4
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276E5 POINT 635464.569 3563444.877 0
SO SRCPARAM 40276E5 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40276EQPT6 Facility's ID=HT-1
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276E6 POINT 635471.518 3563439.915 0
SO SRCPARAM 40276E6 .00252 4.57 510.93 .4 .3
** NMED source ID=40276EQPT7 Facility's ID=HT-2
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276E7 POINT 635480.201 3563441.057 0
SO SRCPARAM 40276E7 .00252 4.57 510.93 .4 .3
**********END OF 40276: Tap Rock - Prometheus B CTB
INFO***********************************
************************************************************
** 3.86km away. Facility ID=37834 Name=Coyote Station
** Company ID=13675 Name=EnLink Delaware Crude Pipeline LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.208861, -103.564872, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.37tons/year
*****************Facility sources: ****************************
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** NMED source ID=37834RPNT3 Facility's ID=UR-01
** Description=Unpaved Road Dust Construction date=07-FEB-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37834R3 VOLUME 635253.48 3564489.787 0
SO SRCPARAM 37834R3 .0100798 10 10 9.3
**********END OF 37834: Coyote Station INFO************************************
************************************************************
** 3.9km away. Facility ID=40760 Name=South Bell Lake Pad 7
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.245011, -103.516236, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40760EQPT3 Facility's ID=HT-1
** Description=Heater Treater HT-1 Construction date=02-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40760E3 VOLUME 639782.254 3568559.721 0
SO SRCPARAM 40760E3 .00126 4.57 .47 .93
** NMED source ID=40760EQPT4 Facility's ID=HT-2
** Description=Heater Treater HT-2 Construction date=02-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40760E4 VOLUME 639789.79 3568566.742 0
SO SRCPARAM 40760E4 .00126 4.57 .47 .93
**********END OF 40760: South Bell Lake Pad 7
INFO**********************************
************************************************************
** 3.95km away. Facility ID=38949 Name=Charles Ling West Fed Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.23838, -103.54995, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.17tons/year
*****************Facility sources: ******************************
** NMED source ID=38949EQPT13 Facility's ID=HT-1
** Description=Heater Treater 0.5 MMBtu/hr Construction date=16-MAY-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38949E13 POINT 636615.76 3567781.195 0
SO SRCPARAM 38949E13 .0002898 9.14 422.04 20.97 .2
** NMED source ID=38949EQPT24 Facility's ID=ENG-1a
** Description=Compressor Engine CAT CG137-8 Construction date=09-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 38949E24 POINT 636623.296 3567788.216 0
SO SRCPARAM 38949E24 .0037799 3.66 808.71 96.56 .1
** NMED source ID=38949RPNT2 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=16-MAY-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38949R2 VOLUME 636616.51 3567791.768 0
SO SRCPARAM 38949R2 .0050399 1 .47 .93
**********END OF 38949: Charles Ling West Fed Tank Battery
INFO**********************************
************************************************************
** 3.95km away. Facility ID=38279 Name=Kaiser-Francis - South Bell Lake Pad 2
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2452, -103.5327, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.12tons/year
*****************Facility sources: ******************************
** NMED source ID=38279EQPT1 Facility's ID=HTR-1
** Description=Heater Treater 1MM btu/h Construction date=06-SEP-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38279E1 POINT 638230.781 3568559.355 0
SO SRCPARAM 38279E1 .00126 4.57 369.82 7.99 .09
** NMED source ID=38279EQPT9 Facility's ID=HTR-2
** Description=Heater Treater 1MM btu/h Construction date=22-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38279E9 POINT 638238.317 3568566.376 0
SO SRCPARAM 38279E9 .00126 4.57 369.82 7.99 .09
** NMED source ID=38279EQPT10 Facility's ID=HTR-3
** Description=Heater Treater 1MM btu/h Construction date=22-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38279E10 POINT 638231.531 3568569.928 0
SO SRCPARAM 38279E10 .00126 4.57 369.82 7.99 .09
** NMED source ID=38279EQPT11 Facility's ID=HTR-4
** Description=Heater Treater 1MM btu/h Construction date=22-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38279E11 POINT 638223.934 3568567.836 0
SO SRCPARAM 38279E11 .00126 4.57 369.82 7.99 .09
**********END OF 38279: Kaiser-Francis - South Bell Lake Pad 2
INFO**********************************
************************************************************
** 4.02km away. Facility ID=40239 Name=South Bell Lake Pad 4
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** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2466, -103.52168, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40239EQPT4 Facility's ID=HT-1
** Description=Heater Treater Construction date=08-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40239E4 VOLUME 639266.911 3568728.806 0
SO SRCPARAM 40239E4 .00126 4.57 .47 .93
** NMED source ID=40239EQPT5 Facility's ID=HT-2
** Description=Heater Treater Construction date=08-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40239E5 VOLUME 639274.447 3568735.827 0
SO SRCPARAM 40239E5 .00126 4.57 .47 .93
**********END OF 40239: South Bell Lake Pad 4
INFO*************************************
************************************************************
** 4.1km away. Facility ID=40233 Name=Kaiser Francis - South Bell Lake Pad 1
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.24728, -103.52756, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40233EQPT3 Facility's ID=HT-1
** Description=Heater Treater 0.75 MMBtu/hr Construction date=01-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40233E3 POINT 638711.892 3568796.58 0
SO SRCPARAM 40233E3 .00126 4.57 369.82 7.99 .09
** NMED source ID=40233EQPT4 Facility's ID=HT-2
** Description=Heater Treater 0.75 MMBtu/hr Construction date=01-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40233E4 POINT 638719.428 3568803.601 0
SO SRCPARAM 40233E4 .00126 4.57 369.82 7.99 .09
**********END OF 40233: Kaiser Francis - South Bell Lake Pad 1
INFO*************************************
************************************************************
** 4.13km away. Facility ID=40780 Name=South Bell Lake Pad 9
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.24507, -103.5079, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
```

**********Facility sources: **********
** NMED source ID=40780EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=18-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40780E3 POINT 640567.557 3568577.146 0
SO SRCPARAM 40780E3 .00126 4.57 369.82 7.99 .09
** NMED source ID=40780EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=18-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40780E4 POINT 640575.093 3568584.167 0
SO SRCPARAM 40780E4 .00126 4.57 369.82 7.99 .09
**********END OF 40780: South Bell Lake Pad 9
INFO**********
**********
** 4.17km away. Facility ID=40296 Name=South Bell Lake Pad 6
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.24691, -103.51301, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
**********Facility sources: **********
** NMED source ID=40296EQPT2 Facility's ID=HT-1
** Description=Heater Treater Construction date=27-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40296E2 VOLUME 640083.283 3568774.455 0
SO SRCPARAM 40296E2 .00126 4.57 .47 .93
** NMED source ID=40296EQPT3 Facility's ID=HT-2
** Description=Heater Treater Construction date=27-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40296E3 VOLUME 640090.819 3568781.476 0
SO SRCPARAM 40296E3 .00126 4.57 .47 .93
**********END OF 40296: South Bell Lake Pad 6
INFO**********
**********
** 4.2km away. Facility ID=40275 Name=Prometheus A CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.200389, -103.566877, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.67tons/year
**********Facility sources: **********
** NMED source ID=40275AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=13-JAN-22
** SCC=31088811

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275A1 VOLUME 635077.024 3563548.049 0
SO SRCPARAM 40275A1 .0365394 10 30 9.3
** NMED source ID=40275EQPT2 Facility's ID=GEN-1
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E2 POINT 635084.56 3563555.07 0
SO SRCPARAM 40275E2 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40275EQPT3 Facility's ID=GEN-2
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E3 POINT 635077.774 3563558.622 0
SO SRCPARAM 40275E3 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40275EQPT4 Facility's ID=GEN-3
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E4 POINT 635070.177 3563556.53 0
SO SRCPARAM 40275E4 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40275EQPT5 Facility's ID=GEN-4
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E5 POINT 635065.936 3563549.63 0
SO SRCPARAM 40275E5 .0088199 4.57 1023.15 27.31 .2
** NMED source ID=40275EQPT6 Facility's ID=HT-1
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E6 POINT 635067.588 3563541.476 0
SO SRCPARAM 40275E6 .00252 4.57 510.93 .4 .3
** NMED source ID=40275EQPT7 Facility's ID=HT-2
** Description=2.0 MMBtu/hr Heater Treater Construction date=13-JAN-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E7 POINT 635074.537 3563536.514 0
SO SRCPARAM 40275E7 .00252 4.57 510.93 .4 .3
** NMED source ID=40275EQPT20 Facility's ID=ENG-2
** Description=Caterpillar G3516 1380 hp Construction date=29-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E20 POINT 635083.22 3563537.656 0
SO SRCPARAM 40275E20 .0113398 4.57 784.82 106.68 .2
**********END OF 40275: Prometheus A CTB INFO************************************
************************************************************
** 4.22km away. Facility ID=763 Name=Bell Lake Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=2208 NSR
** lat,long,datum=32.2484, -103.521883, Unknown
** Total Particulate Matter (2.5 microns or less) emissions=5.9tons/year
*****************Facility sources: ******************************
** NMED source ID=763EQPT12 Facility's ID=E3
** Description=Waukesha L7042GSI Construction date=10-AUG-17
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5530hr/yr, 24hr/day
SO LOCATION 763E12 POINT 639245.038 3568928.096 0
SO SRCPARAM 763E12 .0251996 7.62 824.82 36.39 .2
** NMED source ID=763EQPT13 Facility's ID=E4
** Description=Waukesha L7042GSI Construction date=10-AUG-17
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7720hr/yr, 24hr/day
SO LOCATION 763E13 POINT 639252.574 3568935.117 0
SO SRCPARAM 763E13 .0251996 7.62 880.37 36.39 .2
** NMED source ID=763EQPT16 Facility's ID=E5
** Description=Waukesha L7042GSI Construction date=29-SEP-17
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5362hr/yr, 24hr/day
SO LOCATION 763E16 POINT 639245.788 3568938.669 0
SO SRCPARAM 763E16 .0251996 7.62 880.37 36.39 .2
** NMED source ID=763EQPT17 Facility's ID=E6
** Description=Waukesha L7042GSI Construction date=29-SEP-17
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 763E17 POINT 639238.191 3568936.577 0
SO SRCPARAM 763E17 .0251996 7.62 880.37 36.39 .2
** NMED source ID=763EQPT18 Facility's ID=E7
** Description=Waukesha L7042GSI Construction date=29-SEP-17
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 763E18 POINT 639233.95 3568929.677 0
SO SRCPARAM 763E18 .0251996 7.62 880.37 36.39 .2
** NMED source ID=763EQPT19 Facility's ID=E8
** Description=Waukesha L7042GSI Construction date=29-SEP-17
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 763E19 POINT 639235.602 3568921.523 0
SO SRCPARAM 763E19 .0251996 7.62 880.37 36.39 .2
**********END OF 763: Bell Lake Compressor Station
INFO**********************************
************************************************************
** 4.29km away. Facility ID=39997 Name=Galleon 21 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.198, -103.4808, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.6tons/year
*****************Facility sources: ****************************
** NMED source ID=39997EQPT4 Facility's ID=HTR-1
** Description=Heater Construction date=04-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E4 VOLUME 643194.64 3563394.619 0
SO SRCPARAM 39997E4 .00126 4.88 .47 .93
** NMED source ID=39997EQPT12 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=15-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E12 POINT 643202.176 3563401.64 0
SO SRCPARAM 39997E12 .0075599 3.96 1085.93 82.3 .13
** NMED source ID=39997EQPT13 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=15-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E13 POINT 643195.39 3563405.192 0
SO SRCPARAM 39997E13 .0088199 3.96 1003.71 82.91 .13
** NMED source ID=39997EQPT14 Facility's ID=HTR-2
** Description=Heater Construction date=15-JUN-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E14 VOLUME 643187.793 3563403.1 0
SO SRCPARAM 39997E14 .00126 4.88 .47 .93
**********END OF 39997: Galleon 21 Fed Com CTB
INFO**********************************
************************************************************
** 4.29km away. Facility ID=39074 Name=Kaiser - South Bell Lake Pad 0
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.248226, -103.533656, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=39074EQPT1 Facility's ID=HTR-1
```

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** Description=0.75 MM BTU/hr Heater Treater Construction date=18-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39074E1 VOLUME 638136.129 3568893.595 0
SO SRCPARAM 39074E1 .00126 4.57 .47 .93
** NMED source ID=39074EQPT6 Facility's ID=HTR-2
** Description=0.75 MM BTU/hr Heater Treater Construction date=02-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39074E6 VOLUME 638143.665 3568900.616 0
SO SRCPARAM 39074E6 .00126 4.57 .47 .93
**********END OF 39074: Kaiser - South Bell Lake Pad 0
INFO************************************
************************************************************
** 4.31km away. Facility ID=39857 Name=EOG - Frazier 27 State Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1908, -103.5632, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=39857EQPT4 Facility's ID=HT-1
** Description=Heater Treater Construction date=23-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39857E4 VOLUME 635437.833 3562489.629 0
SO SRCPARAM 39857E4 .00126 5.18 .47 .93
**********END OF 39857: EOG - Frazier 27 State Com CTB
INFO************************************
************************************************************
** 4.4km away. Facility ID=40031 Name=Achilles Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.204215, -103.570033, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=5.11tons/year
*****************Facility sources: ******************************
** NMED source ID=40031EQPT2 Facility's ID=RBL-1
** Description=Dehy Reboiler (1.5 MMBTU/hr) Construction date=24-JUN-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 40031E2 POINT 634773.89 3563968.242 0
SO SRCPARAM 40031E2 .00252 3.05 588.71 3.99 .3
** NMED source ID=40031EQPT6 Facility's ID=ENG-3
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8171hr/yr, 22hr/day
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SO LOCATION 40031E6 POINT 634781.426 3563975.263 0
SO SRCPARAM 40031E6 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT7 Facility's ID=ENG-4
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2417hr/yr, 7hr/day
SO LOCATION 40031E7 POINT 634774.64 3563978.815 0
SO SRCPARAM 40031E7 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT8 Facility's ID=ENG-5
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8354hr/yr, 23hr/day
SO LOCATION 40031E8 POINT 634767.043 3563976.723 0
SO SRCPARAM 40031E8 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT9 Facility's ID=ENG-6
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6577hr/yr, 18hr/day
SO LOCATION 40031E9 POINT 634762.802 3563969.823 0
SO SRCPARAM 40031E9 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT10 Facility's ID=ENG-7
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6665hr/yr, 18hr/day
SO LOCATION 40031E10 POINT 634764.454 3563961.669 0
SO SRCPARAM 40031E10 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT11 Facility's ID=ENG-8
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8397hr/yr, 23hr/day
SO LOCATION 40031E11 POINT 634771.403 3563956.707 0
SO SRCPARAM 40031E11 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT12 Facility's ID=ENG-9
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40031E12 POINT 634780.086 3563957.849 0
SO SRCPARAM 40031E12 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT13 Facility's ID=ENG-10
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=01-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40031E13 POINT 634785.796 3563964.777 0
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SO SRCPARAM 40031E13 .0163797 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT14 Facility's ID=ENG-11
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=01-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40031E14 POINT 634785.231 3563973.958 0
SO SRCPARAM 40031E14 .0163797 7.01 718.15 33.95 .46
**********END OF 40031: Achilles Compressor Station
INFO**********************************
************************************************************
** 4.41km away. Facility ID=37544 Name=South Bell Lake Pad 11
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.245417, -103.50175, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.7tons/year
*****************Facility sources: ******************************
** NMED source ID=37544EQPT5 Facility's ID=HT-1
** Description=Heater treater Construction date=19-JUN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37544E5 POINT 641146.456 3568623.685 0
SO SRCPARAM 37544E5 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT15 Facility's ID=HT-3
** Description=Heater Treater Construction date=19-JUN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37544E15 POINT 641153.992 3568630.706 0
SO SRCPARAM 37544E15 .00252 4.57 294.26 10.44 .09
** NMED source ID=37544EQPT16 Facility's ID=HT-2
** Description=Heater Treater Construction date=19-JUN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37544E16 POINT 641147.206 3568634.258 0
SO SRCPARAM 37544E16 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT19 Facility's ID=HT-4
** Description=Heater Treater Construction date=28-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6816hr/yr, 24hr/day
SO LOCATION 37544E19 POINT 641139.609 3568632.166 0
SO SRCPARAM 37544E19 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT20 Facility's ID=HS-1
** Description=Heated separator Construction date=28-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6816hr/yr, 24hr/day
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SO LOCATION 37544E20 POINT 641135.368 3568625.266 0
SO SRCPARAM 37544E20 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT21 Facility's ID=HS-2
** Description=Heated separator Construction date=28-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6816hr/yr, 24hr/day
SO LOCATION 37544E21 POINT 641137.02 3568617.112 0
SO SRCPARAM 37544E21 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT22 Facility's ID=HS-3
** Description=Heated separator Construction date=28-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6816hr/yr, 24hr/day
SO LOCATION 37544E22 POINT 641143.969 3568612.15 0
SO SRCPARAM 37544E22 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT23 Facility's ID=HS-4
** Description=Heated separator Construction date=28-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6816hr/yr, 24hr/day
SO LOCATION 37544E23 POINT 641152.652 3568613.292 0
SO SRCPARAM 37544E23 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT29 Facility's ID=HT-5
** Description=Heater Treater Construction date=11-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37544E29 POINT 641158.362 3568620.22 0
SO SRCPARAM 37544E29 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544EQPT30 Facility's ID=HT-6
** Description=Heater Treater Construction date=11-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37544E30 POINT 641157.797 3568629.401 0
SO SRCPARAM 37544E30 .00252 4.57 644.26 10.44 .09
** NMED source ID=37544RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=11-OCT-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37544R3 VOLUME 641150.962 3568635.879 0
SO SRCPARAM 37544R3 .0062999 10 10 9.3
**********END OF 37544: South Bell Lake Pad 11
INFO**********************************
************************************************************
** 4.43km away. Facility ID=34824 Name=Plantview Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=6036 NSR
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** lat,long,datum=32.244011, -103.549392, Unknown
** Total Particulate Matter (2.5 microns or less) emissions=.7tons/year
*****************Facility sources: ****************************
** NMED source ID=34824EQPT25 Facility's ID=Reboil-3
** Description=Amine Unit Reboiler 21 MMBtu/hr Construction date=03-JAN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34824E25 POINT 636659.903 3568406.17 0
SO SRCPARAM 34824E25 .0201345 9.14 588.71 .24 .71
**********END OF 34824: Plantview Compressor Station
INFO*********************************
************************************************************
** 4.44km away. Facility ID=33935 Name=EOG - Mars 3 State No 1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.239936, -103.555808, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=33935AREA1 Facility's ID=HAUL
** Description=Haul Road Emissions Construction date=28-AUG-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8040hr/yr, 24hr/day
SO LOCATION 33935A1 VOLUME 636061.48 3567946.258 0
SO SRCPARAM 33935A1 .00126 1 .47 .93
**********END OF 33935: EOG - Mars 3 State No 1H
INFO*********************************
************************************************************
** 4.51km away. Facility ID=40078 Name=Apollo D CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199522, -103.569978, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.94tons/year
*****************Facility sources: ****************************
** NMED source ID=40078AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=22-JUL-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40078A1 VOLUME 634785.996 3563448.04 0
SO SRCPARAM 40078A1 .0365394 10 30 9.3
** NMED source ID=40078EQPT3 Facility's ID=GEN-1
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40078E3 POINT 634793.532 3563455.061 0
SO SRCPARAM 40078E3 .0176397 4.57 1005.37 178 .1
** NMED source ID=40078EQPT4 Facility's ID=GEN-2
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** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40078E4 POINT 634786.746 3563458.613 0
SO SRCPARAM 40078E4 .0176397 4.57 1005.37 178 .1
** NMED source ID=40078EQPT7 Facility's ID=HT-1
** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40078E7 VOLUME 634779.149 3563456.521 0
SO SRCPARAM 40078E7 .0037799 4.57 .47 .93
** NMED source ID=40078EQPT8 Facility's ID=HT-2
** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40078E8 VOLUME 634774.908 3563449.621 0
SO SRCPARAM 40078E8 .0037799 4.57 .47 .93
** NMED source ID=40078EQPT19 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=04-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40078E19 POINT 634776.56 3563441.467 0
SO SRCPARAM 40078E19 .0125998 4.57 729.82 164.9 .2
**********END OF 40078: Apollo D CTB INFO**********************************
************************************************************
** 4.56km away. Facility ID=38567 Name=Diamond 31 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.17, -103.516703, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=38567EQPT20 Facility's ID=HTR-1
** Description=Heater Treater Construction date=16-JUL-18
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38567E20 VOLUME 639853.025 3560243.224 0
SO SRCPARAM 38567E20 .00126 6.1 .47 .93
**********END OF 38567: Diamond 31 Fed Com CTB
INFO**********************************
************************************************************
** 4.6km away. Facility ID=39075 Name=South Bell Lake Pad 10
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.247581, -103.502208, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.35tons/year
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*****************Facility sources: ****************************
** NMED source ID=39075EQPT1 Facility's ID=HT-1
** Description=Heater Treater Construction date=17-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39075E1 POINT 641099.957 3568862.991 0
SO SRCPARAM 39075E1 .00252 4.57 644.26 10.44 .09
** NMED source ID=39075EQPT7 Facility's ID=HT-2
** Description=Heater Treater Construction date=09-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39075E7 POINT 641107.493 3568870.012 0
SO SRCPARAM 39075E7 .00252 4.57 644.26 10.44 .09
** NMED source ID=39075EQPT8 Facility's ID=HT-3
** Description=Heater Treater Construction date=09-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39075E8 POINT 641100.707 3568873.564 0
SO SRCPARAM 39075E8 .00252 4.57 644.26 10.44 .09
** NMED source ID=39075EQPT9 Facility's ID=HT-4
** Description=Heater Treater Construction date=09-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39075E9 POINT 641093.11 3568871.472 0
SO SRCPARAM 39075E9 .00252 4.57 644.26 10.44 .09
** NMED source ID=39075EQPT31 Facility's ID=REB-1
** Description=Glycol Reboiler Construction date=21-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39075E31 POINT 641088.869 3568864.572 0
SO SRCPARAM 39075E31 .00252 4.57 644.26 10.44 .09
** NMED source ID=39075RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=21-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39075R3 VOLUME 641090.521 3568856.418 0
SO SRCPARAM 39075R3 .0062999 10 10 9.3
**********END OF 39075: South Bell Lake Pad 10
INFO**********************************
************************************************************
** 4.65km away. Facility ID=39461 Name=South Bell Lake Pad 13
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.244185, -103.494577, NAD83
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** Total Particulate Matter (2.5 microns or less) emissions=.35tons/year
*****************Facility sources: ****************************
** NMED source ID=39461EQPT10 Facility's ID=HS-1
** Description=2.0 MMBtu/h Heated Seperator Construction date=24-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2904hr/yr, 24hr/day
SO LOCATION 39461E10 VOLUME 641824.189 3568496.555 0
SO SRCPARAM 39461E10 .00252 4.57 .47 .93
** NMED source ID=39461EQPT11 Facility's ID=HS-2
** Description=2.0 MMBtu/h Heated Seperator Construction date=24-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2904hr/yr, 24hr/day
SO LOCATION 39461E11 VOLUME 641831.725 3568503.576 0
SO SRCPARAM 39461E11 .00252 4.57 .47 .93
** NMED source ID=39461EQPT12 Facility's ID=HT-1
** Description=2.0 MMBtu/h Heater Treater Construction date=24-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2904hr/yr, 24hr/day
SO LOCATION 39461E12 VOLUME 641824.939 3568507.128 0
SO SRCPARAM 39461E12 .00252 4.57 .47 .93
** NMED source ID=39461EQPT13 Facility's ID=HT-2
** Description=2.0 MMBtu/h Heater Treater Construction date=24-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2904hr/yr, 24hr/day
SO LOCATION 39461E13 VOLUME 641817.342 3568505.036 0
SO SRCPARAM 39461E13 .00252 4.57 .47 .93
** NMED source ID=39461EQPT15 Facility's ID=HT-3
** Description=2.0 MMBtu/h Heater Treater Construction date=08-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39461E15 VOLUME 641813.101 3568498.136 0
SO SRCPARAM 39461E15 .00252 4.57 .47 .93
** NMED source ID=39461RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=08-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39461R3 VOLUME 641814.753 3568489.982 0
SO SRCPARAM 39461R3 .0062999 10 10 9.3
**********END OF 39461: South Bell Lake Pad 13
INFO*************************************
************************************************************
** 4.67km away. Facility ID=35517 Name=Frazier 34 Hearns 27
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
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** lat,long,datum=32.183547, -103.561831, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=35517RPNT7 Facility's ID=HHAUL
** Description=Haul Road Fugitives Construction date=28-OCT-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35517R7 VOLUME 635577.645 3561687.28 0
SO SRCPARAM 35517R7 .0005796 1 .47 .93
**********END OF 35517: Frazier 34 Hearns 27
INFO***********************************
************************************************************
** 4.73km away. Facility ID=39577 Name=The Contest CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.229897, -103.479136, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.4tons/year
*****************Facility sources: ****************************
** NMED source ID=39577AREA1 Facility's ID=HR-1
** Description=Haul Roads Construction date=25-JUN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39577A1 VOLUME 643301.449 3566933.04 0
SO SRCPARAM 39577A1 .1763972 10 10 9.3
**********END OF 39577: The Contest CTB INFO***********************************
************************************************************
** 4.73km away. Facility ID=38830 Name=Zeus CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.225585, -103.570904, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.41tons/year
*****************Facility sources: ****************************
** NMED source ID=38830AREA4 Facility's ID=HR-1
** Description=Unpaved Haul Roads 1 Construction date=17-MAR-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830A4 VOLUME 634660.284 3566336.254 0
SO SRCPARAM 38830A4 .0088199 10 10 9.3
** NMED source ID=38830AREA5 Facility's ID=HR-2
** Description=Unpaved Haul Roads 2 Construction date=17-MAR-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830A5 VOLUME 634667.82 3566343.275 0
SO SRCPARAM 38830A5 .0050399 1 .47 .93
** NMED source ID=38830EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=01-JAN-20
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38830E1 VOLUME 634661.034 3566346.827 0
SO SRCPARAM 38830E1 .00126 3.66 .47 .93
** NMED source ID=38830EQPT2 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38830E2 VOLUME 634653.437 3566344.735 0
SO SRCPARAM 38830E2 .00126 3.66 .47 .93
** NMED source ID=38830EQPT9 Facility's ID=ENG-1
** Description=CAT 3516 1340 HP Compressor Engine Construction date=17-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E9 POINT 634649.196 3566337.835 0
SO SRCPARAM 38830E9 .0151198 4.57 834.26 216.1 .15
** NMED source ID=38830EQPT10 Facility's ID=ENG-2
** Description=145 HP CAT G3306NA Construction date=17-MAR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E10 POINT 634650.848 3566329.681 0
SO SRCPARAM 38830E10 .00252 3.66 831.48 37.19 .1
** NMED source ID=38830EQPT11 Facility's ID=ENG-3
** Description=145 HP CAT G3306NA Construction date=17-MAR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E11 POINT 634657.797 3566324.719 0
SO SRCPARAM 38830E11 .00252 3.66 831.48 37.19 .1
** NMED source ID=38830EQPT19 Facility's ID=HT-3
** Description=Heater Treater 3 Construction date=17-MAR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E19 VOLUME 634666.48 3566325.861 0
SO SRCPARAM 38830E19 .00126 3.66 .47 .93
** NMED source ID=38830EQPT20 Facility's ID=HT-4
** Description=Heater Treater 4 Construction date=17-MAR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E20 VOLUME 634672.19 3566332.789 0
SO SRCPARAM 38830E20 .00126 3.66 .47 .93
** NMED source ID=38830EQPT21 Facility's ID=HT-5
** Description=Heater Treater 5 Construction date=17-MAR-21
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E21 VOLUME 634671.625 3566341.97 0
SO SRCPARAM 38830E21 .00126 3.66 .47 .93
** NMED source ID=38830EQPT22 Facility's ID=HT-6
** Description=Heater Treater 6 Construction date=17-MAR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E22 VOLUME 634664.79 3566348.448 0
SO SRCPARAM 38830E22 .00126 7.32 .47 .93
** NMED source ID=38830EQPT55 Facility's ID=ENG-4
** Description=1380 HP Compressor Engine Construction date=28-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E55 POINT 634655.154 3566348.525 0
SO SRCPARAM 38830E55 .0125998 4.57 716.48 33.95 .38
**********END OF 38830: Zeus CTB INFO**********************************
************************************************************
** 4.86km away. Facility ID=37770 Name=EOG - Hearns Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.178322, -103.558642, Unknown
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=37770EQPT16 Facility's ID=HTR-1
** Description=Heater Treater, 0.5 MMBtu/hr Construction date=02-FEB-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37770E16 VOLUME 635886.065 3561112.057 0
SO SRCPARAM 37770E16 .0005796 5.18 .47 .93
**********END OF 37770: EOG - Hearns Localized Gas Lift Station
INFO**********************************
************************************************************
** 4.9km away. Facility ID=40077 Name=Tap Rock - Apollo C CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19954, -103.574285, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.83tons/year
*****************Facility sources: ******************************
** NMED source ID=40077AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=22-JUL-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40077A1 VOLUME 634379.979 3563444.643 0
SO SRCPARAM 40077A1 .0365394 10 30 9.3
** NMED source ID=40077EQPT1 Facility's ID=ENG-1
```

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** Description=Compressor Engine Construction date=22-JUL-21
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40077E1 POINT 634387.515 3563451.664 0
SO SRCPARAM 40077E1 .0125998 4.57 728.71 111.86 .2
** NMED source ID=40077EQPT4 Facility's ID=GEN-1
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40077E4 POINT 634380.729 3563455.216 0
SO SRCPARAM 40077E4 .0176397 4.57 1005.37 178 .1
** NMED source ID=40077EQPT5 Facility's ID=GEN-2
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40077E5 POINT 634373.132 3563453.124 0
SO SRCPARAM 40077E5 .0176397 4.57 1005.37 178 .1
** NMED source ID=40077EQPT6 Facility's ID=HT-1
** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40077E6 VOLUME 634368.891 3563446.224 0
SO SRCPARAM 40077E6 .0037799 4.57 .47 .93
** NMED source ID=40077EQPT7 Facility's ID=HT-2
** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40077E7 VOLUME 634370.543 3563438.07 0
SO SRCPARAM 40077E7 .0037799 4.57 .47 .93
**********END OF 40077: Tap Rock - Apollo C CTB
INFO**********************************
************************************************************
** 4.91km away. Facility ID=39465 Name=Bell Lake Unit South Pad 15
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.244141, -103.490027, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.7tons/year
*****************Facility sources: ****************************
** NMED source ID=39465EQPT19 Facility's ID=HS-1
** Description=Heated Separator Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E19 POINT 642252.951 3568497.697 0
SO SRCPARAM 39465E19 .00252 4.57 644.26 10.44 .09
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** NMED source ID=39465EQPT20 Facility's ID=HS-2
** Description=Heated Separator Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E20 POINT 642260.487 3568504.718 0
SO SRCPARAM 39465E20 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT21 Facility's ID=HS-3
** Description=Heated Separator Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E21 POINT 642253.701 3568508.27 0
SO SRCPARAM 39465E21 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT22 Facility's ID=HS-4
** Description=Heated Separator Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E22 POINT 642246.104 3568506.178 0
SO SRCPARAM 39465E22 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT23 Facility's ID=HT-1
** Description=Heater Treater Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E23 POINT 642241.863 3568499.278 0
SO SRCPARAM 39465E23 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT24 Facility's ID=HT-2
** Description=Heater Treater Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E24 POINT 642243.515 3568491.124 0
SO SRCPARAM 39465E24 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT25 Facility's ID=HT-3
** Description=Heater Treater Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E25 POINT 642250.464 3568486.162 0
SO SRCPARAM 39465E25 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT26 Facility's ID=HT-4
** Description=Heater Treater Construction date=03-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2808hr/yr, 24hr/day
SO LOCATION 39465E26 POINT 642259.147 3568487.304 0
SO SRCPARAM 39465E26 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT29 Facility's ID=HT-5
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** Description=Heater Treater Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39465E29 POINT 642264.857 3568494.232 0
SO SRCPARAM 39465E29 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465EQPT30 Facility's ID=HT-6
** Description=Heater Treater Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39465E30 POINT 642264.292 3568503.413 0
SO SRCPARAM 39465E30 .00252 4.57 644.26 10.44 .09
** NMED source ID=39465RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=02-OCT-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39465R3 VOLUME 642257.457 3568509.891 0
SO SRCPARAM 39465R3 .0062999 10 10 9.3
**********END OF 39465: Bell Lake Unit South Pad 15
INFO**********************************
************************************************************
** 4.92km away. Facility ID=40416 Name=Hawk 35 Fed South CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1711, -103.5474, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40416EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=26-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40416E2 VOLUME 636956.831 3560325.677 0
SO SRCPARAM 40416E2 .00126 4.88 .47 .93
** NMED source ID=40416EQPT10 Facility's ID=HTR-2
** Description=Heater Treater Construction date=03-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40416E10 VOLUME 636964.367 3560332.698 0
SO SRCPARAM 40416E10 .00126 4.88 .47 .93
**********END OF 40416: Hawk 35 Fed South CTB
INFO**********************************
************************************************************
** 4.92km away. Facility ID=39081 Name=Dillon 31 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.169, -103.506111, WGS84
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** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=39081EQPT9 Facility's ID=HTR-1
** Description=Heater Treater Construction date=08-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39081E9 POINT 640853.332 3560146.181 0
SO SRCPARAM 39081E9 .00126 6.1 588.71 .19 1.83
**********END OF 39081: Dillon 31 Fed Com CTB
INFO**********************************
************************************************************
** 5.06km away. Facility ID=38644 Name=Pirate State No301H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.211333, -103.470208, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=38644EQPT10 Facility's ID=HT-1
** Description=Heater Treater Construction date=13-JUN-18
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38644E10 VOLUME 644172.071 3564886.918 0
SO SRCPARAM 38644E10 .0005796 6.1 .47 .93
**********END OF 38644: Pirate State No301H
INFO**********************************
************************************************************
** 5.1km away. Facility ID=40536 Name=Sea Snake 35 Wellpad 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9676 NOI
** lat,long,datum=32.254583, -103.538913, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.5tons/year
*****************Facility sources: ******************************
** NMED source ID=40536EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40536E1 POINT 637631.257 3569591.595 0
SO SRCPARAM 40536E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=40536EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40536E2 POINT 637638.793 3569598.616 0
SO SRCPARAM 40536E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40536: Sea Snake 35 Wellpad 6
INFO**********************************
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************************************************************
** 5.15km away. Facility ID=38141 Name=Pirate State No 101H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.211253, -103.469167, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.24tons/year
*****************Facility sources: ****************************
** NMED source ID=38141EQPT5 Facility's ID=H-1
** Description=heater treater; 1.0 MMBtu/h Construction date=05-DEC-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7176hr/yr, 24hr/day
SO LOCATION 38141E5 VOLUME 644270.314 3564879.446 0
SO SRCPARAM 38141E5 .00126 4.57 .47 .93
** NMED source ID=38141EQPT6 Facility's ID=ECD
** Description=Enclosed Combustion Device: 14.87 Mscf/h Construction date=04-DEC-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38141E6 POINT 644277.85 3564886.467 0
SO SRCPARAM 38141E6 .0043091 6.1 1273 20 .84
** NMED source ID=38141RPNT1 Facility's ID=HAUL
** Description=Haul Roads Construction date=06-DEC-17
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38141R1 VOLUME 644271.064 3564890.019 0
SO SRCPARAM 38141R1 .0017262 10 10 9.3
**********END OF 38141: Pirate State No 101H
INFO**********************************
************************************************************
** 5.22km away. Facility ID=38448 Name=Stonewall 28 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.192528, -103.472713, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.62tons/year
*****************Facility sources: ****************************
** NMED source ID=38448EQPT16 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8746hr/yr, 24hr/day
SO LOCATION 38448E16 VOLUME 643965.59 3562798.778 0
SO SRCPARAM 38448E16 .00126 4.88 .47 .93
** NMED source ID=38448EQPT17 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=06-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E17 POINT 643973.126 3562805.799 0
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SO SRCPARAM 38448E17 .0075599 3.96 803.71 59.13 .13
** NMED source ID=38448EQPT18 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=06-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E18 POINT 643966.34 3562809.351 0
SO SRCPARAM 38448E18 .0088199 3.96 1003.71 82.91 .13
** NMED source ID=38448EQPT20 Facility's ID=HTR-2
** Description=Heater Treater Construction date=06-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E20 VOLUME 643958.743 3562807.259 0
SO SRCPARAM 38448E20 .00126 4.88 .47 .93
** NMED source ID=38448EQPT21 Facility's ID=HTR-3
** Description=Heater Treater Construction date=06-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E21 VOLUME 643954.502 3562800.359 0
SO SRCPARAM 38448E21 .00126 4.88 .47 .93
**********END OF 38448: Stonewall 28 Fed Com CTB
INFO************************************
************************************************************
** 5.24km away. Facility ID=39956 Name=Bald Eagle LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1839, -103.4781, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.28tons/year
*****************Facility sources: ******************************
** NMED source ID=39956EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine CAT G3606 Construction date=04-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E2 POINT 643471.284 3561835.053 0
SO SRCPARAM 39956E2 .0163797 8.53 719.26 27.49 .51
** NMED source ID=39956EQPT9 Facility's ID=HTR-1
** Description=Seperator Heater Construction date=04-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E9 POINT 643478.82 3561842.074 0
SO SRCPARAM 39956E9 .00126 6.1 588.71 .11 1.83
** NMED source ID=39956EQPT11 Facility's ID=RBL-1
** Description=Dehy Reboiler Construction date=04-MAY-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39956E11 POINT 643472.034 3561845.626 0
SO SRCPARAM 39956E11 .00126 2.44 588.71 .22 1.07
** NMED source ID=39956EQPT16 Facility's ID=ENG-2
** Description=Compressor Engine CAT G3608 Construction date=05-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E16 POINT 643464.437 3561843.534 0
SO SRCPARAM 39956E16 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39956EQPT17 Facility's ID=ENG-3
** Description=Compressor Engine CAT G3608 Construction date=05-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E17 POINT 643460.196 3561836.634 0
SO SRCPARAM 39956E17 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39956EQPT18 Facility's ID=ENG-4
** Description=Compressor Engine CAT G3608 Construction date=05-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E18 POINT 643461.848 3561828.48 0
SO SRCPARAM 39956E18 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39956EQPT19 Facility's ID=ENG-5
** Description=Compressor Engine CAT G3608 Construction date=05-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E19 POINT 643468.797 3561823.518 0
SO SRCPARAM 39956E19 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39956EQPT20 Facility's ID=ENG-6
** Description=Compressor Engine CAT G3608 Construction date=05-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E20 POINT 643477.48 3561824.66 0
SO SRCPARAM 39956E20 .0214197 8.84 688.15 25.09 .61
**********END OF 39956: Bald Eagle LGL Station
INFO***********************************
************************************************************
** 5.25km away. Facility ID=38489 Name=Pirate State Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.203228, -103.468788, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=3.21tons/year
*****************Facility sources: ****************************
** NMED source ID=38489EQPT1 Facility's ID=1
** Description=Compressor Engine CAT G3516 1380 hp w/catalyst Construction
date=29-JUN-18
** SCC=20200254
```

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7988hr/yr, 22hr/day
SO LOCATION 38489E1 POINT 644318.711 3563990.277 0
SO SRCPARAM 38489E1 .0125998 7.37 725.93 29.93 .41
** NMED source ID=38489EQPT2 Facility's ID=2
** Description=Compressor Engine CAT G3516 1380 hp w/catalyst Construction
date=29-JUN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38489E2 POINT 644326.247 3563997.298 0
SO SRCPARAM 38489E2 .0125998 7.37 725.93 29.93 .41
** NMED source ID=38489EQPT6 Facility's ID=6
** Description=Dehydrator Reboiler 1, 0.75 MMBtu/hr Construction date=29-JUN-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8219hr/yr, 23hr/day
SO LOCATION 38489E6 POINT 644319.461 3564000.85 0
SO SRCPARAM 38489E6 .00126 3.05 588.71 1.34 .3
** NMED source ID=38489EQPT7 Facility's ID=7
** Description=Glycol Reboiler Construction date=29-JUN-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8640hr/yr, 24hr/day
SO LOCATION 38489E7 POINT 644311.864 3563998.758 0
SO SRCPARAM 38489E7 .0005796 3.05 588.71 1.34 .3
** NMED source ID=38489EQPT11 Facility's ID=14
** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8298hr/yr, 23hr/day
SO LOCATION 38489E11 POINT 644307.623 3563991.858 0
SO SRCPARAM 38489E11 .0163797 7.01 707.59 33.83 .46
** NMED source ID=38489EQPT12 Facility's ID=15
** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8371hr/yr, 23hr/day
SO LOCATION 38489E12 POINT 644309.275 3563983.704 0
SO SRCPARAM 38489E12 .0163797 7.01 707.59 33.83 .46
** NMED source ID=38489EQPT13 Facility's ID=16
** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7262hr/yr, 20hr/day
SO LOCATION 38489E13 POINT 644316.224 3563978.742 0
SO SRCPARAM 38489E13 .0163797 7.01 707.59 33.83 .46
** NMED source ID=38489EQPT19 Facility's ID=19
** Description=Glycol Reboiler Construction date=23-MAY-19
** SCC=31000302
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8640hr/yr, 24hr/day
SO LOCATION 38489E19 POINT 644324.907 3563979.884 0
SO SRCPARAM 38489E19 .0005796 3.05 588.71 1.98 .3
** NMED source ID=38489EQPT20 Facility's ID=22
** Description=Combustor Construction date=26-DEC-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38489E20 POINT 644330.617 3563986.812 0
SO SRCPARAM 38489E20 .0002898 7.62 1273 20 20.806
** NMED source ID=38489EQPT21 Facility's ID=23
** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8307hr/yr, 23hr/day
SO LOCATION 38489E21 POINT 644330.052 3563995.993 0
SO SRCPARAM 38489E21 .0163797 7.01 707.59 33.83 .46
**********END OF 38489: Pirate State Compressor Station
INFO**********************************
************************************************************
** 5.26km away. Facility ID=40537 Name=Sea Snake 35 Wellpad 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9677 NOI
** lat,long,datum=32.254438, -103.544605, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.5tons/year
*****************Facility sources: ******************************
** NMED source ID=40537EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40537E1 POINT 637095.25 3569568.235 0
SO SRCPARAM 40537E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=40537EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40537E2 POINT 637102.786 3569575.256 0
SO SRCPARAM 40537E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40537: Sea Snake 35 Wellpad 5
INFO**********************************
************************************************************
** 5.28km away. Facility ID=5694 Name=Keystone 6 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.16445, -103.510687, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.61tons/year
*****************Facility sources: ******************************
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** NMED source ID=5694EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5694E1 POINT 640428.817 3559635.778 0
SO SRCPARAM 5694E1 .0075599 3.96 803.71 58.52 .13
** NMED source ID=5694EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5694E2 POINT 640436.353 3559642.799 0
SO SRCPARAM 5694E2 .0088199 3.96 1003.71 82.3 .13
** NMED source ID=5694EQPT4 Facility's ID=HTR-1
** Description=Heater Treater Construction date=12-JUL-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5694E4 VOLUME 640429.567 3559646.351 0
SO SRCPARAM 5694E4 .00126 7.32 .47 .93
** NMED source ID=5694EQPT5 Facility's ID=HTR-2
** Description=Heater Treater Construction date=12-JUL-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5694E5 VOLUME 640421.97 3559644.259 0
SO SRCPARAM 5694E5 .00126 4.88 .47 .93
**********END OF 5694: Keystone 6 Fed Com CTB
INFO**********************************
************************************************************
** 5.29km away. Facility ID=40081 Name=Apollo B CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199573, -103.578517, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.94tons/year
*****************Facility sources: ****************************
** NMED source ID=40081AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=22-JUL-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40081A1 VOLUME 633981.01 3563443.019 0
SO SRCPARAM 40081A1 .0365394 10 30 9.3
** NMED source ID=40081EQPT4 Facility's ID=GEN-1
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40081E4 POINT 633988.546 3563450.04 0
```

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SO SRCPARAM 40081E4 .0176397 4.57 1005.37 178 .1
** NMED source ID=40081EQPT5 Facility's ID=GEN-2
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40081E5 POINT 633981.76 3563453.592 0
SO SRCPARAM 40081E5 .0176397 4.57 1005.37 178 .1
** NMED source ID=40081EQPT6 Facility's ID=HT-1
** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40081E6 VOLUME 633974.163 3563451.5 0
SO SRCPARAM 40081E6 .0037799 4.57 .47 .93
** NMED source ID=40081EQPT7 Facility's ID=HT-2
** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40081E7 VOLUME 633969.922 3563444.6 0
SO SRCPARAM 40081E7 .0037799 4.57 .47 .93
** NMED source ID=40081EQPT18 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=01-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40081E18 POINT 633971.574 3563436.446 0
SO SRCPARAM 40081E18 .0125998 4.57 729.82 164.9 .2
**********END OF 40081: Apollo B CTB INFO**********************************
************************************************************
** 5.3km away. Facility ID=39360 Name=Poseidon A CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.227263, -103.576644, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.04tons/year
*****************Facility sources: ****************************
** NMED source ID=39360AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Roads Construction date=11-FEB-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39360A1 VOLUME 634116.904 3566515.098 0
SO SRCPARAM 39360A1 .0365394 10 30 9.3
** NMED source ID=39360EQPT3 Facility's ID=HT-1
** Description=1.0 MMBtu/h Heater Treater Construction date=11-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7320hr/yr, 24hr/day
SO LOCATION 39360E3 VOLUME 634124.44 3566522.119 0
```

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SO SRCPARAM 39360E3 .00126 6.1 .47 .93
** NMED source ID=39360EQPT19 Facility's ID=ENG-2
** Description=CAT G3516 1380 hp compressor engine Construction date=18-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39360E19 POINT 634117.654 3566525.671 0
SO SRCPARAM 39360E19 .0125998 3.66 724.82 110.31 .2
** NMED source ID=39360EQPT21 Facility's ID=HT-2
** Description=3.0 MMBtu/h Heater Treater Construction date=18-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39360E21 VOLUME 634110.057 3566523.579 0
SO SRCPARAM 39360E21 .0037799 6.1 .47 .93
** NMED source ID=39360EQPT22 Facility's ID=ENG-3
** Description=CAT G3516 1380 hp compressor engine Construction date=24-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39360E22 POINT 634105.816 3566516.679 0
SO SRCPARAM 39360E22 .0125998 3.66 724.82 110.31 .2
**********END OF 39360: Poseidon A CTB INFO**********************************
************************************************************
** 5.33km away. Facility ID=39975 Name=Raider Fed 502/701H Central Tank Battery
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1966, -103.469734, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.33tons/year
*****************Facility sources: ****************************
** NMED source ID=39975EQPT1 Facility's ID=HT-1
** Description=0.5 MMBtu/hr Heater Treater Construction date=13-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39975E1 VOLUME 644240.001 3563254.206 0
SO SRCPARAM 39975E1 .00126 6.1 .47 .93
** NMED source ID=39975EQPT10 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=01-AUG-21
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39975E10 POINT 644247.537 3563261.227 0
SO SRCPARAM 39975E10 .0088199 4.57 812.59 42.28 .15
**********END OF 39975: Raider Fed 502/701H Central Tank Battery
INFO**********************************
************************************************************
** 5.34km away. Facility ID=38358 Name=Convoy Central CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
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** lat,long,datum=32.1921, -103.5762, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.28tons/year
*****************Facility sources: ****************************
** NMED source ID=38358EQPT17 Facility's ID=HTR-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38358E17 VOLUME 634210.388 3562617.446 0
SO SRCPARAM 38358E17 .0002898 7.32 .47 .93
** NMED source ID=38358EQPT20 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=10-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38358E20 POINT 634217.924 3562624.467 0
SO SRCPARAM 38358E20 .0075599 3.96 1085.93 82.3 .13
** NMED source ID=38358EQPT22 Facility's ID=HTR-2
** Description=Heater Construction date=10-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38358E22 VOLUME 634211.138 3562628.019 0
SO SRCPARAM 38358E22 .0002898 4.88 .47 .93
**********END OF 38358: Convoy Central CTB INFO************************************
************************************************************
** 5.38km away. Facility ID=40752 Name=Lacey Swiss 1 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1624, -103.5283, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=40752EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=26-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40752E2 VOLUME 638771.018 3559385.66 0
SO SRCPARAM 40752E2 .00126 6.1 .47 .93
**********END OF 40752: Lacey Swiss 1 Fed Com CTB
INFO**********************************
************************************************************
** 5.39km away. Facility ID=40213 Name=Kaiser - South Bell Lake Pad 14
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.247938, -103.487496, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40213EQPT2 Facility's ID=HT-1
** Description=Heater Treater` Construction date=04-NOV-21
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40213E2 POINT 642485.487 3568922.003 0
SO SRCPARAM 40213E2 .00126 4.57 369.82 7.99 .09
** NMED source ID=40213EQPT3 Facility's ID=HT-2
** Description=Heater Treater` Construction date=04-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40213E3 POINT 642493.023 3568929.024 0
SO SRCPARAM 40213E3 .00126 4.57 369.82 7.99 .09
**********END OF 40213: Kaiser - South Bell Lake Pad 14
INFO**********************************
************************************************************
** 5.41km away. Facility ID=40324 Name=Sea Snake 35 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.256561, -103.542309, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.28tons/year
*****************Facility sources: ****************************
** NMED source ID=40324EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=16-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40324E2 VOLUME 637308.353 3569806.531 0
SO SRCPARAM 40324E2 .00252 9.14 .47 .93
** NMED source ID=40324RPNT4 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=16-MAR-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40324R4 VOLUME 637315.889 3569813.552 0
SO SRCPARAM 40324R4 .0277196 10 20 9.3
**********END OF 40324: Sea Snake 35 CTB 3 INFO**********************************
************************************************************
** 5.42km away. Facility ID=38349 Name=Cobalt 32 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.16945, -103.49298, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.64tons/year
*****************Facility sources: ****************************
** NMED source ID=38349EQPT6 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=28-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E6 POINT 642090.831 3560213.337 0
SO SRCPARAM 38349E6 .0075599 3.96 803.71 59.13 .13
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** NMED source ID=38349EQPT7 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=28-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E7 POINT 642098.367 3560220.358 0
SO SRCPARAM 38349E7 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=38349EQPT18 Facility's ID=HTR-1
** Description=Heater Treater Construction date=28-AUG-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E18 VOLUME 642091.581 3560223.91 0
SO SRCPARAM 38349E18 .00126 7.32 .47 .93
** NMED source ID=38349EQPT19 Facility's ID=HTR-2
** Description=Heater Treater Construction date=28-AUG-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E19 VOLUME 642083.984 3560221.818 0
SO SRCPARAM 38349E19 .00126 4.88 .47 .93
** NMED source ID=38349EQPT20 Facility's ID=HTR-3
** Description=Heater Treater Construction date=28-AUG-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E20 VOLUME 642079.743 3560214.918 0
SO SRCPARAM 38349E20 .00126 4.88 .47 .93
**********END OF 38349: Cobalt 32 State CTB
INFO**********************************
************************************************************
** 5.46km away. Facility ID=39031 Name=Pirate State CTB1
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223875, -103.468111, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.29tons/year
*****************Facility sources: ****************************
** NMED source ID=39031EQPT14 Facility's ID=ENG-1
** Description=Caterpillar CG137-8 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 39031E14 POINT 644349.894 3566280.184 0
SO SRCPARAM 39031E14 .0075599 3.66 807.59 15.24 .25
** NMED source ID=39031EQPT17 Facility's ID=HT-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 39031E17 VOLUME 644357.43 3566287.205 0
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SO SRCPARAM 39031E17 .00126 3.96 .47 .93
**********END OF 39031: Pirate State CTB1 INFO**********************************
************************************************************
** 5.5km away. Facility ID=39420 Name=EOG - Stonewall Northeast 28 Fe Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.195, -103.4685, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.6tons/year
*****************Facility sources: ******************************
** NMED source ID=39420AREA1 Facility's ID=HAUL
** Description=Haul Road Construction date=18-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39420A1 VOLUME 644358.854 3563078.481 0
SO SRCPARAM 39420A1 .0460271 1 .47 .93
**********END OF 39420: EOG - Stonewall Northeast 28 Fe Com CTB
INFO**********************************
************************************************************
** 5.56km away. Facility ID=38706 Name=Raider Federal Com No101H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.196067, -103.467442, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=38706EQPT5 Facility's ID=HT-1
** Description=0.5 MMBtu/h Heater Treater Construction date=20-NOV-20
** SCC=unknown
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8088hr/yr, 24hr/day
SO LOCATION 38706E5 VOLUME 644456.905 3563198.194 0
SO SRCPARAM 38706E5 .0005796 3.96 .47 .93
**********END OF 38706: Raider Federal Com No101H
INFO**********************************
************************************************************
** 5.57km away. Facility ID=39958 Name=Raider Fed Com CTB No 2
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.197222, -103.466944, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.29tons/year
*****************Facility sources: ******************************
** NMED source ID=39958EQPT2 Facility's ID=HT-1
** Description=1 MMBtu/h Heater Treater Construction date=26-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39958E2 VOLUME 644502.025 3563326.91 0
SO SRCPARAM 39958E2 .00126 3.96 .47 .93
** NMED source ID=39958EQPT18 Facility's ID=ENG-1
** Description=CAT G3306B 203 hp compressor engine Construction date=26-JUL-21
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39958E18 POINT 644509.561 3563333.931 0
SO SRCPARAM 39958E18 .0075599 3.66 799.82 15.15 .25
**********END OF 39958: Raider Fed Com CTB No 2
INFO**********************************
************************************************************
** 5.58km away. Facility ID=40214 Name=Kaiser-Francis - South Bell Lake Pad 16
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.247871, -103.484399, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40214EQPT2 Facility's ID=HT-1
** Description=Heater Treater Construction date=08-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40214E2 POINT 642777.375 3568918.69 0
SO SRCPARAM 40214E2 .00126 4.57 369.82 7.99 .09
** NMED source ID=40214EQPT3 Facility's ID=HT-2
** Description=Heater Treater Construction date=08-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40214E3 POINT 642784.911 3568925.711 0
SO SRCPARAM 40214E3 .00126 4.57 369.82 7.99 .09
**********END OF 40214: Kaiser-Francis - South Bell Lake Pad 16
INFO**********************************
************************************************************
** 5.62km away. Facility ID=38295 Name=Romeo Federal Com No1H and No701H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.209192, -103.464233, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.29tons/year
*****************Facility sources: ****************************
** NMED source ID=38295EQPT3 Facility's ID=HT-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7128hr/yr, 24hr/day
SO LOCATION 38295E3 POINT 644738.623 3564657.592 0
SO SRCPARAM 38295E3 .00126 3.96 588.71 2.26 .3
** NMED source ID=38295EQPT11 Facility's ID=ENG-1
** Description=CAT CG137-8, 400 hp Construction date=12-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38295E11 POINT 644746.159 3564664.613 0
```

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SO SRCPARAM 38295E11 .0075599 3.66 802.59 15.1 .25
**********END OF 38295: Romeo Federal Com No1H and No701H
INFO**********************************
************************************************************
** 5.68km away. Facility ID=40380 Name=Helios Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.2043, -103.5837, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.25tons/year
*****************Facility sources: ****************************
** NMED source ID=40380EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=02-MAR-09
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E2 POINT 633485.541 3563960.609 0
SO SRCPARAM 40380E2 .0151198 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=16-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E3 POINT 633493.077 3563967.63 0
SO SRCPARAM 40380E3 .0151198 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=16-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E4 POINT 633486.291 3563971.182 0
SO SRCPARAM 40380E4 .0151198 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=16-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E5 POINT 633478.694 3563969.09 0
SO SRCPARAM 40380E5 .0151198 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=16-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E6 POINT 633474.453 3563962.19 0
SO SRCPARAM 40380E6 .0151198 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=16-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 40380E7 POINT 633476.105 3563954.036 0
SO SRCPARAM 40380E7 .0151198 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT9 Facility's ID=RBL-1
** Description=Dehydrator Reboiler Construction date=16-OCT-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5700hr/yr, 16hr/day
SO LOCATION 40380E9 POINT 633483.054 3563949.074 0
SO SRCPARAM 40380E9 .00252 3.05 588.71 3.99 .3
**********END OF 40380: Helios Compressor Station
INFO**********************************
************************************************************
** 5.73km away. Facility ID=38561 Name=Flowmaster 3H 6H 7H CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223861, -103.465111, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.16tons/year
****************Facility sources: ******************************
** NMED source ID=38561EQPT2 Facility's ID=HTR-1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38561E2 VOLUME 644632.636 3566282.667 0
SO SRCPARAM 38561E2 .00126 4.57 .47 .93
** NMED source ID=38561EQPT3 Facility's ID=ENG-1
** Description=Compressor Engine 1 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8678hr/yr, 24hr/day
SO LOCATION 38561E3 POINT 644640.172 3566289.688 0
SO SRCPARAM 38561E3 .0037799 4.51 1000.37 72.33 .13
** NMED source ID=38561RPNT2 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38561R2 VOLUME 644633.386 3566293.24 0
SO SRCPARAM 38561R2 .0002898 1 .47 .93
**********END OF 38561: Flowmaster 3H 6H 7H CTB
INFO**********************************
************************************************************
** 5.73km away. Facility ID=39005 Name=Durango 2 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1616, -103.5427, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.64tons/year
****************Facility sources: ******************************
** NMED source ID=39005EQPT7 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39005E7 VOLUME 637414.271 3559278.491 0
SO SRCPARAM 39005E7 .00126 4.88 .47 .93
** NMED source ID=39005EQPT8 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8679hr/yr, 24hr/day
SO LOCATION 39005E8 VOLUME 637421.807 3559285.512 0
SO SRCPARAM 39005E8 .00126 7.32 .47 .93
** NMED source ID=39005EQPT18 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=17-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39005E18 POINT 637415.021 3559289.064 0
SO SRCPARAM 39005E18 .0075599 3.96 803.71 59.13 .13
** NMED source ID=39005EQPT19 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=17-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39005E19 POINT 637407.424 3559286.972 0
SO SRCPARAM 39005E19 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=39005EQPT20 Facility's ID=HTR-3
** Description=Heater Treater Construction date=17-JUL-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39005E20 VOLUME 637403.183 3559280.072 0
SO SRCPARAM 39005E20 .00126 4.88 .47 .93
**********END OF 39005: Durango 2 State CTB
INFO**********************************
************************************************************
** 5.76km away. Facility ID=40080 Name=Tap Rock - Apollo A CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199604, -103.583619, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.83tons/year
*****************Facility sources: ******************************
** NMED source ID=40080AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=22-JUL-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40080A1 VOLUME 633500.036 3563440.108 0
SO SRCPARAM 40080A1 .0365394 10 30 9.3
** NMED source ID=40080EQPT1 Facility's ID=ENG-1
```

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** Description=Compressor Engine Construction date=22-JUL-21
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40080E1 POINT 633507.572 3563447.129 0
SO SRCPARAM 40080E1 .0125998 4.57 728.71 111.86 .2
** NMED source ID=40080EQPT4 Facility's ID=GEN-1
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40080E4 POINT 633500.786 3563450.681 0
SO SRCPARAM 40080E4 .0176397 4.57 1005.37 178 .1
** NMED source ID=40080EQPT5 Facility's ID=GEN-2
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40080E5 POINT 633493.189 3563448.589 0
SO SRCPARAM 40080E5 .0176397 4.57 1005.37 178 .1
** NMED source ID=40080EQPT6 Facility's ID=HT-1
** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40080E6 VOLUME 633488.948 3563441.689 0
SO SRCPARAM 40080E6 .0037799 4.57 .47 .93
** NMED source ID=40080EQPT7 Facility's ID=HT-2
** Description=Heater Treater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40080E7 VOLUME 633490.6 3563433.535 0
SO SRCPARAM 40080E7 .0037799 4.57 .47 .93
**********END OF 40080: Tap Rock - Apollo A CTB
INFO**********************************
************************************************************
** 5.89km away. Facility ID=38110 Name=Area 4 Central Tank Battery
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.244282, -103.572043, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.18tons/year
*****************Facility sources: ****************************
** NMED source ID=38110RPNT2 Facility's ID=ROAD
** Description=Haul Road Fugitives Construction date=31-JUL-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38110R2 VOLUME 634525.388 3568407.605 0
SO SRCPARAM 38110R2 .0050399 1 .47 .93
```

**********END OF 38110: Area 4 Central Tank Battery
INFO**********
**********
** 5.98km away. Facility ID=38785 Name=Flowmaster Fee 24-34-15 2H-14H-15H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.211906, -103.460372, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.2tons/year
**********Facility sources: **********
** NMED source ID=38785EQPT2 Facility's ID=HTR-1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38785E2 VOLUME 645098.231 3564963.683 0
SO SRCPARAM 38785E2 .00126 6.1 .47 .93
** NMED source ID=38785EQPT3 Facility's ID=ENG-01
** Description=Gas Lift Compressor Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7815hr/yr, 24hr/day
SO LOCATION 38785E3 POINT 645105.767 3564970.704 0
SO SRCPARAM 38785E3 .0037799 3.84 744.26 74.62 .09
** NMED source ID=38785EQPT7 Facility's ID=ENG-02
** Description=VRU Engine Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7030hr/yr, 24hr/day
SO LOCATION 38785E7 POINT 645098.981 3564974.256 0
SO SRCPARAM 38785E7 .00126 3.84 846.48 145.91 .09
** NMED source ID=38785RPNT2 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38785R2 VOLUME 645091.384 3564972.164 0
SO SRCPARAM 38785R2 .0002898 1 .47 .93
**********END OF 38785: Flowmaster Fee 24-34-15 2H-14H-15H
INFO**********
**********
** 5.98km away. Facility ID=38330 Name=Flowmaster 24-34-15 4H-8H-5H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223861, -103.462389, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.2tons/year
**********Facility sources: **********
** NMED source ID=38330EQPT2 Facility's ID=HTR-1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38330E2 VOLUME 644889.157 3566286.336 0
SO SRCPARAM 38330E2 .00126 4.6 .47 .93
** NMED source ID=38330EQPT3 Facility's ID=ENG-01
** Description=Gas Lift Compressor Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4003hr/yr, 24hr/day
SO LOCATION 38330E3 POINT 644896.693 3566293.357 0
SO SRCPARAM 38330E3 .0037799 4.51 1000.37 72.33 .13
** NMED source ID=38330EQPT8 Facility's ID=HTR-2
** Description=Heater Treater 2 Construction date=28-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38330E8 VOLUME 644889.907 3566296.909 0
SO SRCPARAM 38330E8 .00126 4.57 .47 .93
** NMED source ID=38330RPNT2 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38330R2 VOLUME 644882.31 3566294.817 0
SO SRCPARAM 38330R2 .0002898 1 .47 .93
**********END OF 38330: Flowmaster 24-34-15 4H-8H-5H
INFO**********************************
************************************************************
** 6.05km away. Facility ID=38093 Name=EOG - Hearns 34 State Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.169092, -103.565428, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=38093EQPT8 Facility's ID=HTR-2
** Description=1.5 MMBtu/hr, separator heater Construction date=02-NOV-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8768hr/yr, 24hr/day
SO LOCATION 38093E8 POINT 635259.892 3560080.26 0
SO SRCPARAM 38093E8 .00126 6.1 588.71 .19 1.83
** NMED source ID=38093EQPT12 Facility's ID=HTR-1
** Description=0.75 MMBtu/hr, separator heater Construction date=07-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38093E12 POINT 635267.428 3560087.281 0
SO SRCPARAM 38093E12 .0037799 4.88 588.71 .21 1.22
**********END OF 38093: EOG - Hearns 34 State Com CTB
INFO**********************************
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** 6.12km away. Facility ID=40883 Name=Shiprock 5 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.163111, -103.491115, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=40883EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=10-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40883E2 VOLUME 642276.548 3559513.047 0
SO SRCPARAM 40883E2 .00126 6.1 .47 .93
**********END OF 40883: Shiprock 5 Fed Com CTB
INFO*************************************
************************************************************
** 6.18km away. Facility ID=36132 Name=EOG - Aladdin Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.155492, -103.532005, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=6.93tons/year
*****************Facility sources: ******************************
** NMED source ID=36132EQPT1 Facility's ID=ENG-1
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8779hr/yr, 24hr/day
SO LOCATION 36132E1 POINT 638432.075 3558615.059 0
SO SRCPARAM 36132E1 .0214197 8.84 718.15 26 .61
** NMED source ID=36132EQPT7 Facility's ID=Heater-1
** Description=0.75 MMBtu/hr Heater Treater Construction date=01-DEC-15
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E7 VOLUME 638439.611 3558622.08 0
SO SRCPARAM 36132E7 .0002898 3.96 .47 .93
** NMED source ID=36132EQPT8 Facility's ID=ENG-2
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E8 POINT 638432.825 3558625.632 0
SO SRCPARAM 36132E8 .0214197 8.84 718.15 26 .61
** NMED source ID=36132EQPT9 Facility's ID=ENG-3
** Description=25000-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8744hr/yr, 24hr/day
SO LOCATION 36132E9 POINT 638425.228 3558623.54 0
SO SRCPARAM 36132E9 .0214197 8.84 718.15 26 .61
** NMED source ID=36132EQPT10 Facility's ID=ENG-4
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E10 POINT 638420.987 3558616.64 0
SO SRCPARAM 36132E10 .0214197 8.84 718.15 26 .61
** NMED source ID=36132EQPT11 Facility's ID=ENG-5
** Description=25000-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8090hr/yr, 22hr/day
SO LOCATION 36132E11 POINT 638422.639 3558608.486 0
SO SRCPARAM 36132E11 .0214197 8.84 718.15 26 .61
** NMED source ID=36132EQPT12 Facility's ID=ENG-6
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E12 POINT 638429.588 3558603.524 0
SO SRCPARAM 36132E12 .0214197 8.84 718.15 26 .61
** NMED source ID=36132EQPT13 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler Construction date=01-DEC-15
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 36132E13 POINT 638438.271 3558604.666 0
SO SRCPARAM 36132E13 .00252 3.96 588.71 4.15 .3
** NMED source ID=36132EQPT31 Facility's ID=ENG-7
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=02-MAY-19
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E31 POINT 638443.981 3558611.594 0
SO SRCPARAM 36132E31 .0214197 8.84 718.15 26 .61
** NMED source ID=36132EQPT32 Facility's ID=ENG-8
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=02-MAY-19
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8711hr/yr, 24hr/day
SO LOCATION 36132E32 POINT 638443.416 3558620.775 0
SO SRCPARAM 36132E32 .0214197 8.84 718.15 26 .61
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** NMED source ID=36132EQPT34 Facility's ID=ENG-9
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=02-JAN-20
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1512hr/yr, 24hr/day
SO LOCATION 36132E34 POINT 638436.581 3558627.253 0
SO SRCPARAM 36132E34 .0214197 8.84 718.15 26 .61
**********END OF 36132: EOG - Aladdin Compressor Station
INFO**********************************
************************************************************
** 6.21km away. Facility ID=36279 Name=Thistle Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.252, -103.5681, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.16tons/year
*****************Facility sources: ******************************
** NMED source ID=36279EQPT1 Facility's ID=E-1
** Description=Waukesha L-7042GSI with NSCR and AFR Construction date=07-JAN-16
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36279E1 POINT 634885.473 3569268.184 0
SO SRCPARAM 36279E1 .0299119 4.57 880.37 35.97 .38
** NMED source ID=36279EQPT2 Facility's ID=E-2
** Description=Waukesha L-7042GSI with NSCR and AFR Construction date=07-JAN-16
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=55hr/yr, 24hr/day
SO LOCATION 36279E2 POINT 634893.009 3569275.205 0
SO SRCPARAM 36279E2 .0299119 4.57 880.37 35.97 .38
** NMED source ID=36279EQPT3 Facility's ID=E-3
** Description=Waukesha L-7042GSI with NSCR and AFR Construction date=07-JAN-16
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7519hr/yr, 24hr/day
SO LOCATION 36279E3 POINT 634886.223 3569278.757 0
SO SRCPARAM 36279E3 .0299119 4.57 880.37 35.97 .38
** NMED source ID=36279EQPT9 Facility's ID=E-4
** Description=Waukesha L-7042GSI with NSCR and AFR Construction date=02-AUG-16
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3712hr/yr, 24hr/day
SO LOCATION 36279E9 POINT 634878.626 3569276.665 0
SO SRCPARAM 36279E9 .0299119 4.57 880.37 35.97 .38
**********END OF 36279: Thistle Booster Station
INFO**********************************
************************************************************
** 6.21km away. Facility ID=39148 Name=Milky Way Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.217797, -103.589281, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=6.83tons/year
*****************Facility sources: ******************************
** NMED source ID=39148EQPT1 Facility's ID=ENG-1
** Description=2500 HP CAT G3608A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7608hr/yr, 24hr/day
SO LOCATION 39148E1 POINT 632939.847 3565449.979 0
SO SRCPARAM 39148E1 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT2 Facility's ID=ENG-2
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6984hr/yr, 24hr/day
SO LOCATION 39148E2 POINT 632947.383 3565457 0
SO SRCPARAM 39148E2 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT3 Facility's ID=ENG-3
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6984hr/yr, 24hr/day
SO LOCATION 39148E3 POINT 632940.597 3565460.552 0
SO SRCPARAM 39148E3 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT4 Facility's ID=ENG-4
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6984hr/yr, 24hr/day
SO LOCATION 39148E4 POINT 632933 3565458.46 0
SO SRCPARAM 39148E4 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT5 Facility's ID=ENG-5
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6480hr/yr, 24hr/day
SO LOCATION 39148E5 POINT 632928.759 3565451.56 0
SO SRCPARAM 39148E5 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT6 Facility's ID=ENG-6
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6480hr/yr, 24hr/day
SO LOCATION 39148E6 POINT 632930.411 3565443.406 0
SO SRCPARAM 39148E6 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT7 Facility's ID=ENG-7
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=6480hr/yr, 24hr/day
SO LOCATION 39148E7 POINT 632937.36 3565438.444 0
SO SRCPARAM 39148E7 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT8 Facility's ID=ENG-8
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7608hr/yr, 24hr/day
SO LOCATION 39148E8 POINT 632946.043 3565439.586 0
SO SRCPARAM 39148E8 .0214197 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT13 Facility's ID=Reboiler-1
** Description=2 MMbtu/hr Dehydrator Reboiler Construction date=26-SEP-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39148E13 POINT 632951.753 3565446.514 0
SO SRCPARAM 39148E13 .00252 3.96 588.71 5.3 .3
** NMED source ID=39148EQPT14 Facility's ID=Heater-1
** Description=0.35 MMbtu/hr Separator Heater Construction date=26-SEP-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7944hr/yr, 24hr/day
SO LOCATION 39148E14 POINT 632951.188 3565455.695 0
SO SRCPARAM 39148E14 .0002898 3.96 588.71 .94 .3
** NMED source ID=39148EQPT16 Facility's ID=ENG-9
** Description=2500 HP CAT G3608A4 Engine Construction date=21-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39148E16 POINT 632944.353 3565462.173 0
SO SRCPARAM 39148E16 .0214197 6.1 712.04 46.33 .46
**********END OF 39148: Milky Way Compressor Station
INFO************************************
************************************************************
** 6.34km away. Facility ID=40158 Name=MarkWest - Mid Bell Lake Compressor Station
** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.2671, -103.5157, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=6.29tons/year
*****************Facility sources: ******************************
** NMED source ID=40158EQPT1 Facility's ID=ENG-1
** Description=Caterpillar 3608A  2500 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5776hr/yr, 24hr/day
SO LOCATION 40158E1 POINT 639798.889 3571009.273 0
SO SRCPARAM 40158E1 .0277196 7.01 695.37 59.19 .41
** NMED source ID=40158EQPT2 Facility's ID=ENG-3
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5393hr/yr, 24hr/day
SO LOCATION 40158E2 POINT 639806.425 3571016.294 0
SO SRCPARAM 40158E2 .0188997 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT4 Facility's ID=ENG-2
** Description=Caterpillar 3608A  2500 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5337hr/yr, 24hr/day
SO LOCATION 40158E4 POINT 639799.639 3571019.846 0
SO SRCPARAM 40158E4 .0277196 7.01 695.37 59.19 .41
** NMED source ID=40158EQPT5 Facility's ID=ENG-4
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5230hr/yr, 24hr/day
SO LOCATION 40158E5 POINT 639792.042 3571017.754 0
SO SRCPARAM 40158E5 .0188997 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT6 Facility's ID=ENG-5
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5651hr/yr, 24hr/day
SO LOCATION 40158E6 POINT 639787.801 3571010.854 0
SO SRCPARAM 40158E6 .0188997 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT7 Facility's ID=ENG-6
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4575hr/yr, 24hr/day
SO LOCATION 40158E7 POINT 639789.453 3571002.7 0
SO SRCPARAM 40158E7 .0188997 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT8 Facility's ID=ENG-7
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4438hr/yr, 24hr/day
SO LOCATION 40158E8 POINT 639796.402 3570997.738 0
SO SRCPARAM 40158E8 .0188997 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT9 Facility's ID=ENG-8
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4569hr/yr, 24hr/day
SO LOCATION 40158E9 POINT 639805.085 3570998.88 0
SO SRCPARAM 40158E9 .0188997 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT10 Facility's ID=GEN-1
** Description=Generator engine, 350 kW Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=6768hr/yr, 24hr/day
SO LOCATION 40158E10 POINT 639810.795 3571005.808 0
SO SRCPARAM 40158E10 .0062999 4.51 1005.37 83.21 .3
** NMED source ID=40158EQPT11 Facility's ID=GEN-2
** Description=Generator engine, 350 kW Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6768hr/yr, 24hr/day
SO LOCATION 40158E11 POINT 639810.23 3571014.989 0
SO SRCPARAM 40158E11 .0062999 4.51 1005.37 83.21 .3
** NMED source ID=40158EQPT13 Facility's ID=Reboil-1
** Description=TEG Reboiler 1.5 MMBtu/h Construction date=03-SEP-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6744hr/yr, 24hr/day
SO LOCATION 40158E13 POINT 639803.395 3571021.467 0
SO SRCPARAM 40158E13 .00126 4.88 588.71 2.35 .4
** NMED source ID=40158EQPT18 Facility's ID=ECD-1
** Description=500 Mscf/d Combustor (Process) Construction date=03-SEP-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=385hr/yr, 24hr/day
SO LOCATION 40158E18 POINT 639793.759 3571021.544 0
SO SRCPARAM 40158E18 .0453593 9.75 1273 20 2.13
** NMED source ID=40158EQPT19 Facility's ID=ECD-2
** Description=30 Mscf/d Combustor (Process) Construction date=03-SEP-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6744hr/yr, 24hr/day
SO LOCATION 40158E19 POINT 639786.498 3571014.878 0
SO SRCPARAM 40158E19 .00252 3.66 1273 20 1.22
**********END OF 40158: MarkWest - Mid Bell Lake Compressor Station
INFO************************************
************************************************************
** 6.37km away. Facility ID=39944 Name=Hyperion B CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.208622, -103.591511, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.09tons/year
*****************Facility sources: ******************************
** NMED source ID=39944EQPT1 Facility's ID=HT-1
** Description=heater treater 1: 3 MMBtu/h Construction date=31-MAR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39944E1 VOLUME 632743.015 3564430.074 0
SO SRCPARAM 39944E1 .00252 4.57 .47 .93
** NMED source ID=39944EQPT2 Facility's ID=ENG-1
** Description=CAT G3516J: 4SLB, 1380hp w/ oxidation catalyst Construction
date=31-MAR-21
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39944E2 POINT 632750.551 3564437.095 0
SO SRCPARAM 39944E2 .0125998 4.57 716.48 33.95 .38
** NMED source ID=39944EQPT3 Facility's ID=ENG-2
** Description=CAT G3516J: 4SLB, 1380hp w/ oxidation catalyst Construction
date=31-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39944E3 POINT 632743.765 3564440.647 0
SO SRCPARAM 39944E3 .0125998 4.57 716.48 33.95 .38
** NMED source ID=39944EQPT19 Facility's ID=HT-1
** Description=3.0 MMBtu/hr heater treater Construction date=31-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39944E19 VOLUME 632736.168 3564438.555 0
SO SRCPARAM 39944E19 .0037799 4.57 .47 .93
**********END OF 39944: Hyperion B CTB INFO************************************
************************************************************
** 6.41km away. Facility ID=37222 Name=Tap Rock - Brininstool 4 State No. 4H
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=6977 NOI
** lat,long,datum=32.239931, -103.5824, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.6tons/year
*****************Facility sources: ****************************
** NMED source ID=37222AREA1 Facility's ID=Haul Roads
** Description=Haul Road Fugitives Construction date=28-JUL-16
** SCC=31000102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=52hr/yr, 1hr/day
SO LOCATION 37222A1 VOLUME 633555.955 3567912.316 0
SO SRCPARAM 37222A1 .0172617 1 .47 .93
**********END OF 37222: Tap Rock - Brininstool 4 State No. 4H
INFO************************************
************************************************************
** 6.48km away. Facility ID=39977 Name=EOG - Thrasher 33 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1701, -103.4744, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
*****************Facility sources: ****************************
** NMED source ID=39977EQPT1 Facility's ID=HTR-1E
** Description=Heater Treater, 1.5 MMBtu/hr Construction date=16-JUL-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39977E1 VOLUME 643841.822 3560310.09 0
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SO SRCPARAM 39977E1 .00126 4.88 .47 .93
** NMED source ID=39977EQPT3 Facility's ID=HTR-1W
** Description=1.5 MMBtu/hr Heater Treater Construction date=16-JUL-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39977E3 VOLUME 643849.358 3560317.111 0
SO SRCPARAM 39977E3 .00126 4.88 .47 .93
**********END OF 39977: EOG - Thrasher 33 Fed Com CTB
INFO**********************************
************************************************************
** 6.48km away. Facility ID=40159 Name=Juliet Fed Com 27 CTB Facility
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.189988, -103.459545, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.61tons/year
*****************Facility sources: ******************************
** NMED source ID=40159EQPT4 Facility's ID=HT-3
** Description=Heater Treater Burner Construction date=01-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40159E4 VOLUME 645211 3562534.895 0
SO SRCPARAM 40159E4 .00126 6.1 .47 .93
** NMED source ID=40159EQPT14 Facility's ID=ENG-2
** Description=203 HP Engine Construction date=20-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40159E14 POINT 645218.536 3562541.916 0
SO SRCPARAM 40159E14 .0075599 2.44 863.15 25.58 .15
** NMED source ID=40159EQPT15 Facility's ID=ENG-3
** Description=203 HP Engine Construction date=20-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40159E15 POINT 645211.75 3562545.468 0
SO SRCPARAM 40159E15 .0075599 2.44 863.15 25.58 .15
**********END OF 40159: Juliet Fed Com 27 CTB Facility
INFO**********************************
************************************************************
** 6.5km away. Facility ID=39179 Name=Proclamation Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.16309, -103.56401, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=5.04tons/year
*****************Facility sources: ******************************
** NMED source ID=39179EQPT1 Facility's ID=Dehydrator Reboiler
** Description=dehydrator reboiler Construction date=15-OCT-19
** SCC=31000227
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E1 POINT 635402.482 3559416.658 0
SO SRCPARAM 39179E1 .00126 3.96 588.71 2.62 .3
** NMED source ID=39179EQPT2 Facility's ID=Heater-1
** Description=Separator heater Construction date=15-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E2 POINT 635410.018 3559423.679 0
SO SRCPARAM 39179E2 .00126 3.96 588.71 1.31 .3
** NMED source ID=39179EQPT15 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E15 POINT 635403.232 3559427.231 0
SO SRCPARAM 39179E15 .0239396 7.62 718.15 37.28 .51
** NMED source ID=39179EQPT16 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E16 POINT 635395.635 3559425.139 0
SO SRCPARAM 39179E16 .0239396 7.62 718.15 37.28 .51
** NMED source ID=39179EQPT17 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E17 POINT 635391.394 3559418.239 0
SO SRCPARAM 39179E17 .0239396 7.62 718.15 37.28 .51
** NMED source ID=39179EQPT18 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E18 POINT 635393.046 3559410.085 0
SO SRCPARAM 39179E18 .0239396 7.62 718.15 37.28 .51
** NMED source ID=39179EQPT19 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E19 POINT 635399.995 3559405.123 0
SO SRCPARAM 39179E19 .0239396 7.62 718.15 37.28 .51
** NMED source ID=39179EQPT20 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E20 POINT 635408.678 3559406.265 0
SO SRCPARAM 39179E20 .0239396 7.62 718.15 37.28 .51
**********END OF 39179: Proclamation Localized Gas Lift Station
INFO**********************************
**************************************************************
** 6.59km away. Facility ID=34027 Name=Thistle Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.211978, -103.593828, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.85tons/year
*****************Facility sources: ****************************
** NMED source ID=34027EQPT4 Facility's ID=0316
** Description=Compressor Engine CAT G3606 1775-hp Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8256hr/yr, 23hr/day
SO LOCATION 34027E4 POINT 632519.762 3564799.263 0
SO SRCPARAM 34027E4 .0151198 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT5 Facility's ID=0317
** Description=Compressor Engine CAT G3606 1775-hp Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8414hr/yr, 23hr/day
SO LOCATION 34027E5 POINT 632527.298 3564806.284 0
SO SRCPARAM 34027E5 .0151198 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT6 Facility's ID=Rbl-1
** Description=Dehydrator Reboiler 1 0.75 MMBtu/hr Construction date=02-AUG-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8550hr/yr, 23hr/day
SO LOCATION 34027E6 POINT 632520.512 3564809.836 0
SO SRCPARAM 34027E6 .00126 3.05 588.71 1.98 .3
** NMED source ID=34027EQPT7 Facility's ID=0489
** Description=Compressor Engine CAT G3606 1775-hp Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8187hr/yr, 22hr/day
SO LOCATION 34027E7 POINT 632512.915 3564807.744 0
SO SRCPARAM 34027E7 .0151198 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT8 Facility's ID=0490
** Description=Compressor Engine CAT G3606 1775-hp Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8358hr/yr, 23hr/day
SO LOCATION 34027E8 POINT 632508.674 3564800.844 0
SO SRCPARAM 34027E8 .0151198 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT9 Facility's ID=Rbl-2
** Description=Dehydrator Reboiler 2 0.75 MMBtu/hr Construction date=02-AUG-18
** SCC=31000228
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8550hr/yr, 23hr/day
SO LOCATION 34027E9 POINT 632510.326 3564792.69 0
SO SRCPARAM 34027E9 .00126 3.05 588.71 1.98 .3
** NMED source ID=34027EQPT10 Facility's ID=3336
** Description=Compressor Engine CAT G3606 1875-hp Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8226hr/yr, 23hr/day
SO LOCATION 34027E10 POINT 632517.275 3564787.728 0
SO SRCPARAM 34027E10 .0151198 7.01 718.71 33.95 .46
** NMED source ID=34027EQPT16 Facility's ID=AU-RB
** Description=Amine Reboiler, Southtex, RW-2100, 20-MMBtu/hr Construction
date=04-JUL-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34027E16 POINT 632525.958 3564788.87 0
SO SRCPARAM 34027E16 .0188997 6.1 588.71 17.37 .53
** NMED source ID=34027EQPT23 Facility's ID=0584
** Description=Compressor Engine CAT G3606 1775-hp Construction date=15-NOV-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7392hr/yr, 20hr/day
SO LOCATION 34027E23 POINT 632531.668 3564795.798 0
SO SRCPARAM 34027E23 .0151198 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT24 Facility's ID=ENG-6
** Description=Compressor Engine CAT G3606 1775-hp Construction date=01-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7925hr/yr, 22hr/day
SO LOCATION 34027E24 POINT 632531.103 3564804.979 0
SO SRCPARAM 34027E24 .0151198 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT25 Facility's ID=1201
** Description=Compressor Engine CAT G3606 1875-hp Construction date=05-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7925hr/yr, 22hr/day
SO LOCATION 34027E25 POINT 632524.268 3564811.457 0
SO SRCPARAM 34027E25 .0151198 7.01 718.71 33.95 .46
**********END OF 34027: Thistle Compressor Station
INFO************************************
************************************************************
** 6.62km away. Facility ID=38963 Name=Will Kane 15 Fee 3H 6H 7H 10H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.21245, -103.453622, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=38963AREA1 Facility's ID=ROAD
```

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** Description=Unpaved Haul Roads Construction date=02-DEC-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38963A1 VOLUME 645733.566 3565033.128 0
SO SRCPARAM 38963A1 .0002898 1 .47 .93
** NMED source ID=38963EQPT5 Facility's ID=HTR-01
** Description=Heater Treater Burner 1 Construction date=02-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7916hr/yr, 24hr/day
SO LOCATION 38963E5 VOLUME 645741.102 3565040.149 0
SO SRCPARAM 38963E5 .00126 4.6 .47 .93
** NMED source ID=38963EQPT9 Facility's ID=ENG-01C
** Description=VRU Engine Construction date=10-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8605hr/yr, 24hr/day
SO LOCATION 38963E9 POINT 645734.316 3565043.701 0
SO SRCPARAM 38963E9 .00126 2.99 878.15 42.52 .08
**********END OF 38963: Will Kane 15 Fee 3H 6H 7H 10H
INFO************************************
************************************************************
** 6.68km away. Facility ID=36420 Name=Eata Fajita A B C CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6669 NOI
** lat,long,datum=32.226259, -103.592399, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.32tons/year
*****************Facility sources: ******************************
** NMED source ID=36420AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=10-MAY-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36420A1 VOLUME 632633.704 3566384.23 0
SO SRCPARAM 36420A1 .0011466 1 .47 .93
** NMED source ID=36420EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 36420E4 VOLUME 632641.24 3566391.251 0
SO SRCPARAM 36420E4 .0005796 6.71 .47 .93
** NMED source ID=36420EQPT6 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=01-FEB-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36420E6 POINT 632634.454 3566394.803 0
SO SRCPARAM 36420E6 .0037799 4.57 867.59 16.4 .15
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** NMED source ID=36420EQPT7 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=01-FEB-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36420E7 POINT 632626.857 3566392.711 0
SO SRCPARAM 36420E7 .0037799 4.57 867.59 16.4 .15
** NMED source ID=36420EQPT8 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=29-OCT-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36420E8 VOLUME 632622.616 3566385.811 0
SO SRCPARAM 36420E8 .0005796 6.71 .47 .93
** NMED source ID=36420EQPT9 Facility's ID=HT-03
** Description=Heater Treater Burners Construction date=29-OCT-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36420E9 VOLUME 632624.268 3566377.657 0
SO SRCPARAM 36420E9 .0005796 6.71 .47 .93
**********END OF 36420: Eata Fajita A B C CTB
INFO**********************************
************************************************************
** 6.82km away. Facility ID=34675 Name=Atoka Bank & Heartthrob Battery
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=5990 NOI
** lat,long,datum=32.224167, -103.594444, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.9tons/year
*****************Facility sources: ****************************
** NMED source ID=34675AREA1 Facility's ID=HAUL
** Description=Haul road emissions Construction date=04-SEP-14
** SCC=unknown
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8568hr/yr, 24hr/day
SO LOCATION 34675A1 VOLUME 632444.028 3566149.786 0
SO SRCPARAM 34675A1 .1637974 10 10 9.3
**********END OF 34675: Atoka Bank & Heartthrob Battery
INFO**********************************
************************************************************
** 6.87km away. Facility ID=38810 Name=Sheba and Solomon CTBs
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19659, -103.452791, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.19tons/year
*****************Facility sources: ****************************
** NMED source ID=38810AREA1 Facility's ID=HAUL-2-1
** Description=Unpaved Haul Roads Construction date=28-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38810A1 VOLUME 645837.2 3563275.958 0
SO SRCPARAM 38810A1 .0075599 10 10 9.3
** NMED source ID=38810AREA2 Facility's ID=HAUL-1-1
** Description=Unpaved Haul Roads Construction date=28-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38810A2 VOLUME 645844.736 3563282.979 0
SO SRCPARAM 38810A2 .0075599 10 10 9.3
** NMED source ID=38810EQPT32 Facility's ID=ENG
** Description=600 hp CAT CG137-12 compressor engine Construction date=12-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=720hr/yr, 24hr/day
SO LOCATION 38810E32 POINT 645837.95 3563286.531 0
SO SRCPARAM 38810E32 .0113398 5.94 816.48 35.84 .2
**********END OF 38810: Sheba and Solomon CTBs
INFO**********************************
************************************************************
** 6.91km away. Facility ID=38958 Name=Devon - Thistle Unit 33 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257397, -103.571961, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.18tons/year
*****************Facility sources: ******************************
** NMED source ID=38958AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=15-MAY-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38958A1 VOLUME 634513.772 3569861.66 0
SO SRCPARAM 38958A1 .0277196 10 20 9.3
**********END OF 38958: Devon - Thistle Unit 33 CTB 1
INFO**********************************
************************************************************
** 6.92km away. Facility ID=33454 Name=Sea Snake 35 State 1H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5543 NOI
** lat,long,datum=32.269397, -103.547539, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=33454AREA1 Facility's ID=20
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33454A1 VOLUME 636796.402 3571222.883 0
SO SRCPARAM 33454A1 .0277196 10 20 9.3
** NMED source ID=33454EQPT5 Facility's ID=7
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** Description=Heater_EQ000146813 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33454E5 VOLUME 636803.938 3571229.904 0
SO SRCPARAM 33454E5 .0005796 9.14 .47 .93
** NMED source ID=33454EQPT9 Facility's ID=8
** Description=Heater_EQ000146828 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33454E9 VOLUME 636797.152 3571233.456 0
SO SRCPARAM 33454E9 .0005796 9.14 .47 .93
**********END OF 33454: Sea Snake 35 State 1H
INFO************************************
************************************************************
** 6.98km away. Facility ID=32175 Name=Diamond 8 Fed Com No 4H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=211111   Permit=unknown
** lat,long,datum=32.1514, -103.4992, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=32175AREA1 Facility's ID=Haul
** Description=Haul Road Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32175A1 VOLUME 641532.221 3558204.082 0
SO SRCPARAM 32175A1 .0005796 1 .47 .93
** NMED source ID=32175EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32175E2 POINT 641539.757 3558211.103 0
SO SRCPARAM 32175E2 .0005796 6.1 588.71 28 1.83
**********END OF 32175: Diamond 8 Fed Com No 4H
INFO************************************
************************************************************
** 7.01km away. Facility ID=38366 Name=Heartthrob 17 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2182, -103.59772, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.09tons/year
*****************Facility sources: ******************************
** NMED source ID=38366EQPT17 Facility's ID=HT-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
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SO LOCATION 38366E17 VOLUME 632143.941 3565484.245 0
SO SRCPARAM 38366E17 .00126 5.18 .47 .93
** NMED source ID=38366EQPT19 Facility's ID=HT-2
** Description=Heater Treater Construction date=22-MAR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38366E19 VOLUME 632151.477 3565491.266 0
SO SRCPARAM 38366E19 .00126 5.18 .47 .93
**********END OF 38366: Heartthrob 17 State CTB
INFO**********************************
************************************************************
** 7.04km away. Facility ID=40211 Name=Sheba Fed Com 505H and Solomon Fed Com 506H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.190819, -103.452877, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.52tons/year
*****************Facility sources: ******************************
** NMED source ID=40211EQPT3 Facility's ID=H-1
** Description=1.0 MMBtu/hr Heater Treater Construction date=14-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40211E3 VOLUME 645838.3 3562636.048 0
SO SRCPARAM 40211E3 .00126 4.88 .47 .93
** NMED source ID=40211EQPT6 Facility's ID=H-2
** Description=1.0 MMBtu/hr Heater Treater Construction date=14-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40211E6 VOLUME 645845.836 3562643.069 0
SO SRCPARAM 40211E6 .00126 4.88 .47 .93
** NMED source ID=40211EQPT7 Facility's ID=H-3
** Description=0.75 MMBtu/hr Heater Treater Construction date=14-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40211E7 VOLUME 645839.05 3562646.621 0
SO SRCPARAM 40211E7 .00126 4.88 .47 .93
** NMED source ID=40211EQPT8 Facility's ID=H-4
** Description=0.75 MMBtu/hr Heater Treater Construction date=14-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40211E8 VOLUME 645831.453 3562644.529 0
SO SRCPARAM 40211E8 .00126 4.88 .47 .93
** NMED source ID=40211EQPT23 Facility's ID=ENG-2
** Description=Gas Lift Engine Construction date=02-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40211E23 POINT 645827.212 3562637.629 0
SO SRCPARAM 40211E23 .0037799 3.05 858.15 25.69 .15
** NMED source ID=40211EQPT28 Facility's ID=ENG-1
** Description=Gas Lift Engine Construction date=05-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40211E28 POINT 645828.864 3562629.475 0
SO SRCPARAM 40211E28 .0075599 3.66 778.71 14.62 .25
**********END OF 40211: Sheba Fed Com 505H and Solomon Fed Com 506H
INFO**********************************
************************************************************
** 7.13km away. Facility ID=31804 Name=Diamond 8 Fed Com No3H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1514, -103.4949, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.18tons/year
*****************Facility sources: ****************************
** NMED source ID=31804AREA1 Facility's ID=Haul
** Description=Haul Road Emissions Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8682hr/yr, 24hr/day
SO LOCATION 31804A1 VOLUME 641937.771 3558209.744 0
SO SRCPARAM 31804A1 .0050399 1 .47 .93
** NMED source ID=31804EQPT2 Facility's ID=HT-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8682hr/yr, 24hr/day
SO LOCATION 31804E2 VOLUME 641945.307 3558216.765 0
SO SRCPARAM 31804E2 .0005796 6.1 .47 .93
**********END OF 31804: Diamond 8 Fed Com No3H
INFO**********************************
************************************************************
** 7.2km away. Facility ID=32642 Name=Thistle Unit 44 H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5157 NOI
** lat,long,datum=32.255, -103.579472, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.09tons/year
*****************Facility sources: ****************************
** NMED source ID=32642AREA1 Facility's ID=HR-01
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32642A1 VOLUME 633809.73 3569586.535 0
SO SRCPARAM 32642A1 .0277196 10 20 9.3
** NMED source ID=32642EQPT11 Facility's ID=HT-01
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** Description=Heater_EQ000170672 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32642E11 VOLUME 633817.266 3569593.556 0
SO SRCPARAM 32642E11 .0005796 9.14 .47 .93
** NMED source ID=32642EQPT12 Facility's ID=HT-02
** Description=Heater_EQ000170887 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32642E12 VOLUME 633810.48 3569597.108 0
SO SRCPARAM 32642E12 .0005796 9.14 .47 .93
**********END OF 32642: Thistle Unit 44 H INFO**********************************
************************************************************
** 7.25km away. Facility ID=33674 Name=Gramma Ridge Battery
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=5601 NOI
** lat,long,datum=32.223663, -103.448462, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.35tons/year
*****************Facility sources: ******************************
** NMED source ID=33674AREA1 Facility's ID=ROAD
** Description=Road Emissions Construction date=25-OCT-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33674A1 VOLUME 646201.954 3566283.256 0
SO SRCPARAM 33674A1 .0100798 1 .47 .93
** NMED source ID=33674EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33674E6 VOLUME 646209.49 3566290.277 0
SO SRCPARAM 33674E6 .0005796 6.1 .47 .93
**********END OF 33674: Gramma Ridge Battery
INFO**********************************
************************************************************
** 7.29km away. Facility ID=40800 Name=Monet Gas Lift Station
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9786 NOI
** lat,long,datum=32.166, -103.5806, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.78tons/year
*****************Facility sources: ******************************
** NMED source ID=40800AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=23-NOV-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40800A1 VOLUME 633833.78 3559718.505 0
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SO SRCPARAM 40800A1 .0125998 1 .47 .93
** NMED source ID=40800EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40800E1 POINT 633841.316 3559725.526 0
SO SRCPARAM 40800E1 .0075599 3.66 1003.71 57.91 .15
** NMED source ID=40800EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40800E2 POINT 633834.53 3559729.078 0
SO SRCPARAM 40800E2 .0075599 3.66 1003.71 57.91 .15
** NMED source ID=40800EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40800E3 POINT 633826.933 3559726.986 0
SO SRCPARAM 40800E3 .0075599 3.66 1003.71 57.91 .15
**********END OF 40800: Monet Gas Lift Station
INFO************************************
************************************************************
** 7.31km away. Facility ID=39309 Name=Hyperion A CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.207381, -103.601399, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.63tons/year
*****************Facility sources: ******************************
** NMED source ID=39309EQPT13 Facility's ID=ENG-1
** Description=Caterpillar G3516J 1380 HP Construction date=31-OCT-23
** SCC=20200252
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39309E13 POINT 631812.83 3564280.326 0
SO SRCPARAM 39309E13 .0125998 4.57 716.48 33.95 .38
** NMED source ID=39309EQPT14 Facility's ID=ENG-2
** Description=Waukesha L7055GSI 1680HP Construction date=31-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39309E14 POINT 631820.366 3564287.347 0
SO SRCPARAM 39309E14 .0327595 4.57 910.37 89.61 .24
** NMED source ID=39309EQPT15 Facility's ID=HT-3
** Description=Heater Treater Construction date=31-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 39309E15 VOLUME 631813.58 3564290.899 0
SO SRCPARAM 39309E15 .00126 4.57 .47 .93
**********END OF 39309: Hyperion A CTB INFO************************************
************************************************************
** 7.39km away. Facility ID=40123 Name=Monet Federal 4 C CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9337 NOI
** lat,long,datum=32.165, -103.581, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=40123AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=26-MAY-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40123A1 VOLUME 633797.523 3559607.147 0
SO SRCPARAM 40123A1 .0002898 1 .47 .93
** NMED source ID=40123EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=26-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40123E3 VOLUME 633805.059 3559614.168 0
SO SRCPARAM 40123E3 .00126 6.1 .47 .93
**********END OF 40123: Monet Federal 4 C CTB
INFO************************************
************************************************************
** 7.48km away. Facility ID=41017 Name=Firebird LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.17175, -103.45908, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.48tons/year
*****************Facility sources: ****************************
** NMED source ID=41017EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine 1, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E2 POINT 645283.806 3560513.602 0
SO SRCPARAM 41017E2 .0214197 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine 2, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E3 POINT 645291.342 3560520.623 0
SO SRCPARAM 41017E3 .0214197 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine 3, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E4 POINT 645284.556 3560524.175 0
SO SRCPARAM 41017E4 .0214197 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine 4, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E5 POINT 645276.959 3560522.083 0
SO SRCPARAM 41017E5 .0214197 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine 5, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E6 POINT 645272.718 3560515.183 0
SO SRCPARAM 41017E6 .0214197 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine 6, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E7 POINT 645274.37 3560507.029 0
SO SRCPARAM 41017E7 .0214197 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT10 Facility's ID=HTR-1
** Description=Heater Treater, 1.0 MMBtu/hr Construction date=05-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E10 VOLUME 645281.319 3560502.067 0
SO SRCPARAM 41017E10 .00126 3.05 .47 .93
** NMED source ID=41017EQPT11 Facility's ID=RBL-1
** Description=Dehy Reboiler, 1.5 MMBtu/hr Construction date=05-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E11 POINT 645290.002 3560503.209 0
SO SRCPARAM 41017E11 .00126 4.57 588.71 3.96 .3
**********END OF 41017: Firebird LGL Station
INFO**********************************
************************************************************
** 7.49km away. Facility ID=37223 Name=Tap Rock - Bettis 20 State Com No. 5H
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=6976 NOI
** lat,long,datum=32.196481, -103.601631, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.6tons/year
****************Facility sources: ****************************
** NMED source ID=37223AREA1 Facility's ID=Haul Roads
** Description=Haul Road Fugitives Construction date=28-JUL-16
```

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** SCC=31000102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=52hr/yr, 1hr/day
SO LOCATION 37223A1 VOLUME 631806.683 3563071.663 0
SO SRCPARAM 37223A1 .0172617 1 .47 .93
**********END OF 37223: Tap Rock - Bettis 20 State Com No. 5H
INFO**********************************
************************************************************
** 7.51km away. Facility ID=39550 Name=Brad Lummis Fed Com Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.208748, -103.444165, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.48tons/year
*****************Facility sources: ****************************
** NMED source ID=39550AREA1 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=26-JUN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39550A1 VOLUME 646630.849 3564635.576 0
SO SRCPARAM 39550A1 .0314995 10 20 9.3
** NMED source ID=39550EQPT1 Facility's ID=HT-1
** Description=Heater Treater Construction date=26-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39550E1 VOLUME 646638.385 3564642.597 0
SO SRCPARAM 39550E1 .0005796 6.1 .47 .93
** NMED source ID=39550EQPT2 Facility's ID=HT-2
** Description=Heater Treater Construction date=26-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39550E2 VOLUME 646631.599 3564646.149 0
SO SRCPARAM 39550E2 .0005796 6.1 .47 .93
** NMED source ID=39550EQPT3 Facility's ID=ENG-1
** Description=1380-hp Caterpillar 3516J engine Construction date=26-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 23hr/day
SO LOCATION 39550E3 POINT 646624.002 3564644.057 0
SO SRCPARAM 39550E3 .0138598 7.62 728.15 73.43 .25
** NMED source ID=39550EQPT4 Facility's ID=ENG-2
** Description=92-hp GM 5.7L engine Construction date=26-JUN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39550E4 POINT 646619.761 3564637.157 0
SO SRCPARAM 39550E4 .00252 3.05 922.04 49.99 .09
** NMED source ID=39550EQPT5 Facility's ID=GEN-1
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** Description=390-hp PSI 14.6L generator Construction date=26-JUN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39550E5 POINT 646621.413 3564629.003 0
SO SRCPARAM 39550E5 .0075599 3.05 1023.15 112.56 .1
** NMED source ID=39550EQPT6 Facility's ID=GEN-2
** Description=581 hp PSI 21.9L generator Construction date=26-JUN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39550E6 POINT 646628.362 3564624.041 0
SO SRCPARAM 39550E6 .0113398 2.74 1023.15 177.88 .1
** NMED source ID=39550EQPT27 Facility's ID=HT-3
** Description=Heater Treater Construction date=08-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39550E27 VOLUME 646637.045 3564625.183 0
SO SRCPARAM 39550E27 .0005796 6.1 .47 .93
**********END OF 39550: Brad Lummis Fed Com Facility
INFO**********************************
************************************************************
** 7.53km away. Facility ID=37570 Name=Vaca Draw 4H Battery
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=7147 NOI
** lat,long,datum=32.1518, -103.56342, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=37570EQPT8 Facility's ID=HT-01
** Description=Heater Treater Construction date=25-OCT-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37570E8 VOLUME 635474.826 3558165.786 0
SO SRCPARAM 37570E8 .00126 7.32 .47 .93
**********END OF 37570: Vaca Draw 4H Battery
INFO**********************************
************************************************************
** 7.58km away. Facility ID=6487 Name=Blue Quail Unload
** Company ID=13605 Name=NGL Water Solutions Permian LLC
** SIC=1311 NAIC=21112    Permit=10029 NOI
** lat,long,datum=32.209153, -103.604369, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.13tons/year
*****************Facility sources: ******************************
** NMED source ID=6487ACT 1 Facility's ID=Roads1
** Description=Paved Haul Road Emissions Construction date=08-AUG-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 6487@1 VOLUME 631530.344 3564473.131 0
SO SRCPARAM 6487@1 .00126 1 .47 .93
** NMED source ID=6487ACT 2 Facility's ID=Road2
** Description=Paved Haul Road Emissions Construction date=08-AUG-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6487@2 VOLUME 631537.88 3564480.152 0
SO SRCPARAM 6487@2 .0002898 1 .47 .93
** NMED source ID=6487EQPT1 Facility's ID=GEN1
** Description=Emergency Generator Construction date=08-AUG-23
** SCC=20200202
** Potential operating rate=500hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6487E1 POINT 631531.094 3564483.704 0
SO SRCPARAM 6487E1 .00252 3.05 949.82 49.01 .15
SO EMISFACT 6487E1 HROFDY 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
**********END OF 6487: Blue Quail Unload INFO**********************************
************************************************************
** 7.64km away. Facility ID=29120 Name=Thistle Unit 10 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4169 NOI
** lat,long,datum=32.270761, -103.562864, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=29120AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 29120A1 VOLUME 635350.898 3571354.661 0
SO SRCPARAM 29120A1 .0277196 10 20 9.3
** NMED source ID=29120EQPT8 Facility's ID=HT-1
** Description=Heater Treater 1_EQ000176118 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 29120E8 VOLUME 635358.434 3571361.682 0
SO SRCPARAM 29120E8 .0005796 9.14 .47 .93
**********END OF 29120: Thistle Unit 10 Battery
INFO**********************************
************************************************************
** 7.69km away. Facility ID=40723 Name=Venom Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.183801, -103.599196, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=13.62tons/year
*****************Facility sources: ****************************
** NMED source ID=40723EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=08-NOV-22
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** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E2 POINT 632054.532 3561668.943 0
SO SRCPARAM 40723E2 .0239396 6.61 704.26 46.3 .46
SO EMISFACT 40723E2 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40723EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E3 POINT 632062.068 3561675.964 0
SO SRCPARAM 40723E3 .0239396 6.61 704.26 46.3 .46
SO EMISFACT 40723E3 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40723EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E4 POINT 632055.282 3561679.516 0
SO SRCPARAM 40723E4 .0239396 6.61 704.26 46.3 .46
SO EMISFACT 40723E4 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40723EQPT7 Facility's ID=HT-1
** Description=Heater Construction date=08-NOV-22
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E7 POINT 632047.685 3561677.424 0
SO SRCPARAM 40723E7 .00252 3.96 588.71 9.08 .3
** NMED source ID=40723EQPT8 Facility's ID=REB-1
** Description=Glycol Dehydrator Reboiler Construction date=08-NOV-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E8 POINT 632043.444 3561670.524 0
SO SRCPARAM 40723E8 .00252 3.96 588.71 13.62 .3
** NMED source ID=40723EQPT9 Facility's ID=T-1
** Description=Turbine Construction date=08-NOV-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E9 POINT 632045.096 3561662.37 0
SO SRCPARAM 40723E9 .1574975 11.43 727.59 43.16 2.13
** NMED source ID=40723EQPT10 Facility's ID=T-2
** Description=Turbine Construction date=08-NOV-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E10 POINT 632052.045 3561657.408 0
SO SRCPARAM 40723E10 .1574975 11.43 727.59 43.16 2.13
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**********END OF 40723: Venom Compressor Station
INFO***********************************
************************************************************
** 7.9km away. Facility ID=39822 Name=Mandelbaum A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.227639, -103.4425, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.67tons/year
*****************Facility sources: ******************************
** NMED source ID=39822AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=07-JAN-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39822A1 VOLUME 646757.424 3566732.182 0
SO SRCPARAM 39822A1 .0138598 10 10 9.3
** NMED source ID=39822EQPT5 Facility's ID=HT-1
** Description=Heater Treater Construction date=07-JAN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39822E5 POINT 646764.96 3566739.203 0
SO SRCPARAM 39822E5 .0037799 3.66 510.93 .61 .3
** NMED source ID=39822EQPT6 Facility's ID=HT-2
** Description=Heater Treater Construction date=07-JAN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39822E6 POINT 646758.174 3566742.755 0
SO SRCPARAM 39822E6 .0037799 3.66 510.93 .61 .3
** NMED source ID=39822EQPT19 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=26-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39822E19 POINT 646750.577 3566740.663 0
SO SRCPARAM 39822E19 .0125998 9.14 728.71 38.25 .36
**********END OF 39822: Mandelbaum A CTB INFO**********************************
************************************************************
** 7.94km away. Facility ID=37112 Name=COG - Macho State 2H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6930 NOI
** lat,long,datum=32.234188, -103.603479, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.5tons/year
*****************Facility sources: ******************************
** NMED source ID=37112AREA1 Facility's ID=HR-1
** Description=Haul Roads 900 ft 6 trucks/d Construction date=08-JUL-16
** SCC=31000101
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day

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SO LOCATION 37112A1 VOLUME 631578.152 3567249.618 0
SO SRCPARAM 37112A1 .0431543 1 .47 .93
**********END OF 37112: COG - Macho State 2H Battery
INFO**********************************
************************************************************
** 7.96km away. Facility ID=38009 Name=Antietam 9 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.150744, -103.570275, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.64tons/year
*****************Facility sources: ******************************
** NMED source ID=38009EQPT17 Facility's ID=HTR-1
** Description=Heater Construction date=21-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E17 POINT 634829.87 3558040.11 0
SO SRCPARAM 38009E17 .00126 4.88 588.71 .21 1.22
** NMED source ID=38009EQPT18 Facility's ID=HTR-2
** Description=Heater Construction date=21-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E18 POINT 634837.406 3558047.131 0
SO SRCPARAM 38009E18 .00126 7.32 588.71 .19 1.83
** NMED source ID=38009EQPT21 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=08-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E21 POINT 634830.62 3558050.683 0
SO SRCPARAM 38009E21 .0075599 3.96 803.71 58.52 .13
** NMED source ID=38009EQPT22 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=08-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E22 POINT 634823.023 3558048.591 0
SO SRCPARAM 38009E22 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=38009EQPT23 Facility's ID=HTR-3
** Description=Heater Construction date=08-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E23 POINT 634818.782 3558041.691 0
SO SRCPARAM 38009E23 .00126 4.88 588.71 .21 1.22
**********END OF 38009: Antietam 9 Fed Com CTB
INFO**********************************
************************************************************
** 7.96km away. Facility ID=39782 Name=EOG - Kestrel 26 Fed No 311H Facility
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** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.182447, -103.446153, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=39782EQPT4 Facility's ID=HTR-1
** Description=0.75 MMBtu/hr heater treater Construction date=22-JAN-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39782E4 VOLUME 646485.611 3561717.04 0
SO SRCPARAM 39782E4 .00126 5.18 .47 .93
**********END OF 39782: EOG - Kestrel 26 Fed No 311H Facility
INFO*********************************
************************************************************
** 7.98km away. Facility ID=39339 Name=EOG - Red Hills North Unit TB 12
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.139, -103.5282, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.16tons/year
*****************Facility sources: ****************************
** NMED source ID=39339AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=30-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8776hr/yr, 24hr/day
SO LOCATION 39339A1 VOLUME 638815.917 3556791.64 0
SO SRCPARAM 39339A1 .0050399 1 .47 .93
**********END OF 39339: EOG - Red Hills North Unit TB 12
INFO*********************************
************************************************************
** 8km away. Facility ID=39664 Name=EOG - Boa Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1864, -103.6039, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.96tons/year
*****************Facility sources: ****************************
** NMED source ID=39664EQPT1 Facility's ID=Reboiler-1
** Description=Deydrator Reboiler Construction date=21-SEP-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1848hr/yr, 24hr/day
SO LOCATION 39664E1 POINT 631607.305 3561951.302 0
SO SRCPARAM 39664E1 .00126 3.96 588.71 2.65 .3
** NMED source ID=39664EQPT2 Facility's ID=ENG-1
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664E2 POINT 631614.841 3561958.323 0
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SO SRCPARAM 39664E2 .0151198 8.53 701.48 27.86 .51
** NMED source ID=39664EQPT3 Facility's ID=ENG-2
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664E3 POINT 631608.055 3561961.875 0
SO SRCPARAM 39664E3 .0151198 8.53 701.48 27.86 .51
** NMED source ID=39664EQPT4 Facility's ID=ENG-3
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664E4 POINT 631600.458 3561959.783 0
SO SRCPARAM 39664E4 .0151198 8.53 701.48 27.86 .51
** NMED source ID=39664EQPT5 Facility's ID=ENG-4
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664E5 POINT 631596.217 3561952.883 0
SO SRCPARAM 39664E5 .0214197 8.84 688.15 25.51 .61
** NMED source ID=39664EQPT6 Facility's ID=ENG-5
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39664E6 POINT 631597.869 3561944.729 0
SO SRCPARAM 39664E6 .0214197 8.84 688.15 25.51 .61
** NMED source ID=39664EQPT7 Facility's ID=ENG-6
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39664E7 POINT 631604.818 3561939.767 0
SO SRCPARAM 39664E7 .0214197 8.84 688.15 25.51 .61
** NMED source ID=39664EQPT10 Facility's ID=Heater-1
** Description=Seperator Heater Construction date=21-SEP-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664E10 VOLUME 631613.501 3561940.909 0
SO SRCPARAM 39664E10 .00126 3.96 .47 .93
**********END OF 39664: EOG - Boa Localized Gas Lift Station
INFO**********************************
************************************************************
** 8.01km away. Facility ID=39006 Name=EOG - Gunslinger Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1456, -103.4874, WGS84
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** Total Particulate Matter (2.5 microns or less) emissions=3.88tons/year
*****************Facility sources: ******************************
** NMED source ID=39006EQPT2 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.5 MMbtu/hr Construction date=12-OCT-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E2 POINT 642654.162 3557576.66 0
SO SRCPARAM 39006E2 .00126 3.96 588.71 .44 .91
** NMED source ID=39006EQPT3 Facility's ID=Heater-1
** Description=Separator Heater 0.50 MMbtu/hr Construction date=12-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E3 POINT 642661.698 3557583.681 0
SO SRCPARAM 39006E3 .0005796 3.96 588.71 .15 .91
** NMED source ID=39006EQPT4 Facility's ID=ENG-6
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=13-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E4 POINT 642654.912 3557587.233 0
SO SRCPARAM 39006E4 .0214197 6.1 688.15 25.24 .61
** NMED source ID=39006EQPT5 Facility's ID=ENG-1
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=15-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E5 POINT 642647.315 3557585.141 0
SO SRCPARAM 39006E5 .0214197 6.1 688.15 25.24 .61
** NMED source ID=39006EQPT6 Facility's ID=ENG-2
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=15-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E6 POINT 642643.074 3557578.241 0
SO SRCPARAM 39006E6 .0214197 6.1 688.15 25.24 .61
** NMED source ID=39006EQPT7 Facility's ID=ENG-3
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=15-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E7 POINT 642644.726 3557570.087 0
SO SRCPARAM 39006E7 .0151198 8.53 719.26 27.43 .51
** NMED source ID=39006EQPT8 Facility's ID=ENG-4
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=05-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E8 POINT 642651.675 3557565.125 0
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SO SRCPARAM 39006E8 .0151198 8.53 719.26 27.43 .51
** NMED source ID=39006EQPT9 Facility's ID=ENG-5
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=15-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E9 POINT 642660.358 3557566.267 0
SO SRCPARAM 39006E9 .0151198 8.53 719.26 27.43 .51
**********END OF 39006: EOG - Gunslinger Localized Gas Lift Station
INFO**********************************
************************************************************
** 8.1km away. Facility ID=38906 Name=Devon - Bell Lake 19 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199481, -103.6089, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.53tons/year
*****************Facility sources: ****************************
** NMED source ID=38906AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=05-APR-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8568hr/yr, 24hr/day
SO LOCATION 38906A1 VOLUME 631117.163 3563395.354 0
SO SRCPARAM 38906A1 .0277196 10 20 9.3
** NMED source ID=38906EQPT3 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater 1 Construction date=05-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38906E3 VOLUME 631124.699 3563402.375 0
SO SRCPARAM 38906E3 .0037799 9.14 .47 .93
** NMED source ID=38906EQPT16 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater Treater 2 Construction date=23-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7224hr/yr, 24hr/day
SO LOCATION 38906E16 VOLUME 631117.913 3563405.927 0
SO SRCPARAM 38906E16 .0037799 9.14 .47 .93
** NMED source ID=38906EQPT17 Facility's ID=LPC-3
** Description=92 hp Low Pressure Compressor Engine Construction date=06-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7224hr/yr, 24hr/day
SO LOCATION 38906E17 POINT 631110.316 3563403.835 0
SO SRCPARAM 38906E17 .00252 1.8 922.04 67.27 .09
**********END OF 38906: Devon - Bell Lake 19 CTB 3
INFO**********************************
************************************************************
** 8.12km away. Facility ID=7515 Name=Harrier 35 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.17618, -103.44787, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.37tons/year
*****************Facility sources: ****************************
** NMED source ID=7515EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=08-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7515E1 POINT 646333.754 3561019.922 0
SO SRCPARAM 7515E1 .0075599 4.57 1003.71 16.37 .28
** NMED source ID=7515EQPT5 Facility's ID=Heater-1
** Description=Heater Construction date=08-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7515E5 POINT 646341.29 3561026.943 0
SO SRCPARAM 7515E5 .00126 3.05 588.71 3.41 .3
** NMED source ID=7515EQPT6 Facility's ID=Heater-2
** Description=Heater Construction date=08-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7515E6 POINT 646334.504 3561030.495 0
SO SRCPARAM 7515E6 .00126 3.05 588.71 6.83 .3
**********END OF 7515: Harrier 35 Fed Com CTB
INFO**********************************
************************************************************
** 8.14km away. Facility ID=7552 Name=Keller 33 34 Battery
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=10103 NOI
** lat,long,datum=32.26635, -103.46807, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=7552EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-AUG-09
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7552E1 POINT 644286.567 3570989.185 0
SO SRCPARAM 7552E1 .0005796 3.05 310.93 .23 .15
** NMED source ID=7552EQPT2 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-AUG-09
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7552E2 POINT 644294.103 3570996.206 0
SO SRCPARAM 7552E2 .0005796 3.05 310.93 .23 .15
**********END OF 7552: Keller 33 34 Battery
INFO**********************************
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** 8.16km away. Facility ID=33269 Name=Vaca 11 Fed Com No2H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1383, -103.5385, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=33269AREA1 Facility's ID=Haul
** Description=Haul Road Emissions Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8012hr/yr, 24hr/day
SO LOCATION 33269A1 VOLUME 637845.412 3556700.805 0
SO SRCPARAM 33269A1 .0002898 1 .47 .93
** NMED source ID=33269EQPT3 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8012hr/yr, 24hr/day
SO LOCATION 33269E3 VOLUME 637852.948 3556707.826 0
SO SRCPARAM 33269E3 .0005796 4.57 .47 .93
**********END OF 33269: Vaca 11 Fed Com No2H
INFO**********************************
************************************************************
** 8.33km away. Facility ID=32116 Name=Red Hills Enterprise Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.135833, -103.528611, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.02tons/year
*****************Facility sources: ******************************
** NMED source ID=32116EQPT5 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler Construction date=12-FEB-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32116E5 POINT 638781.946 3556440.014 0
SO SRCPARAM 32116E5 .0005796 3.96 588.71 1.31 .3
** NMED source ID=32116EQPT12 Facility's ID=ENG-1
** Description=Caterpillar G3516B 4SLB Compressor Engine Construction date=12-FEB-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7686hr/yr, 21hr/day
SO LOCATION 32116E12 POINT 638789.482 3556447.035 0
SO SRCPARAM 32116E12 .0125998 6.71 812.59 33.68 .4
** NMED source ID=32116EQPT13 Facility's ID=ENG-2
** Description=Caterpillar G3516B 4SLB Compressor Engine Construction date=12-FEB-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7691hr/yr, 21hr/day
SO LOCATION 32116E13 POINT 638782.696 3556450.587 0
```

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SO SRCPARAM 32116E13 .0125998 6.71 812.59 33.68 .4
** NMED source ID=32116EQPT15 Facility's ID=Heater-1
** Description=Separator Heater Construction date=27-MAR-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32116E15 POINT 638775.099 3556448.495 0
SO SRCPARAM 32116E15 .0005796 3.96 588.71 1.31 .3
** NMED source ID=32116EQPT17 Facility's ID=ENG-3
** Description=Caterpillar G3606 A4 4SLB Compressor Engine Construction
date=17-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32116E17 POINT 638770.858 3556441.595 0
SO SRCPARAM 32116E17 .0151198 6.71 719.26 43.22 .4
** NMED source ID=32116EQPT18 Facility's ID=ENG-4
** Description=Caterpillar G3606 A4 4SLB Compressor Engine Construction
date=17-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32116E18 POINT 638772.51 3556433.441 0
SO SRCPARAM 32116E18 .0151198 6.71 719.26 43.22 .4
**********END OF 32116: Red Hills Enterprise Compressor Station
INFO************************************
************************************************************
** 8.4km away. Facility ID=40265 Name=Honey Buzzard 35 State Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1714, -103.4477, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=40265EQPT1 Facility's ID=HTR-1
** Description=1.5 MM Btu/h Heater Treater Construction date=30-DEC-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40265E1 VOLUME 646357.43 3560490.227 0
SO SRCPARAM 40265E1 .00126 6.1 .47 .93
**********END OF 40265: Honey Buzzard 35 State Com CTB
INFO************************************
************************************************************
** 8.42km away. Facility ID=38540 Name=Nocaster 19 Federal Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.284086, -103.502861, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.11tons/year
*****************Facility sources: ******************************
** NMED source ID=38540EQPT4 Facility's ID=HT-01
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** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38540E4 VOLUME 640981.968 3572909.206 0
SO SRCPARAM 38540E4 .00126 4.57 .47 .93
** NMED source ID=38540EQPT7 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38540E7 POINT 640989.504 3572916.227 0
SO SRCPARAM 38540E7 .00252 4.88 833.15 41.39 .25
**********END OF 38540: Nocaster 19 Federal Battery
INFO**********************************
************************************************************
** 8.45km away. Facility ID=32167 Name=EOG - Vaca 14 Fed No 3H, 4H & 6H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.136, -103.541, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.3tons/year
*****************Facility sources: ******************************
** NMED source ID=32167EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine CAT G3306 NA Construction date=01-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32167E2 POINT 637613.05 3556442.627 0
SO SRCPARAM 32167E2 .00252 3.41 867.04 24.35 .13
** NMED source ID=32167EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32167E3 POINT 637620.586 3556449.648 0
SO SRCPARAM 32167E3 .0037799 4.57 261.28 23.96 .15
** NMED source ID=32167EQPT6 Facility's ID=Heater-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7127hr/yr, 20hr/day
SO LOCATION 32167E6 VOLUME 637613.8 3556453.2 0
SO SRCPARAM 32167E6 .0005796 6.1 .47 .93
** NMED source ID=32167EQPT7 Facility's ID=Heater-2
** Description=Heater Construction date=01-JAN-20
** SCC=31000128
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7127hr/yr, 20hr/day
SO LOCATION 32167E7 VOLUME 637606.203 3556451.108 0
SO SRCPARAM 32167E7 .0005796 6.1 .47 .93
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** NMED source ID=32167EQPT8 Facility's ID=Heater-3
** Description=Heater Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7127hr/yr, 20hr/day
SO LOCATION 32167E8 VOLUME 637601.962 3556444.208 0
SO SRCPARAM 32167E8 .0005796 6.1 .47 .93
**********END OF 32167: EOG - Vaca 14 Fed No 3H, 4H & 6H
INFO**********************************
************************************************************
** 8.46km away. Facility ID=38462 Name=Dee Boot Fee CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.195, -103.436, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.16tons/year
****************Facility sources: ****************************
** NMED source ID=38462AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=11-JAN-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38462A1 VOLUME 647422.625 3563122.588 0
SO SRCPARAM 38462A1 .0002898 1 .47 .93
** NMED source ID=38462EQPT1 Facility's ID=ENG-1
** Description=Gas Lift Compressor Construction date=11-JAN-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38462E1 POINT 647430.161 3563129.609 0
SO SRCPARAM 38462E1 .0037799 4.52 1000.37 50.22 .15
** NMED source ID=38462EQPT11 Facility's ID=HTR-1
** Description=Heater Treater 1, Burner Construction date=11-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38462E11 VOLUME 647423.375 3563133.161 0
SO SRCPARAM 38462E11 .0002898 4.6 .47 .93
** NMED source ID=38462EQPT16 Facility's ID=HTR-2
** Description=Heater Treater 2 Burner Construction date=11-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38462E16 VOLUME 647415.778 3563131.069 0
SO SRCPARAM 38462E16 .0002898 4.6 .47 .93
**********END OF 38462: Dee Boot Fee CTB INFO**********************************
************************************************************
** 8.47km away. Facility ID=38314 Name=Mamba South CTB Production Facility
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.184, -103.6082, WGS84
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** Total Particulate Matter (2.5 microns or less) emissions=.58tons/year
*****************Facility sources: ****************************
** NMED source ID=38314EQPT15 Facility's ID=HTR-1
** Description=Heater 1.5 MMBtu/hr Construction date=06-JUL-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38314E15 POINT 631205.361 3561679.984 0
SO SRCPARAM 38314E15 .00126 5.18 588.71 6.83 .3
** NMED source ID=38314EQPT16 Facility's ID=ENG-1
** Description=Compressor Engine CAT 1380-hp Construction date=06-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38314E16 POINT 631212.897 3561687.005 0
SO SRCPARAM 38314E16 .0138598 7.01 806.48 59.04 .3
** NMED source ID=38314RPNT3 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=06-JUL-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8779hr/yr, 24hr/day
SO LOCATION 38314R3 VOLUME 631206.111 3561690.557 0
SO SRCPARAM 38314R3 .00126 1 .47 .93
**********END OF 38314: Mamba South CTB Production Facility
INFO***********************************
************************************************************
** 8.59km away. Facility ID=38163 Name=Broadcaster 29 Fed 3H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7579 NOI
** lat,long,datum=32.282401, -103.490591, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=38163AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=04-APR-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38163A1 VOLUME 642140.148 3572738.597 0
SO SRCPARAM 38163A1 .0002898 1 .47 .93
** NMED source ID=38163EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38163E4 VOLUME 642147.684 3572745.618 0
SO SRCPARAM 38163E4 .00126 6.71 .47 .93
** NMED source ID=38163EQPT6 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=01-JUN-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38163E6 VOLUME 642140.898 3572749.17 0
SO SRCPARAM 38163E6 .00126 6.71 .47 .93
**********END OF 38163: Broadcaster 29 Fed 3H Battery
INFO**********************************
************************************************************
** 8.61km away. Facility ID=38538 Name=Stratocaster 20-1H Federal Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7919 NOI
** lat,long,datum=32.2848, -103.498242, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=38538AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=29-JUN-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38538A1 VOLUME 641415.863 3572994.445 0
SO SRCPARAM 38538A1 .00126 1 .47 .93
** NMED source ID=38538EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38538E4 VOLUME 641423.399 3573001.466 0
SO SRCPARAM 38538E4 .00126 6.71 .47 .93
**********END OF 38538: Stratocaster 20-1H Federal Battery
INFO**********************************
************************************************************
** 8.62km away. Facility ID=40730 Name=Zion Compressor Station
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257089, -103.450687, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.25tons/year
*****************Facility sources: ****************************
** NMED source ID=40730EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=01-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E2 POINT 645938.799 3569985.978 0
SO SRCPARAM 40730E2 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40730EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=01-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E3 POINT 645946.335 3569992.999 0
SO SRCPARAM 40730E3 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40730EQPT4 Facility's ID=ENG-3
```

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** Description=Compressor Engine Construction date=01-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E4 POINT 645939.549 3569996.551 0
SO SRCPARAM 40730E4 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40730EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=01-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E5 POINT 645931.952 3569994.459 0
SO SRCPARAM 40730E5 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40730EQPT7 Facility's ID=REB-1
** Description=Dehydrator Reboiler Construction date=01-DEC-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E7 POINT 645927.711 3569987.559 0
SO SRCPARAM 40730E7 .00126 5.79 533.15 .07 .46
**********END OF 40730: Zion Compressor Station
INFO**********************************
************************************************************
** 8.65km away. Facility ID=33138 Name=Cimarex - Tres Equis 5 State 1H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=5378 NOI
** lat,long,datum=32.253069, -103.600731, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.65tons/year
*****************Facility sources: ******************************
** NMED source ID=33138EQPT1 Facility's ID=ENG1
** Description=Ajax DPC 2802LE 384 hp Construction date=24-JUL-14
** SCC=20200252
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33138E1 POINT 631809.808 3569346.156 0
SO SRCPARAM 33138E1 .0186981 6.61 513.71 13.99 .36
**********END OF 33138: Cimarex - Tres Equis 5 State 1H
INFO**********************************
************************************************************
** 8.69km away. Facility ID=39254 Name=Getty 5 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1544, -103.588, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1tons/year
*****************Facility sources: ******************************
** NMED source ID=39254AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=13-DEC-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8741hr/yr, 24hr/day
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SO LOCATION 39254A1 VOLUME 633152.853 3558423.349 0
SO SRCPARAM 39254A1 .0050399 1 .47 .93
** NMED source ID=39254EQPT10 Facility's ID=HTR-1
** Description=1.5 MMBtu/hr Heater Construction date=13-DEC-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8741hr/yr, 24hr/day
SO LOCATION 39254E10 POINT 633160.389 3558430.37 0
SO SRCPARAM 39254E10 .00252 5.18 588.71 6.83 .3
** NMED source ID=39254EQPT11 Facility's ID=FracHTR-1
** Description=0.5 MMBtu/hr Heater Construction date=13-DEC-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39254E11 POINT 633153.603 3558433.922 0
SO SRCPARAM 39254E11 .00126 5.18 588.71 2.29 .3
** NMED source ID=39254EQPT12 Facility's ID=FracENG-1
** Description=400 hp CG137-8 Caterpillar NG Engine Construction date=13-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39254E12 POINT 633146.006 3558431.83 0
SO SRCPARAM 39254E12 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39254EQPT13 Facility's ID=FracENG-2
** Description=400 hp CG137-8 Caterpillar NG Engine Construction date=13-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39254E13 POINT 633141.765 3558424.93 0
SO SRCPARAM 39254E13 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39254EQPT14 Facility's ID=FracENG-3
** Description=400 hp CG137-8 Caterpillar NG Engine Construction date=13-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39254E14 POINT 633143.417 3558416.776 0
SO SRCPARAM 39254E14 .0075599 6.1 790.93 23.04 .2
**********END OF 39254: Getty 5 Fed Com CTB
INFO**********************************
************************************************************
** 8.86km away. Facility ID=38404 Name=Cimarex - Canyonlands 2 State Com 1H and 2H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=7807 NOI
** lat,long,datum=32.242197, -103.437575, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.3tons/year
*****************Facility sources: ****************************
** NMED source ID=38404RPNT5 Facility's ID=FUGAREA
** Description=Haul Road Fugitives Construction date=05-JUL-18
** SCC=31000299
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38404R5 VOLUME 647198.057 3568352.888 0
SO SRCPARAM 38404R5 .0125998 10 10 9.3
**********END OF 38404: Cimarex - Canyonlands 2 State Com 1H and 2H
INFO**********************************
************************************************************
** 8.93km away. Facility ID=33215 Name=Thistle North Central CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5424 NOI
** lat,long,datum=32.284, -103.562, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.09tons/year
*****************Facility sources: ****************************
** NMED source ID=33215AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33215A1 VOLUME 635412.602 3572823.459 0
SO SRCPARAM 33215A1 .0277196 10 20 9.3
** NMED source ID=33215EQPT4 Facility's ID=HT-1
** Description=Heater_EQ000171100 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33215E4 VOLUME 635420.138 3572830.48 0
SO SRCPARAM 33215E4 .0005796 9.14 .47 .93
** NMED source ID=33215EQPT12 Facility's ID=HT-2
** Description=Heater_EQ000171102 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33215E12 VOLUME 635413.352 3572834.032 0
SO SRCPARAM 33215E12 .00126 9.14 .47 .93
**********END OF 33215: Thistle North Central CTB
INFO**********************************
************************************************************
** 8.96km away. Facility ID=32644 Name=Bell Lake 19 ST 1H CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5159 NOI
** lat,long,datum=32.196464, -103.617564, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.22tons/year
*****************Facility sources: ****************************
** NMED source ID=32644AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32644A1 VOLUME 630304.775 3563050.354 0
SO SRCPARAM 32644A1 .0277196 10 20 9.3
** NMED source ID=32644EQPT16 Facility's ID=HT-2
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** Description=Heater_EQ000143592 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32644E16 VOLUME 630312.311 3563057.375 0
SO SRCPARAM 32644E16 .0005796 9.14 .47 .93
** NMED source ID=32644EQPT18 Facility's ID=HT-1
** Description=Heater_EQ000062993 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32644E18 VOLUME 630305.525 3563060.927 0
SO SRCPARAM 32644E18 .0005796 9.14 .47 .93
** NMED source ID=32644EQPT25 Facility's ID=ENG-1
** Description=Engine 1 Construction date=21-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32644E25 POINT 630297.928 3563058.835 0
SO SRCPARAM 32644E25 .0037799 3.6 853.15 19.79 .17
**********END OF 32644: Bell Lake 19 ST 1H CTB
INFO**********************************
************************************************************
** 9.04km away. Facility ID=30327 Name=Thistle Unit 20H CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4439 NOI
** lat,long,datum=32.282539, -103.568286, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.76tons/year
*****************Facility sources: ******************************
** NMED source ID=30327AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8352hr/yr, 24hr/day
SO LOCATION 30327A1 VOLUME 634822.775 3572653.569 0
SO SRCPARAM 30327A1 1.0898827 10 90 9.3
** NMED source ID=30327EQPT2 Facility's ID=Heater_5928
** Description=Heater_EQ000175928 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8352hr/yr, 24hr/day
SO LOCATION 30327E2 VOLUME 634830.311 3572660.59 0
SO SRCPARAM 30327E2 .0005796 9.14 .47 .93
**********END OF 30327: Thistle Unit 20H CTB
INFO**********************************
************************************************************
** 9.1km away. Facility ID=6294 Name=Dingo CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.233, -103.431, NAD83
```

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** Total Particulate Matter (2.5 microns or less) emissions=1.15tons/year
*****************Facility sources: ******************************
** NMED source ID=6294EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=18-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6294E1 POINT 647832.462 3567342.299 0
SO SRCPARAM 6294E1 .0075599 4.57 806.48 22.62 .2
** NMED source ID=6294EQPT4 Facility's ID=GEN-1
** Description=Generator Engine Construction date=18-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6294E4 POINT 647839.998 3567349.32 0
SO SRCPARAM 6294E4 .0075599 4.57 1005.37 27.31 .2
** NMED source ID=6294EQPT5 Facility's ID=GEN-2
** Description=Generator Engine Construction date=18-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6294E5 POINT 647833.212 3567352.872 0
SO SRCPARAM 6294E5 .0075599 4.57 1005.37 27.31 .2
** NMED source ID=6294EQPT6 Facility's ID=GEN-3
** Description=Generator Engine Construction date=18-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6294E6 POINT 647825.615 3567350.78 0
SO SRCPARAM 6294E6 .0075599 4.57 1005.37 27.31 .2
** NMED source ID=6294EQPT7 Facility's ID=HT-1
** Description=Heater Treater Construction date=18-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6294E7 VOLUME 647821.374 3567343.88 0
SO SRCPARAM 6294E7 .00252 4.57 .47 .93
**********END OF 6294: Dingo CTB INFO************************************
************************************************************
** 9.14km away. Facility ID=5701 Name=Betty 5 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.15573, -103.59618, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.59tons/year
*****************Facility sources: ******************************
** NMED source ID=5701EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 5701E1 POINT 632379.481 3558560.701 0
SO SRCPARAM 5701E1 .0075599 3.96 803.71 58.52 .13
** NMED source ID=5701EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5701E2 POINT 632387.017 3558567.722 0
SO SRCPARAM 5701E2 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=5701EQPT5 Facility's ID=HTR-1
** Description=Heater Treater Construction date=12-JAN-24
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5701E5 POINT 632380.231 3558571.274 0
SO SRCPARAM 5701E5 .00126 4.88 588.71 .21 1.22
** NMED source ID=5701EQPT6 Facility's ID=HTR-2
** Description=Heater Treater Construction date=12-JAN-24
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5701E6 POINT 632372.634 3558569.182 0
SO SRCPARAM 5701E6 .00126 4.88 588.71 .21 1.22
**********END OF 5701: Betty 5 Fed Com CTB INFO**********************************
************************************************************
** 9.17km away. Facility ID=39517 Name=Antero 14 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1298, -103.5431, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.62tons/year
*****************Facility sources: ******************************
** NMED source ID=39517EQPT9 Facility's ID=HTR-1
** Description=Heater Treater Construction date=05-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39517E9 POINT 637424.257 3555752.611 0
SO SRCPARAM 39517E9 .00126 4.88 588.71 .21 1.22
** NMED source ID=39517EQPT10 Facility's ID=HTR-2
** Description=Heater Construction date=05-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39517E10 POINT 637431.793 3555759.632 0
SO SRCPARAM 39517E10 .00126 4.88 588.71 .21 1.22
** NMED source ID=39517EQPT21 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=11-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39517E21 POINT 637425.007 3555763.184 0
SO SRCPARAM 39517E21 .0075599 3.96 803.71 59.13 .13
** NMED source ID=39517EQPT22 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=11-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39517E22 POINT 637417.41 3555761.092 0
SO SRCPARAM 39517E22 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=39517EQPT23 Facility's ID=HTR-3
** Description=Heater Construction date=11-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39517E23 POINT 637413.169 3555754.192 0
SO SRCPARAM 39517E23 .00126 4.88 588.71 .21 1.22
**********END OF 39517: Antero 14 Fed Com CTB
INFO**********************************
************************************************************
** 9.36km away. Facility ID=34175 Name=Cimarex Energy - Dos Equis 13 Federal 1H and
2H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223961, -103.621961, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.63tons/year
*****************Facility sources: ******************************
** NMED source ID=34175EQPT2 Facility's ID=H1
** Description=Heater Treater 0.5 MMBtu/hr Construction date=13-NOV-14
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8430hr/yr, 23hr/day
SO LOCATION 34175E2 VOLUME 629851.204 3566093.353 0
SO SRCPARAM 34175E2 .00126 4.57 .47 .93
** NMED source ID=34175EQPT3 Facility's ID=GLYEX
** Description=Glycol Reboiler, 2.0 MMBtu/hr Construction date=13-NOV-14
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34175E3 POINT 629858.74 3566100.374 0
SO SRCPARAM 34175E3 .00126 3.05 477.59 4.05 .15
** NMED source ID=34175EQPT13 Facility's ID=ENG4
** Description=Compressor Engine 415HP Construction date=27-MAR-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34175E13 POINT 629851.954 3566103.926 0
SO SRCPARAM 34175E13 .0075599 4.27 864.82 32.37 .2
** NMED source ID=34175EQPT15 Facility's ID=H2
** Description=Heater Treater 0.5 MMBtu/hr Construction date=27-MAR-19
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8430hr/yr, 23hr/day
SO LOCATION 34175E15 VOLUME 629844.357 3566101.834 0
SO SRCPARAM 34175E15 .00126 4.57 .47 .93
** NMED source ID=34175RPNT1 Facility's ID=FUGAREA
** Description=Haul Roads Fugitives Emissions Construction date=13-NOV-14
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8430hr/yr, 23hr/day
SO LOCATION 34175R1 VOLUME 629840.116 3566094.934 0
SO SRCPARAM 34175R1 .0113398 10 10 9.3
**********END OF 34175: Cimarex Energy - Dos Equis 13 Federal 1H and 2H
INFO**********************************
************************************************************
** 9.39km away. Facility ID=38486 Name=XTO - Mis Amigos Production Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.258333, -103.606111, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.43tons/year
*****************Facility sources: ******************************
** NMED source ID=38486RPNT3 Facility's ID=Road
** Description=Haul Roads Construction date=05-JUL-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38486R3 VOLUME 631295.396 3569923.135 0
SO SRCPARAM 38486R3 .1688373 10 10 9.3
**********END OF 38486: XTO - Mis Amigos Production Battery
INFO**********************************
************************************************************
** 9.42km away. Facility ID=39089 Name=EOG - Taipan Adder 31 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1706, -103.612, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.33tons/year
*****************Facility sources: ******************************
** NMED source ID=39089AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=22-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7930hr/yr, 24hr/day
SO LOCATION 39089A1 VOLUME 630866.272 3560189.833 0
SO SRCPARAM 39089A1 .0125998 10 10 9.3
** NMED source ID=39089EQPT7 Facility's ID=Frac ENG-1
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39089E7 POINT 630873.808 3560196.854 0
SO SRCPARAM 39089E7 .0075599 6.1 790.93 23.04 .2
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** NMED source ID=39089EQPT8 Facility's ID=Frac ENG-2
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39089E8 POINT 630867.022 3560200.406 0
SO SRCPARAM 39089E8 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39089EQPT9 Facility's ID=Frac ENG-3
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39089E9 POINT 630859.425 3560198.314 0
SO SRCPARAM 39089E9 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39089EQPT10 Facility's ID=Frac HTR-1
** Description=Heater, 0.5-MMBtu/hr Construction date=22-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39089E10 POINT 630855.184 3560191.414 0
SO SRCPARAM 39089E10 .00126 5.18 588.71 2.29 .3
** NMED source ID=39089EQPT11 Facility's ID=HTR-1
** Description=Heater, 1.5-MMBtu/hr Construction date=22-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6082hr/yr, 24hr/day
SO LOCATION 39089E11 POINT 630856.836 3560183.26 0
SO SRCPARAM 39089E11 .00252 5.18 588.71 6.86 .3
**********END OF 39089: EOG - Taipan Adder 31 State CTB
INFO**********************************
************************************************************
** 9.43km away. Facility ID=40221 Name=Appaloosa 18 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1267, -103.51, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
*****************Facility sources: ****************************
** NMED source ID=40221EQPT1 Facility's ID=HTR-1W
** Description=Heater Treater Construction date=12-NOV-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40221E1 VOLUME 640551.522 3555451.658 0
SO SRCPARAM 40221E1 .00126 6.1 .47 .93
** NMED source ID=40221EQPT12 Facility's ID=HTR-1E
** Description=Heater Treater Construction date=10-MAY-22
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40221E12 VOLUME 640559.058 3555458.679 0
```

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SO SRCPARAM 40221E12 .00126 6.1 .47 .93
**********END OF 40221: Appaloosa 18 Fed Com CTB
INFO**********************************
************************************************************
** 9.44km away. Facility ID=31863 Name=XTO - Mis Amigos and Estancia Tank Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.254722, -103.609444, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.8tons/year
*****************Facility sources: ****************************
** NMED source ID=31863EQPT20 Facility's ID=GEN1
** Description=Generator 581 hp Construction date=07-JUN-19
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31863E20 POINT 630986.608 3569518.743 0
SO SRCPARAM 31863E20 .0163797 4.57 1005.37 215.25 .09
** NMED source ID=31863EQPT21 Facility's ID=GEN2
** Description=Generator 581 hp Construction date=07-JUN-19
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31863E21 POINT 630994.144 3569525.764 0
SO SRCPARAM 31863E21 .0163797 4.57 1005.37 215.25 .09
** NMED source ID=31863EQPT22 Facility's ID=GEN3
** Description=Generator 581 hp Construction date=07-JUN-19
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31863E22 POINT 630987.358 3569529.316 0
SO SRCPARAM 31863E22 .0163797 4.57 1005.37 215.25 .09
** NMED source ID=31863RPNT1 Facility's ID=ROAD
** Description=Haul Roads Construction date=03-DEC-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31863R1 VOLUME 630979.761 3569527.224 0
SO SRCPARAM 31863R1 .0037799 1 .47 .93
**********END OF 31863: XTO - Mis Amigos and Estancia Tank Battery
INFO**********************************
************************************************************
** 9.45km away. Facility ID=38309 Name=Copperhead Compressor Station
** Company ID=265 Name=Targa Midstream Services LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.212128, -103.624164, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.82tons/year
*****************Facility sources: ****************************
** NMED source ID=38309EQPT2 Facility's ID=H-1
** Description=3.0 MMBtu/hr Construction date=05-APR-18
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7884hr/yr, 22hr/day
SO LOCATION 38309E2 POINT 629660.397 3564778.884 0
SO SRCPARAM 38309E2 .00252 4.57 477.59 .52 1.07
** NMED source ID=38309EQPT13 Facility's ID=EM-1b
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E13 POINT 629667.933 3564785.905 0
SO SRCPARAM 38309E13 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT14 Facility's ID=EM-1a
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E14 POINT 629661.147 3564789.457 0
SO SRCPARAM 38309E14 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT15 Facility's ID=EM-2a
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E15 POINT 629653.55 3564787.365 0
SO SRCPARAM 38309E15 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT16 Facility's ID=EM-2b
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E16 POINT 629649.309 3564780.465 0
SO SRCPARAM 38309E16 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT17 Facility's ID=EM-3a
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E17 POINT 629650.961 3564772.311 0
SO SRCPARAM 38309E17 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT18 Facility's ID=EM-3b
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E18 POINT 629657.91 3564767.349 0
SO SRCPARAM 38309E18 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT19 Facility's ID=EM-4b
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E19 POINT 629666.593 3564768.491 0
SO SRCPARAM 38309E19 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT20 Facility's ID=EM-4a
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E20 POINT 629672.303 3564775.419 0
SO SRCPARAM 38309E20 .00252 4.51 734.26 119.27 .2
**********END OF 38309: Copperhead Compressor Station
INFO**********************************
************************************************************
** 9.5km away. Facility ID=38905 Name=Ruiz Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=4922 NAIC=48621    Permit=unknown
** lat,long,datum=32.143056, -103.5855, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.58tons/year
*****************Facility sources: ****************************
** NMED source ID=38905EQPT18 Facility's ID=ENG-1
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8228hr/yr, 24hr/day
SO LOCATION 38905E18 POINT 633405.15 3557168.851 0
SO SRCPARAM 38905E18 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT20 Facility's ID=ENG-2
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7506hr/yr, 24hr/day
SO LOCATION 38905E20 POINT 633412.686 3557175.872 0
SO SRCPARAM 38905E20 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT21 Facility's ID=ENG-3
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7123hr/yr, 24hr/day
SO LOCATION 38905E21 POINT 633405.9 3557179.424 0
SO SRCPARAM 38905E21 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT22 Facility's ID=ENG-4
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1306hr/yr, 24hr/day
SO LOCATION 38905E22 POINT 633398.303 3557177.332 0
SO SRCPARAM 38905E22 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT23 Facility's ID=ENG-5
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E23 POINT 633394.062 3557170.432 0
SO SRCPARAM 38905E23 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT24 Facility's ID=ENG-6
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E24 POINT 633395.714 3557162.278 0
SO SRCPARAM 38905E24 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT25 Facility's ID=ENG-7
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E25 POINT 633402.663 3557157.316 0
SO SRCPARAM 38905E25 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT26 Facility's ID=ENG-8
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E26 POINT 633411.346 3557158.458 0
SO SRCPARAM 38905E26 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT27 Facility's ID=ENG-9
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E27 POINT 633417.056 3557165.386 0
SO SRCPARAM 38905E27 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT28 Facility's ID=ENG-10
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E28 POINT 633416.491 3557174.567 0
SO SRCPARAM 38905E28 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT32 Facility's ID=GEN-1
** Description=Natural Gas Generator CAT G3406 276 hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E32 POINT 633409.656 3557181.045 0
SO SRCPARAM 38905E32 .0050399 7.32 814.82 27.46 .38
**********END OF 38905: Ruiz Compressor Station
INFO**********************************
************************************************************
** 9.54km away. Facility ID=39575 Name=Bandit Compressor Station
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** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.1753, -103.6162, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=6.89tons/year
*****************Facility sources: ****************************
** NMED source ID=39575EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E1 POINT 630463.543 3560705.772 0
SO SRCPARAM 39575E1 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E2 POINT 630471.079 3560712.793 0
SO SRCPARAM 39575E2 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E3 POINT 630464.293 3560716.345 0
SO SRCPARAM 39575E3 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E4 POINT 630456.696 3560714.253 0
SO SRCPARAM 39575E4 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT5 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E5 POINT 630452.455 3560707.353 0
SO SRCPARAM 39575E5 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT6 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E6 POINT 630454.107 3560699.199 0
SO SRCPARAM 39575E6 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT7 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E7 POINT 630461.056 3560694.237 0
SO SRCPARAM 39575E7 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT8 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E8 POINT 630469.739 3560695.379 0
SO SRCPARAM 39575E8 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT9 Facility's ID=ENG-9
** Description=Caterpillar G3608LE 2500hp Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E9 POINT 630475.449 3560702.307 0
SO SRCPARAM 39575E9 .0214197 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT19 Facility's ID=RBL-1
** Description=Dehy Reboiler 2.0 MM BTU/h Construction date=25-JUN-20
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E19 POINT 630474.884 3560711.488 0
SO SRCPARAM 39575E19 .00252 6.1 588.71 .15 1.83
** NMED source ID=39575EQPT20 Facility's ID=HTR-1
** Description=Heater Treater Construction date=25-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E20 POINT 630468.049 3560717.966 0
SO SRCPARAM 39575E20 .00252 6.1 588.71 .15 1.83
**********END OF 39575: Bandit Compressor Station
INFO**********************************
************************************************************
** 9.59km away. Facility ID=35315 Name=Thistle Unit 28 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6200 NOI
** lat,long,datum=32.282458, -103.580006, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.12tons/year
*****************Facility sources: ****************************
** NMED source ID=35315AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35315A1 VOLUME 633719.138 3572629.916 0
SO SRCPARAM 35315A1 .0277196 10 20 9.3
** NMED source ID=35315EQPT5 Facility's ID=Heater_3915
** Description=Heater_EQ000013915 Construction date=01-JAN-20
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35315E5 VOLUME 633726.674 3572636.937 0
SO SRCPARAM 35315E5 .0005796 9.14 .47 .93
** NMED source ID=35315EQPT15 Facility's ID=31 Heater Treater
** Description=Heater Treater Construction date=30-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35315E15 VOLUME 633719.888 3572640.489 0
SO SRCPARAM 35315E15 .00126 9.14 .47 .93
**********END OF 35315: Thistle Unit 28 CTB 1
INFO**********************************
************************************************************
** 9.65km away. Facility ID=40015 Name=Dos Equis Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.237985, -103.621083, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.78tons/year
*****************Facility sources: ****************************
** NMED source ID=40015EQPT4 Facility's ID=ENG-2
** Description=Compressor Engine (1775 hp) 4SLB Construction date=17-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40015E4 POINT 629913.984 3567649.122 0
SO SRCPARAM 40015E4 .0151198 4.51 729.82 27.01 .24
** NMED source ID=40015EQPT5 Facility's ID=ENG-3
** Description=Compressor Engine (1775 hp) 4SLB Construction date=17-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40015E5 POINT 629921.52 3567656.143 0
SO SRCPARAM 40015E5 .0151198 4.51 729.82 27.01 .24
** NMED source ID=40015EQPT6 Facility's ID=ENG-4
** Description=Compressor Engine (1775 hp) 4SLB Construction date=17-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40015E6 POINT 629914.734 3567659.695 0
SO SRCPARAM 40015E6 .0151198 4.51 729.82 27.01 .24
** NMED source ID=40015EQPT7 Facility's ID=ENG-5
** Description=Compressor Engine (1775 hp) 4SLB Construction date=17-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40015E7 POINT 629907.137 3567657.603 0
SO SRCPARAM 40015E7 .0151198 4.51 729.82 27.01 .24
** NMED source ID=40015EQPT10 Facility's ID=RBL-1
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** Description=Dehy Reboiler (1.0 MMBTU/hr) Construction date=17-JUN-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8641hr/yr, 24hr/day
SO LOCATION 40015E10 POINT 629902.896 3567650.703 0
SO SRCPARAM 40015E10 .00126 3.05 588.71 1.98 .3
** NMED source ID=40015EQPT11 Facility's ID=RBL-2
** Description=Dehy Reboiler (1.0 MMBTU/hr) Construction date=17-JUN-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40015E11 POINT 629904.548 3567642.549 0
SO SRCPARAM 40015E11 .00126 3.05 588.71 1.98 .3
** NMED source ID=40015EQPT13 Facility's ID=ENG-6
** Description=Compressor Engine (1875 hp) 4SLB Construction date=30-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2190hr/yr, 6hr/day
SO LOCATION 40015E13 POINT 629911.497 3567637.587 0
SO SRCPARAM 40015E13 .0163797 4.51 729.82 27.01 .24
**********END OF 40015: Dos Equis Compressor Station
INFO**********************************
************************************************************
** 9.65km away. Facility ID=30182 Name=Thistle Unit 18 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4406 NOI
** lat,long,datum=32.282547, -103.581053, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.26tons/year
*****************Facility sources: ******************************
** NMED source ID=30182AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 30182A1 VOLUME 633620.404 3572638.478 0
SO SRCPARAM 30182A1 1.0898827 10 90 9.3
** NMED source ID=30182EQPT5 Facility's ID=Heater_4866
** Description=Heater_EQ000114866 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 30182E5 VOLUME 633627.94 3572645.499 0
SO SRCPARAM 30182E5 .0005796 9.14 .47 .93
**********END OF 30182: Thistle Unit 18 Battery
INFO**********************************
************************************************************
** 9.66km away. Facility ID=33938 Name=Cimarex - Tres Equis State
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.25301, -103.61342, WGS84
```

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** Total Particulate Matter (2.5 microns or less) emissions=.39tons/year
*****************Facility sources: ****************************
** NMED source ID=33938AREA1 Facility's ID=HR
** Description=Hauling Roads Construction date=06-JAN-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33938A1 VOLUME 630614.5 3569324.103 0
SO SRCPARAM 33938A1 .0113398 10 10 9.3
** NMED source ID=33938EQPT18 Facility's ID=H-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8768hr/yr, 24hr/day
SO LOCATION 33938E18 POINT 630622.036 3569331.124 0
SO SRCPARAM 33938E18 .00126 4.57 477.59 4.05 .15
** NMED source ID=33938EQPT19 Facility's ID=H-2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8768hr/yr, 24hr/day
SO LOCATION 33938E19 POINT 630615.25 3569334.676 0
SO SRCPARAM 33938E19 .00126 4.57 477.59 4.05 .15
** NMED source ID=33938EQPT20 Facility's ID=H-3
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8768hr/yr, 24hr/day
SO LOCATION 33938E20 POINT 630607.653 3569332.584 0
SO SRCPARAM 33938E20 .00126 4.57 477.59 4.05 .15
** NMED source ID=33938EQPT24 Facility's ID=ENG3
** Description=Compressor Engine, Cat G3306TA, 203-hp Construction date=06-JAN-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33938E24 POINT 630603.412 3569325.684 0
SO SRCPARAM 33938E24 .0037799 3.66 841.48 37.16 .13
**********END OF 33938: Cimarex - Tres Equis State
INFO**********************************
************************************************************
** 9.69km away. Facility ID=39553 Name=Bull Run Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1564, -103.6044, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=8.42tons/year
*****************Facility sources: ****************************
** NMED source ID=39553EQPT1 Facility's ID=RBL-1
** Description=Dehydrator Reboiler Construction date=17-JUN-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E1 POINT 631603.309 3558624.896 0
SO SRCPARAM 39553E1 .00252 6.1 588.71 .22 1.83
** NMED source ID=39553EQPT2 Facility's ID=HTR-1
** Description=Separator heater Construction date=17-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E2 POINT 631610.845 3558631.917 0
SO SRCPARAM 39553E2 .00252 6.1 588.71 .15 1.83
** NMED source ID=39553EQPT3 Facility's ID=ENG-1
** Description=Removed-Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 39553E3 POINT 631604.059 3558635.469 0
SO SRCPARAM 39553E3 -.0478792 8.84 688.15 25.51 .61
** NMED source ID=39553EQPT4 Facility's ID=ENG-2
** Description=Removed-Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 39553E4 POINT 631596.462 3558633.377 0
SO SRCPARAM 39553E4 -.0478792 8.84 688.15 25.51 .61
** NMED source ID=39553EQPT5 Facility's ID=ENG-3
** Description=Removed-Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 39553E5 POINT 631592.221 3558626.477 0
SO SRCPARAM 39553E5 -.0478792 8.84 688.15 25.51 .61
** NMED source ID=39553EQPT6 Facility's ID=ENG-4
** Description=Removed-Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 39553E6 POINT 631593.873 3558618.323 0
SO SRCPARAM 39553E6 -.0478792 8.84 688.15 25.51 .61
** NMED source ID=39553EQPT7 Facility's ID=ENG-5
** Description=Removed-Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=0hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 39553E7 POINT 631600.822 3558613.361 0
SO SRCPARAM 39553E7 -.0478792 8.84 688.15 25.51 .61
** NMED source ID=39553EQPT8 Facility's ID=ENG-6
** Description=Removed-Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 39553E8 POINT 631609.505 3558614.503 0
SO SRCPARAM 39553E8 -.0478792 8.84 688.15 25.51 .61
** NMED source ID=39553EQPT9 Facility's ID=ENG-7
** Description=Removed-Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 39553E9 POINT 631615.215 3558621.431 0
SO SRCPARAM 39553E9 -.0478792 8.84 688.15 25.51 .61
** NMED source ID=39553EQPT10 Facility's ID=ENG-8
** Description=Removed-Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 39553E10 POINT 631614.65 3558630.612 0
SO SRCPARAM 39553E10 -.0478792 8.84 688.15 25.51 .61
** NMED source ID=39553EQPT11 Facility's ID=ENG-9
** Description=Removed-Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 39553E11 POINT 631607.815 3558637.09 0
SO SRCPARAM 39553E11 -.0478792 8.84 688.15 25.51 .61
** NMED source ID=39553EQPT21 Facility's ID=ENG-1
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E21 POINT 631598.179 3558637.167 0
SO SRCPARAM 39553E21 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT22 Facility's ID=ENG-2
** Description=Natural Gas Engine Construction date=01-JUL-22
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E22 POINT 631590.918 3558630.501 0
SO SRCPARAM 39553E22 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT23 Facility's ID=ENG-3
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E23 POINT 631590.138 3558620.455 0
SO SRCPARAM 39553E23 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT24 Facility's ID=ENG-4
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E24 POINT 631596.556 3558612.404 0
SO SRCPARAM 39553E24 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT25 Facility's ID=ENG-5
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E25 POINT 631606.958 3558610.863 0
SO SRCPARAM 39553E25 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT26 Facility's ID=ENG-6
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E26 POINT 631615.798 3558616.955 0
SO SRCPARAM 39553E26 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT27 Facility's ID=ENG-7
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E27 POINT 631618.155 3558627.653 0
SO SRCPARAM 39553E27 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT28 Facility's ID=ENG-8
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E28 POINT 631612.471 3558637.274 0
SO SRCPARAM 39553E28 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT29 Facility's ID=ENG-9
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E29 POINT 631601.541 3558640.496 0
SO SRCPARAM 39553E29 .0214197 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT30 Facility's ID=ENG-10
** Description=Compressor Engine Construction date=01-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E30 POINT 631591.154 3558635.301 0
SO SRCPARAM 39553E30 .0428393 8.84 849.26 15.88 .61
**********END OF 39553: Bull Run Compressor Station
INFO**********************************
************************************************************
** 9.71km away. Facility ID=33339 Name=Tumbling Dice 2 State Com No 1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1528, -103.4467, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=33339AREA1 Facility's ID=HAUL
** Description=Haul Road Emissions Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5953hr/yr, 21hr/day
SO LOCATION 33339A1 VOLUME 646481.489 3558429.535 0
SO SRCPARAM 33339A1 .00126 1 .47 .93
** NMED source ID=33339EQPT4 Facility's ID=HTR-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5267hr/yr, 21hr/day
SO LOCATION 33339E4 VOLUME 646489.025 3558436.556 0
SO SRCPARAM 33339E4 .0005796 4.57 .47 .93
**********END OF 33339: Tumbling Dice 2 State Com No 1H
INFO**********************************
************************************************************
** 9.76km away. Facility ID=39528 Name=Devon- Danger Noodle 29 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.271288, -103.598597, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.52tons/year
*****************Facility sources: ******************************
** NMED source ID=39528AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=06-MAY-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528A1 VOLUME 631984.471 3571368.563 0
SO SRCPARAM 39528A1 .0277196 10 20 9.3
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** NMED source ID=39528EQPT1 Facility's ID=HT-1
** Description=Heater Treater  3 MMBtu/hr Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E1 VOLUME 631992.007 3571375.584 0
SO SRCPARAM 39528E1 .0037799 9.14 .47 .93
** NMED source ID=39528EQPT2 Facility's ID=GEN-1
** Description=Generator 1 550 HP Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E2 POINT 631985.221 3571379.136 0
SO SRCPARAM 39528E2 .0100798 3.51 1005.37 77.48 .15
** NMED source ID=39528EQPT3 Facility's ID=GEN-2
** Description=Generator 2 550 HP Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E3 POINT 631977.624 3571377.044 0
SO SRCPARAM 39528E3 .0100798 3.51 1005.37 77.48 .15
** NMED source ID=39528EQPT4 Facility's ID=GEN-3
** Description=Generator 3 550 HP Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E4 POINT 631973.383 3571370.144 0
SO SRCPARAM 39528E4 .0100798 3.51 1005.37 77.48 .15
** NMED source ID=39528EQPT16 Facility's ID=HT-2
** Description=Heater Treater  3 MMBtu/hr Construction date=25-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E16 VOLUME 631975.035 3571361.99 0
SO SRCPARAM 39528E16 .0037799 9.14 .47 .93
**********END OF 39528: Devon- Danger Noodle 29 CTB 1
INFO**********************************
************************************************************
** 9.78km away. Facility ID=39794 Name=Devon - Bell Lake 24 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.200308, -103.626987, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.31tons/year
*****************Facility sources: ****************************
** NMED source ID=39794AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Road Construction date=16-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39794A1 VOLUME 629411.071 3563465.117 0
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SO SRCPARAM 39794A1 .0277196 10 20 9.3
** NMED source ID=39794EQPT3 Facility's ID=HT-1
** Description=Heater Treater Construction date=16-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39794E3 VOLUME 629418.607 3563472.138 0
SO SRCPARAM 39794E3 .0037799 9.14 .47 .93
** NMED source ID=39794EQPT13 Facility's ID=LPC 3
** Description=92 hp, GM 5.7L engine/compressor Construction date=18-FEB-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39794E13 POINT 629411.821 3563475.69 0
SO SRCPARAM 39794E13 .00252 2.68 922.04 67.27 .08
**********END OF 39794: Devon - Bell Lake 24 CTB 3
INFO**********************************
************************************************************
** 9.86km away. Facility ID=38552 Name=EOG - Caballo Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.124931, -103.550833, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.35tons/year
*****************Facility sources: ******************************
** NMED source ID=38552EQPT1 Facility's ID=ENG-2
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8227hr/yr, 23hr/day
SO LOCATION 38552E1 POINT 636702.024 3555202.991 0
SO SRCPARAM 38552E1 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38552EQPT2 Facility's ID=ENG-4
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8667hr/yr, 24hr/day
SO LOCATION 38552E2 POINT 636709.56 3555210.012 0
SO SRCPARAM 38552E2 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38552EQPT3 Facility's ID=ENG-5
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8634hr/yr, 24hr/day
SO LOCATION 38552E3 POINT 636702.774 3555213.564 0
SO SRCPARAM 38552E3 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38552EQPT4 Facility's ID=ENG-6
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38552E4 POINT 636695.177 3555211.472 0
SO SRCPARAM 38552E4 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38552EQPT8 Facility's ID=Heater-1
** Description=Separator Heater Construction date=01-AUG-18
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38552E8 POINT 636690.936 3555204.572 0
SO SRCPARAM 38552E8 .0005796 7 730 28 .3
** NMED source ID=38552EQPT10 Facility's ID=ENG-3
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7494hr/yr, 21hr/day
SO LOCATION 38552E10 POINT 636692.588 3555196.418 0
SO SRCPARAM 38552E10 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38552EQPT16 Facility's ID=Reboiler-1
** Description=Reboiler Dehydrator Construction date=01-AUG-18
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38552E16 POINT 636699.537 3555191.456 0
SO SRCPARAM 38552E16 .00126 7 730 28 .3
** NMED source ID=38552EQPT17 Facility's ID=ENG-1
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38552E17 POINT 636708.22 3555192.598 0
SO SRCPARAM 38552E17 .0151198 8.53 719.26 27.43 .51
**********END OF 38552: EOG - Caballo Localized Gas Lift Station
INFO**********************************
************************************************************
** 9.87km away. Facility ID=38015 Name=Devon - Thistle Unit 22 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.295333, -103.554583, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.77tons/year
*****************Facility sources: ****************************
** NMED source ID=38015AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=20-DEC-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38015A1 VOLUME 636094.17 3574089.257 0
SO SRCPARAM 38015A1 .0277196 10 20 9.3
** NMED source ID=38015EQPT1 Facility's ID=HT-1
** Description=1.0 MMBtu/hr Heater treater Construction date=20-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38015E1 VOLUME 636101.706 3574096.278 0
SO SRCPARAM 38015E1 .00126 9.14 .47 .93
** NMED source ID=38015EQPT2 Facility's ID=HT-2
** Description=1.0 MMBtu/hr Heater treater Construction date=20-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38015E2 VOLUME 636094.92 3574099.83 0
SO SRCPARAM 38015E2 .00126 9.14 .47 .93
** NMED source ID=38015EQPT3 Facility's ID=HT-3
** Description=1.0 MMBtu/hr Heater treater Construction date=20-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38015E3 VOLUME 636087.323 3574097.738 0
SO SRCPARAM 38015E3 .00126 9.14 .47 .93
** NMED source ID=38015EQPT4 Facility's ID=HT-4
** Description=1.0 MMBtu/hr Heater treater Construction date=20-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38015E4 VOLUME 636083.082 3574090.838 0
SO SRCPARAM 38015E4 .00126 9.14 .47 .93
** NMED source ID=38015EQPT5 Facility's ID=HT-5
** Description=1.0 MMBtu/hr Heater treater Construction date=20-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38015E5 VOLUME 636084.734 3574082.684 0
SO SRCPARAM 38015E5 .00126 9.14 .47 .93
** NMED source ID=38015EQPT7 Facility's ID=LPC-1
** Description=188hp Low Pressure Compressor Engine w/NSCR catalyst Construction
date=20-DEC-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38015E7 POINT 636091.683 3574077.722 0
SO SRCPARAM 38015E7 .0037799 2.5 919.82 51.44 .1
** NMED source ID=38015EQPT8 Facility's ID=LPC-2
** Description=188hp Low Pressure Compressor Engine w/NSCR catalyst Construction
date=20-DEC-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38015E8 POINT 636100.366 3574078.864 0
SO SRCPARAM 38015E8 .0037799 2.5 919.82 51.44 .1
** NMED source ID=38015EQPT9 Facility's ID=MPC-1
** Description=188hp Mid Pressure Compressor Engine w/NSCR catalyst Construction
date=20-DEC-18
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38015E9 POINT 636106.076 3574085.792 0
SO SRCPARAM 38015E9 .0037799 2.5 919.82 51.44 .1
**********END OF 38015: Devon - Thistle Unit 22 CTB 2
INFO**********************************
************************************************************
** 9.89km away. Facility ID=7643 Name=Silver Train 17 Fed Com West CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.126333, -103.490483, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.58tons/year
*****************Facility sources: ****************************
** NMED source ID=7643EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=14-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7643E1 POINT 642393.314 3555436.607 0
SO SRCPARAM 7643E1 .0075599 4.88 1000.37 14.94 .28
** NMED source ID=7643EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=14-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7643E2 POINT 642400.85 3555443.628 0
SO SRCPARAM 7643E2 .0075599 4.57 803.71 22.07 .2
** NMED source ID=7643EQPT5 Facility's ID=Heater-1
** Description=Heater Treater Construction date=14-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7643E5 VOLUME 642394.064 3555447.18 0
SO SRCPARAM 7643E5 .00126 3.96 .47 .93
** NMED source ID=7643EQPT6 Facility's ID=Heater-2
** Description=Heater Treater Construction date=14-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7643E6 VOLUME 642386.467 3555445.088 0
SO SRCPARAM 7643E6 .00126 5.18 .47 .93
**********END OF 7643: Silver Train 17 Fed Com West CTB
INFO**********************************
************************************************************
** 9.97km away. Facility ID=40980 Name=Supreme Federal 21M CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9905 NOI
** lat,long,datum=32.285524, -103.581822, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.14tons/year
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**********Facility sources: ******************************
** NMED source ID=40980AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=28-MAR-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40980A1 VOLUME 633543.617 3572967.557 0
SO SRCPARAM 40980A1 .0005796 1 .47 .93
** NMED source ID=40980EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=28-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40980E1 POINT 633551.153 3572974.578 0
SO SRCPARAM 40980E1 .00252 3.66 874.82 17.89 .15
** NMED source ID=40980EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=28-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40980E4 VOLUME 633544.367 3572978.13 0
SO SRCPARAM 40980E4 .00126 6.71 .47 .93
**********END OF 40980: Supreme Federal 21M CTB
INFO**********************************
************************************************************
** 9.98km away. Facility ID=40084 Name=EOG - Streetcar Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1284, -103.5662, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=6.85tons/year
**********Facility sources: ******************************
** NMED source ID=40084EQPT9 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler, 2.0 MMBtu/hr Construction date=23-JUL-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E9 POINT 635247.18 3555568.165 0
SO SRCPARAM 40084E9 .00252 3.96 588.71 5.3 .3
** NMED source ID=40084EQPT10 Facility's ID=Heater-1
** Description=Seperator heater, 0.75 MMBtu/hr Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E10 VOLUME 635254.716 3555575.186 0
SO SRCPARAM 40084E10 .00126 3.96 .47 .93
** NMED source ID=40084EQPT11 Facility's ID=ENG-1
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40084E11 POINT 635247.93 3555578.738 0
SO SRCPARAM 40084E11 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT12 Facility's ID=ENG-2
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E12 POINT 635240.333 3555576.646 0
SO SRCPARAM 40084E12 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT13 Facility's ID=ENG-3
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E13 POINT 635236.092 3555569.746 0
SO SRCPARAM 40084E13 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT14 Facility's ID=ENG-4
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E14 POINT 635237.744 3555561.592 0
SO SRCPARAM 40084E14 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT15 Facility's ID=ENG-5
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E15 POINT 635244.693 3555556.63 0
SO SRCPARAM 40084E15 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT16 Facility's ID=ENG-6
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E16 POINT 635253.376 3555557.772 0
SO SRCPARAM 40084E16 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT17 Facility's ID=ENG-7
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E17 POINT 635259.086 3555564.7 0
SO SRCPARAM 40084E17 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT18 Facility's ID=ENG-8
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E18 POINT 635258.521 3555573.881 0
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SO SRCPARAM 40084E18 .0214197 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT19 Facility's ID=ENG-9
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E19 POINT 635251.686 3555580.359 0
SO SRCPARAM 40084E19 .0214197 6.1 712.59 46.02 .46
**********END OF 40084: EOG - Streetcar Compressor Station
INFO**********************************
************************************************************
** 10.02km away. Facility ID=38711 Name=Devon - Flagler 8 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.140547, -103.590822, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.1tons/year
*****************Facility sources: ******************************
** NMED source ID=38711AREA1 Facility's ID=ROAD-1
** Description=Haul roads Construction date=29-NOV-18
** SCC=31000299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38711A1 VOLUME 632906.814 3556884.122 0
SO SRCPARAM 38711A1 .3275948 10 30 9.3
**********END OF 38711: Devon - Flagler 8 CTB 3
INFO**********************************
************************************************************
** 10.02km away. Facility ID=39368 Name=EOG- Caballo Sec 23 Tank Battery
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.122, -103.5429, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.21tons/year
*****************Facility sources: ******************************
** NMED source ID=39368AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=06-FEB-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
SO LOCATION 39368A1 VOLUME 637454.82 3554888.155 0
SO SRCPARAM 39368A1 .0050399 1 .47 .93
** NMED source ID=39368EQPT1 Facility's ID=HT-1
** Description=Heater Construction date=06-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
SO LOCATION 39368E1 POINT 637462.356 3554895.176 0
SO SRCPARAM 39368E1 .0005796 3.96 588.71 2.26 .3
** NMED source ID=39368EQPT2 Facility's ID=HT-2
** Description=Heater Construction date=06-FEB-20
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
SO LOCATION 39368E2 POINT 637455.57 3554898.728 0
SO SRCPARAM 39368E2 .0005796 3.96 588.71 2.26 .3
** NMED source ID=39368EQPT3 Facility's ID=HT-3
** Description=Heater Construction date=06-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
SO LOCATION 39368E3 POINT 637447.973 3554896.636 0
SO SRCPARAM 39368E3 .0005796 3.96 588.71 2.26 .3
** NMED source ID=39368EQPT4 Facility's ID=HT-4
** Description=Heater Construction date=06-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
SO LOCATION 39368E4 POINT 637443.732 3554889.736 0
SO SRCPARAM 39368E4 .0005796 3.96 588.71 2.26 .3
** NMED source ID=39368EQPT5 Facility's ID=HT-5
** Description=Heater Construction date=06-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
SO LOCATION 39368E5 POINT 637445.384 3554881.582 0
SO SRCPARAM 39368E5 .0005796 3.96 588.71 2.26 .3
** NMED source ID=39368EQPT6 Facility's ID=HT-6
** Description=Heater Construction date=06-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
SO LOCATION 39368E6 POINT 637452.333 3554876.62 0
SO SRCPARAM 39368E6 .0005796 3.96 588.71 2.26 .3
** NMED source ID=39368EQPT7 Facility's ID=HT-7
** Description=Heater Construction date=06-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8478hr/yr, 24hr/day
SO LOCATION 39368E7 POINT 637461.016 3554877.762 0
SO SRCPARAM 39368E7 .0005796 3.96 588.71 2.26 .3
**********END OF 39368: EOG- Caballo Sec 23 Tank Battery
INFO**********************************
************************************************************
** 10.03km away. Facility ID=6434 Name=Shurvesa Booster Station
** Company ID=14250 Name=ETP Crude LLC
** SIC=4612 NAIC=48611    Permit=10026 NOI
** lat,long,datum=32.24171, -103.623783, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.48tons/year
****************Facility sources: ****************************
** NMED source ID=6434EQPT2 Facility's ID=GEN-1
** Description=Diesel generator Construction date=07-DEC-23
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** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6434E2 POINT 629654.292 3568058.814 0
SO SRCPARAM 6434E2 .0050399 2.87 705.37 34.5 .25
** NMED source ID=6434EQPT3 Facility's ID=GEN-2
** Description=Diesel generator Construction date=07-DEC-23
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6434E3 POINT 629661.828 3568065.835 0
SO SRCPARAM 6434E3 .0050399 2.87 705.37 34.5 .25
** NMED source ID=6434EQPT4 Facility's ID=GEN-3
** Description=Diesel generator Construction date=07-DEC-23
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6434E4 POINT 629655.042 3568069.387 0
SO SRCPARAM 6434E4 .0050399 2.87 705.37 34.5 .25
**********END OF 6434: Shurvesa Booster Station
INFO**********************************
************************************************************
** 10.04km away. Facility ID=39298 Name=Dos Equis 12-13 Fed 5H 6H 73H 86H Facility
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.23617, -103.62615, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.73tons/year
*****************Facility sources: ****************************
** NMED source ID=39298AREA1 Facility's ID=HR
** Description=Haul Road Construction date=15-MAR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298A1 VOLUME 629439.134 3567441.791 0
SO SRCPARAM 39298A1 .0113398 10 10 9.3
** NMED source ID=39298EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=14-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E1 VOLUME 629446.67 3567448.812 0
SO SRCPARAM 39298E1 .00126 4.57 .47 .93
** NMED source ID=39298EQPT2 Facility's ID=HTR-2
** Description=Heater Treater Construction date=14-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E2 VOLUME 629439.884 3567452.364 0
SO SRCPARAM 39298E2 .00126 4.57 .47 .93
** NMED source ID=39298EQPT5 Facility's ID=Flare 1
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** Description=Flare Construction date=14-JAN-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E5 POINT 629432.287 3567450.272 0
SO SRCPARAM 39298E5 .0037799 12.19 1273 20 .53
** NMED source ID=39298EQPT6 Facility's ID=Flare 2
** Description=High Pressure Flare Construction date=14-JAN-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E6 POINT 629428.046 3567443.372 0
SO SRCPARAM 39298E6 .0002898 15.24 1273 20 20.806
** NMED source ID=39298EQPT13 Facility's ID=Flare 1 SSM
** Description=Flare Construction date=06-APR-20
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E13 POINT 629429.698 3567435.218 0
SO SRCPARAM 39298E13 .0074843 12.19 1273 20 .53
** NMED source ID=39298EQPT14 Facility's ID=Flare 2 SSM
** Description=High Pressure Flare Construction date=06-APR-20
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E14 POINT 629436.647 3567430.256 0
SO SRCPARAM 39298E14 .0048887 15.24 1273 20 2.632
**********END OF 39298: Dos Equis 12-13 Fed 5H 6H 73H 86H Facility
INFO**********************************
************************************************************
** 10.06km away. Facility ID=38670 Name=Thistle Unit 22 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=8043 NOI
** lat,long,datum=32.296528, -103.556944, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.5tons/year
*****************Facility sources: ******************************
** NMED source ID=38670EQPT1 Facility's ID=Engine_6370
** Description=Engine_EQ000246370 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7584hr/yr, 24hr/day
SO LOCATION 38670E1 POINT 635870.065 3574218.744 0
SO SRCPARAM 38670E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=38670EQPT2 Facility's ID=ENG 3
** Description=Engine 3 Construction date=24-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38670E2 POINT 635877.601 3574225.765 0
SO SRCPARAM 38670E2 .0075599 5.85 772.59 31.91 .27
```

**********END OF 38670: Thistle Unit 22 Wellpad 2
INFO**********
**********
** 10.07km away. Facility ID=36055 Name=Thistle Unit 22 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6532 NOI
** lat,long,datum=32.295608, -103.560217, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
**********Facility sources: **********
** NMED source ID=36055AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 36055A1 VOLUME 635563.239 3574112.606 0
SO SRCPARAM 36055A1 .0277196 10 20 9.3
** NMED source ID=36055EQPT6 Facility's ID=HT-1
** Description=Heater_EQ000061302 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36055E6 VOLUME 635570.775 3574119.627 0
SO SRCPARAM 36055E6 .0005796 9.14 .47 .93
** NMED source ID=36055EQPT14 Facility's ID=HT-2
** Description=Heater_EQ000061108 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36055E14 VOLUME 635563.989 3574123.179 0
SO SRCPARAM 36055E14 .0005796 9.14 .47 .93
**********END OF 36055: Thistle Unit 22 CTB 1
INFO**********
**********
** 10.1km away. Facility ID=35592 Name=Brininstool Compressor Station
** Company ID=265 Name=Targa Midstream Services LLC
** SIC=1311 NAIC=21112    Permit=6317 Title V
** lat,long,datum=32.300228, -103.540425, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=12.48tons/year
**********Facility sources: **********
** NMED source ID=35592EQPT30 Facility's ID=C-09
** Description=1478 hp Waukesha RICE 4SRB Construction date=03-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8193hr/yr, 22hr/day
SO LOCATION 35592E30 POINT 637419.961 3574649.994 0
SO SRCPARAM 35592E30 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT31 Facility's ID=C-10
** Description=1478 hp Waukesha RICE 4SRB Construction date=03-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day

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** Actual operating rate=8299hr/yr, 23hr/day
SO LOCATION 35592E31 POINT 637427.497 3574657.015 0
SO SRCPARAM 35592E31 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT32 Facility's ID=C-02a
** Description=1478 hp Waukesha RICE 4SRB Construction date=10-JUL-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8246hr/yr, 23hr/day
SO LOCATION 35592E32 POINT 637420.711 3574660.567 0
SO SRCPARAM 35592E32 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT33 Facility's ID=C-01a
** Description=1478 hp Waukesha RICE 4SRB Construction date=16-NOV-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8207hr/yr, 22hr/day
SO LOCATION 35592E33 POINT 637413.114 3574658.475 0
SO SRCPARAM 35592E33 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT34 Facility's ID=C-08a
** Description=1478 hp Waukesha RICE 4SRB Construction date=25-FEB-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8162hr/yr, 22hr/day
SO LOCATION 35592E34 POINT 637408.873 3574651.575 0
SO SRCPARAM 35592E34 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT35 Facility's ID=C-13
** Description=1478 hp Waukesha RICE 4SRB Construction date=18-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E35 POINT 637410.525 3574643.421 0
SO SRCPARAM 35592E35 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT39 Facility's ID=C-11
** Description=1875 hp Waukesha RICE 4SLB Construction date=18-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4321hr/yr, 12hr/day
SO LOCATION 35592E39 POINT 637417.474 3574638.459 0
SO SRCPARAM 35592E39 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT40 Facility's ID=C-12
** Description=1875 hp Waukesha RICE 4SLB Construction date=18-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E40 POINT 637426.157 3574639.601 0
SO SRCPARAM 35592E40 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT41 Facility's ID=C-07a
** Description=1478 hp Waukesha RICE 4SRB Construction date=29-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 35592E41 POINT 637431.867 3574646.529 0
SO SRCPARAM 35592E41 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT42 Facility's ID=C-03
** Description=1478 hp Waukesha RICE 4SRB Construction date=06-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E42 POINT 637431.302 3574655.71 0
SO SRCPARAM 35592E42 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT43 Facility's ID=C-05a
** Description=1478 hp Waukesha RICE 4SRB Construction date=13-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E43 POINT 637424.467 3574662.188 0
SO SRCPARAM 35592E43 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT45 Facility's ID=C-04
** Description=1478 hp Waukesha RICE 4SRB Construction date=12-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E45 POINT 637414.831 3574662.265 0
SO SRCPARAM 35592E45 .0277196 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT46 Facility's ID=C-06
** Description=1478 hp Waukesha RICE 4SRB Construction date=01-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E46 POINT 637407.57 3574655.599 0
SO SRCPARAM 35592E46 .0277196 12.19 880.93 63.98 .3
**********END OF 35592: Brininstool Compressor Station
INFO**********************************
************************************************************
** 10.16km away. Facility ID=33093 Name=Double X 25 Federal 4H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=5340 NOI
** lat,long,datum=32.195019, -103.630211, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.76tons/year
*****************Facility sources: ****************************
** NMED source ID=33093EQPT5 Facility's ID=H1
** Description=Heater 0.5 MMBTU/h Construction date=24-SEP-14
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6338hr/yr, 17hr/day
SO LOCATION 33093E5 POINT 629114.644 3562874.903 0
SO SRCPARAM 33093E5 .0005796 4.57 810.93 5.26 .15
** NMED source ID=33093EQPT19 Facility's ID=Flare 1 Normal
** Description=Flare (Normal) Construction date=26-JAN-16
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=6338hr/yr, 17hr/day
SO LOCATION 33093E19 POINT 629122.18 3562881.924 0
SO SRCPARAM 33093E19 .0005796 8.23 1273 20 20.806
** NMED source ID=33093EQPT23 Facility's ID=ENG 1
** Description=Compressor Engine Construction date=13-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33093E23 POINT 629115.394 3562885.476 0
SO SRCPARAM 33093E23 .0176397 4.57 1014.82 253.53 .15
** NMED source ID=33093EQPT24 Facility's ID=ENG 2
** Description=Compressor Engine Construction date=13-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33093E24 POINT 629107.797 3562883.384 0
SO SRCPARAM 33093E24 .0037799 3.05 712.04 253.53 .15
**********END OF 33093: Double X 25 Federal 4H
INFO**********************************
************************************************************
** 10.16km away. Facility ID=40288 Name=EOG - Genie Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1266, -103.4816, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=6.85tons/year
*****************Facility sources: ******************************
** NMED source ID=40288EQPT2 Facility's ID=ENG-1
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E2 POINT 643230.919 3555477.986 0
SO SRCPARAM 40288E2 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT3 Facility's ID=ENG-2
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E3 POINT 643238.455 3555485.007 0
SO SRCPARAM 40288E3 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT4 Facility's ID=ENG-3
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E4 POINT 643231.669 3555488.559 0
SO SRCPARAM 40288E4 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT5 Facility's ID=ENG-4
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E5 POINT 643224.072 3555486.467 0
SO SRCPARAM 40288E5 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT6 Facility's ID=ENG-5
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E6 POINT 643219.831 3555479.567 0
SO SRCPARAM 40288E6 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT7 Facility's ID=ENG-6
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E7 POINT 643221.483 3555471.413 0
SO SRCPARAM 40288E7 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT8 Facility's ID=ENG-7
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E8 POINT 643228.432 3555466.451 0
SO SRCPARAM 40288E8 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT9 Facility's ID=ENG-8
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E9 POINT 643237.115 3555467.593 0
SO SRCPARAM 40288E9 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT10 Facility's ID=ENG-9
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E10 POINT 643242.825 3555474.521 0
SO SRCPARAM 40288E10 .0214197 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT13 Facility's ID=Heater-1
** Description=Heater Treater Construction date=23-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E13 VOLUME 643242.26 3555483.702 0
SO SRCPARAM 40288E13 .00126 3.96 .47 .93
** NMED source ID=40288EQPT15 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler Construction date=23-DEC-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E15 POINT 643235.425 3555490.18 0
SO SRCPARAM 40288E15 .00252 3.96 588.71 5.27 .3
**********END OF 40288: EOG - Genie Compressor Station
INFO**********************************
************************************************************
** 10.21km away. Facility ID=38124 Name=Streetcar 15 Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.12386, -103.55911, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.64tons/year
*****************Facility sources: *****************************
** NMED source ID=38124EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38124E1 POINT 635922.758 3555073.785 0
SO SRCPARAM 38124E1 .0075599 3.96 803.71 58.52 .13
** NMED source ID=38124EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38124E2 POINT 635930.294 3555080.806 0
SO SRCPARAM 38124E2 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=38124EQPT5 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38124E5 VOLUME 635923.508 3555084.358 0
SO SRCPARAM 38124E5 .00126 4.88 .47 .93
** NMED source ID=38124EQPT19 Facility's ID=HTR-2
** Description=Heater Treater Construction date=02-NOV-17
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38124E19 VOLUME 635915.911 3555082.266 0
SO SRCPARAM 38124E19 .00126 7.32 .47 .93
** NMED source ID=38124EQPT20 Facility's ID=HTR-3
** Description=Heater Treater Construction date=16-JAN-24
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38124E20 VOLUME 635911.67 3555075.366 0
SO SRCPARAM 38124E20 .00126 4.88 .47 .93
**********END OF 38124: Streetcar 15 Fed CTB
INFO**********************************
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** 10.22km away. Facility ID=41024 Name=North Thistle 15 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9944 NOI
** lat,long,datum=32.298772, -103.55388, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.63tons/year
*****************Facility sources: ******************************
** NMED source ID=41024EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=07-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41024E1 POINT 636155.225 3574471.407 0
SO SRCPARAM 41024E1 .0075599 4.39 778.71 13.8 .26
** NMED source ID=41024EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=07-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41024E2 POINT 636162.761 3574478.428 0
SO SRCPARAM 41024E2 .0075599 4.39 778.71 13.8 .26
** NMED source ID=41024EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=07-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41024E3 POINT 636155.975 3574481.98 0
SO SRCPARAM 41024E3 .0037799 3.6 853.15 19.79 .17
**********END OF 41024: North Thistle 15 Wellpad 3
INFO**********************************
************************************************************
** 10.23km away. Facility ID=38914 Name=Oryx Delaware - Highway 128 Station
** Company ID=13566 Name=Oryx Delaware Oil Transport LLC
** SIC=4612 NAIC=48611    Permit=8259 NOI
** lat,long,datum=32.143528, -103.449564, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.42tons/year
*****************Facility sources: ******************************
** NMED source ID=38914AREA1 Facility's ID=ROAD-1
** Description=0.10 round trip delivery route Construction date=01-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A1 VOLUME 646226.18 3557397.72 0
SO SRCPARAM 38914A1 .00252 1 .47 .93
** NMED source ID=38914AREA2 Facility's ID=ROAD-2
** Description=0.11 round trip delivery route Construction date=01-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A2 VOLUME 646233.716 3557404.741 0
SO SRCPARAM 38914A2 .0037799 1 .47 .93
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** NMED source ID=38914AREA3 Facility's ID=ROAD-3
** Description=0.13 round trip delivery route Construction date=01-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A3 VOLUME 646226.93 3557408.293 0
SO SRCPARAM 38914A3 .0037799 1 .47 .93
** NMED source ID=38914AREA4 Facility's ID=ROAD-4
** Description=0.15 round trip delivery route Construction date=01-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A4 VOLUME 646219.333 3557406.201 0
SO SRCPARAM 38914A4 .0037799 1 .47 .93
** NMED source ID=38914AREA5 Facility's ID=ROAD-5
** Description=0.16 round trip delivery route Construction date=01-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A5 VOLUME 646215.092 3557399.301 0
SO SRCPARAM 38914A5 .0050399 1 .47 .93
** NMED source ID=38914AREA6 Facility's ID=ROAD-6
** Description=0.18 round trip delivery route Construction date=01-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A6 VOLUME 646216.744 3557391.147 0
SO SRCPARAM 38914A6 .0050399 1 .47 .93
** NMED source ID=38914AREA7 Facility's ID=ROAD-7
** Description=0.19 round trip delivery route Construction date=01-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A7 VOLUME 646223.693 3557386.185 0
SO SRCPARAM 38914A7 .0050399 1 .47 .93
** NMED source ID=38914AREA8 Facility's ID=ROAD-8
** Description=0.21 round trip delivery route Construction date=01-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38914A8 VOLUME 646232.376 3557387.327 0
SO SRCPARAM 38914A8 .0062999 1 .47 .93
** NMED source ID=38914EQPT1 Facility's ID=GEN-1
** Description=PSI D146TIC 362 hp generator engine Construction date=01-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5856hr/yr, 24hr/day
SO LOCATION 38914E1 POINT 646238.086 3557394.255 0
SO SRCPARAM 38914E1 .0037799 3 1005.37 50.29 .09
** NMED source ID=38914EQPT2 Facility's ID=GEN-2
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** Description=PSI D146TIC 362 hp generator engine Construction date=01-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5856hr/yr, 24hr/day
SO LOCATION 38914E2 POINT 646237.521 3557403.436 0
SO SRCPARAM 38914E2 .0037799 3 1005.37 50.29 .09
** NMED source ID=38914EQPT3 Facility's ID=GEN-3
** Description=PSI D146TIC 362 hp generator engine Construction date=01-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5856hr/yr, 24hr/day
SO LOCATION 38914E3 POINT 646230.686 3557409.914 0
SO SRCPARAM 38914E3 .0037799 3 1005.37 50.29 .09
** NMED source ID=38914EQPT4 Facility's ID=GEN-4
** Description=PSI D146TIC 362 hp generator engine Construction date=01-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5856hr/yr, 24hr/day
SO LOCATION 38914E4 POINT 646221.05 3557409.991 0
SO SRCPARAM 38914E4 .0037799 3 1005.37 50.29 .09
**********END OF 38914: Oryx Delaware - Highway 128 Station
INFO**********************************
************************************************************
** 10.4km away. Facility ID=41032 Name=North Thistle 15 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9946 NOI
** lat,long,datum=32.298777, -103.56021, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.63tons/year
*****************Facility sources: ******************************
** NMED source ID=41032EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=08-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41032E1 POINT 635559.18 3574463.939 0
SO SRCPARAM 41032E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=41032EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=08-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41032E2 POINT 635566.716 3574470.96 0
SO SRCPARAM 41032E2 .0075599 4.39 778.71 13.8 .26
** NMED source ID=41032EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=08-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41032E3 POINT 635559.93 3574474.512 0
SO SRCPARAM 41032E3 .0037799 3.6 853.15 19.79 .17
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**********END OF 41032: North Thistle 15 Wellpad 2
INFO**********
**********
** 10.43km away. Facility ID=40305 Name=EOG - Driver 14 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3024, -103.5456, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.6tons/year
**********Facility sources: **********
** NMED source ID=40305EQPT1 Facility's ID=HT-1
** Description=Heater Treater, 1.5 MMBty/hr Construction date=02-FEB-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40305E1 VOLUME 636929.419 3574884.166 0
SO SRCPARAM 40305E1 .00126 5.18 .47 .93
** NMED source ID=40305EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine, Cat G3606TALE (1875hp) Construction date=02-FEB-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40305E2 POINT 636936.955 3574891.187 0
SO SRCPARAM 40305E2 .0151198 9.14 702.04 34.59 .46
**********END OF 40305: EOG - Driver 14 Fed Com CTB
INFO**********
**********
** 10.47km away. Facility ID=40978 Name=Calzone Federal 20 O CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9904 NOI
** lat,long,datum=32.285957, -103.590343, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.14tons/year
**********Facility sources: **********
** NMED source ID=40978AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=08-MAR-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40978A1 VOLUME 632740.531 3573004.98 0
SO SRCPARAM 40978A1 .0005796 1 .47 .93
** NMED source ID=40978EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=20-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40978E1 POINT 632748.067 3573012.001 0
SO SRCPARAM 40978E1 .00252 3.66 874.82 17.89 .15
** NMED source ID=40978EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=08-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40978E4 VOLUME 632741.281 3573015.553 0
SO SRCPARAM 40978E4 .00126 6.71 .47 .93
**********END OF 40978: Calzone Federal 20 O CTB
INFO**********************************
************************************************************
** 10.52km away. Facility ID=40813 Name=North Thistle 15 Wellpad 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9801 NOI
** lat,long,datum=32.298695, -103.564315, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.59tons/year
*****************Facility sources: ****************************
** NMED source ID=40813EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=13-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40813E1 POINT 635172.773 3574449.665 0
SO SRCPARAM 40813E1 .0125998 5.85 772.59 21.02 .27
** NMED source ID=40813EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=13-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40813E2 POINT 635180.309 3574456.686 0
SO SRCPARAM 40813E2 .0037799 3.6 853.15 19.79 .17
**********END OF 40813: North Thistle 15 Wellpad 4
INFO**********************************
************************************************************
** 10.56km away. Facility ID=32557 Name=Bell Lake 24 1H Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5138 NOI
** lat,long,datum=32.196442, -103.634739, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=32557AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32557A1 VOLUME 628685.802 3563027.227 0
SO SRCPARAM 32557A1 .0277196 10 20 9.3
** NMED source ID=32557EQPT19 Facility's ID=HT-1
** Description=Heater_EQ000151572 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32557E19 VOLUME 628693.338 3563034.248 0
SO SRCPARAM 32557E19 .0005796 9.14 .47 .93
**********END OF 32557: Bell Lake 24 1H Battery
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INFO**********************************
************************************************************
** 10.6km away. Facility ID=38860 Name=Devon - North Thistle 15 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.301106, -103.558861, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.79tons/year
*****************Facility sources: ******************************
** NMED source ID=38860AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=22-MAR-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38860A1 VOLUME 635682.732 3574723.846 0
SO SRCPARAM 38860A1 .0277196 10 20 9.3
** NMED source ID=38860EQPT13 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater treater 1 Construction date=22-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38860E13 VOLUME 635690.268 3574730.867 0
SO SRCPARAM 38860E13 .00252 9.14 .47 .93
** NMED source ID=38860EQPT14 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater treater 2 Construction date=22-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38860E14 VOLUME 635683.482 3574734.419 0
SO SRCPARAM 38860E14 .00252 9.14 .47 .93
** NMED source ID=38860EQPT15 Facility's ID=LPC-1
** Description=188 hp Cummins G855 Construction date=22-MAR-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38860E15 POINT 635675.885 3574732.327 0
SO SRCPARAM 38860E15 .0037799 2.5 949.82 64.8 .1
** NMED source ID=38860EQPT16 Facility's ID=LPC-2
** Description=188 hp Cummins G855 Construction date=22-MAR-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38860E16 POINT 635671.644 3574725.427 0
SO SRCPARAM 38860E16 .0037799 2.5 949.82 64.8 .1
** NMED source ID=38860EQPT17 Facility's ID=LPC-3
** Description=188 hp Cummins G855 Construction date=22-MAR-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38860E17 POINT 635673.296 3574717.273 0
SO SRCPARAM 38860E17 .0037799 2.5 949.82 64.8 .1
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**********END OF 38860: Devon - North Thistle 15 CTB 2
INFO**********
**********
** 10.66km away. Facility ID=38713 Name=Devon - Flagler 8 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.14055, -103.601158, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.1tons/year
**********Facility sources: **********
** NMED source ID=38713AREA1 Facility's ID=ROAD-1
** Description=Haul roads Construction date=29-NOV-18
** SCC=31000299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38713A1 VOLUME 631931.884 3556871.742 0
SO SRCPARAM 38713A1 .3275948 10 30 9.3
**********END OF 38713: Devon - Flagler 8 CTB 1
INFO**********
**********
** 10.71km away. Facility ID=40494 Name=Ocotillo Sunrise Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.13605, -103.45194, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.12tons/year
**********Facility sources: **********
** NMED source ID=40494AREA1 Facility's ID=ROAD-1
** Description=HAUL ROADS Construction date=06-JUL-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40494A1 VOLUME 646013.988 3556565.465 0
SO SRCPARAM 40494A1 .0214197 10 20 9.3
** NMED source ID=40494EQPT4 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=06-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40494E4 VOLUME 646021.524 3556572.486 0
SO SRCPARAM 40494E4 .0005796 9.14 .47 .93
** NMED source ID=40494EQPT14 Facility's ID=ENG-1
** Description=VRU ENGINE Construction date=02-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2160hr/yr, 24hr/day
SO LOCATION 40494E14 POINT 646014.738 3556576.038 0
SO SRCPARAM 40494E14 .00126 6.1 1005.37 8.58 .21
**********END OF 40494: Ocotillo Sunrise Tank Battery
INFO**********
**********
** 10.71km away. Facility ID=38999 Name=EOG - Snake Localized Gas Lift Station
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** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.156394, -103.617806, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.47tons/year
*****************Facility sources: ****************************
** NMED source ID=38999EQPT1 Facility's ID=ENG-1
** Description=1875 HP CAT G3606A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8291hr/yr, 23hr/day
SO LOCATION 38999E1 POINT 630339.041 3558607.916 0
SO SRCPARAM 38999E1 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38999EQPT2 Facility's ID=ENG-2
** Description=1875 HP CAT G3606A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8156hr/yr, 22hr/day
SO LOCATION 38999E2 POINT 630346.577 3558614.937 0
SO SRCPARAM 38999E2 .00126 8.53 719.26 27.43 .51
** NMED source ID=38999EQPT3 Facility's ID=ENG-3
** Description=1875 HP CAT G3606A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7625hr/yr, 21hr/day
SO LOCATION 38999E3 POINT 630339.791 3558618.489 0
SO SRCPARAM 38999E3 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38999EQPT4 Facility's ID=ENG-4
** Description=2500 HP CAT G3608A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38999E4 POINT 630332.194 3558616.397 0
SO SRCPARAM 38999E4 .0214197 8.84 718.15 26 .61
** NMED source ID=38999EQPT5 Facility's ID=ENG-5
** Description=2500 HP CAT G3608A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7080hr/yr, 24hr/day
SO LOCATION 38999E5 POINT 630327.953 3558609.497 0
SO SRCPARAM 38999E5 .0214197 8.84 256.48 26 .61
** NMED source ID=38999EQPT6 Facility's ID=ENG-6
** Description=2500 HP CAT G3608A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38999E6 POINT 630329.605 3558601.343 0
SO SRCPARAM 38999E6 .0214197 8.84 718.15 26 .61
** NMED source ID=38999EQPT12 Facility's ID=Reboiler-1
** Description=1 MMbtu/hr Dehydrator Reboiler Construction date=06-JUN-19
** SCC=31000228
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38999E12 POINT 630336.554 3558596.381 0
SO SRCPARAM 38999E12 .00126 3.96 588.71 2.62 .3
** NMED source ID=38999EQPT13 Facility's ID=Heater-1
** Description=0.5 MMbtu/hr Separator Heater Construction date=06-JUN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38999E13 POINT 630345.237 3558597.523 0
SO SRCPARAM 38999E13 .00126 3.96 588.71 1.31 .3
**********END OF 38999: EOG - Snake Localized Gas Lift Station
INFO************************************
************************************************************
** 10.82km away. Facility ID=40433 Name=Mad Dog 26-35 Battery No1
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.281524, -103.445396, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.08tons/year
*****************Facility sources: ******************************
** NMED source ID=40433AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=17-AUG-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433A1 VOLUME 646397.99 3572702.169 0
SO SRCPARAM 40433A1 .0088199 10 10 9.3
** NMED source ID=40433EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=04-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E1 POINT 646405.526 3572709.19 0
SO SRCPARAM 40433E1 .0075599 6.17 695.37 37.61 .25
** NMED source ID=40433EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=04-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E2 POINT 646398.74 3572712.742 0
SO SRCPARAM 40433E2 .0037799 4.11 894.82 36.33 .13
** NMED source ID=40433EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=04-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E3 POINT 646391.143 3572710.65 0
SO SRCPARAM 40433E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40433EQPT9 Facility's ID=GEN-01
** Description=Generator Engine Construction date=17-AUG-22
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E9 POINT 646386.902 3572703.75 0
SO SRCPARAM 40433E9 .0100798 4.51 840.37 179.41 .09
** NMED source ID=40433EQPT11 Facility's ID=HT-01
** Description=Heater Treater Construction date=04-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E11 VOLUME 646388.554 3572695.596 0
SO SRCPARAM 40433E11 .00252 4.57 .47 .93
** NMED source ID=40433EQPT12 Facility's ID=HT-02
** Description=Heater Treater Construction date=04-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E12 VOLUME 646395.503 3572690.634 0
SO SRCPARAM 40433E12 .00126 4.57 .47 .93
** NMED source ID=40433EQPT13 Facility's ID=HT-03
** Description=Heater Treater Construction date=17-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E13 VOLUME 646404.186 3572691.776 0
SO SRCPARAM 40433E13 .00126 4.57 .47 .93
** NMED source ID=40433EQPT31 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=09-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E31 POINT 646409.896 3572698.704 0
SO SRCPARAM 40433E31 .0088199 4.42 989.82 70.41 .13
** NMED source ID=40433EQPT32 Facility's ID=GEN-02
** Description=Generator Engine Construction date=09-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E32 POINT 646409.331 3572707.885 0
SO SRCPARAM 40433E32 .0100798 4.51 840.37 179.41 .09
** NMED source ID=40433EQPT33 Facility's ID=GEN-03
** Description=Generator Engine Construction date=09-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E33 POINT 646402.496 3572714.363 0
SO SRCPARAM 40433E33 .0100798 4.51 840.37 179.41 .09
** NMED source ID=40433EQPT34 Facility's ID=HT-04
** Description=Heater Treater Construction date=09-NOV-23
** SCC=31000107
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E34 POINT 646392.86 3572714.44 0
SO SRCPARAM 40433E34 .00126 4.57 533.15 3.93 .46
**********END OF 40433: Mad Dog 26-35 Battery No1
INFO**********************************
************************************************************
** 10.83km away. Facility ID=5799 Name=Queso Federal 36 J CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=10000 NOI
** lat,long,datum=32.257989, -103.624332, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=5799AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=16-JUN-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5799A1 VOLUME 629579.439 3569862.852 0
SO SRCPARAM 5799A1 .0005796 1 .47 .93
** NMED source ID=5799EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5799E3 VOLUME 629586.975 3569869.873 0
SO SRCPARAM 5799E3 .00126 4.57 .47 .93
**********END OF 5799: Queso Federal 36 J CTB
INFO**********************************
************************************************************
** 10.86km away. Facility ID=40560 Name=Vaca 24 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.113, -103.526, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=40560EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=29-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40560E6 POINT 639062.877 3553912.1 0
SO SRCPARAM 40560E6 .00126 4.88 588.71 .21 1.22
** NMED source ID=40560EQPT7 Facility's ID=HTR-2
** Description=Heater Treater Construction date=29-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40560E7 POINT 639070.413 3553919.121 0
SO SRCPARAM 40560E7 .00126 6.1 588.71 .06 1.83
```

**********END OF 40560: Vaca 24 Fed Com CTB
INFO***********************************
**************************************************************
** 10.88km away. Facility ID=39974 Name=Fernandez Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199989, -103.638718, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.94tons/year
*****************Facility sources: ******************************
** NMED source ID=39974EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E1 POINT 628305.742 3563415.69 0
SO SRCPARAM 39974E1 .0125998 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E2 POINT 628313.278 3563422.711 0
SO SRCPARAM 39974E2 .0125998 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E3 POINT 628306.492 3563426.263 0
SO SRCPARAM 39974E3 .0125998 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E4 POINT 628298.895 3563424.171 0
SO SRCPARAM 39974E4 .0125998 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT5 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E5 POINT 628294.654 3563417.271 0
SO SRCPARAM 39974E5 .0125998 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT6 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E6 POINT 628296.306 3563409.117 0

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SO SRCPARAM 39974E6 .0125998 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT7 Facility's ID=GEN-1
** Description=Generator Construction date=29-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E7 POINT 628303.255 3563404.155 0
SO SRCPARAM 39974E7 .0088199 3.15 1005.37 110.34 .1
**********END OF 39974: Fernandez Booster Station
INFO**********************************
************************************************************
** 10.88km away. Facility ID=39967 Name=EOG - Bronco LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1134, -103.5367, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.29tons/year
*****************Facility sources: ****************************
** NMED source ID=39967EQPT1 Facility's ID=ENG-1
** Description=4SLB, CAT G3608 2500 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E1 POINT 638052.698 3553942.684 0
SO SRCPARAM 39967E1 .0214197 6.1 688.15 25.51 .61
** NMED source ID=39967EQPT2 Facility's ID=ENG-2
** Description=4SLB, CAT G3608 2500 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E2 POINT 638060.234 3553949.705 0
SO SRCPARAM 39967E2 .0214197 6.1 688.15 25.51 .61
** NMED source ID=39967EQPT3 Facility's ID=ENG-3
** Description=4SLB, CAT G3608 2500 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E3 POINT 638053.448 3553953.257 0
SO SRCPARAM 39967E3 .0214197 6.1 688.15 25.51 .61
** NMED source ID=39967EQPT4 Facility's ID=ENG-4
** Description=4SLB, CAT G3608 2500 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E4 POINT 638045.851 3553951.165 0
SO SRCPARAM 39967E4 .0214197 6.1 688.15 25.51 .61
** NMED source ID=39967EQPT5 Facility's ID=ENG-5
** Description=4SLB, CAT G3608 2500 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 39967E5 POINT 638041.61 3553944.265 0
SO SRCPARAM 39967E5 .0214197 6.1 688.15 25.51 .61
** NMED source ID=39967EQPT6 Facility's ID=ENG-6
** Description=4SLB, CAT G3606 1875 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E6 POINT 638043.262 3553936.111 0
SO SRCPARAM 39967E6 .0151198 4.57 701.48 27.86 .51
** NMED source ID=39967EQPT7 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.0 MMbtu/hr Construction date=13-MAY-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E7 POINT 638050.211 3553931.149 0
SO SRCPARAM 39967E7 .00126 3.96 588.71 2.65 .3
** NMED source ID=39967EQPT8 Facility's ID=Heater-1
** Description=Separator Heater 1.5 MMbtu/hr Construction date=13-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E8 POINT 638058.894 3553932.291 0
SO SRCPARAM 39967E8 .00126 3.96 588.71 1.31 .3
**********END OF 39967: EOG - Bronco LGL Station
INFO**********************************
************************************************************
** 10.9km away. Facility ID=38864 Name=Green Drake 16 CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1263, -103.582777, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.11tons/year
*****************Facility sources: ****************************
** NMED source ID=38864EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=15-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38864E2 POINT 633686.431 3555314.664 0
SO SRCPARAM 38864E2 .00126 7.32 588.71 .19 1.83
** NMED source ID=38864EQPT3 Facility's ID=HTR-2
** Description=Heater Treater Construction date=15-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38864E3 POINT 633693.967 3555321.685 0
SO SRCPARAM 38864E3 .00126 4.88 588.71 .21 1.22
** NMED source ID=38864EQPT17 Facility's ID=HTR-3
** Description=Heater Treater Construction date=06-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38864E17 POINT 633687.181 3555325.237 0
SO SRCPARAM 38864E17 .00126 4.88 588.71 .21 1.22
**********END OF 38864: Green Drake 16 CTB INFO************************************
************************************************************
** 10.93km away. Facility ID=5557 Name=Falcon Ridge CGL
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.247974, -103.416538, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=5.32tons/year
*****************Facility sources: ******************************
** NMED source ID=5557ACT 1 Facility's ID=SITE-SSM
** Description=Startup, Shutdown, and Maintenance (SSM) Emissions Construction
date=10-JUL-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557@1 VOLUME 649170.751 3569022.394 0
SO SRCPARAM 5557@1 .0002898 1 .47 .93
** NMED source ID=5557EQPT3 Facility's ID=ENG-1
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E3 POINT 649178.287 3569029.415 0
SO SRCPARAM 5557E3 .0214197 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT4 Facility's ID=ENG-2
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E4 POINT 649171.501 3569032.967 0
SO SRCPARAM 5557E4 .0214197 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT5 Facility's ID=ENG-3
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E5 POINT 649163.904 3569030.875 0
SO SRCPARAM 5557E5 .0214197 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT6 Facility's ID=ENG-4
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E6 POINT 649159.663 3569023.975 0
SO SRCPARAM 5557E6 .0214197 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT7 Facility's ID=ENG-5
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E7 POINT 649161.315 3569015.821 0
SO SRCPARAM 5557E7 .0214197 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT8 Facility's ID=ENG-6
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E8 POINT 649168.264 3569010.859 0
SO SRCPARAM 5557E8 .0214197 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT9 Facility's ID=ENG-7
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E9 POINT 649176.947 3569012.001 0
SO SRCPARAM 5557E9 .0214197 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT11 Facility's ID=REB-1
** Description=Dehy Reboiler Construction date=10-JUL-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E11 POINT 649182.657 3569018.929 0
SO SRCPARAM 5557E11 .00126 3.05 533.15 .16 .24
** NMED source ID=5557EQPT12 Facility's ID=REB-2
** Description=Dehy Reboiler Construction date=10-JUL-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E12 POINT 649182.092 3569028.11 0
SO SRCPARAM 5557E12 .00126 3.05 533.15 .16 .24
**********END OF 5557: Falcon Ridge CGL INFO**********************************
************************************************************
** 11.05km away. Facility ID=39021 Name=Fascinator Federal Com C CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8357 NOI
** lat,long,datum=32.193844, -103.408222, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.5tons/year
*****************Facility sources: ******************************
** NMED source ID=39021AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=05-SEP-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39021A1 VOLUME 650043.168 3563032.862 0
SO SRCPARAM 39021A1 .00126 1 .47 .93
** NMED source ID=39021EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39021E4 VOLUME 650050.704 3563039.883 0
SO SRCPARAM 39021E4 .00252 6.71 .47 .93
** NMED source ID=39021EQPT7 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=11-JAN-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39021E7 POINT 650043.918 3563043.435 0
SO SRCPARAM 39021E7 .0028728 4.57 867.04 17.68 .15
** NMED source ID=39021EQPT8 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=18-JAN-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39021E8 POINT 650036.321 3563041.343 0
SO SRCPARAM 39021E8 .00252 4.57 867.04 17.68 .15
** NMED source ID=39021EQPT9 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=01-OCT-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39021E9 POINT 650032.08 3563034.443 0
SO SRCPARAM 39021E9 .00252 4.57 867.04 17.68 .15
** NMED source ID=39021EQPT10 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=18-JAN-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39021E10 POINT 650033.732 3563026.289 0
SO SRCPARAM 39021E10 .00252 4.57 867.04 17.68 .15
**********END OF 39021: Fascinator Federal Com C CTB
INFO**********************************
************************************************************
** 11.06km away. Facility ID=40389 Name=Jeff Hart West
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.269069, -103.428976, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.73tons/year
*****************Facility sources: ****************************
** NMED source ID=40389AREA1 Facility's ID=HR
** Description=Unpaved Roads Construction date=07-APR-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389A1 VOLUME 647964.661 3571343.875 0
SO SRCPARAM 40389A1 .0214197 10 20 9.3
** NMED source ID=40389EQPT1 Facility's ID=ENG-1
** Description=4SLB Compressor Engine Construction date=07-APR-22
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E1 POINT 647972.197 3571350.896 0
SO SRCPARAM 40389E1 .0113398 6.1 717.04 52.12 .3
** NMED source ID=40389EQPT2 Facility's ID=ENG-2
** Description=4SRB Compressor Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E2 POINT 647965.411 3571354.448 0
SO SRCPARAM 40389E2 .00126 4.51 1005.37 21.68 .1
** NMED source ID=40389EQPT3 Facility's ID=ENG-3
** Description=4SRB Compressor Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E3 POINT 647957.814 3571352.356 0
SO SRCPARAM 40389E3 .00126 4.51 1005.37 21.68 .1
** NMED source ID=40389EQPT4 Facility's ID=ENG-4
** Description=4SRB Compressor Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E4 POINT 647953.573 3571345.456 0
SO SRCPARAM 40389E4 .00126 4.51 1005.37 21.68 .1
** NMED source ID=40389EQPT5 Facility's ID=ENG-5
** Description=4SRB Compressor Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E5 POINT 647955.225 3571337.302 0
SO SRCPARAM 40389E5 .00126 4.51 1005.37 21.68 .1
** NMED source ID=40389EQPT6 Facility's ID=ENG-6
** Description=4SRB Compressor Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E6 POINT 647962.174 3571332.34 0
SO SRCPARAM 40389E6 .00126 4.51 1005.37 21.68 .1
** NMED source ID=40389EQPT7 Facility's ID=ENG-7
** Description=4SRB Compressor Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E7 POINT 647970.857 3571333.482 0
SO SRCPARAM 40389E7 .00126 4.51 1005.37 21.68 .1
** NMED source ID=40389EQPT11 Facility's ID=GEN-1
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2856hr/yr, 24hr/day
SO LOCATION 40389E11 POINT 647976.567 3571340.41 0
SO SRCPARAM 40389E11 .0050399 6.1 1005.37 19.98 .3
** NMED source ID=40389EQPT12 Facility's ID=GEN-2
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2715hr/yr, 24hr/day
SO LOCATION 40389E12 POINT 647976.002 3571349.591 0
SO SRCPARAM 40389E12 .0050399 6.1 1005.37 19.98 .3
** NMED source ID=40389EQPT13 Facility's ID=GEN-3
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40389E13 POINT 647969.167 3571356.069 0
SO SRCPARAM 40389E13 .0050399 6.1 1005.37 19.98 .3
** NMED source ID=40389EQPT14 Facility's ID=GEN-4
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40389E14 POINT 647959.531 3571356.146 0
SO SRCPARAM 40389E14 .0050399 6.1 1005.37 19.98 .3
** NMED source ID=40389EQPT15 Facility's ID=GEN-5
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40389E15 POINT 647952.27 3571349.48 0
SO SRCPARAM 40389E15 .0050399 6.1 1005.37 19.98 .3
** NMED source ID=40389EQPT16 Facility's ID=GEN-6
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40389E16 POINT 647951.49 3571339.434 0
SO SRCPARAM 40389E16 .0050399 6.1 1005.37 19.98 .3
**********END OF 40389: Jeff Hart West INFO************************************
************************************************************
** 11.15km away. Facility ID=39171 Name=NGL - Sidewinder Salt Water Disposal
** Company ID=13605 Name=NGL Water Solutions Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.132847, -103.449264, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=4.65tons/year
*****************Facility sources: ******************************
** NMED source ID=39171AREA1 Facility's ID=ROAD-1
** Description=Road Dust Construction date=03-OCT-19
** SCC=31000199
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39171A1 VOLUME 646271.53 3556214.004 0
SO SRCPARAM 39171A1 .0705589 10 60 9.3
** NMED source ID=39171EQPT1 Facility's ID=ENG 1-2
** Description=Generator Engine CAT G3516 2059-hp Construction date=03-OCT-19
** SCC=20200401
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4368hr/yr, 24hr/day
SO LOCATION 39171E1 POINT 646279.066 3556221.025 0
SO SRCPARAM 39171E1 .0768588 4.51 804.21 79.58 .3
**********END OF 39171: NGL - Sidewinder Salt Water Disposal
INFO**********************************
************************************************************
** 11.22km away. Facility ID=5857 Name=Gold Coast 26 Federal 1H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=10023 NOI
** lat,long,datum=32.182461, -103.638327, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=5857AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=06-JUL-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5857A1 VOLUME 628367.205 3561473.012 0
SO SRCPARAM 5857A1 .00126 1 .47 .93
** NMED source ID=5857EQPT2 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-APR-13
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5857E2 VOLUME 628374.741 3561480.033 0
SO SRCPARAM 5857E2 .00126 6.71 .47 .93
**********END OF 5857: Gold Coast 26 Federal 1H Battery
INFO**********************************
************************************************************
** 11.23km away. Facility ID=38371 Name=Florence State 23 Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.284657, -103.443006, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=4.08tons/year
*****************Facility sources: ******************************
** NMED source ID=38371AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=01-NOV-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38371A1 VOLUME 646618.039 3573052.774 0
SO SRCPARAM 38371A1 .0214197 10 20 9.3
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** NMED source ID=38371EQPT4 Facility's ID=HT-1
** Description=0.5 MMBtu/h Heater Treater Construction date=01-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38371E4 VOLUME 646625.575 3573059.795 0
SO SRCPARAM 38371E4 .0005796 6.1 .47 .93
** NMED source ID=38371EQPT5 Facility's ID=HT-2
** Description=0.5 MMBtu/h Heater Treater Construction date=01-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38371E5 VOLUME 646618.789 3573063.347 0
SO SRCPARAM 38371E5 .0005796 6.1 .47 .93
** NMED source ID=38371EQPT22 Facility's ID=ENG-2
** Description=1380-hp Caterpillar 3516 Compressor Engine Construction
date=07-APR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E22 POINT 646611.192 3573061.255 0
SO SRCPARAM 38371E22 .0138598 6.1 717.04 52.21 .3
** NMED source ID=38371EQPT23 Facility's ID=ENG-3
** Description=1380-hp Caterpillar 3516 Compressor Engine Construction
date=07-APR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E23 POINT 646606.951 3573054.355 0
SO SRCPARAM 38371E23 .0138598 6.1 717.04 52.21 .3
** NMED source ID=38371EQPT24 Facility's ID=ENG-4
** Description=1380-hp Caterpillar 3516 Compressor Engine Construction
date=07-APR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E24 POINT 646608.603 3573046.201 0
SO SRCPARAM 38371E24 .0138598 6.1 717.04 52.21 .3
** NMED source ID=38371EQPT25 Facility's ID=ENG-5
** Description=84-hp Cummins G5.9L VRU Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3672hr/yr, 24hr/day
SO LOCATION 38371E25 POINT 646615.552 3573041.239 0
SO SRCPARAM 38371E25 .00126 4.51 1005.37 26.23 .09
** NMED source ID=38371EQPT26 Facility's ID=ENG-6
** Description=84-hp Cummins G5.9L VRU Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38371E26 POINT 646624.235 3573042.381 0
SO SRCPARAM 38371E26 .00126 4.51 1005.37 26.23 .09
** NMED source ID=38371EQPT27 Facility's ID=ENG-7
** Description=84-hp Cummins G5.9L VRU Engine Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E27 POINT 646629.945 3573049.309 0
SO SRCPARAM 38371E27 .00126 6.1 1005.37 26.23 .09
** NMED source ID=38371EQPT29 Facility's ID=GEN-1
** Description=581-hp PSI 21.9L generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3524hr/yr, 24hr/day
SO LOCATION 38371E29 POINT 646629.38 3573058.49 0
SO SRCPARAM 38371E29 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=38371EQPT30 Facility's ID=GEN-2
** Description=581-hp PSI 21.9L generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E30 POINT 646622.545 3573064.968 0
SO SRCPARAM 38371E30 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=38371EQPT31 Facility's ID=GEN-3
** Description=581-hp PSI 21.9L generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E31 POINT 646612.909 3573065.045 0
SO SRCPARAM 38371E31 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=38371EQPT33 Facility's ID=HT-3
** Description=Heater Treater Construction date=07-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E33 POINT 646605.648 3573058.379 0
SO SRCPARAM 38371E33 .00126 6.1 644.26 2.11 .2
** NMED source ID=38371EQPT35 Facility's ID=GEN-5
** Description=268-hp PSI 11.1L generator Construction date=04-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1057hr/yr, 24hr/day
SO LOCATION 38371E35 POINT 646604.868 3573048.333 0
SO SRCPARAM 38371E35 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38371EQPT36 Facility's ID=GEN-6
** Description=268-hp PSI 11.1L generator Construction date=04-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E36 POINT 646611.286 3573040.282 0
```

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SO SRCPARAM 38371E36 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38371EQPT37 Facility's ID=GEN-7
** Description=268-hp PSI 11.1L generator Construction date=04-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E37 POINT 646621.688 3573038.741 0
SO SRCPARAM 38371E37 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38371EQPT38 Facility's ID=GEN-8
** Description=268-hp PSI 11.1L generator Construction date=04-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E38 POINT 646630.528 3573044.833 0
SO SRCPARAM 38371E38 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38371EQPT39 Facility's ID=GEN-9
** Description=268-hp PSI 11.1L generator Construction date=04-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E39 POINT 646632.885 3573055.531 0
SO SRCPARAM 38371E39 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38371EQPT40 Facility's ID=GEN-4
** Description=236-hp PSI 8.1L generator Construction date=03-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E40 POINT 646627.201 3573065.152 0
SO SRCPARAM 38371E40 .0050399 6.1 1023.15 14.9 .21
**********END OF 38371: Florence State 23 Facility
INFO************************************
************************************************************
** 11.29km away. Facility ID=40495 Name=Revolution Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1476, -103.6179, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=13.62tons/year
*****************Facility sources: ******************************
** NMED source ID=40495EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=02-AUG-22
** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E2 POINT 630342.693 3557632.906 0
SO SRCPARAM 40495E2 .0239396 6.61 704.26 46.3 .46
SO EMISFACT 40495E2 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40495EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=02-AUG-22
** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E3 POINT 630350.229 3557639.927 0
SO SRCPARAM 40495E3 .0239396 6.61 704.26 46.3 .46
SO EMISFACT 40495E3 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40495EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=02-AUG-22
** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E4 POINT 630343.443 3557643.479 0
SO SRCPARAM 40495E4 .0239396 6.61 704.26 46.3 .46
SO EMISFACT 40495E4 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40495EQPT8 Facility's ID=HT-1
** Description=Heater Construction date=02-AUG-22
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E8 POINT 630335.846 3557641.387 0
SO SRCPARAM 40495E8 .00252 3.96 588.71 9.08 .3
** NMED source ID=40495EQPT9 Facility's ID=REB-1
** Description=Glycol Dehydrator Reboiler Construction date=02-AUG-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E9 POINT 630331.605 3557634.487 0
SO SRCPARAM 40495E9 .00252 3.96 588.71 13.62 .3
** NMED source ID=40495EQPT10 Facility's ID=T-1
** Description=Turbine Construction date=02-AUG-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E10 POINT 630333.257 3557626.333 0
SO SRCPARAM 40495E10 .1574975 11.43 727.59 43.16 2.13
** NMED source ID=40495EQPT11 Facility's ID=T-2
** Description=Turbine Construction date=02-AUG-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E11 POINT 630340.206 3557621.371 0
SO SRCPARAM 40495E11 .1574975 11.43 727.59 43.16 2.13
**********END OF 40495: Revolution Compressor Station
INFO************************************
************************************************************
** 11.29km away. Facility ID=38450 Name=Caballo 23 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.111194, -103.547889, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.26tons/year
*****************Facility sources: ******************************
** NMED source ID=38450EQPT21 Facility's ID=ENG-2
```

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** Description=Compressor Engine Construction date=07-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38450E21 POINT 637000.286 3553683.846 0
SO SRCPARAM 38450E21 .0075599 3.96 1085.93 82.91 .13
**********END OF 38450: Caballo 23 Fed Com CTB
INFO**********************************
************************************************************
** 11.31km away. Facility ID=40244 Name=Devon - White Dove 17 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.309095, -103.494519, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.2tons/year
*****************Facility sources: ****************************
** NMED source ID=40244AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Road Construction date=12-DEC-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40244A1 VOLUME 641728.658 3575692.806 0
SO SRCPARAM 40244A1 .0277196 10 20 9.3
** NMED source ID=40244EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=10-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40244E1 VOLUME 641736.194 3575699.827 0
SO SRCPARAM 40244E1 .0037799 9.14 .47 .93
**********END OF 40244: Devon - White Dove 17 CTB 3
INFO**********************************
************************************************************
** 11.31km away. Facility ID=33461 Name=Cimarex - Triste Draw 25 Federal Com 1H 2H
7H & 5H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.26939, -103.62188, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.82tons/year
*****************Facility sources: ****************************
** NMED source ID=33461AREA1 Facility's ID=HAULROAD
** Description=Haul Roads Unpaved Construction date=03-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33461A1 VOLUME 629794.19 3571129.742 0
SO SRCPARAM 33461A1 .0113398 10 10 9.3
** NMED source ID=33461EQPT14 Facility's ID=H1
** Description=2 MMbtu/h Heater Treater Construction date=23-NOV-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=7878hr/yr, 22hr/day
SO LOCATION 33461E14 VOLUME 629801.726 3571136.763 0
SO SRCPARAM 33461E14 .00126 4.57 .47 .93
** NMED source ID=33461EQPT15 Facility's ID=H2
** Description=2 MMbtu/h Heater Treater Construction date=23-NOV-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7878hr/yr, 22hr/day
SO LOCATION 33461E15 VOLUME 629794.94 3571140.315 0
SO SRCPARAM 33461E15 .00126 4.57 .47 .93
** NMED source ID=33461EQPT16 Facility's ID=H3
** Description=2 MMbtu/h Heater Treater Construction date=23-NOV-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7878hr/yr, 22hr/day
SO LOCATION 33461E16 VOLUME 629787.343 3571138.223 0
SO SRCPARAM 33461E16 .00126 4.57 .47 .93
** NMED source ID=33461EQPT27 Facility's ID=H4
** Description=2 MMbtu/h Heater Treater Construction date=03-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7163hr/yr, 20hr/day
SO LOCATION 33461E27 VOLUME 629783.102 3571131.323 0
SO SRCPARAM 33461E27 .00126 4.57 .47 .93
** NMED source ID=33461EQPT33 Facility's ID=ENG-5
** Description=Compressor Engine (1380 hp) 4SLB Construction date=22-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33461E33 POINT 629784.754 3571123.169 0
SO SRCPARAM 33461E33 .0138598 6.86 724.26 52.55 .3
**********END OF 33461: Cimarex - Triste Draw 25 Federal Com 1H 2H 7H & 5H
INFO************************************
************************************************************
** 11.32km away. Facility ID=32152 Name=Vaca 24 Fed Com 6H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1089, -103.5217, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.2tons/year
*****************Facility sources: ******************************
** NMED source ID=32152EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32152E2 VOLUME 639474.83 3553463.129 0
SO SRCPARAM 32152E2 .00252 4.57 .47 .93
** NMED source ID=32152EQPT14 Facility's ID=ENG-1
** Description=Gas Lift Engine Construction date=26-MAY-22
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32152E14 POINT 639482.366 3553470.15 0
SO SRCPARAM 32152E14 .00252 3.96 899.82 25.3 .13
**********END OF 32152: Vaca 24 Fed Com 6H INFO**********************************
************************************************************
** 11.33km away. Facility ID=32166 Name=Vaca 24 Fed Com 4H 5H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.108772, -103.527056, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.42tons/year
*****************Facility sources: ****************************
** NMED source ID=32166EQPT2 Facility's ID=HTR-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6842hr/yr, 24hr/day
SO LOCATION 32166E2 VOLUME 638969.646 3553442.019 0
SO SRCPARAM 32166E2 .00126 6.1 .47 .93
** NMED source ID=32166EQPT8 Facility's ID=ENG-1
** Description=Gas Lift Engine Construction date=16-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32166E8 POINT 638977.182 3553449.04 0
SO SRCPARAM 32166E8 .00252 3.96 867.04 24.38 .13
** NMED source ID=32166EQPT9 Facility's ID=ENG-2
** Description=Gas Lift Engine Construction date=16-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32166E9 POINT 638970.396 3553452.592 0
SO SRCPARAM 32166E9 .0037799 3.96 846.48 34.44 .13
** NMED source ID=32166EQPT10 Facility's ID=ENG-3
** Description=Gas Lift Engine Construction date=16-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32166E10 POINT 638962.799 3553450.5 0
SO SRCPARAM 32166E10 .0037799 3.96 846.48 34.44 .13
** NMED source ID=32166EQPT13 Facility's ID=HTR-2
** Description=Heater Construction date=16-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32166E13 VOLUME 638958.558 3553443.6 0
SO SRCPARAM 32166E13 .0005796 6.1 .47 .93
**********END OF 32166: Vaca 24 Fed Com 4H 5H
INFO**********************************
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** 11.33km away. Facility ID=36053 Name=Taipan 15-10 State Com BS CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6531 NOI
** lat,long,datum=32.309413, -103.552573, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.85tons/year
*****************Facility sources: ******************************
** NMED source ID=36053AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36053A1 VOLUME 636262.363 3575652.762 0
SO SRCPARAM 36053A1 1.0898827 10 90 9.3
** NMED source ID=36053EQPT10 Facility's ID=Heater_3582
** Description=Heater_EQ000173582 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36053E10 VOLUME 636269.899 3575659.783 0
SO SRCPARAM 36053E10 .0005796 9.14 .47 .93
**********END OF 36053: Taipan 15-10 State Com BS CTB
INFO**********************************
************************************************************
** 11.36km away. Facility ID=32153 Name=Vaca 24 Fed 2H-3H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.108775, -103.532739, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.14tons/year
*****************Facility sources: ******************************
** NMED source ID=32153EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8078hr/yr, 23hr/day
SO LOCATION 32153E2 VOLUME 638433.409 3553435.037 0
SO SRCPARAM 32153E2 .00126 6.1 .47 .93
** NMED source ID=32153EQPT3 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8204hr/yr, 23hr/day
SO LOCATION 32153E3 VOLUME 638440.945 3553442.058 0
SO SRCPARAM 32153E3 .00126 6.1 .47 .93
** NMED source ID=32153EQPT15 Facility's ID=ENG-1
** Description=Heater Treater Construction date=01-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32153E15 POINT 638434.159 3553445.61 0
SO SRCPARAM 32153E15 .00252 3.96 867.04 24.38 .13
```

**********END OF 32153: Vaca 24 Fed 2H-3H INFO**********
**********
** 11.37km away. Facility ID=39462 Name=Eider Federal 23 B CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8753 NOI
** lat,long,datum=32.207931, -103.644583, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
**********Facility sources: **********
** NMED source ID=39462AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=26-MAY-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39462A1 VOLUME 627741.798 3564289.15 0
SO SRCPARAM 39462A1 .0002898 1 .47 .93
** NMED source ID=39462EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39462E4 VOLUME 627749.334 3564296.171 0
SO SRCPARAM 39462E4 .00126 6.71 .47 .93
**********END OF 39462: Eider Federal 23 B CTB
INFO**********
**********
** 11.48km away. Facility ID=38889 Name=Blueberry Hill Fee 24 25 19 CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.203647, -103.402314, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.31tons/year
**********Facility sources: **********
** NMED source ID=38889EQPT19 Facility's ID=HTR-1
** Description=Heater Treater Burner 1 Construction date=16-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38889E19 VOLUME 650583.974 3564127.931 0
SO SRCPARAM 38889E19 .00126 6.1 .47 .93
** NMED source ID=38889EQPT20 Facility's ID=HTR-2
** Description=Heater Treater Burner 2 Construction date=16-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38889E20 VOLUME 650591.51 3564134.952 0
SO SRCPARAM 38889E20 .00126 6.1 .47 .93
** NMED source ID=38889EQPT21 Facility's ID=ENG-1
** Description=Gas Lift Compressor 1 Construction date=16-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day

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SO LOCATION 38889E21 POINT 650584.724 3564138.504 0
SO SRCPARAM 38889E21 .00252 2.99 853.15 39.23 .12
** NMED source ID=38889EQPT23 Facility's ID=ENG-2
** Description=Gas Lift Compressor 2 Construction date=16-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38889E23 POINT 650577.127 3564136.412 0
SO SRCPARAM 38889E23 .00252 2.99 853.15 39.23 .12
** NMED source ID=38889EQPT27 Facility's ID=ENG-3
** Description=Gas Lift Compressor 3 Construction date=10-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38889E27 POINT 650572.886 3564129.512 0
SO SRCPARAM 38889E27 .00252 2.99 853.15 39.23 .12
** NMED source ID=38889EQPT28 Facility's ID=ENG-4
** Description=VRU Engine Construction date=10-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38889E28 POINT 650574.538 3564121.358 0
SO SRCPARAM 38889E28 .00126 2.99 919.82 51.45 .1
** NMED source ID=38889RPNT2 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=16-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38889R2 VOLUME 650581.487 3564116.396 0
SO SRCPARAM 38889R2 .0002898 1 .47 .93
**********END OF 38889: Blueberry Hill Fee 24 25 19 CTB
INFO**********************************
************************************************************
** 11.48km away. Facility ID=38794 Name=Dogie Draw Ender Wiggins Pad
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.130389, -103.447267, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.35tons/year
*****************Facility sources: ****************************
** NMED source ID=38794AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=02-JAN-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38794A1 VOLUME 646463.844 3555944.218 0
SO SRCPARAM 38794A1 .0002898 1 .47 .93
** NMED source ID=38794EQPT5 Facility's ID=ENG-4
** Description=Removed-VRU Engine 2 Construction date=02-OCT-20
** SCC=20200253
** Potential operating rate=0hr/yr, 0hr/day
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** Actual operating rate=7858hr/yr, 24hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 38794E5 POINT 646471.38 3555951.239 0
SO SRCPARAM 38794E5 -.0176397 4.52 919.82 51.45 .1
** NMED source ID=38794EQPT6 Facility's ID=HTR-02
** Description=Heater Treater 2 Construction date=22-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38794E6 VOLUME 646464.594 3555954.791 0
SO SRCPARAM 38794E6 .00126 4.57 .47 .93
** NMED source ID=38794EQPT12 Facility's ID=ENG-3
** Description=Removed-VRU Engine 1 Construction date=02-OCT-20
** SCC=20200253
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=7858hr/yr, 24hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 38794E12 POINT 646456.997 3555952.699 0
SO SRCPARAM 38794E12 -.0176397 4.52 919.82 51.45 .1
** NMED source ID=38794EQPT14 Facility's ID=HTR-01
** Description=Heater Treater 1 Construction date=22-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38794E14 VOLUME 646452.756 3555945.799 0
SO SRCPARAM 38794E14 .00126 4.57 .47 .93
** NMED source ID=38794EQPT47 Facility's ID=GEN-3
** Description=Removed-Generator Construction date=02-OCT-20
** SCC=20200253
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=7858hr/yr, 24hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 38794E47 POINT 646454.408 3555937.645 0
SO SRCPARAM 38794E47 -.0340195 3.51 744.26 144.17 .09
** NMED source ID=38794EQPT48 Facility's ID=GEN-4
** Description=Removed-Generator Construction date=02-OCT-20
** SCC=20200253
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 38794E48 POINT 646461.357 3555932.683 0
SO SRCPARAM 38794E48 -.0340195 3.51 744.26 144.17 .09
** NMED source ID=38794EQPT63 Facility's ID=ENG-03
** Description=Gas Lift Compressor Engine 3 Construction date=17-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38794E63 POINT 646470.04 3555933.825 0
SO SRCPARAM 38794E63 .0037799 3.51 853.15 69.56 .09
** NMED source ID=38794EQPT64 Facility's ID=ENG-02
** Description=Gas Lift Compressor Engine 2 Construction date=16-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38794E64 POINT 646475.75 3555940.753 0
SO SRCPARAM 38794E64 .0037799 3.51 853.15 69.56 .09
**********END OF 38794: Dogie Draw Ender Wiggins Pad
INFO************************************
************************************************************
** 11.51km away. Facility ID=41023 Name=Eider Federal 23C CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9947 NOI
** lat,long,datum=32.207772, -103.646094, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
*****************Facility sources: ****************************
** NMED source ID=41023AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=13-APR-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41023A1 VOLUME 627599.603 3564269.729 0
SO SRCPARAM 41023A1 .0005796 1 .47 .93
** NMED source ID=41023EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=20-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41023E3 VOLUME 627607.139 3564276.75 0
SO SRCPARAM 41023E3 .00126 4.57 .47 .93
** NMED source ID=41023EQPT4 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=20-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41023E4 VOLUME 627600.353 3564280.302 0
SO SRCPARAM 41023E4 .00126 4.57 .47 .93
**********END OF 41023: Eider Federal 23C CTB
INFO************************************
************************************************************
** 11.68km away. Facility ID=38479 Name=EOG - Trapper Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.1074, -103.5013, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=5tons/year
*****************Facility sources: ****************************
** NMED source ID=38479EQPT1 Facility's ID=ENG-2
```

```
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8683hr/yr, 24hr/day
SO LOCATION 38479E1 POINT 641402.035 3553323.424 0
SO SRCPARAM 38479E1 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT2 Facility's ID=ENG-4
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8692hr/yr, 24hr/day
SO LOCATION 38479E2 POINT 641409.571 3553330.445 0
SO SRCPARAM 38479E2 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT3 Facility's ID=ENG-5
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38479E3 POINT 641402.785 3553333.997 0
SO SRCPARAM 38479E3 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT4 Facility's ID=ENG-6
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38479E4 POINT 641395.188 3553331.905 0
SO SRCPARAM 38479E4 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT5 Facility's ID=ENG-7
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38479E5 POINT 641390.947 3553325.005 0
SO SRCPARAM 38479E5 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT6 Facility's ID=ENG-9
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38479E6 POINT 641392.599 3553316.851 0
SO SRCPARAM 38479E6 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT8 Facility's ID=Heater-1
** Description=Separator Heater Construction date=01-AUG-18
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38479E8 POINT 641399.548 3553311.889 0
SO SRCPARAM 38479E8 .0005796 7 730 28 .3
** NMED source ID=38479EQPT10 Facility's ID=ENG-3
** Description=Natural Gas Engine Construction date=01-AUG-18
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38479E10 POINT 641408.231 3553313.031 0
SO SRCPARAM 38479E10 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT11 Facility's ID=ENG-8
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38479E11 POINT 641413.941 3553319.959 0
SO SRCPARAM 38479E11 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT16 Facility's ID=Reboiler-1
** Description=Reboiler Dehydrator Construction date=01-AUG-18
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38479E16 POINT 641413.376 3553329.14 0
SO SRCPARAM 38479E16 .00126 7 730 28 .3
** NMED source ID=38479EQPT17 Facility's ID=ENG-1
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8770hr/yr, 24hr/day
SO LOCATION 38479E17 POINT 641406.541 3553335.618 0
SO SRCPARAM 38479E17 .0151198 8.53 719.26 27.43 .51
**********END OF 38479: EOG - Trapper Localized Gas Lift Station
INFO**********************************
************************************************************
** 11.73km away. Facility ID=39308 Name=Icy 18 Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1358, -103.6116, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.36tons/year
*****************Facility sources: ****************************
** NMED source ID=39308EQPT10 Facility's ID=HTR-1
** Description=Heater, 1.5-MMBtu/hr Construction date=22-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3928hr/yr, 24hr/day
SO LOCATION 39308E10 POINT 630953.75 3556332.414 0
SO SRCPARAM 39308E10 .00126 7.32 588.71 .19 1.83
** NMED source ID=39308EQPT16 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=24-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39308E16 POINT 630961.286 3556339.435 0
SO SRCPARAM 39308E16 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=39308EQPT17 Facility's ID=HTR-2
```

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** Description=Heater Treater Construction date=24-MAY-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39308E17 VOLUME 630954.5 3556342.987 0
SO SRCPARAM 39308E17 .00126 4.88 .47 .93
**********END OF 39308: Icy 18 Fed CTB INFO************************************
************************************************************
** 11.74km away. Facility ID=39686 Name=Rojo 7811 27 Fed Com 10H Battery
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=8947 NOI
** lat,long,datum=32.108028, -103.55315, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=39686EQPT8 Facility's ID=HT-01
** Description=Heater Treater Construction date=22-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39686E8 VOLUME 636508.6 3553326.187 0
SO SRCPARAM 39686E8 .00126 7.32 .47 .93
** NMED source ID=39686EQPT9 Facility's ID=HT-02
** Description=Heater Treater Construction date=22-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39686E9 VOLUME 636516.136 3553333.208 0
SO SRCPARAM 39686E9 .00126 7.32 .47 .93
**********END OF 39686: Rojo 7811 27 Fed Com 10H Battery
INFO***********************************
************************************************************
** 11.75km away. Facility ID=39934 Name=Rojo 22 Fed Com 22H 25H Battery
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=9156 NOI
** lat,long,datum=32.1106, -103.5641, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=39934EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39934E3 VOLUME 635471.586 3553597.499 0
SO SRCPARAM 39934E3 .00126 7.32 .47 .93
** NMED source ID=39934EQPT4 Facility's ID=HT-02
** Description=Heater Treater Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39934E4 VOLUME 635479.122 3553604.52 0
```

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SO SRCPARAM 39934E4 .00126 7.32 .47 .93
**********END OF 39934: Rojo 22 Fed Com 22H 25H Battery
INFO**********************************
************************************************************
** 11.75km away. Facility ID=37307 Name=Fascinator Fee Com 2H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7036 NOI
** lat,long,datum=32.181382, -103.403975, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=37307AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=08-MAY-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37307A1 VOLUME 650464.047 3561657.205 0
SO SRCPARAM 37307A1 .0005796 1 .47 .93
** NMED source ID=37307EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37307E4 VOLUME 650471.583 3561664.226 0
SO SRCPARAM 37307E4 .00126 6.71 .47 .93
** NMED source ID=37307EQPT6 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=08-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37307E6 VOLUME 650464.797 3561667.778 0
SO SRCPARAM 37307E6 .00126 6.71 .47 .93
**********END OF 37307: Fascinator Fee Com 2H Battery
INFO**********************************
************************************************************
** 11.79km away. Facility ID=40556 Name=Ender Wiggins 14 Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.130111, -103.442439, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.11tons/year
*****************Facility sources: ****************************
** NMED source ID=40556AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=06-OCT-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40556A1 VOLUME 646919.747 3555919.975 0
SO SRCPARAM 40556A1 .00126 1 .47 .93
** NMED source ID=40556EQPT14 Facility's ID=HTR-1
** Description=1 MMBtu/h Heater Treater Construction date=06-OCT-22
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40556E14 VOLUME 646927.283 3555926.996 0
SO SRCPARAM 40556E14 .00126 4.88 .47 .93
** NMED source ID=40556EQPT26 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=12-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40556E26 POINT 646920.497 3555930.548 0
SO SRCPARAM 40556E26 .00252 3.51 853.15 69.56 .09
**********END OF 40556: Ender Wiggins 14 Fed Com CTB
INFO**********************************
************************************************************
** 11.87km away. Facility ID=39004 Name=Wild Weasel 22 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1198, -103.4578, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.58tons/year
*****************Facility sources: ******************************
** NMED source ID=39004EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8303hr/yr, 24hr/day
SO LOCATION 39004E6 VOLUME 645487.005 3554756.021 0
SO SRCPARAM 39004E6 .00126 4.88 .47 .93
** NMED source ID=39004EQPT7 Facility's ID=HTR-2
** Description=Heater Treater Construction date=05-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39004E7 VOLUME 645494.541 3554763.042 0
SO SRCPARAM 39004E7 .00126 4.88 .47 .93
** NMED source ID=39004EQPT18 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=08-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39004E18 POINT 645487.755 3554766.594 0
SO SRCPARAM 39004E18 .0075599 3.96 1085.93 82.3 .13
** NMED source ID=39004EQPT19 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=08-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39004E19 POINT 645480.158 3554764.502 0
SO SRCPARAM 39004E19 .0075599 3.96 1085.93 82.3 .13
**********END OF 39004: Wild Weasel 22 Fed Com CTB
INFO**********************************
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**************************************************************
** 11.87km away. Facility ID=39520 Name=Jeff Hart East TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.269455, -103.418749, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.08tons/year
*****************Facility sources: ******************************
** NMED source ID=39520AREA1 Facility's ID=HR-1
** Description=Haul Roads Construction date=13-AUG-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39520A1 VOLUME 648927.351 3571400.821 0
SO SRCPARAM 39520A1 .0214197 10 20 9.3
** NMED source ID=39520EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=13-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39520E1 VOLUME 648934.887 3571407.842 0
SO SRCPARAM 39520E1 .0005796 6.1 .47 .93
** NMED source ID=39520EQPT2 Facility's ID=ENG-1
** Description=4SRB Compressor engine Construction date=13-AUG-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 21hr/day
SO LOCATION 39520E2 POINT 648928.101 3571411.394 0
SO SRCPARAM 39520E2 .00126 3.66 905.37 41.76 .1
** NMED source ID=39520EQPT3 Facility's ID=GEN-1
** Description=Generator 1 (4SRB) Construction date=13-AUG-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1654hr/yr, 24hr/day
SO LOCATION 39520E3 POINT 648920.504 3571409.302 0
SO SRCPARAM 39520E3 .0050399 6.1 1005.37 19.37 .3
** NMED source ID=39520EQPT10 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=13-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39520E10 VOLUME 648916.263 3571402.402 0
SO SRCPARAM 39520E10 .0005796 6.1 .47 .93
** NMED source ID=39520EQPT11 Facility's ID=ENG-2
** Description=4SRB Compressor Engine Construction date=13-AUG-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39520E11 POINT 648917.915 3571394.248 0
SO SRCPARAM 39520E11 .00126 4.57 880.93 56.25 .1
** NMED source ID=39520EQPT16 Facility's ID=ENG-4
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** Description=4SRB Compressor Engine Construction date=06-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39520E16 POINT 648924.864 3571389.286 0
SO SRCPARAM 39520E16 .00126 4.51 1005.37 21.68 .1
** NMED source ID=39520EQPT17 Facility's ID=ENG-5
** Description=4SRB Compressor Engine Construction date=06-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3336hr/yr, 24hr/day
SO LOCATION 39520E17 POINT 648933.547 3571390.428 0
SO SRCPARAM 39520E17 .00126 4.51 1005.37 21.68 .1
** NMED source ID=39520EQPT18 Facility's ID=ENG-6
** Description=4SRB Compressor Engine Construction date=06-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3336hr/yr, 24hr/day
SO LOCATION 39520E18 POINT 648939.257 3571397.356 0
SO SRCPARAM 39520E18 .00126 4.51 1005.37 21.68 .1
** NMED source ID=39520EQPT19 Facility's ID=GEN-2
** Description=Generator 2 (4SRB) Construction date=06-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1555hr/yr, 24hr/day
SO LOCATION 39520E19 POINT 648938.692 3571406.537 0
SO SRCPARAM 39520E19 .0050399 6.1 1005.37 19.37 .3
** NMED source ID=39520EQPT20 Facility's ID=GEN-3
** Description=Generator 3 (4SRB) Construction date=06-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39520E20 POINT 648931.857 3571413.015 0
SO SRCPARAM 39520E20 .0050399 6.1 1005.37 19.37 .3
** NMED source ID=39520EQPT33 Facility's ID=ENG-3
** Description=4SLB Compressor Engine Construction date=09-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39520E33 POINT 648922.221 3571413.092 0
SO SRCPARAM 39520E33 .0062999 6.1 772.59 28.82 .3
**********END OF 39520: Jeff Hart East TB INFO**********************************
************************************************************
** 11.87km away. Facility ID=41065 Name=Falcon Ridge CPF-OGS
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21113    Permit=9967 NOI
** lat,long,datum=32.247761, -103.405816, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.68tons/year
*****************Facility sources: ******************************
** NMED source ID=41065EQPT2 Facility's ID=HTR-1
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** Description=Line Heater Construction date=02-MAY-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065E2 POINT 650181.286 3569013.73 0
SO SRCPARAM 41065E2 .0050399 3.05 310.93 2.24 .15
** NMED source ID=41065EQPT3 Facility's ID=HTR-2
** Description=Line Heater Construction date=02-MAY-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065E3 POINT 650188.822 3569020.751 0
SO SRCPARAM 41065E3 .0050399 3.05 310.93 2.24 .15
** NMED source ID=41065EQPT4 Facility's ID=HTR-3
** Description=Line Heater Construction date=02-MAY-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065E4 POINT 650182.036 3569024.303 0
SO SRCPARAM 41065E4 .0050399 3.05 310.93 2.24 .15
** NMED source ID=41065EQPT5 Facility's ID=HTR-4
** Description=Line Heater Construction date=02-MAY-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065E5 POINT 650174.439 3569022.211 0
SO SRCPARAM 41065E5 .0050399 3.05 310.93 2.24 .15
**********END OF 41065: Falcon Ridge CPF-OGS
INFO**********************************
**************************************************************
** 11.89km away. Facility ID=40979 Name=Supreme Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.282387, -103.617332, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=7.28tons/year
*****************Facility sources: ****************************
** NMED source ID=40979ACT 1 Facility's ID=HAUL
** Description=Unpaved Haul Roads Construction date=24-APR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979@1 VOLUME 630203.995 3572576.117 0
SO SRCPARAM 40979@1 .0113398 10 10 9.3
** NMED source ID=40979EQPT1 Facility's ID=C-01
** Description=Compressor Engine Construction date=24-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E1 POINT 630211.531 3572583.138 0
SO SRCPARAM 40979E1 .0327595 6.71 910.37 13.2 .61
```

```
** NMED source ID=40979EQPT2 Facility's ID=C-02
** Description=Compressor Engine Construction date=24-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E2 POINT 630204.745 3572586.69 0
SO SRCPARAM 40979E2 .0327595 6.71 910.37 13.2 .61
** NMED source ID=40979EQPT3 Facility's ID=C-03
** Description=Compressor Engine Construction date=24-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E3 POINT 630197.148 3572584.598 0
SO SRCPARAM 40979E3 .0327595 6.71 910.37 13.2 .61
** NMED source ID=40979EQPT4 Facility's ID=C-04
** Description=Compressor Engine Construction date=24-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E4 POINT 630192.907 3572577.698 0
SO SRCPARAM 40979E4 .0327595 6.71 910.37 13.2 .61
** NMED source ID=40979EQPT5 Facility's ID=C-05
** Description=Compressor Engine Construction date=24-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E5 POINT 630194.559 3572569.544 0
SO SRCPARAM 40979E5 .0327595 6.71 910.37 13.2 .61
** NMED source ID=40979EQPT13 Facility's ID=GEN-1
** Description=Generator Construction date=24-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E13 POINT 630201.508 3572564.582 0
SO SRCPARAM 40979E13 .00126 1.8 922.04 21.88 .15
** NMED source ID=40979EQPT14 Facility's ID=Reb-1
** Description=Reboiler Construction date=24-APR-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E14 POINT 630210.191 3572565.724 0
SO SRCPARAM 40979E14 .00126 3.05 588.71 1.32 .61
** NMED source ID=40979EQPT30 Facility's ID=C-06
** Description=Compressor Engine Construction date=11-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E30 POINT 630215.901 3572572.652 0
SO SRCPARAM 40979E30 .0176397 5.64 700.37 27.98 .51
** NMED source ID=40979EQPT31 Facility's ID=C-07
```

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** Description=Compressor Engine Construction date=11-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E31 POINT 630215.336 3572581.833 0
SO SRCPARAM 40979E31 .0239396 5.64 708.15 37.64 .51
** NMED source ID=40979EQPT32 Facility's ID=EF-1
** Description=Enclosed Flare Construction date=11-DEC-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E32 POINT 630208.501 3572588.311 0
SO SRCPARAM 40979E32 .0176397 9.14 922.04 5.48 1.14
**********END OF 40979: Supreme Compressor Station
INFO************************************
************************************************************
** 11.92km away. Facility ID=38762 Name=Gettysburg State Com 16C CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8118 NOI
** lat,long,datum=32.309617, -103.475833, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=38762AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=10-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38762A1 VOLUME 643487.146 3575775.545 0
SO SRCPARAM 38762A1 .00126 1 .47 .93
** NMED source ID=38762EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38762E4 VOLUME 643494.682 3575782.566 0
SO SRCPARAM 38762E4 .00126 6.71 .47 .93
** NMED source ID=38762EQPT8 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=10-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38762E8 VOLUME 643487.896 3575786.118 0
SO SRCPARAM 38762E8 .00126 6.71 .47 .93
**********END OF 38762: Gettysburg State Com 16C CTB
INFO************************************
************************************************************
** 11.93km away. Facility ID=40155 Name=Landreth Fed Com No 1H Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=9368 NOI
** lat,long,datum=32.283754, -103.431377, NAD83
```

```
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=40155AREA1 Facility's ID=HR-1
** Description=Haul Roads Construction date=28-NOV-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40155A1 VOLUME 647714.693 3572968.623 0
SO SRCPARAM 40155A1 .0050399 1 .47 .93
** NMED source ID=40155EQPT2 Facility's ID=HT-1
** Description=Heater Treater Construction date=01-JAN-04
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40155E2 POINT 647722.229 3572975.644 0
SO SRCPARAM 40155E2 .00126 6.1 644.26 3.76 .15
**********END OF 40155: Landreth Fed Com No 1H Facility
INFO*********************************
************************************************************
** 11.94km away. Facility ID=31802 Name=Black Mamba 15 State Com 2H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4860 NOI
** lat,long,datum=32.311583, -103.566639, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.07tons/year
*****************Facility sources: ****************************
** NMED source ID=31802AREA1 Facility's ID=HR-1
** Description=Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 31802A1 VOLUME 634934.837 3575875.536 0
SO SRCPARAM 31802A1 .0277196 10 20 9.3
** NMED source ID=31802EQPT11 Facility's ID=HT-01
** Description=Heater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8640hr/yr, 24hr/day
SO LOCATION 31802E11 VOLUME 634942.373 3575882.557 0
SO SRCPARAM 31802E11 .0005796 9.14 .47 .93
** NMED source ID=31802EQPT20 Facility's ID=HT-02
** Description=Heater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8640hr/yr, 24hr/day
SO LOCATION 31802E20 VOLUME 634935.587 3575886.109 0
SO SRCPARAM 31802E20 .0005796 9.14 .47 .93
**********END OF 31802: Black Mamba 15 State Com 2H
INFO*********************************
************************************************************
** 12.06km away. Facility ID=35772 Name=Gettysburg 16 State 2H Battery
```

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** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6425 NOI
** lat,long,datum=32.311219, -103.47657, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=35772AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=29-JUN-15
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35772A1 VOLUME 643415.232 3575952.164 0
SO SRCPARAM 35772A1 .0002898 1 .47 .93
** NMED source ID=35772EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35772E4 VOLUME 643422.768 3575959.185 0
SO SRCPARAM 35772E4 .00126 4.57 .47 .93
**********END OF 35772: Gettysburg 16 State 2H Battery
INFO*************************************
************************************************************
** 12.08km away. Facility ID=40217 Name=Pitchblende 29 Fed Com West CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.105, -103.4942, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=40217EQPT2 Facility's ID=HTR-1
** Description=0.75 MMBtu/h Heater Treater Construction date=12-NOV-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40217E2 VOLUME 642075.703 3553066.696 0
SO SRCPARAM 40217E2 .00126 4.88 .47 .93
**********END OF 40217: Pitchblende 29 Fed Com West CTB
INFO*************************************
************************************************************
** 12.08km away. Facility ID=642 Name=Double X Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.212, -103.6521, Unknown
** Total Particulate Matter (2.5 microns or less) emissions=.16tons/year
*****************Facility sources: ****************************
** NMED source ID=642AREA1 Facility's ID=HAUL
** Description=Haul Road Emissions Construction date=03-NOV-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 642A1 VOLUME 627027.641 3564731.327 0
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SO SRCPARAM 642A1 .0050399 1 .47 .93
**********END OF 642: Double X Booster Station
INFO**********************************
************************************************************
** 12.1km away. Facility ID=38778 Name=Dos Equis 11-14 Fed Com CTB
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.236122, -103.648758, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.6tons/year
*****************Facility sources: ****************************
** NMED source ID=38778AREA1 Facility's ID=HR
** Description=Haul Road Construction date=15-DEC-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38778A1 VOLUME 627308.985 3567409.443 0
SO SRCPARAM 38778A1 .0113398 10 10 9.3
** NMED source ID=38778EQPT8 Facility's ID=Flare1
** Description=Flare Construction date=11-JAN-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8488hr/yr, 23hr/day
SO LOCATION 38778E8 POINT 627316.521 3567416.464 0
SO SRCPARAM 38778E8 .0037799 12.19 1273 20 2.632
** NMED source ID=38778EQPT12 Facility's ID=Flare-SSM
** Description=Flare-SSM Construction date=15-DEC-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38778E12 POINT 627309.735 3567420.016 0
SO SRCPARAM 38778E12 .0089207 12.19 1273 20 4.652
** NMED source ID=38778EQPT13 Facility's ID=HTR-1
** Description=Heater Treater Construction date=15-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38778E13 VOLUME 627302.138 3567417.924 0
SO SRCPARAM 38778E13 .00126 4.57 .47 .93
** NMED source ID=38778EQPT14 Facility's ID=HTR-2
** Description=Heater Treater Construction date=15-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38778E14 VOLUME 627297.897 3567411.024 0
SO SRCPARAM 38778E14 .00126 4.57 .47 .93
**********END OF 38778: Dos Equis 11-14 Fed Com CTB
INFO**********************************
************************************************************
** 12.12km away. Facility ID=8687 Name=Dogie Draw Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
```

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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.130986, -103.436031, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.26tons/year
*****************Facility sources: ****************************
** NMED source ID=8687AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=18-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8687A1 VOLUME 647522.85 3556025.74 0
SO SRCPARAM 8687A1 .00252 1 .47 .93
** NMED source ID=8687EQPT2 Facility's ID=GEN-01
** Description=Generator Engine 1 Construction date=18-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8687E2 POINT 647530.386 3556032.761 0
SO SRCPARAM 8687E2 .0113398 4.51 744.26 145.91 .09
** NMED source ID=8687EQPT3 Facility's ID=GEN-02
** Description=Generator Engine 2 Construction date=18-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8687E3 POINT 647523.6 3556036.313 0
SO SRCPARAM 8687E3 .0113398 4.51 744.26 145.91 .09
** NMED source ID=8687EQPT4 Facility's ID=GEN-03
** Description=Generator Engine 3 Construction date=18-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8687E4 POINT 647516.003 3556034.221 0
SO SRCPARAM 8687E4 .0113398 4.51 744.26 145.91 .09
** NMED source ID=8687EQPT6 Facility's ID=HTR-01
** Description=Heater Treater 1 Construction date=18-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8687E6 VOLUME 647511.762 3556027.321 0
SO SRCPARAM 8687E6 .00126 6.1 .47 .93
**********END OF 8687: Dogie Draw Fed Com CTB
INFO*************************************
************************************************************
** 12.13km away. Facility ID=39676 Name=IBEX 15-10 Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.299701, -103.449815, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.56tons/year
*****************Facility sources: ****************************
** NMED source ID=39676AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=02-SEP-22
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** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676A1 VOLUME 645952.672 3574711.34 0
SO SRCPARAM 39676A1 .0088199 10 10 9.3
** NMED source ID=39676EQPT1 Facility's ID=ENG-01
** Description=400 HP Compressor Engine Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676E1 POINT 645960.208 3574718.361 0
SO SRCPARAM 39676E1 .0075599 4.57 778.71 13.94 .26
** NMED source ID=39676EQPT5 Facility's ID=HT-01
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39676E5 VOLUME 645953.422 3574721.913 0
SO SRCPARAM 39676E5 .00126 4.57 .47 .93
** NMED source ID=39676EQPT6 Facility's ID=HT-02
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39676E6 VOLUME 645945.825 3574719.821 0
SO SRCPARAM 39676E6 .00126 4.57 .47 .93
** NMED source ID=39676EQPT7 Facility's ID=HT-03
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39676E7 VOLUME 645941.584 3574712.921 0
SO SRCPARAM 39676E7 .0037799 4.57 .47 .93
** NMED source ID=39676EQPT23 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=02-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676E23 POINT 645943.236 3574704.767 0
SO SRCPARAM 39676E23 .0075599 6.17 695.37 37.61 .25
** NMED source ID=39676EQPT24 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=02-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676E24 POINT 645950.185 3574699.805 0
SO SRCPARAM 39676E24 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39676EQPT25 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=02-SEP-22
** SCC=20200253
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676E25 POINT 645958.868 3574700.947 0
SO SRCPARAM 39676E25 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39676EQPT26 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=02-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676E26 POINT 645964.578 3574707.875 0
SO SRCPARAM 39676E26 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39676EQPT27 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=02-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676E27 POINT 645964.013 3574717.056 0
SO SRCPARAM 39676E27 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39676EQPT28 Facility's ID=ENG-07
** Description=Compressor Engine Construction date=02-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676E28 POINT 645957.178 3574723.534 0
SO SRCPARAM 39676E28 .0050399 4.11 894.82 36.52 .13
**********END OF 39676: IBEX 15-10 Battery INFO************************************
************************************************************
** 12.15km away. Facility ID=40604 Name=Green Eyeshade 12 J CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9730 NOI
** lat,long,datum=32.144218, -103.42152, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.13tons/year
*****************Facility sources: ******************************
** NMED source ID=40604AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=08-SEP-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40604A1 VOLUME 648870.261 3557512.654 0
SO SRCPARAM 40604A1 .0005796 1 .47 .93
** NMED source ID=40604EQPT2 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=08-SEP-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40604E2 VOLUME 648877.797 3557519.675 0
SO SRCPARAM 40604E2 .00252 6.1 .47 .93
** NMED source ID=40604EQPT3 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=08-SEP-22
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40604E3 VOLUME 648871.011 3557523.227 0
SO SRCPARAM 40604E3 .00252 6.1 .47 .93
**********END OF 40604: Green Eyeshade 12 J CTB
INFO**********************************
************************************************************
** 12.16km away. Facility ID=38051 Name=Triste Draw 25 West Battery
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.27169, -103.63086, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.08tons/year
*****************Facility sources: ******************************
** NMED source ID=38051AREA1 Facility's ID=HR
** Description=Unpaved Haul Road Construction date=01-NOV-17
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38051A1 VOLUME 628945.111 3571373.893 0
SO SRCPARAM 38051A1 .0113398 10 10 9.3
** NMED source ID=38051EQPT4 Facility's ID=Flare1
** Description=Flare (dual pressure) Construction date=20-SEP-17
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8700hr/yr, 24hr/day
SO LOCATION 38051E4 POINT 628952.647 3571380.914 0
SO SRCPARAM 38051E4 .00126 18.29 1273 20 20.806
** NMED source ID=38051EQPT5 Facility's ID=Flare2
** Description=High Pressure Flare-pilot Construction date=20-SEP-17
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8700hr/yr, 24hr/day
SO LOCATION 38051E5 POINT 628945.861 3571384.466 0
SO SRCPARAM 38051E5 .0002898 18.29 1273 20 20.806
** NMED source ID=38051EQPT14 Facility's ID=HTR1
** Description=Heater Treater Construction date=19-APR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8352hr/yr, 23hr/day
SO LOCATION 38051E14 VOLUME 628934.023 3571375.474 0
SO SRCPARAM 38051E14 .00126 4.57 .47 .93
** NMED source ID=38051EQPT30 Facility's ID=ENG5
** Description=Compressor Engine Construction date=16-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38051E30 POINT 628935.675 3571367.32 0
SO SRCPARAM 38051E30 .0138598 6.86 724.26 52.55 .3
** NMED source ID=38051EQPT31 Facility's ID=Flare2 SSM
** Description=High Pressure Flare-SSM Construction date=05-OCT-18
```

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** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38051E31 POINT 628942.624 3571362.358 0
SO SRCPARAM 38051E31 .0126628 18.29 1273 20 3.604
**********END OF 38051: Triste Draw 25 West Battery
INFO**********************************
************************************************************
** 12.19km away. Facility ID=40257 Name=Antelope 9 B3OB State Com #1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.312429, -103.476503, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.36tons/year
*****************Facility sources: ****************************
** NMED source ID=40257AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=26-APR-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257A1 VOLUME 643419.633 3576086.4 0
SO SRCPARAM 40257A1 .0088199 10 10 9.3
** NMED source ID=40257EQPT6 Facility's ID=HT-01
** Description=Heater Treater Construction date=29-NOV-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E6 VOLUME 643427.169 3576093.421 0
SO SRCPARAM 40257E6 .00126 4.57 .47 .93
** NMED source ID=40257EQPT7 Facility's ID=HT-02
** Description=Heater Treater Construction date=29-NOV-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E7 VOLUME 643420.383 3576096.973 0
SO SRCPARAM 40257E7 .00126 4.57 .47 .93
** NMED source ID=40257EQPT8 Facility's ID=HT-03
** Description=Heater Treater Construction date=29-NOV-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E8 VOLUME 643412.786 3576094.881 0
SO SRCPARAM 40257E8 .00126 4.57 .47 .93
** NMED source ID=40257EQPT9 Facility's ID=HT-04
** Description=Heater Treater Construction date=29-DEC-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E9 VOLUME 643408.545 3576087.981 0
SO SRCPARAM 40257E9 .00252 4.57 .47 .93
** NMED source ID=40257EQPT13 Facility's ID=ENG-03
```

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** Description=Compressor Engine Construction date=29-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E13 POINT 643410.197 3576079.827 0
SO SRCPARAM 40257E13 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40257EQPT14 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=29-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E14 POINT 643417.146 3576074.865 0
SO SRCPARAM 40257E14 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40257EQPT15 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=29-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E15 POINT 643425.829 3576076.007 0
SO SRCPARAM 40257E15 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40257EQPT16 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=29-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E16 POINT 643431.539 3576082.935 0
SO SRCPARAM 40257E16 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40257EQPT17 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=26-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E17 POINT 643430.974 3576092.116 0
SO SRCPARAM 40257E17 .0075599 4.57 778.71 13.94 .26
** NMED source ID=40257EQPT18 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=26-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E18 POINT 643424.139 3576098.594 0
SO SRCPARAM 40257E18 .0075599 4.57 778.71 13.94 .26
**********END OF 40257: Antelope 9 B3OB State Com #1H Battery
INFO**********************************
************************************************************
** 12.2km away. Facility ID=26524 Name=Red Bull 31 State Facility
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21113    Permit=3589 NOI
** lat,long,datum=32.257361, -103.406778, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ****************************
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** NMED source ID=26524AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=28-SEP-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 26524A1 VOLUME 650074.852 3570076.693 0
SO SRCPARAM 26524A1 .0277196 10 20 9.3
** NMED source ID=26524EQPT6 Facility's ID=HT-1
** Description=Heater_EQ000045691 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8184hr/yr, 24hr/day
SO LOCATION 26524E6 VOLUME 650082.388 3570083.714 0
SO SRCPARAM 26524E6 .0005796 9.14 .47 .93
** NMED source ID=26524EQPT12 Facility's ID=HT-2
** Description=Heater_EQ000045705 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8184hr/yr, 24hr/day
SO LOCATION 26524E12 VOLUME 650075.602 3570087.266 0
SO SRCPARAM 26524E12 .0005796 9.14 .47 .93
**********END OF 26524: Red Bull 31 State Facility
INFO**********************************
************************************************************
** 12.23km away. Facility ID=38827 Name=Delaware - Alamo Compressor Station
** Company ID=13452 Name=Delaware G & P, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.114519, -103.586975, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=6.98tons/year
*****************Facility sources: ****************************
** NMED source ID=38827EQPT1 Facility's ID=E-1
** Description=Compressor Engine, Caterpillar, 2500 hp Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7409hr/yr, 24hr/day
SO LOCATION 38827E1 POINT 633307.528 3554003.427 0
SO SRCPARAM 38827E1 .0226796 7.53 718.15 104.06 .24
** NMED source ID=38827EQPT2 Facility's ID=E-2
** Description=Compressor Engine, Caterpillar, 2500 hp Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6168hr/yr, 24hr/day
SO LOCATION 38827E2 POINT 633315.064 3554010.448 0
SO SRCPARAM 38827E2 .0226796 7.53 718.15 104.06 .24
** NMED source ID=38827EQPT3 Facility's ID=E-3
** Description=Compressor Engine, Caterpillar, 3750 hp Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6507hr/yr, 24hr/day
SO LOCATION 38827E3 POINT 633308.278 3554014 0
```

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SO SRCPARAM 38827E3 .0340195 7.53 722.04 154.81 .24
** NMED source ID=38827EQPT4 Facility's ID=E-4
** Description=Compressor Engine, Caterpillar, 3750 hp Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7251hr/yr, 24hr/day
SO LOCATION 38827E4 POINT 633300.681 3554011.908 0
SO SRCPARAM 38827E4 .0340195 6.52 722.04 154.81 .24
** NMED source ID=38827EQPT5 Facility's ID=E-5
** Description=VRU Engine Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5270hr/yr, 24hr/day
SO LOCATION 38827E5 POINT 633296.44 3554005.008 0
SO SRCPARAM 38827E5 .00126 2.5 588.71 16.34 .09
** NMED source ID=38827EQPT6 Facility's ID=GEN-1
** Description=Generator Engine Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8607hr/yr, 24hr/day
SO LOCATION 38827E6 POINT 633298.092 3553996.854 0
SO SRCPARAM 38827E6 .0390594 3.51 1024.26 9.69 .09
** NMED source ID=38827EQPT7 Facility's ID=GEN2
** Description=Generator Engine Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=30hr/yr, 24hr/day
SO LOCATION 38827E7 POINT 633305.041 3553991.892 0
SO SRCPARAM 38827E7 .0390594 3.51 1024.26 9.69 .09
** NMED source ID=38827EQPT14 Facility's ID=E-6
** Description=Compressor Engine, Caterpillar, 2500 hp Construction date=04-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38827E14 POINT 633313.724 3553993.034 0
SO SRCPARAM 38827E14 .0226796 7.53 718.15 104.06 .24
** NMED source ID=38827EQPT15 Facility's ID=E-7
** Description=Compressor Engine, Caterpillar, 2500 hp Construction date=14-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38827E15 POINT 633319.434 3553999.962 0
SO SRCPARAM 38827E15 .0226796 7.53 718.15 104.06 .24
** NMED source ID=38827EQPT16 Facility's ID=E-8
** Description=Compressor Engine, Caterpillar, 3750 hp Construction date=14-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38827E16 POINT 633318.869 3554009.143 0
SO SRCPARAM 38827E16 .0340195 6.52 722.04 154.81 .24
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** NMED source ID=38827RPNT4 Facility's ID=UR-01
** Description=Unpaved Road Dust Construction date=21-FEB-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38827R4 VOLUME 633312.034 3554015.621 0
SO SRCPARAM 38827R4 .0163797 10 10 9.3
**********END OF 38827: Delaware - Alamo Compressor Station
INFO**********************************
************************************************************
** 12.25km away. Facility ID=38269 Name=Fox 30 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1015, -103.5066, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.12tons/year
*****************Facility sources: ******************************
** NMED source ID=38269EQPT7 Facility's ID=HT-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38269E7 VOLUME 640910.994 3552662.403 0
SO SRCPARAM 38269E7 .00126 5.18 .47 .93
** NMED source ID=38269EQPT8 Facility's ID=HT-2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38269E8 VOLUME 640918.53 3552669.424 0
SO SRCPARAM 38269E8 .00126 5.18 .47 .93
**********END OF 38269: Fox 30 Fed Com CTB INFO**********************************
************************************************************
** 12.26km away. Facility ID=39922 Name=Wild Salsa CTB
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.28082, -103.624175, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.94tons/year
*****************Facility sources: ******************************
** NMED source ID=39922AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=26-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922A1 VOLUME 629561.773 3572394.11 0
SO SRCPARAM 39922A1 .0138598 10 10 9.3
** NMED source ID=39922EQPT21 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39922E21 POINT 629569.309 3572401.131 0
SO SRCPARAM 39922E21 .0037799 4.57 930.37 13.77 .21
** NMED source ID=39922EQPT22 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E22 POINT 629562.523 3572404.683 0
SO SRCPARAM 39922E22 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT23 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E23 POINT 629554.926 3572402.591 0
SO SRCPARAM 39922E23 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT24 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E24 POINT 629550.685 3572395.691 0
SO SRCPARAM 39922E24 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT25 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E25 POINT 629552.337 3572387.537 0
SO SRCPARAM 39922E25 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT26 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E26 POINT 629559.286 3572382.575 0
SO SRCPARAM 39922E26 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT27 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E27 POINT 629567.969 3572383.717 0
SO SRCPARAM 39922E27 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT28 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E28 POINT 629573.679 3572390.645 0
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SO SRCPARAM 39922E28 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT29 Facility's ID=ENG-9
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E29 POINT 629573.114 3572399.826 0
SO SRCPARAM 39922E29 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT30 Facility's ID=ENG-10
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E30 POINT 629566.279 3572406.304 0
SO SRCPARAM 39922E30 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT31 Facility's ID=ENG-11
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E31 POINT 629556.643 3572406.381 0
SO SRCPARAM 39922E31 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT32 Facility's ID=ENG-12
** Description=Compressor Engine Construction date=02-APR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E32 POINT 629549.382 3572399.715 0
SO SRCPARAM 39922E32 .0037799 4.57 846.48 12.8 .21
** NMED source ID=39922EQPT33 Facility's ID=HT-1
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E33 VOLUME 629548.602 3572389.669 0
SO SRCPARAM 39922E33 .00126 4.57 .47 .93
** NMED source ID=39922EQPT34 Facility's ID=HT-2
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E34 VOLUME 629555.02 3572381.618 0
SO SRCPARAM 39922E34 .00126 4.57 .47 .93
** NMED source ID=39922EQPT35 Facility's ID=HT-3
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E35 VOLUME 629565.422 3572380.077 0
SO SRCPARAM 39922E35 .00126 4.57 .47 .93
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** NMED source ID=39922EQPT36 Facility's ID=HT-4
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E36 VOLUME 629574.262 3572386.169 0
SO SRCPARAM 39922E36 .00126 4.57 .47 .93
** NMED source ID=39922EQPT37 Facility's ID=HT-5
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E37 VOLUME 629576.619 3572396.867 0
SO SRCPARAM 39922E37 .00126 4.57 .47 .93
** NMED source ID=39922EQPT38 Facility's ID=HT-6
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E38 VOLUME 629570.935 3572406.488 0
SO SRCPARAM 39922E38 .00126 4.57 .47 .93
** NMED source ID=39922EQPT39 Facility's ID=HT-7
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E39 VOLUME 629560.005 3572409.71 0
SO SRCPARAM 39922E39 .00126 4.57 .47 .93
** NMED source ID=39922EQPT40 Facility's ID=HT-8
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E40 VOLUME 629549.618 3572404.515 0
SO SRCPARAM 39922E40 .00126 4.57 .47 .93
** NMED source ID=39922EQPT41 Facility's ID=HT-9
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E41 VOLUME 629545.487 3572393.425 0
SO SRCPARAM 39922E41 .00126 4.57 .47 .93
** NMED source ID=39922EQPT42 Facility's ID=HT-10
** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E42 VOLUME 629550.113 3572382.294 0
SO SRCPARAM 39922E42 .00126 4.57 .47 .93
** NMED source ID=39922EQPT43 Facility's ID=HT-11
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** Description=Heater Treater 0.75 MMBtu/h Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E43 VOLUME 629561.287 3572377.217 0
SO SRCPARAM 39922E43 .00126 4.57 .47 .93
** NMED source ID=39922EQPT44 Facility's ID=HT-14
** Description=Heater Treater 1 MMBtu/h Dual Burner Construction date=02-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E44 VOLUME 629573.13 3572381.193 0
SO SRCPARAM 39922E44 .00252 4.57 .47 .93
** NMED source ID=39922EQPT56 Facility's ID=GEN-1
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E56 POINT 629579.186 3572392.371 0
SO SRCPARAM 39922E56 .0088199 4.57 1005.37 49.01 .15
** NMED source ID=39922EQPT57 Facility's ID=GEN-2
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E57 POINT 629575.939 3572404.889 0
SO SRCPARAM 39922E57 .0088199 4.57 1005.37 49.01 .15
** NMED source ID=39922EQPT58 Facility's ID=GEN-3
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E58 POINT 629564.841 3572411.948 0
SO SRCPARAM 39922E58 .0088199 4.57 1005.37 49.01 .15
** NMED source ID=39922EQPT59 Facility's ID=GEN-4
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E59 POINT 629551.695 3572409.504 0
SO SRCPARAM 39922E59 .0062999 4.57 1005.37 36.85 .15
** NMED source ID=39922EQPT60 Facility's ID=GEN-5
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E60 POINT 629543.614 3572398.576 0
SO SRCPARAM 39922E60 .0062999 4.57 1005.37 36.85 .15
** NMED source ID=39922EQPT61 Facility's ID=GEN-6
** Description=Generator Engine Construction date=26-SEP-23
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E61 POINT 629545.18 3572384.854 0
SO SRCPARAM 39922E61 .0062999 4.57 1005.37 36.85 .15
** NMED source ID=39922EQPT62 Facility's ID=GEN-7
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E62 POINT 629555.85 3572375.741 0
SO SRCPARAM 39922E62 .0050399 4.57 1005.37 29.21 .15
** NMED source ID=39922EQPT63 Facility's ID=HT-12
** Description=Heater Treater 0.75 MMBtu/h Construction date=26-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E63 VOLUME 629570.087 3572376.361 0
SO SRCPARAM 39922E63 .00126 4.57 .47 .93
** NMED source ID=39922EQPT64 Facility's ID=HT-13
** Description=Heater Treater 0.75 MMBtu/h Construction date=26-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E64 VOLUME 629580.233 3572386.678 0
SO SRCPARAM 39922E64 .00126 4.57 .47 .93
** NMED source ID=39922EQPT65 Facility's ID=HT-15
** Description=Heater Treater 1 MMBtu/h Dual Burner Construction date=26-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E65 VOLUME 629580.626 3572401.363 0
SO SRCPARAM 39922E65 .00252 4.57 .47 .93
**********END OF 39922: Wild Salsa CTB INFO**********************************
************************************************************
** 12.28km away. Facility ID=39183 Name=Bonaid Federal 17 D CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8501 NOI
** lat,long,datum=32.2231, -103.39438, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.34tons/year
*****************Facility sources: ****************************
** NMED source ID=39183EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39183E4 VOLUME 651299.623 3566295.734 0
SO SRCPARAM 39183E4 .00126 4.57 .47 .93
** NMED source ID=39183EQPT7 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=15-MAY-23
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39183E7 POINT 651307.159 3566302.755 0
SO SRCPARAM 39183E7 .0037799 3.66 833.15 61.72 .1
** NMED source ID=39183EQPT8 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=15-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39183E8 POINT 651300.373 3566306.307 0
SO SRCPARAM 39183E8 .0037799 3.66 833.15 61.72 .1
**********END OF 39183: Bonaid Federal 17 D CTB
INFO**********************************
************************************************************
** 12.33km away. Facility ID=38941 Name=Chevron - Cox 35 Fed 1H
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.254445, -103.644167, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.7tons/year
*****************Facility sources: ****************************
** NMED source ID=38941AREA1 Facility's ID=ROAD
** Description=Road Emissions Construction date=11-JUN-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38941A1 VOLUME 627715.915 3569446.187 0
SO SRCPARAM 38941A1 .0125998 1 .47 .93
** NMED source ID=38941EQPT1 Facility's ID=REB-1
** Description=0.2 MMBtu/hr TEG Reboiler Construction date=11-JUN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38941E1 POINT 627723.451 3569453.208 0
SO SRCPARAM 38941E1 .0002898 6.1 455.37 .77 .23
** NMED source ID=38941EQPT2 Facility's ID=HTR-1
** Description=0.2 MMBtu/hr heater treater Construction date=11-JUN-19
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38941E2 VOLUME 627716.665 3569456.76 0
SO SRCPARAM 38941E2 .0002898 6.1 .47 .93
** NMED source ID=38941EQPT3 Facility's ID=ENG-1
** Description=Caterpillar 3508 TALE 630 hp Construction date=11-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38941E3 POINT 627709.068 3569454.668 0
SO SRCPARAM 38941E3 .0062999 4.65 730.93 32 .26
** NMED source ID=38941RPNT3 Facility's ID=SITE-SSM
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** Description=Startup, shutdown, maintenance Construction date=11-JUN-19
** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38941R3 VOLUME 627704.827 3569447.768 0
SO SRCPARAM 38941R3 .0002898 1 .47 .93
**********END OF 38941: Chevron - Cox 35 Fed 1H
INFO**********************************
************************************************************
** 12.43km away. Facility ID=40226 Name=EOG - Resolute 12 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1415, -103.6276, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=40226EQPT1 Facility's ID=HTR-1
** Description=Heater Treater 1.5 MMBtu/hr Construction date=15-NOV-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40226E1 VOLUME 629436.452 3556944.963 0
SO SRCPARAM 40226E1 .00126 6.1 .47 .93
**********END OF 40226: EOG - Resolute 12 Fed Com CTB
INFO**********************************
************************************************************
** 12.46km away. Facility ID=37933 Name=Hound 30 Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.099, -103.5129, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=37933EQPT18 Facility's ID=HTR-1
** Description=2.0 MMBTU/hr Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37933E18 VOLUME 640320.317 3552377.033 0
SO SRCPARAM 37933E18 .00252 6.1 .47 .93
**********END OF 37933: Hound 30 Fed CTB INFO**********************************
************************************************************
** 12.53km away. Facility ID=38804 Name=Eider Federal 35 CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8160 NOI
** lat,long,datum=32.168722, -103.647425, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.34tons/year
*****************Facility sources: ******************************
** NMED source ID=38804AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=16-FEB-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38804A1 VOLUME 627528.602 3559939.097 0
SO SRCPARAM 38804A1 .0005796 1 .47 .93
** NMED source ID=38804EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38804E4 VOLUME 627536.138 3559946.118 0
SO SRCPARAM 38804E4 .0050399 4.57 .47 .93
** NMED source ID=38804EQPT7 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=16-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38804E7 VOLUME 627529.352 3559949.67 0
SO SRCPARAM 38804E7 .0050399 4.57 .47 .93
** NMED source ID=38804EQPT8 Facility's ID=HT-03
** Description=Heater Treater Burner Construction date=16-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38804E8 VOLUME 627521.755 3559947.578 0
SO SRCPARAM 38804E8 .0005796 6.71 .47 .93
**********END OF 38804: Eider Federal 35 CTB
INFO************************************
************************************************************
** 12.54km away. Facility ID=31476 Name=Chevron - McCloy Ranch 2-24-32 St Com 1H
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21113    Permit=4777 NOI
** lat,long,datum=32.253278, -103.6471, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.31tons/year
*****************Facility sources: ******************************
** NMED source ID=31476EQPT1 Facility's ID=Eng-1
** Description=Caterpillar G3306TA Construction date=01-MAR-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31476E1 POINT 627441.243 3569313.326 0
SO SRCPARAM 31476E1 .0088199 6.4 864.26 10.85 .24
**********END OF 31476: Chevron - McCloy Ranch 2-24-32 St Com 1H
INFO************************************
************************************************************
** 12.55km away. Facility ID=38867 Name=Pronghorn 15 B3DM FED COM 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=8216 NOI
** lat,long,datum=32.311723, -103.465141, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.22tons/year
*****************Facility sources: ******************************
** NMED source ID=38867AREA1 Facility's ID=HR-01
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** Description=Haul Road Emissions Construction date=12-JAN-24
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38867A1 VOLUME 644490.466 3576023.393 0
SO SRCPARAM 38867A1 .0088199 10 10 9.3
** NMED source ID=38867EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38867E3 VOLUME 644498.002 3576030.414 0
SO SRCPARAM 38867E3 .00126 4.57 .47 .93
** NMED source ID=38867EQPT4 Facility's ID=HT-02
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38867E4 VOLUME 644491.216 3576033.966 0
SO SRCPARAM 38867E4 .00126 4.57 .47 .93
** NMED source ID=38867EQPT21 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38867E21 POINT 644483.619 3576031.874 0
SO SRCPARAM 38867E21 .0050399 4.11 894.82 36.52 .13
**********END OF 38867: Pronghorn 15 B3DM FED COM 1H Battery
INFO**********************************
**************************************************************
** 12.58km away. Facility ID=39472 Name=Ghost Rider North Satellite and Gas Lift
** Company ID=10730 Name=Apache Corporation
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.215119, -103.657383, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.89tons/year
*****************Facility sources: ******************************
** NMED source ID=39472AREA1 Facility's ID=HR-1
** Description=Unpaved Roadways Construction date=13-NOV-20
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472A1 VOLUME 626525.405 3565070.865 0
SO SRCPARAM 39472A1 .4498129 10 40 9.3
** NMED source ID=39472EQPT3 Facility's ID=C-1
** Description=670-hp Caterpillar G3508LE Engine Construction date=13-NOV-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472E3 POINT 626532.941 3565077.886 0
SO SRCPARAM 39472E3 .0075599 6.1 819.82 49.13 .23
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** NMED source ID=39472EQPT6 Facility's ID=REB-1
** Description=0.30 MMBtu/h Reboiler Construction date=13-NOV-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472E6 POINT 626526.155 3565081.438 0
SO SRCPARAM 39472E6 .0002898 6.1 588.71 .45 .41
** NMED source ID=39472EQPT9 Facility's ID=AREB-1
** Description=Amine Regenerator 1 MM BTU/h Construction date=23-AUG-21
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472E9 POINT 626518.558 3565079.346 0
SO SRCPARAM 39472E9 .00126 7.62 588.71 2.7 .3
** NMED source ID=39472EQPT10 Facility's ID=AREB-2
** Description=Amine Regenerator 1 MM BTU/h Construction date=23-AUG-21
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472E10 POINT 626514.317 3565072.446 0
SO SRCPARAM 39472E10 .00126 7.62 588.71 2.7 .3
** NMED source ID=39472EQPT12 Facility's ID=C-2
** Description=1380-hp Caterpillar G3516B Engine Construction date=24-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472E12 POINT 626515.969 3565064.292 0
SO SRCPARAM 39472E12 .0138598 6.1 810.93 36.82 .38
**********END OF 39472: Ghost Rider North Satellite and Gas Lift
INFO**********************************
************************************************************
** 12.62km away. Facility ID=39451 Name=EOG - Viper Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1327, -103.6212, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.96tons/year
*****************Facility sources: ****************************
** NMED source ID=39451EQPT1 Facility's ID=ENG-1
** Description=1875 HP CAT G3606A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6936hr/yr, 24hr/day
SO LOCATION 39451E1 POINT 630052.602 3555977.117 0
SO SRCPARAM 39451E1 .0151198 8.53 701.48 27.86 .51
** NMED source ID=39451EQPT2 Facility's ID=ENG-2
** Description=1875 HP CAT G3606A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6936hr/yr, 24hr/day
SO LOCATION 39451E2 POINT 630060.138 3555984.138 0
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SO SRCPARAM 39451E2 .0151198 8.53 701.48 27.86 .51
** NMED source ID=39451EQPT3 Facility's ID=ENG-3
** Description=1875 HP CAT G3606A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2544hr/yr, 24hr/day
SO LOCATION 39451E3 POINT 630053.352 3555987.69 0
SO SRCPARAM 39451E3 .0151198 8.53 701.48 27.86 .51
** NMED source ID=39451EQPT4 Facility's ID=ENG-4
** Description=2500 HP CAT G3608A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6936hr/yr, 24hr/day
SO LOCATION 39451E4 POINT 630045.755 3555985.598 0
SO SRCPARAM 39451E4 .0214197 8.84 688.15 25.51 .61
** NMED source ID=39451EQPT5 Facility's ID=ENG-5
** Description=2500 HP CAT G3608A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2544hr/yr, 24hr/day
SO LOCATION 39451E5 POINT 630041.514 3555978.698 0
SO SRCPARAM 39451E5 .0214197 8.84 688.15 25.51 .61
** NMED source ID=39451EQPT6 Facility's ID=ENG-6
** Description=2500 HP CAT G3608A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39451E6 POINT 630043.166 3555970.544 0
SO SRCPARAM 39451E6 .0214197 8.84 688.15 25.51 .61
** NMED source ID=39451EQPT12 Facility's ID=Reboiler-1
** Description=1 MMbtu/hr Dehydrator Reboiler Construction date=03-MAR-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8064hr/yr, 24hr/day
SO LOCATION 39451E12 POINT 630050.115 3555965.582 0
SO SRCPARAM 39451E12 .00126 3.96 588.71 2.65 .3
** NMED source ID=39451EQPT13 Facility's ID=Heater-1
** Description=0.5 MMbtu/hr Separator Heater Construction date=03-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7560hr/yr, 24hr/day
SO LOCATION 39451E13 POINT 630058.798 3555966.724 0
SO SRCPARAM 39451E13 .00126 3.96 588.71 1.31 .3
**********END OF 39451: EOG - Viper Localized Gas Lift Station
INFO************************************
************************************************************
** 12.66km away. Facility ID=38806 Name=Dominator Fed 25P CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8158 NOI
** lat,long,datum=32.096842, -103.520106, WGS84
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** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
*****************Facility sources: ****************************
** NMED source ID=38806AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=15-SEP-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38806A1 VOLUME 639643.589 3552128.438 0
SO SRCPARAM 38806A1 .0005796 1 .47 .93
** NMED source ID=38806EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38806E4 VOLUME 639651.125 3552135.459 0
SO SRCPARAM 38806E4 .00126 6.71 .47 .93
** NMED source ID=38806EQPT7 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=15-SEP-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38806E7 VOLUME 639644.339 3552139.011 0
SO SRCPARAM 38806E7 .00126 6.71 .47 .93
**********END OF 38806: Dominator Fed 25P CTB
INFO**********************************
************************************************************
** 12.68km away. Facility ID=38292 Name=Dogwood 23 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0967, -103.521389, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=38292EQPT15 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-MAR-18
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38292E15 VOLUME 639522.728 3552111.035 0
SO SRCPARAM 38292E15 .00126 4.88 .47 .93
**********END OF 38292: Dogwood 23 Fed Com CTB
INFO**********************************
************************************************************
** 12.71km away. Facility ID=37515 Name=Twisted Sister Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.150834, -103.638889, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=6.41tons/year
*****************Facility sources: ****************************
** NMED source ID=37515EQPT2 Facility's ID=16-0494
** Description=Compressor Engine Cat G3606 1775HP Construction date=12-MAY-17
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7998hr/yr, 22hr/day
SO LOCATION 37515E2 POINT 628358.572 3557966.203 0
SO SRCPARAM 37515E2 .0176397 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT7 Facility's ID=16-0495
** Description=Compressor Engine Cat G3606 1775HP Construction date=12-MAY-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8336hr/yr, 23hr/day
SO LOCATION 37515E7 POINT 628366.108 3557973.224 0
SO SRCPARAM 37515E7 .0176397 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT8 Facility's ID=17-0584
** Description=Compressor Engine Cat G3606 1775HP Construction date=12-MAY-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8207hr/yr, 22hr/day
SO LOCATION 37515E8 POINT 628359.322 3557976.776 0
SO SRCPARAM 37515E8 .0176397 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT9 Facility's ID=ENG-4
** Description=Compressor Engine Cat. G3606 1775HP Construction date=12-MAY-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37515E9 POINT 628351.725 3557974.684 0
SO SRCPARAM 37515E9 .0176397 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT18 Facility's ID=AU-RB
** Description=Amine Reboiler 12.6 MMBTU/hr Construction date=16-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8630hr/yr, 24hr/day
SO LOCATION 37515E18 POINT 628347.484 3557967.784 0
SO SRCPARAM 37515E18 .0125998 9.14 588.71 9.91 .56
** NMED source ID=37515EQPT19 Facility's ID=Gen-1
** Description=Generator 612 HP Construction date=14-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37515E19 POINT 628349.136 3557959.63 0
SO SRCPARAM 37515E19 .0062999 4.51 1023.15 177.97 .1
** NMED source ID=37515EQPT20 Facility's ID=Gen-2
** Description=Generator 612 HP Construction date=14-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37515E20 POINT 628356.085 3557954.668 0
SO SRCPARAM 37515E20 .0062999 4.51 1023.15 177.97 .1
** NMED source ID=37515EQPT21 Facility's ID=RBL-1
** Description=0.75 MMBTU/h Dehydrator Reboiler Construction date=13-SEP-19
** SCC=31000302
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8630hr/yr, 24hr/day
SO LOCATION 37515E21 POINT 628364.768 3557955.81 0
SO SRCPARAM 37515E21 .00126 4.57 588.71 5.27 .3
** NMED source ID=37515EQPT22 Facility's ID=RBL-2
** Description=0.5 MMBTU/h Dehydrator Reboiler Construction date=13-SEP-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37515E22 POINT 628370.478 3557962.738 0
SO SRCPARAM 37515E22 .0005796 4.57 588.71 5.27 .3
** NMED source ID=37515EQPT25 Facility's ID=TO-1
** Description=Control Thermal Oxidizer Construction date=13-SEP-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5208hr/yr, 14hr/day
SO LOCATION 37515E25 POINT 628369.913 3557971.919 0
SO SRCPARAM 37515E25 .0970185 6.1 1033.15 12.19 .46
** NMED source ID=37515RPNT2 Facility's ID=HAUL
** Description=Haul Road Construction date=16-JAN-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37515R2 VOLUME 628363.078 3557978.397 0
SO SRCPARAM 37515R2 .00126 1 .47 .93
**********END OF 37515: Twisted Sister Compressor Station
INFO**********************************
************************************************************
** 12.71km away. Facility ID=38851 Name=Dominator Fed 25O CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8204 NOI
** lat,long,datum=32.096411, -103.525447, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.16tons/year
*****************Facility sources: ****************************
** NMED source ID=38851AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=15-SEP-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38851A1 VOLUME 639140.214 3552073.751 0
SO SRCPARAM 38851A1 .0005796 1 .47 .93
** NMED source ID=38851EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38851E4 VOLUME 639147.75 3552080.772 0
SO SRCPARAM 38851E4 .00126 6.71 .47 .93
** NMED source ID=38851EQPT7 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=15-SEP-22
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38851E7 VOLUME 639140.964 3552084.324 0
SO SRCPARAM 38851E7 .00252 6.71 .47 .93
**********END OF 38851: Dominator Fed 25O CTB
INFO**********************************
************************************************************
** 12.73km away. Facility ID=40549 Name=Bedlington Federal 35N CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9692 NOI
** lat,long,datum=32.256355, -103.647816, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40549AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=18-AUG-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40549A1 VOLUME 627369.494 3569653.594 0
SO SRCPARAM 40549A1 .0005796 1 .47 .93
** NMED source ID=40549EQPT2 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=18-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40549E2 VOLUME 627377.03 3569660.615 0
SO SRCPARAM 40549E2 .00126 6.71 .47 .93
** NMED source ID=40549EQPT3 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=18-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40549E3 VOLUME 627370.244 3569664.167 0
SO SRCPARAM 40549E3 .00126 6.71 .47 .93
**********END OF 40549: Bedlington Federal 35N CTB
INFO**********************************
************************************************************
** 12.76km away. Facility ID=38805 Name=Dominator Fed 25M CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8159 NOI
** lat,long,datum=32.096128, -103.532417, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
*****************Facility sources: ****************************
** NMED source ID=38805EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38805E4 VOLUME 638482.882 3552033.402 0
```

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SO SRCPARAM 38805E4 .00126 6.71 .47 .93
** NMED source ID=38805EQPT7 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=15-SEP-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38805E7 VOLUME 638490.418 3552040.423 0
SO SRCPARAM 38805E7 .00252 6.71 .47 .93
**********END OF 38805: Dominator Fed 25M CTB
INFO**********************************
************************************************************
** 12.76km away. Facility ID=35462 Name=Lomas Rojas 26 CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.096516, -103.537316, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=35462EQPT5 Facility's ID=HTR-1
** Description=Heater Treater (0.75 MM BTU/h) Construction date=20-NOV-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35462E5 VOLUME 638019.978 3552070.133 0
SO SRCPARAM 35462E5 .00126 4.88 .47 .93
** NMED source ID=35462EQPT6 Facility's ID=HTR-2
** Description=Heater Treater (0.75 MM BTU/h) Construction date=20-NOV-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35462E6 VOLUME 638027.514 3552077.154 0
SO SRCPARAM 35462E6 .00126 4.88 .47 .93
**********END OF 35462: Lomas Rojas 26 CTB INFO**********************************
************************************************************
** 12.77km away. Facility ID=38817 Name=Dominator Fed 25N CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8171 NOI
** lat,long,datum=32.095914, -103.527333, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
*****************Facility sources: ****************************
** NMED source ID=38817EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38817E4 VOLUME 638962.984 3552016.22 0
SO SRCPARAM 38817E4 .00126 6.71 .47 .93
** NMED source ID=38817EQPT7 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=15-SEP-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38817E7 VOLUME 638970.52 3552023.241 0
SO SRCPARAM 38817E7 .00126 6.71 .47 .93
** NMED source ID=38817RPNT2 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=15-SEP-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38817R2 VOLUME 638963.734 3552026.793 0
SO SRCPARAM 38817R2 .0005796 1 .47 .93
**********END OF 38817: Dominator Fed 25N CTB
INFO**********************************
************************************************************
** 12.78km away. Facility ID=40062 Name=Merciless 13 CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1355, -103.6266, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.61tons/year
*****************Facility sources: ****************************
** NMED source ID=40062EQPT3 Facility's ID=HTR-1
** Description=Heater Treater Construction date=14-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40062E3 POINT 629539.257 3556281.013 0
SO SRCPARAM 40062E3 .00126 7.32 588.71 .19 1.83
** NMED source ID=40062EQPT6 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=06-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40062E6 POINT 629546.793 3556288.034 0
SO SRCPARAM 40062E6 .0075599 3.96 803.71 58.52 .13
** NMED source ID=40062EQPT7 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=06-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40062E7 POINT 629540.007 3556291.586 0
SO SRCPARAM 40062E7 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=40062EQPT8 Facility's ID=HTR-2
** Description=Heater Treater Construction date=06-NOV-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40062E8 POINT 629532.41 3556289.494 0
SO SRCPARAM 40062E8 .00126 4.88 588.71 .21 1.22
**********END OF 40062: Merciless 13 CTB INFO**********************************
************************************************************
** 12.83km away. Facility ID=39048 Name=Apache - Ghost Rider Satellite and Gas Lift
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** Company ID=10730 Name=Apache Corporation
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.196842, -103.659133, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.62tons/year
*****************Facility sources: ****************************
** NMED source ID=39048EQPT1 Facility's ID=C-1
** Description=1380 hp, Caterpillar G3516J 4SLB Construction date=13-NOV-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7209hr/yr, 24hr/day
SO LOCATION 39048E1 POINT 626385.752 3563042.631 0
SO SRCPARAM 39048E1 .0075599 7.92 720.37 52.37 .3
** NMED source ID=39048EQPT3 Facility's ID=REB-1
** Description=0.3 MMBTU/h Glycol Reboiler Construction date=19-JUL-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8040hr/yr, 24hr/day
SO LOCATION 39048E3 POINT 626393.288 3563049.652 0
SO SRCPARAM 39048E3 .0002898 6.1 588.71 3.45 .15
** NMED source ID=39048EQPT5 Facility's ID=FL-1
** Description=Flare Construction date=19-JUL-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=88hr/yr, 24hr/day
SO LOCATION 39048E5 POINT 626386.502 3563053.204 0
SO SRCPARAM 39048E5 .00126 18.29 1273 20 20.806
** NMED source ID=39048EQPT6 Facility's ID=C-2
** Description=670 hp, Caterpillar G3508LE 4SLB Construction date=19-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7648hr/yr, 24hr/day
SO LOCATION 39048E6 POINT 626378.905 3563051.112 0
SO SRCPARAM 39048E6 .0075599 6.1 820.93 52.06 .23
** NMED source ID=39048RPNT2 Facility's ID=SSM
** Description=SSM Construction date=19-JUL-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39048R2 VOLUME 626374.664 3563044.212 0
SO SRCPARAM 39048R2 .00126 1 .47 .93
**********END OF 39048: Apache - Ghost Rider Satellite and Gas Lift
INFO*************************************
************************************************************
** 12.89km away. Facility ID=40286 Name=Modelo 10 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2348, -103.6577, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.66tons/year
*****************Facility sources: ****************************
** NMED source ID=40286EQPT1 Facility's ID=HTR-1
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** Description=Heater Treater Construction date=14-JAN-22
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E1 VOLUME 626468.267 3567252.32 0
SO SRCPARAM 40286E1 .00126 7.32 .47 .93
** NMED source ID=40286EQPT20 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=13-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E20 POINT 626475.803 3567259.341 0
SO SRCPARAM 40286E20 .0075599 3.96 803.71 59.13 .13
** NMED source ID=40286EQPT21 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=13-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E21 POINT 626469.017 3567262.893 0
SO SRCPARAM 40286E21 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=40286EQPT22 Facility's ID=HTR-2
** Description=Heater Treater Construction date=13-NOV-23
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E22 VOLUME 626461.42 3567260.801 0
SO SRCPARAM 40286E22 .00126 7.32 .47 .93
** NMED source ID=40286EQPT23 Facility's ID=HTR-3
** Description=Heater Treater Construction date=13-NOV-23
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E23 VOLUME 626457.179 3567253.901 0
SO SRCPARAM 40286E23 .00126 4.88 .47 .93
**********END OF 40286: Modelo 10 Fed Com CTB
INFO**********************************
************************************************************
** 12.92km away. Facility ID=40079 Name=Pegasus 3 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2408, -103.6563, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.46tons/year
*****************Facility sources: ****************************
** NMED source ID=40079EQPT1 Facility's ID=HT-1
** Description=Heater Treater - 1.5 MMBtu/hr Construction date=21-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40079E1 VOLUME 626591.86 3567919.129 0
SO SRCPARAM 40079E1 .00126 5.18 .47 .93
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** NMED source ID=40079EQPT15 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=04-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40079E15 POINT 626599.396 3567926.15 0
SO SRCPARAM 40079E15 .00252 4.82 867.04 17.54 .15
** NMED source ID=40079EQPT16 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=04-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40079E16 POINT 626592.61 3567929.702 0
SO SRCPARAM 40079E16 .00252 4.82 867.04 17.54 .15
** NMED source ID=40079EQPT18 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=04-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40079E18 POINT 626585.013 3567927.61 0
SO SRCPARAM 40079E18 .00252 4.82 867.04 17.54 .15
** NMED source ID=40079EQPT19 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=04-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40079E19 POINT 626580.772 3567920.71 0
SO SRCPARAM 40079E19 .00252 4.82 867.04 17.54 .15
**********END OF 40079: Pegasus 3 Fed Com CTB
INFO**********************************
************************************************************
** 12.92km away. Facility ID=40347 Name=North Mid Bell Lake Compressor Station
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.32606, -103.5102, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=3.84tons/year
*****************Facility sources: ****************************
** NMED source ID=40347EQPT3 Facility's ID=ENG-1
** Description=2500 HP Compressor Engine Construction date=16-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E3 POINT 640226.125 3577552.987 0
SO SRCPARAM 40347E3 .0214197 7.01 691.48 46.63 .46
** NMED source ID=40347EQPT4 Facility's ID=ENG-2
** Description=2500 HP Compressor Engine Construction date=16-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E4 POINT 640233.661 3577560.008 0
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SO SRCPARAM 40347E4 .0214197 7.01 691.48 46.63 .46
** NMED source ID=40347EQPT5 Facility's ID=ENG-3
** Description=2500 HP Compressor Engine Construction date=16-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E5 POINT 640226.875 3577563.56 0
SO SRCPARAM 40347E5 .0214197 7.01 691.48 46.63 .46
** NMED source ID=40347EQPT6 Facility's ID=ENG-4
** Description=2500 HP Compressor Engine Construction date=16-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E6 POINT 640219.278 3577561.468 0
SO SRCPARAM 40347E6 .0214197 7.01 691.48 46.63 .46
** NMED source ID=40347EQPT7 Facility's ID=ENG-5
** Description=2500 HP Compressor Engine Construction date=16-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E7 POINT 640215.037 3577554.568 0
SO SRCPARAM 40347E7 .0214197 7.01 691.48 46.63 .46
** NMED source ID=40347EQPT11 Facility's ID=RB-1
** Description=2.0 MMBTU/hr Reboiler Construction date=16-MAR-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E11 POINT 640216.689 3577546.414 0
SO SRCPARAM 40347E11 .00252 4.57 369.82 10.44 .09
** NMED source ID=40347RPNT3 Facility's ID=HR-1
** Description=Unpaved Haul Road Emissions Construction date=03-MAR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347R3 VOLUME 640223.638 3577541.452 0
SO SRCPARAM 40347R3 .00126 1 .47 .93
**********END OF 40347: North Mid Bell Lake Compressor Station
INFO**********************************
************************************************************
** 12.92km away. Facility ID=39052 Name=Ghost Rider CTB
** Company ID=10730 Name=Apache Corporation
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.206583, -103.661027, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
****************Facility sources: ****************************
** NMED source ID=39052EQPT1 Facility's ID=HT-1
** Description=1.0 MMBTU/hr, Heater Treater Construction date=14-JUL-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3230hr/yr, 24hr/day
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SO LOCATION 39052E1 POINT 626193.765 3564120.285 0
SO SRCPARAM 39052E1 .00126 6.1 588.71 10.88 .15
** NMED source ID=39052EQPT2 Facility's ID=HT-2
** Description=1.0 MMBTU/hr, Heater Treater Construction date=14-JUL-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3230hr/yr, 24hr/day
SO LOCATION 39052E2 POINT 626201.301 3564127.306 0
SO SRCPARAM 39052E2 .00126 6.1 588.71 10.88 .15
** NMED source ID=39052EQPT3 Facility's ID=HT-3
** Description=1.0 MMBTU/hr, Heater Treater Construction date=14-JUL-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39052E3 POINT 626194.515 3564130.858 0
SO SRCPARAM 39052E3 .00126 6.1 588.71 10.88 .15
** NMED source ID=39052RPNT5 Facility's ID=U-ROAD
** Description=Unpaved Roadways Construction date=01-MAR-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39052R5 VOLUME 626186.918 3564128.766 0
SO SRCPARAM 39052R5 .0302395 10 20 9.3
**********END OF 39052: Ghost Rider CTB INFO************************************
************************************************************
** 12.95km away. Facility ID=7126 Name=Gorgon LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.24285, -103.65597, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.66tons/year
*****************Facility sources: ******************************
** NMED source ID=7126EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine 1, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E2 POINT 626620.107 3568146.781 0
SO SRCPARAM 7126E2 .0214197 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine 2, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E3 POINT 626627.643 3568153.802 0
SO SRCPARAM 7126E3 .0214197 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine 3, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 7126E4 POINT 626620.857 3568157.354 0
SO SRCPARAM 7126E4 .0214197 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine 4, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E5 POINT 626613.26 3568155.262 0
SO SRCPARAM 7126E5 .0214197 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine 5, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E6 POINT 626609.019 3568148.362 0
SO SRCPARAM 7126E6 .0214197 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine 6, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E7 POINT 626610.671 3568140.208 0
SO SRCPARAM 7126E7 .0214197 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT10 Facility's ID=HTR-1
** Description=Heater Treater, 1.0 MMBtu/hr Construction date=20-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E10 VOLUME 626617.62 3568135.246 0
SO SRCPARAM 7126E10 .00126 3.05 .47 .93
** NMED source ID=7126EQPT12 Facility's ID=RBL-1
** Description=Dehy Reboiler, 1.5 MMBtu/hr Construction date=20-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E12 POINT 626626.303 3568136.388 0
SO SRCPARAM 7126E12 .00126 4.57 588.71 3.99 .3
**********END OF 7126: Gorgon LGL Station INFO************************************
************************************************************
** 12.98km away. Facility ID=38196 Name=Eider Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.170494, -103.653275, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=4.69tons/year
*****************Facility sources: ******************************
** NMED source ID=38196AREA1 Facility's ID=HAUL
** Description=Haul Road Emissions Construction date=28-NOV-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38196A1 VOLUME 626974.527 3560128.619 0
SO SRCPARAM 38196A1 .1349187 10 10 9.3
**********END OF 38196: Eider Compressor Station
INFO**********************************
************************************************************
** 12.99km away. Facility ID=40258 Name=EOG - Pitchblende 29 Fed Com East CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0988, -103.4843, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=40258EQPT1 Facility's ID=HTR-1
** Description=Heater Treater, .75 MMBtu/hr Construction date=13-DEC-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40258E1 VOLUME 643019.552 3552392.451 0
SO SRCPARAM 40258E1 .00126 4.88 .47 .93
**********END OF 40258: EOG - Pitchblende 29 Fed Com East CTB
INFO**********************************
************************************************************
** 13km away. Facility ID=39751 Name=Lomas Rojas Tank Battery
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0952, -103.5457, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.24tons/year
*****************Facility sources: ******************************
** NMED source ID=39751EQPT12 Facility's ID=HTR-1
** Description=0.5 MMBtu/h Heater Treater Construction date=20-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39751E12 VOLUME 637230.751 3551913.537 0
SO SRCPARAM 39751E12 .00126 5.18 .47 .93
** NMED source ID=39751EQPT13 Facility's ID=HTR-2
** Description=0.5 MMBtu/h Heater Treater Construction date=20-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39751E13 VOLUME 637238.287 3551920.558 0
SO SRCPARAM 39751E13 .00126 5.18 .47 .93
** NMED source ID=39751EQPT14 Facility's ID=HTR-3
** Description=0.5 MMBtu/h Heater Treater Construction date=20-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39751E14 VOLUME 637231.501 3551924.11 0
SO SRCPARAM 39751E14 .00126 5.18 .47 .93
** NMED source ID=39751EQPT15 Facility's ID=HTR-4
** Description=0.5 MMBtu/h Heater Treater Construction date=20-NOV-20
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39751E15 VOLUME 637223.904 3551922.018 0
SO SRCPARAM 39751E15 .00126 5.18 .47 .93
** NMED source ID=39751RPNT2 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=20-NOV-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39751R2 VOLUME 637219.663 3551915.118 0
SO SRCPARAM 39751R2 .0050399 1 .47 .93
**********END OF 39751: Lomas Rojas Tank Battery
INFO**********************************
************************************************************
** 13.02km away. Facility ID=37349 Name=Viking Helmet State Com 2H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7054 NOI
** lat,long,datum=32.195107, -103.386899, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=37349AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=04-DEC-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37349A1 VOLUME 652051.232 3563202.846 0
SO SRCPARAM 37349A1 .00126 1 .47 .93
** NMED source ID=37349EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37349E4 VOLUME 652058.768 3563209.867 0
SO SRCPARAM 37349E4 .00126 6.71 .47 .93
** NMED source ID=37349EQPT6 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=02-JUL-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37349E6 VOLUME 652051.982 3563213.419 0
SO SRCPARAM 37349E6 .00126 6.71 .47 .93
**********END OF 37349: Viking Helmet State Com 2H Battery
INFO**********************************
************************************************************
** 13.05km away. Facility ID=35034 Name=Brown Bear 36 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0935, -103.5319, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
```

**********Facility sources: **********
** NMED source ID=35034EQPT15 Facility's ID=HT-1
** Description=Heater-1, 0.75 MMBtu/hr Construction date=08-JUL-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35034E15 POINT 638535.638 3551742.726 0
SO SRCPARAM 35034E15 .00126 5.18 588.71 3.4 .3
** NMED source ID=35034EQPT16 Facility's ID=HT-2
** Description=Heater-2, 0.75 MMBtu/hr Construction date=08-JUL-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35034E16 POINT 638543.174 3551749.747 0
SO SRCPARAM 35034E16 .00126 5.18 588.71 3.4 .3
** NMED source ID=35034EQPT18 Facility's ID=HT-3
** Description=Heater-3, 0.5 MMBtu/hr Construction date=02-FEB-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35034E18 POINT 638536.388 3551753.299 0
SO SRCPARAM 35034E18 .0005796 5.18 588.71 2.27 .3
**********END OF 35034: Brown Bear 36 State CTB
INFO**********
**********
** 13.05km away. Facility ID=39244 Name=Mewbourne - Ibex 10 B3OB Pronghorn 15 B3BO Fed Com 1H Oil MT Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=8555 NOI
** lat,long,datum=32.31226, -103.45495, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
**********Facility sources: **********
** NMED source ID=39244AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=01-JAN-20
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39244A1 VOLUME 645449.08 3576096.716 0
SO SRCPARAM 39244A1 .0088199 10 10 9.3
** NMED source ID=39244EQPT9 Facility's ID=HT-01
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39244E9 VOLUME 645456.616 3576103.737 0
SO SRCPARAM 39244E9 .00126 4.57 .47 .93
** NMED source ID=39244EQPT10 Facility's ID=HT-02
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day

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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39244E10 VOLUME 645449.83 3576107.289 0
SO SRCPARAM 39244E10 .00126 4.57 .47 .93
**********END OF 39244: Mewbourne - Ibex 10 B3OB Pronghorn 15 B3BO Fed Com 1H Oil MT
Battery INFO**********************************
************************************************************
** 13.07km away. Facility ID=37917 Name=Rider BRQ Fed Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7348 NOI
** lat,long,datum=32.124069, -103.430031, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=37917AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=01-JUN-17
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37917A1 VOLUME 648100.045 3555267.136 0
SO SRCPARAM 37917A1 .0005796 1 .47 .93
** NMED source ID=37917EQPT2 Facility's ID=HT-1
** Description=Heater Treater Burner Construction date=01-JUN-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37917E2 VOLUME 648107.581 3555274.157 0
SO SRCPARAM 37917E2 .00126 6.71 .47 .93
**********END OF 37917: Rider BRQ Fed Battery
INFO**********************************
************************************************************
** 13.1km away. Facility ID=38050 Name=Vaca Draw 20-17 Federal 1H-13H, 29H-31H,
43H-45H, 57H-59H, 61H, 71H-73H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.11182, -103.5995, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.31tons/year
*****************Facility sources: ****************************
** NMED source ID=38050AREA1 Facility's ID=HR
** Description=Haul Road Construction date=06-AUG-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050A1 VOLUME 632129.68 3553688.791 0
SO SRCPARAM 38050A1 .0113398 10 10 9.3
** NMED source ID=38050EQPT2 Facility's ID=HTR-1
** Description=Heater Treater, 2 MMBtu/hr Construction date=01-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8704hr/yr, 24hr/day
SO LOCATION 38050E2 VOLUME 632137.216 3553695.812 0
SO SRCPARAM 38050E2 .00126 4.57 .47 .93
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** NMED source ID=38050EQPT7 Facility's ID=Flare1
** Description=Process Flare Construction date=05-JUL-18
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38050E7 POINT 632130.43 3553699.364 0
SO SRCPARAM 38050E7 .0005796 18.29 1273 20 20.806
** NMED source ID=38050EQPT18 Facility's ID=HTR-2
** Description=Heater Treater, 2 MMBtu/hr Construction date=01-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8704hr/yr, 24hr/day
SO LOCATION 38050E18 VOLUME 632122.833 3553697.272 0
SO SRCPARAM 38050E18 .00126 4.57 .47 .93
** NMED source ID=38050EQPT19 Facility's ID=HTR-4
** Description=Heater Treater, 2 MMBtu/hr Construction date=29-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8721hr/yr, 24hr/day
SO LOCATION 38050E19 VOLUME 632118.592 3553690.372 0
SO SRCPARAM 38050E19 .00126 4.57 .47 .93
** NMED source ID=38050EQPT21 Facility's ID=HTR-3
** Description=Heater Treater, 2 MMBtu/hr Construction date=01-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8704hr/yr, 24hr/day
SO LOCATION 38050E21 VOLUME 632120.244 3553682.218 0
SO SRCPARAM 38050E21 .00126 4.57 .47 .93
** NMED source ID=38050EQPT22 Facility's ID=HTR-5
** Description=Heater Treater, 2 MMBtu/hr Construction date=29-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8721hr/yr, 24hr/day
SO LOCATION 38050E22 VOLUME 632127.193 3553677.256 0
SO SRCPARAM 38050E22 .00126 4.57 .47 .93
** NMED source ID=38050EQPT23 Facility's ID=HTR-6
** Description=Heater Treater, 2 MMBtu/hr Construction date=29-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8721hr/yr, 24hr/day
SO LOCATION 38050E23 VOLUME 632135.876 3553678.398 0
SO SRCPARAM 38050E23 .00126 4.57 .47 .93
** NMED source ID=38050EQPT26 Facility's ID=Flare3
** Description=Process Flare Construction date=05-JUL-18
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38050E26 POINT 632141.586 3553685.326 0
SO SRCPARAM 38050E26 .00126 18.29 1273 20 20.806
** NMED source ID=38050EQPT64 Facility's ID=ENG1
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** Description=Compressor Engine Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E64 POINT 632141.021 3553694.507 0
SO SRCPARAM 38050E64 .0138598 6.1 812.59 57.21 .3
** NMED source ID=38050EQPT71 Facility's ID=Flare1 SSM
** Description=Process Flare Construction date=02-NOV-17
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E71 POINT 632134.186 3553700.985 0
SO SRCPARAM 38050E71 .0031625 18.29 1273 20 2.632
** NMED source ID=38050EQPT72 Facility's ID=Flare3 SSM
** Description=Process Flare Construction date=02-NOV-17
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E72 POINT 632124.55 3553701.062 0
SO SRCPARAM 38050E72 .0040319 18.29 1273 20 2.632
** NMED source ID=38050EQPT73 Facility's ID=Flare4 SSM
** Description=Process Flare Construction date=02-NOV-17
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E73 POINT 632117.289 3553694.396 0
SO SRCPARAM 38050E73 .002583 27.43 1273 20 20.806
**********END OF 38050: Vaca Draw 20-17 Federal 1H-13H, 29H-31H, 43H-45H, 57H-59H,
61H, 71H-73H INFO************************************
************************************************************
** 13.1km away. Facility ID=40809 Name=Serpentine 2 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9796 NOI
** lat,long,datum=32.327783, -103.53593, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.36tons/year
*****************Facility sources: ******************************
** NMED source ID=40809EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=10-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40809E1 POINT 637801.471 3577710.612 0
SO SRCPARAM 40809E1 .0100798 5.58 812.59 35.42 .2
**********END OF 40809: Serpentine 2 Wellpad 2
INFO************************************
************************************************************
** 13.13km away. Facility ID=40808 Name=Serpentine 2 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9795 NOI
** lat,long,datum=32.327817, -103.539245, NAD83
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** Total Particulate Matter (2.5 microns or less) emissions=.59tons/year
*****************Facility sources: ****************************
** NMED source ID=40808EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=10-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40808E1 POINT 637489.376 3577710.121 0
SO SRCPARAM 40808E1 .0138598 5.85 772.59 21.02 .27
** NMED source ID=40808EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=10-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40808E2 POINT 637496.912 3577717.142 0
SO SRCPARAM 40808E2 .0037799 3.6 853.15 19.79 .17
**********END OF 40808: Serpentine 2 Wellpad 1
INFO**********************************
************************************************************
** 13.17km away. Facility ID=6334 Name=Tweety Bird 17 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.30901, -103.60152, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.1tons/year
*****************Facility sources: ****************************
** NMED source ID=6334EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=30-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E1 POINT 631654.619 3575546.9 0
SO SRCPARAM 6334E1 .0075599 3.96 803.71 58.52 .13
** NMED source ID=6334EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=30-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E2 POINT 631662.155 3575553.921 0
SO SRCPARAM 6334E2 .0088199 3.96 1003.71 82.3 .13
** NMED source ID=6334EQPT3 Facility's ID=ENG-3
** Description=Gas Lift Engine Construction date=30-JUN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E3 POINT 631655.369 3575557.473 0
SO SRCPARAM 6334E3 .0138598 8.53 716.48 19.02 .51
** NMED source ID=6334EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=30-JUN-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E6 VOLUME 631647.772 3575555.381 0
SO SRCPARAM 6334E6 .00126 7.32 .47 .93
** NMED source ID=6334EQPT7 Facility's ID=HTR-2
** Description=Heater Treater Construction date=30-JUN-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E7 VOLUME 631643.531 3575548.481 0
SO SRCPARAM 6334E7 .00126 4.88 .47 .93
**********END OF 6334: Tweety Bird 17 Fed Com CTB
INFO*********************************
************************************************************
** 13.19km away. Facility ID=38665 Name=Irvin Wall State Com No131H
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.254524, -103.393834, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.06tons/year
*****************Facility sources: ****************************
** NMED source ID=38665AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=29-OCT-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38665A1 VOLUME 651298.967 3569780.343 0
SO SRCPARAM 38665A1 .0050399 1 .47 .93
** NMED source ID=38665EQPT1 Facility's ID=HT-1
** Description=0.5 MMBTU/h heater treater Construction date=29-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38665E1 VOLUME 651306.503 3569787.364 0
SO SRCPARAM 38665E1 .0005796 6.1 .47 .93
** NMED source ID=38665EQPT4 Facility's ID=ENG-1
** Description=690 hp Caterpillar G3508B Construction date=29-OCT-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 23hr/day
SO LOCATION 38665E4 POINT 651299.717 3569790.916 0
SO SRCPARAM 38665E4 .0075599 6.71 800.37 11.41 .06
** NMED source ID=38665EQPT12 Facility's ID=GEN-1
** Description=Generator Construction date=27-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38665E12 POINT 651292.12 3569788.824 0
SO SRCPARAM 38665E12 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38665EQPT13 Facility's ID=GEN-2
** Description=Generator Construction date=27-OCT-22
** SCC=20200253
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38665E13 POINT 651287.879 3569781.924 0
SO SRCPARAM 38665E13 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38665EQPT14 Facility's ID=GEN-3
** Description=Generator Construction date=27-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38665E14 POINT 651289.531 3569773.77 0
SO SRCPARAM 38665E14 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38665EQPT15 Facility's ID=GEN-4
** Description=Generator Construction date=27-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38665E15 POINT 651296.48 3569768.808 0
SO SRCPARAM 38665E15 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38665EQPT29 Facility's ID=HT-2
** Description=1.0 MMBTU/h heater treater Construction date=19-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38665E29 VOLUME 651305.163 3569769.95 0
SO SRCPARAM 38665E29 .00126 6.1 .47 .93
**********END OF 38665: Irvin Wall State Com No131H
INFO**********************************
************************************************************
** 13.27km away. Facility ID=40454 Name=Sneaky Snake 24 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.285737, -103.633298, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.16tons/year
*****************Facility sources: ****************************
** NMED source ID=40454AREA1 Facility's ID=ROAD-1
** Description=HAUL ROADS Construction date=03-JUN-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454A1 VOLUME 628695.641 3572928.23 0
SO SRCPARAM 40454A1 .0277196 10 20 9.3
** NMED source ID=40454EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=03-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E2 VOLUME 628703.177 3572935.251 0
SO SRCPARAM 40454E2 .00252 9.14 .47 .93
** NMED source ID=40454EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=03-JUN-22
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E3 VOLUME 628696.391 3572938.803 0
SO SRCPARAM 40454E3 .00252 9.14 .47 .93
** NMED source ID=40454EQPT12 Facility's ID=ENG 1
** Description=ENG 1 Generator Engine Construction date=22-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E12 POINT 628688.794 3572936.711 0
SO SRCPARAM 40454E12 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=40454EQPT13 Facility's ID=ENG 2
** Description=ENG 2 Generator Engine Construction date=22-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E13 POINT 628684.553 3572929.811 0
SO SRCPARAM 40454E13 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=40454EQPT14 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=22-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E14 POINT 628686.205 3572921.657 0
SO SRCPARAM 40454E14 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=40454EQPT15 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=22-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E15 POINT 628693.154 3572916.695 0
SO SRCPARAM 40454E15 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=40454EQPT16 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=22-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E16 POINT 628701.837 3572917.837 0
SO SRCPARAM 40454E16 .0100798 3.17 1005.37 77.48 .15
**********END OF 40454: Sneaky Snake 24 CTB 1
INFO************************************
************************************************************
** 13.29km away. Facility ID=38177 Name=EOG - Valor Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=7598 NSR
** lat,long,datum=32.125, -103.622222, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=6tons/year
*****************Facility sources: ******************************
** NMED source ID=38177EQPT1 Facility's ID=Eng 1
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** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38177E1 POINT 629967.115 3555122.271 0
SO SRCPARAM 38177E1 .0214197 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT12 Facility's ID=Eng 2
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8728hr/yr, 24hr/day
SO LOCATION 38177E12 POINT 629974.651 3555129.292 0
SO SRCPARAM 38177E12 .0214197 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT13 Facility's ID=Eng 3
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8656hr/yr, 24hr/day
SO LOCATION 38177E13 POINT 629967.865 3555132.844 0
SO SRCPARAM 38177E13 .0214197 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT14 Facility's ID=Eng 4
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8752hr/yr, 24hr/day
SO LOCATION 38177E14 POINT 629960.268 3555130.752 0
SO SRCPARAM 38177E14 .0214197 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT15 Facility's ID=Eng 5
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8772hr/yr, 24hr/day
SO LOCATION 38177E15 POINT 629956.027 3555123.852 0
SO SRCPARAM 38177E15 .0214197 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT16 Facility's ID=Eng 6
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8748hr/yr, 24hr/day
SO LOCATION 38177E16 POINT 629957.679 3555115.698 0
SO SRCPARAM 38177E16 .0214197 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT17 Facility's ID=Eng 7
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8762hr/yr, 24hr/day
SO LOCATION 38177E17 POINT 629964.628 3555110.736 0
SO SRCPARAM 38177E17 .0214197 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT18 Facility's ID=Eng 8
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8746hr/yr, 24hr/day
SO LOCATION 38177E18 POINT 629973.311 3555111.878 0
SO SRCPARAM 38177E18 .0214197 9.14 705.37 46.63 .46
**********END OF 38177: EOG - Valor Compressor Station
INFO**********************************
************************************************************
** 13.29km away. Facility ID=37873 Name=Audacious BTL Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=7299 GCP6
** lat,long,datum=32.115994, -103.60995, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.3tons/year
*****************Facility sources: ****************************
** NMED source ID=37873AREA1 Facility's ID=HAUL
** Description=NOI - haul roads Construction date=29-MAR-17
** SCC=30588801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8778hr/yr, 24hr/day
SO LOCATION 37873A1 VOLUME 631137.725 3554138.749 0
SO SRCPARAM 37873A1 .0949269 10 10 9.3
**********END OF 37873: Audacious BTL Fed CTB
INFO**********************************
************************************************************
** 13.34km away. Facility ID=39976 Name=Devon - Red Bull 30 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.278562, -103.407252, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=39976AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=20-MAY-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5136hr/yr, 24hr/day
SO LOCATION 39976A1 VOLUME 649995.305 3572426.495 0
SO SRCPARAM 39976A1 .0277196 10 20 9.3
**********END OF 39976: Devon - Red Bull 30 CTB 2
INFO**********************************
************************************************************
** 13.34km away. Facility ID=40492 Name=Serpentine 2 Facility 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.329618, -103.539652, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.56tons/year
*****************Facility sources: ****************************
** NMED source ID=40492AREA1 Facility's ID=ROAD-1
** Description=HAUL ROADS Construction date=16-NOV-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492A1 VOLUME 637448.342 3577909.264 0
SO SRCPARAM 40492A1 .0277196 10 20 9.3
** NMED source ID=40492EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=07-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E2 VOLUME 637455.878 3577916.285 0
SO SRCPARAM 40492E2 .00252 9.14 .47 .93
** NMED source ID=40492EQPT13 Facility's ID=MT 1
** Description=MT 1 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E13 POINT 637449.092 3577919.837 0
SO SRCPARAM 40492E13 .0037799 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT14 Facility's ID=MT 2
** Description=MT 2 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E14 POINT 637441.495 3577917.745 0
SO SRCPARAM 40492E14 .0037799 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT15 Facility's ID=MT 3
** Description=MT 3 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E15 POINT 637437.254 3577910.845 0
SO SRCPARAM 40492E15 .0037799 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT16 Facility's ID=MT 4
** Description=MT 4 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E16 POINT 637438.906 3577902.691 0
SO SRCPARAM 40492E16 .0037799 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT17 Facility's ID=MT 5
** Description=MT 5 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E17 POINT 637445.855 3577897.729 0
SO SRCPARAM 40492E17 .0037799 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT18 Facility's ID=MT 6
** Description=MT 6 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40492E18 POINT 637454.538 3577898.871 0
SO SRCPARAM 40492E18 .0037799 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT19 Facility's ID=MT 7
** Description=MT 7 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E19 POINT 637460.248 3577905.799 0
SO SRCPARAM 40492E19 .00252 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT20 Facility's ID=MT 8
** Description=MT 8 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E20 POINT 637459.683 3577914.98 0
SO SRCPARAM 40492E20 .00252 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT21 Facility's ID=MT 9
** Description=MT 9 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E21 POINT 637452.848 3577921.458 0
SO SRCPARAM 40492E21 .00252 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT22 Facility's ID=MT 10
** Description=MT 10 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E22 POINT 637443.212 3577921.535 0
SO SRCPARAM 40492E22 .00252 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT23 Facility's ID=MT 11
** Description=MT 11 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E23 POINT 637435.951 3577914.869 0
SO SRCPARAM 40492E23 .00252 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT24 Facility's ID=MT 12
** Description=MT 12 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E24 POINT 637435.171 3577904.823 0
SO SRCPARAM 40492E24 .00252 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT25 Facility's ID=MT 13
** Description=MT 13 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E25 POINT 637441.589 3577896.772 0
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SO SRCPARAM 40492E25 .00252 4.02 529.26 95.71 .15
**********END OF 40492: Serpentine 2 Facility 1
INFO**********************************
************************************************************
** 13.35km away. Facility ID=40108 Name=Ruthless 11 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1488, -103.6454, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.46tons/year
*****************Facility sources: ****************************
** NMED source ID=40108EQPT4 Facility's ID=HT-1
** Description=Heater Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E4 VOLUME 627747.344 3557732.971 0
SO SRCPARAM 40108E4 .00126 5.18 .47 .93
** NMED source ID=40108EQPT12 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E12 POINT 627754.88 3557739.992 0
SO SRCPARAM 40108E12 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT13 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E13 POINT 627748.094 3557743.544 0
SO SRCPARAM 40108E13 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT14 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E14 POINT 627740.497 3557741.452 0
SO SRCPARAM 40108E14 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT15 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E15 POINT 627736.256 3557734.552 0
SO SRCPARAM 40108E15 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT16 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40108E16 POINT 627737.908 3557726.398 0
SO SRCPARAM 40108E16 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT17 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E17 POINT 627744.857 3557721.436 0
SO SRCPARAM 40108E17 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT18 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E18 POINT 627753.54 3557722.578 0
SO SRCPARAM 40108E18 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT19 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E19 POINT 627759.25 3557729.506 0
SO SRCPARAM 40108E19 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT20 Facility's ID=ENG-9
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E20 POINT 627758.685 3557738.687 0
SO SRCPARAM 40108E20 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT21 Facility's ID=ENG-10
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E21 POINT 627751.85 3557745.165 0
SO SRCPARAM 40108E21 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT22 Facility's ID=ENG-11
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E22 POINT 627742.214 3557745.242 0
SO SRCPARAM 40108E22 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT23 Facility's ID=ENG-12
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E23 POINT 627734.953 3557738.576 0
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SO SRCPARAM 40108E23 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT24 Facility's ID=ENG-13
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E24 POINT 627734.173 3557728.53 0
SO SRCPARAM 40108E24 .00252 4.57 867.04 17.56 .15
** NMED source ID=40108EQPT25 Facility's ID=ENG-14
** Description=Compressor Engine Construction date=03-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40108E25 POINT 627740.591 3557720.479 0
SO SRCPARAM 40108E25 .00252 4.57 867.04 17.56 .15
**********END OF 40108: Ruthless 11 Fed Com CTB
INFO**********************************
************************************************************
** 13.35km away. Facility ID=39736 Name=Pitchblende 29 Fed Com No 1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0952, -103.485, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.2tons/year
*****************Facility sources: ******************************
** NMED source ID=39736AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=04-NOV-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7017hr/yr, 22hr/day
SO LOCATION 39736A1 VOLUME 642959.102 3551992.422 0
SO SRCPARAM 39736A1 .0050399 10 10 9.3
**********END OF 39736: Pitchblende 29 Fed Com No 1H
INFO**********************************
************************************************************
** 13.36km away. Facility ID=39992 Name=EOG - Lakewood 28 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.098, -103.4748, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.2tons/year
*****************Facility sources: ******************************
** NMED source ID=39992AREA1 Facility's ID=HAUL
** Description=Unpaved Road Construction date=04-JUN-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39992A1 VOLUME 643917.307 3552316.406 0
SO SRCPARAM 39992A1 .0050399 1 .47 .93
** NMED source ID=39992EQPT4 Facility's ID=HTR-1
** Description=Heater Treater Construction date=04-JUN-21
** SCC=31000129
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39992E4 VOLUME 643924.843 3552323.427 0
SO SRCPARAM 39992E4 .00126 4.88 .47 .93
**********END OF 39992: EOG - Lakewood 28 Fed Com CTB
INFO**********************************
************************************************************
** 13.4km away. Facility ID=40898 Name=Da Bears 36 State Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.09025, -103.52937, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.09tons/year
*****************Facility sources: ******************************
** NMED source ID=40898EQPT4 Facility's ID=HTR-1
** Description=Heater Treater Construction date=27-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40898E4 VOLUME 638779.316 3551385.685 0
SO SRCPARAM 40898E4 .00126 4.57 .47 .93
** NMED source ID=40898EQPT5 Facility's ID=HTR-2
** Description=Heater Treater Construction date=27-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40898E5 VOLUME 638786.852 3551392.706 0
SO SRCPARAM 40898E5 .00126 4.57 .47 .93
**********END OF 40898: Da Bears 36 State Com CTB
INFO**********************************
************************************************************
** 13.46km away. Facility ID=39863 Name=North Bell Lake Pad 5
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.331495, -103.521759, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.35tons/year
*****************Facility sources: ******************************
** NMED source ID=39863EQPT4 Facility's ID=HT-1
** Description=2.0 MM Btu/hr Heater Treater Construction date=19-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39863E4 VOLUME 639129.725 3578140.46 0
SO SRCPARAM 39863E4 .00252 4.57 .47 .93
** NMED source ID=39863EQPT5 Facility's ID=HT-2
** Description=2.0 MM Btu/hr Heater Treater Construction date=19-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39863E5 VOLUME 639137.261 3578147.481 0
SO SRCPARAM 39863E5 .00252 4.57 .47 .93
```

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** NMED source ID=39863EQPT6 Facility's ID=HT-3
** Description=2.0 MM Btu/hr Heater Treater Construction date=19-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39863E6 VOLUME 639130.475 3578151.033 0
SO SRCPARAM 39863E6 .00252 4.57 .47 .93
** NMED source ID=39863EQPT7 Facility's ID=HT-4
** Description=2.0 MM Btu/hr Heater Treater Construction date=19-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39863E7 VOLUME 639122.878 3578148.941 0
SO SRCPARAM 39863E7 .00252 4.57 .47 .93
** NMED source ID=39863EQPT8 Facility's ID=HT-5
** Description=2.0 MM Btu/hr Heater Treater Construction date=19-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39863E8 VOLUME 639118.637 3578142.041 0
SO SRCPARAM 39863E8 .00252 4.57 .47 .93
** NMED source ID=39863RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=15-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39863R3 VOLUME 639120.289 3578133.887 0
SO SRCPARAM 39863R3 .0062999 10 10 9.3
**********END OF 39863: North Bell Lake Pad 5
INFO**********************************
************************************************************
** 13.47km away. Facility ID=39891 Name=North Bell Lake Pad 3
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.331574, -103.52471, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.14tons/year
*****************Facility sources: ****************************
** NMED source ID=39891EQPT3 Facility's ID=HT-1
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39891E3 POINT 638851.834 3578145.388 0
SO SRCPARAM 39891E3 .00252 4.57 644.26 10.44 .09
** NMED source ID=39891EQPT6 Facility's ID=HT-2
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39891E6 POINT 638859.37 3578152.409 0
```

```
SO SRCPARAM 39891E6 .00252 4.57 644.26 10.44 .09
** NMED source ID=39891RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=15-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39891R3 VOLUME 638852.584 3578155.961 0
SO SRCPARAM 39891R3 .0062999 10 10 9.3
**********END OF 39891: North Bell Lake Pad 3
INFO**********************************
************************************************************
** 13.52km away. Facility ID=37773 Name=Skull Cap Fed Com 22H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7234 NOI
** lat,long,datum=32.174113, -103.386988, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=37773AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=01-NOV-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37773A1 VOLUME 652077.752 3560875.224 0
SO SRCPARAM 37773A1 .0002898 1 .47 .93
** NMED source ID=37773EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37773E4 VOLUME 652085.288 3560882.245 0
SO SRCPARAM 37773E4 .00126 4.57 .47 .93
**********END OF 37773: Skull Cap Fed Com 22H Battery
INFO**********************************
************************************************************
** 13.55km away. Facility ID=39889 Name=MarkWest - Bell Lake North Compressor
Station
** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.3322, -103.5274, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=6.84tons/year
*****************Facility sources: ****************************
** NMED source ID=39889EQPT1 Facility's ID=ENG-4
** Description=Caterpillar 3516 ULB 1380 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7950hr/yr, 24hr/day
SO LOCATION 39889E1 POINT 638597.677 3578211.305 0
SO SRCPARAM 39889E1 .0151198 7.01 760.93 56.45 .3
** NMED source ID=39889EQPT2 Facility's ID=ENG-2
** Description=Caterpillar 3516 ULB 1380 hp engine Construction date=05-MAR-21
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5169hr/yr, 24hr/day
SO LOCATION 39889E2 POINT 638605.213 3578218.326 0
SO SRCPARAM 39889E2 .0151198 7.01 760.93 56.45 .3
** NMED source ID=39889EQPT3 Facility's ID=ENG-3
** Description=Caterpillar 3516 ULB 1380 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7084hr/yr, 24hr/day
SO LOCATION 39889E3 POINT 638598.427 3578221.878 0
SO SRCPARAM 39889E3 .0151198 7.01 760.93 56.45 .3
** NMED source ID=39889EQPT4 Facility's ID=ENG-7
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6213hr/yr, 24hr/day
SO LOCATION 39889E4 POINT 638590.83 3578219.786 0
SO SRCPARAM 39889E4 .0188997 7.01 822.59 62.45 .3
** NMED source ID=39889EQPT5 Facility's ID=ENG-1
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6126hr/yr, 24hr/day
SO LOCATION 39889E5 POINT 638586.589 3578212.886 0
SO SRCPARAM 39889E5 .0188997 7.01 822.59 62.45 .3
** NMED source ID=39889EQPT6 Facility's ID=ENG-6
** Description=Caterpillar 3516 ULB 1380 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7379hr/yr, 24hr/day
SO LOCATION 39889E6 POINT 638588.241 3578204.732 0
SO SRCPARAM 39889E6 .0151198 7.01 760.93 56.45 .3
** NMED source ID=39889EQPT7 Facility's ID=ENG-5
** Description=Caterpillar 3516 ULB 1380 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=44hr/yr, 24hr/day
SO LOCATION 39889E7 POINT 638595.19 3578199.77 0
SO SRCPARAM 39889E7 .0151198 7.01 760.93 56.45 .3
** NMED source ID=39889EQPT11 Facility's ID=Reboil-1
** Description=TEG Reboiler 1.5 MMBtu/h Construction date=05-MAR-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39889E11 POINT 638603.873 3578200.912 0
SO SRCPARAM 39889E11 .00126 4.88 588.71 2.35 .4
** NMED source ID=39889EQPT16 Facility's ID=ECD-1
** Description=30 MMscf/d Combustor (Process) Construction date=07-OCT-21
** SCC=31000160
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** Potential operating rate=500hr/yr, 0hr/day
** Actual operating rate=500hr/yr, 24hr/day
SO LOCATION 39889E16 POINT 638609.583 3578207.84 0
SO SRCPARAM 39889E16 .0113398 7.62 1273 20 1.22
SO EMISFACT 39889E16 HROFDY 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
** NMED source ID=39889EQPT17 Facility's ID=ECD-2
** Description=9.2 MMscf/d Combustor (Process) Construction date=05-MAR-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39889E17 POINT 638609.018 3578217.021 0
SO SRCPARAM 39889E17 .00252 3.66 1273 20 1.22
** NMED source ID=39889EQPT19 Facility's ID=ENG-8
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6494hr/yr, 24hr/day
SO LOCATION 39889E19 POINT 638602.183 3578223.499 0
SO SRCPARAM 39889E19 .0188997 7.01 822.59 62.45 .3
** NMED source ID=39889EQPT20 Facility's ID=ENG-9
** Description=Caterpillar 3608A  2500 hp engine Construction date=01-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6428hr/yr, 24hr/day
SO LOCATION 39889E20 POINT 638592.547 3578223.576 0
SO SRCPARAM 39889E20 .0302395 7.01 694.26 59.19 .41
** NMED source ID=39889EQPT21 Facility's ID=ENG-10
** Description=Caterpillar 3608A  2500 hp engine Construction date=01-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6118hr/yr, 24hr/day
SO LOCATION 39889E21 POINT 638585.286 3578216.91 0
SO SRCPARAM 39889E21 .0302395 7.01 694.26 59.19 .41
**********END OF 39889: MarkWest - Bell Lake North Compressor Station
INFO**********************************
************************************************************
** 13.56km away. Facility ID=38624 Name=Devon - North Thistle 3 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.329667, -103.554003, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.8tons/year
*****************Facility sources: ******************************
** NMED source ID=38624AREA1 Facility's ID=ROAD
** Description=Haul Road Construction date=04-SEP-18
** SCC=30501090
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38624A1 VOLUME 636097.425 3577896.37 0
SO SRCPARAM 38624A1 .3275948 10 30 9.3
**********END OF 38624: Devon - North Thistle 3 CTB 1
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INFO**********************************
************************************************************
** 13.57km away. Facility ID=39872 Name=Deerstalker Federal 5 CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9094 NOI
** lat,long,datum=32.164183, -103.390714, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.78tons/year
*****************Facility sources: ******************************
** NMED source ID=39872AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=17-JAN-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39872A1 VOLUME 651742.885 3559769.077 0
SO SRCPARAM 39872A1 .0005796 1 .47 .93
** NMED source ID=39872EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=17-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39872E1 POINT 651750.421 3559776.098 0
SO SRCPARAM 39872E1 .00252 3.66 883.71 17.92 .15
** NMED source ID=39872EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=17-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39872E2 POINT 651743.635 3559779.65 0
SO SRCPARAM 39872E2 .00252 3.66 883.71 17.92 .15
** NMED source ID=39872EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=17-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39872E3 POINT 651736.038 3559777.558 0
SO SRCPARAM 39872E3 .0075599 4.88 1000.37 14.84 .28
** NMED source ID=39872EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=17-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39872E4 POINT 651731.797 3559770.658 0
SO SRCPARAM 39872E4 .0075599 4.88 1000.37 14.84 .28
** NMED source ID=39872EQPT6 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=17-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39872E6 VOLUME 651733.449 3559762.504 0
SO SRCPARAM 39872E6 .00126 6.71 .47 .93
```

**********END OF 39872: Deerstalker Federal 5 CTB
INFO**********
**********
** 13.58km away. Facility ID=39883 Name=North Bell Lake Pad 9
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.33194, -103.509074, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.42tons/year
**********Facility sources: **********
** NMED source ID=39883EQPT4 Facility's ID=HT-1
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39883E4 VOLUME 640323.046 3578206.344 0
SO SRCPARAM 39883E4 .00252 4.57 .47 .93
** NMED source ID=39883EQPT5 Facility's ID=HT-2
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39883E5 VOLUME 640330.582 3578213.365 0
SO SRCPARAM 39883E5 .00252 4.57 .47 .93
** NMED source ID=39883EQPT6 Facility's ID=HT-3
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39883E6 VOLUME 640323.796 3578216.917 0
SO SRCPARAM 39883E6 .00252 4.57 .47 .93
** NMED source ID=39883EQPT7 Facility's ID=HT-4
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39883E7 VOLUME 640316.199 3578214.825 0
SO SRCPARAM 39883E7 .00252 4.57 .47 .93
** NMED source ID=39883EQPT8 Facility's ID=HT-5
** Description=Heater Treater Construction date=14-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39883E8 VOLUME 640311.958 3578207.925 0
SO SRCPARAM 39883E8 .00252 4.57 .47 .93
** NMED source ID=39883EQPT9 Facility's ID=HT-6
** Description=Heater Treater Construction date=14-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39883E9 VOLUME 640313.61 3578199.771 0

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SO SRCPARAM 39883E9 .00252 4.57 .47 .93
** NMED source ID=39883RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=14-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39883R3 VOLUME 640320.559 3578194.809 0
SO SRCPARAM 39883R3 .0062999 10 10 9.3
**********END OF 39883: North Bell Lake Pad 9
INFO**********************************
************************************************************
** 13.66km away. Facility ID=37543 Name=North Bell Lake Pad 11
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.332028, -103.503306, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.35tons/year
*****************Facility sources: ******************************
** NMED source ID=37543EQPT9 Facility's ID=HT-1
** Description=Heater Treater Construction date=01-MAR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37543E9 VOLUME 640865.836 3578223.672 0
SO SRCPARAM 37543E9 .00252 4.57 .47 .93
** NMED source ID=37543EQPT28 Facility's ID=HT-2
** Description=Heater Treater Construction date=13-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37543E28 VOLUME 640873.372 3578230.693 0
SO SRCPARAM 37543E28 .00252 4.57 .47 .93
** NMED source ID=37543EQPT29 Facility's ID=HT-3
** Description=Heater Treater Construction date=13-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37543E29 VOLUME 640866.586 3578234.245 0
SO SRCPARAM 37543E29 .00252 4.57 .47 .93
** NMED source ID=37543EQPT30 Facility's ID=HT-4
** Description=Heater Treater Construction date=13-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37543E30 VOLUME 640858.989 3578232.153 0
SO SRCPARAM 37543E30 .00252 4.57 .47 .93
** NMED source ID=37543EQPT33 Facility's ID=HT-5
** Description=Heater Treater Construction date=13-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 37543E33 VOLUME 640854.748 3578225.253 0
SO SRCPARAM 37543E33 .00252 4.57 .47 .93
** NMED source ID=37543RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=13-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37543R3 VOLUME 640856.4 3578217.099 0
SO SRCPARAM 37543R3 .0062999 10 10 9.3
**********END OF 37543: North Bell Lake Pad 11
INFO**********************************
************************************************************
** 13.68km away. Facility ID=39942 Name=Bell Lake Unit North Pad 1
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.333215, -103.533244, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.28tons/year
*****************Facility sources: ******************************
** NMED source ID=39942EQPT19 Facility's ID=HT-1
** Description=2 MMBtu/h Heater Treater Construction date=08-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39942E19 VOLUME 638046.061 3578316.283 0
SO SRCPARAM 39942E19 .00252 4.57 .47 .93
** NMED source ID=39942EQPT20 Facility's ID=HT-2
** Description=2 MMBtu/h Heater Treater Construction date=08-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39942E20 VOLUME 638053.597 3578323.304 0
SO SRCPARAM 39942E20 .00252 4.57 .47 .93
** NMED source ID=39942EQPT21 Facility's ID=HT-3
** Description=2 MMBtu/h Heater Treater Construction date=08-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39942E21 VOLUME 638046.811 3578326.856 0
SO SRCPARAM 39942E21 .00252 4.57 .47 .93
** NMED source ID=39942EQPT22 Facility's ID=HT-4
** Description=1 MMBtu/h Heater Treater Construction date=08-APR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39942E22 VOLUME 638039.214 3578324.764 0
SO SRCPARAM 39942E22 .00252 4.57 .47 .93
** NMED source ID=39942RPNT3 Facility's ID=HR-1
** Description=Haul Roads Construction date=27-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39942R3 VOLUME 638034.973 3578317.864 0
SO SRCPARAM 39942R3 .0062999 10 10 9.3
**********END OF 39942: Bell Lake Unit North Pad 1
INFO**********************************
************************************************************
** 13.73km away. Facility ID=37771 Name=EOG - Bear Gas Lift
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.087272, -103.52975, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2tons/year
*****************Facility sources: ****************************
** NMED source ID=37771EQPT1 Facility's ID=Eng-01
** Description=Caterpillar G3516B LE Construction date=01-MAR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37771E1 POINT 638747.955 3551055.054 0
SO SRCPARAM 37771E1 .0125998 8.23 806.48 59.04 .41
** NMED source ID=37771EQPT2 Facility's ID=Eng-02
** Description=Caterpillar G3516B LE Construction date=01-MAR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37771E2 POINT 638755.491 3551062.075 0
SO SRCPARAM 37771E2 .0125998 8.23 806.48 59.04 .41
** NMED source ID=37771EQPT3 Facility's ID=Eng-03
** Description=Caterpillar G3516B LE Construction date=01-MAR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37771E3 POINT 638748.705 3551065.627 0
SO SRCPARAM 37771E3 .0125998 8.23 806.48 59.04 .41
** NMED source ID=37771EQPT4 Facility's ID=Eng-04
** Description=Caterpillar G3516B LE Construction date=01-MAR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37771E4 POINT 638741.108 3551063.535 0
SO SRCPARAM 37771E4 .0125998 8.23 806.48 59.04 .41
**********END OF 37771: EOG - Bear Gas Lift
INFO**********************************
************************************************************
** 13.77km away. Facility ID=39776 Name=Rodney Robinson South TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.313256, -103.605521, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.24tons/year
*****************Facility sources: ****************************
** NMED source ID=39776AREA1 Facility's ID=HR-1
```

```
** Description=haul road Construction date=02-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776A1 VOLUME 631271.803 3576012.713 0
SO SRCPARAM 39776A1 .00126 1 .47 .93
** NMED source ID=39776EQPT2 Facility's ID=ENG 2
** Description=188 HP, Cummins G855 Construction date=02-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776E2 POINT 631279.339 3576019.734 0
SO SRCPARAM 39776E2 .00252 2.73 919.82 51.42 .1
** NMED source ID=39776EQPT3 Facility's ID=ENG-3
** Description=92 HP, GM Vortec 5.7L VRU Engine Construction date=02-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6744hr/yr, 24hr/day
SO LOCATION 39776E3 POINT 631272.553 3576023.286 0
SO SRCPARAM 39776E3 .00126 2.67 922.04 38.62 .1
** NMED source ID=39776EQPT6 Facility's ID=HT-1
** Description=Heater Treater 1.0 MMBtu/hr Construction date=02-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776E6 POINT 631264.956 3576021.194 0
SO SRCPARAM 39776E6 .00126 6.1 644.26 2.09 .2
** NMED source ID=39776EQPT7 Facility's ID=HT-2
** Description=Heater Treater 1.0 MMBtu/hr Construction date=02-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776E7 POINT 631260.715 3576014.294 0
SO SRCPARAM 39776E7 .00126 6.1 644.26 2.09 .2
** NMED source ID=39776EQPT8 Facility's ID=HT-3
** Description=Heater Treater 1.0 MMBtu/hr Construction date=02-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776E8 POINT 631262.367 3576006.14 0
SO SRCPARAM 39776E8 .00126 6.1 644.26 2.09 .2
** NMED source ID=39776EQPT9 Facility's ID=HT-4
** Description=Heater Treater 1.0 MMBtu/hr Construction date=02-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776E9 POINT 631269.316 3576001.178 0
SO SRCPARAM 39776E9 .00126 6.1 644.26 2.09 .2
** NMED source ID=39776EQPT26 Facility's ID=ENG-4
** Description=Caterpillar 3516B  1380 HP Construction date=30-SEP-21
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6864hr/yr, 24hr/day
SO LOCATION 39776E26 POINT 631277.999 3576002.32 0
SO SRCPARAM 39776E26 .0125998 6.1 804.82 50.99 .3
** NMED source ID=39776EQPT27 Facility's ID=ENG 5
** Description=188 HP, Cummins G855 Construction date=30-SEP-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7344hr/yr, 24hr/day
SO LOCATION 39776E27 POINT 631283.709 3576009.248 0
SO SRCPARAM 39776E27 .00252 2.73 919.82 51.42 .1
** NMED source ID=39776EQPT28 Facility's ID=HT-5
** Description=Heater Treater 1.0 MMBtu/hr Construction date=02-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776E28 POINT 631283.144 3576018.429 0
SO SRCPARAM 39776E28 .00126 6.1 644.26 2.09 .2
** NMED source ID=39776EQPT29 Facility's ID=ENG-6
** Description=Caterpillar 3516B  1380 HP Construction date=19-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39776E29 POINT 631276.309 3576024.907 0
SO SRCPARAM 39776E29 .0125998 6.1 804.82 50.99 .3
** NMED source ID=39776EQPT31 Facility's ID=ENG-7
** Description=92 HP, GM 5.7L Construction date=20-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39776E31 POINT 631266.673 3576024.984 0
SO SRCPARAM 39776E31 .00126 2.67 922.04 38.62 .1
**********END OF 39776: Rodney Robinson South TB
INFO**********************************
************************************************************
** 13.82km away. Facility ID=39864 Name=North Bell Lake Pad 7
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.334484, -103.515422, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.35tons/year
*****************Facility sources: ******************************
** NMED source ID=39864EQPT4 Facility's ID=HT-1
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39864E4 VOLUME 639721.617 3578480.083 0
SO SRCPARAM 39864E4 .00252 4.57 .47 .93
** NMED source ID=39864EQPT5 Facility's ID=HT-2
```

```
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39864E5 VOLUME 639729.153 3578487.104 0
SO SRCPARAM 39864E5 .00252 4.57 .47 .93
** NMED source ID=39864EQPT6 Facility's ID=HT-3
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39864E6 VOLUME 639722.367 3578490.656 0
SO SRCPARAM 39864E6 .00252 4.57 .47 .93
** NMED source ID=39864EQPT7 Facility's ID=HT-4
** Description=Heater Treater Construction date=25-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39864E7 VOLUME 639714.77 3578488.564 0
SO SRCPARAM 39864E7 .00252 4.57 .47 .93
** NMED source ID=39864EQPT10 Facility's ID=HT-5
** Description=Heater Treater Construction date=27-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39864E10 VOLUME 639710.529 3578481.664 0
SO SRCPARAM 39864E10 .00252 4.57 .47 .93
** NMED source ID=39864RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=27-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39864R3 VOLUME 639712.181 3578473.51 0
SO SRCPARAM 39864R3 .0062999 10 10 9.3
**********END OF 39864: North Bell Lake Pad 7
INFO**********************************
************************************************************
** 13.86km away. Facility ID=38049 Name=Seawolf Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.086153, -103.529725, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.81tons/year
*****************Facility sources: ****************************
** NMED source ID=38049EQPT1 Facility's ID=17-0723
** Description=Caterpillar G3606 Construction date=29-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7011hr/yr, 19hr/day
SO LOCATION 38049E1 POINT 638752.005 3550931.034 0
SO SRCPARAM 38049E1 .0163797 7.01 707.04 34.02 .46
```

```
** NMED source ID=38049EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516 Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E2 POINT 638759.541 3550938.055 0
SO SRCPARAM 38049E2 .0125998 6.4 717.04 52.18 .3
** NMED source ID=38049EQPT3 Facility's ID=18-238
** Description=Compressor Engine Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8090hr/yr, 22hr/day
SO LOCATION 38049E3 POINT 638752.755 3550941.607 0
SO SRCPARAM 38049E3 .0163797 7.01 707.04 34.02 .46
** NMED source ID=38049EQPT4 Facility's ID=18-337
** Description=Compressor Engine Construction date=29-JUL-18
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E4 POINT 638745.158 3550939.515 0
SO SRCPARAM 38049E4 .0214197 7.01 714.26 46.02 .46
** NMED source ID=38049EQPT6 Facility's ID=Rbl-1
** Description=Dehydrator Reboiler 1 Construction date=29-JUL-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8646hr/yr, 24hr/day
SO LOCATION 38049E6 POINT 638740.917 3550932.615 0
SO SRCPARAM 38049E6 .0005796 3.05 588.71 1.31 .3
** NMED source ID=38049EQPT10 Facility's ID=18-1160
** Description=Compressor Engine Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6996hr/yr, 19hr/day
SO LOCATION 38049E10 POINT 638742.569 3550924.461 0
SO SRCPARAM 38049E10 .0125998 6.4 717.04 52.18 .3
** NMED source ID=38049EQPT11 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E11 POINT 638749.518 3550919.499 0
SO SRCPARAM 38049E11 .0125998 6.4 717.04 52.18 .3
** NMED source ID=38049EQPT12 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E12 POINT 638758.201 3550920.641 0
SO SRCPARAM 38049E12 .0163797 7.01 707.04 34.02 .46
** NMED source ID=38049EQPT13 Facility's ID=Rbl-2
```

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** Description=Dehydrator Reboiler 2 Construction date=29-JUL-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1574hr/yr, 4hr/day
SO LOCATION 38049E13 POINT 638763.911 3550927.569 0
SO SRCPARAM 38049E13 .0005796 3.05 588.71 1.31 .3
**********END OF 38049: Seawolf Compressor Station
INFO**********************************
************************************************************
** 13.86km away. Facility ID=39450 Name=North Bell Lake Facility Pad 1
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.33192, -103.49109, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.7tons/year
*****************Facility sources: ******************************
** NMED source ID=39450EQPT37 Facility's ID=HS-1
** Description=2.0 MMBtu/h Heated Separator Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E37 VOLUME 642015.864 3578227.833 0
SO SRCPARAM 39450E37 .00252 4.57 .47 .93
** NMED source ID=39450EQPT38 Facility's ID=HS-2
** Description=2.0 MMBtu/h Heated Seperator Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E38 VOLUME 642023.4 3578234.854 0
SO SRCPARAM 39450E38 .00252 4.57 .47 .93
** NMED source ID=39450EQPT45 Facility's ID=HT-1
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E45 VOLUME 642016.614 3578238.406 0
SO SRCPARAM 39450E45 .00252 4.57 .47 .93
** NMED source ID=39450EQPT46 Facility's ID=HT-2
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E46 VOLUME 642009.017 3578236.314 0
SO SRCPARAM 39450E46 .00252 4.57 .47 .93
** NMED source ID=39450EQPT47 Facility's ID=HT-3
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E47 VOLUME 642004.776 3578229.414 0
SO SRCPARAM 39450E47 .00252 4.57 .47 .93
```

```
** NMED source ID=39450EQPT48 Facility's ID=HT-4
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E48 VOLUME 642006.428 3578221.26 0
SO SRCPARAM 39450E48 .00252 4.57 .47 .93
** NMED source ID=39450EQPT49 Facility's ID=HT-5
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E49 VOLUME 642013.377 3578216.298 0
SO SRCPARAM 39450E49 .00252 4.57 .47 .93
** NMED source ID=39450EQPT50 Facility's ID=HT-6
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E50 VOLUME 642022.06 3578217.44 0
SO SRCPARAM 39450E50 .00252 4.57 .47 .93
** NMED source ID=39450EQPT51 Facility's ID=HT-7
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E51 VOLUME 642027.77 3578224.368 0
SO SRCPARAM 39450E51 .00252 4.57 .47 .93
** NMED source ID=39450EQPT52 Facility's ID=HT-8
** Description=2.0 MMBtu/h Heater Treater Construction date=23-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450E52 VOLUME 642027.205 3578233.549 0
SO SRCPARAM 39450E52 .00252 4.57 .47 .93
** NMED source ID=39450RPNT3 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=13-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39450R3 VOLUME 642020.37 3578240.027 0
SO SRCPARAM 39450R3 .0062999 10 10 9.3
**********END OF 39450: North Bell Lake Facility Pad 1
INFO**********************************
************************************************************
** 13.88km away. Facility ID=38868 Name=Coonskin Fee 28D CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8213 NOI
** lat,long,datum=32.195608, -103.377639, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.57tons/year
```

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*****************Facility sources: ****************************
** NMED source ID=38868AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=11-AUG-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38868A1 VOLUME 652923.344 3563271.525 0
SO SRCPARAM 38868A1 .00126 1 .47 .93
** NMED source ID=38868EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38868E4 VOLUME 652930.88 3563278.546 0
SO SRCPARAM 38868E4 .00126 6.71 .47 .93
** NMED source ID=38868EQPT7 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38868E7 POINT 652924.094 3563282.098 0
SO SRCPARAM 38868E7 .00252 3.66 867.04 16.4 .15
** NMED source ID=38868EQPT8 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38868E8 POINT 652916.497 3563280.006 0
SO SRCPARAM 38868E8 .00252 3.66 867.04 16.4 .15
** NMED source ID=38868EQPT9 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38868E9 POINT 652912.256 3563273.106 0
SO SRCPARAM 38868E9 .00252 3.66 867.04 16.4 .15
** NMED source ID=38868EQPT10 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38868E10 POINT 652913.908 3563264.952 0
SO SRCPARAM 38868E10 .0075599 6.1 778.71 7.62 .3
**********END OF 38868: Coonskin Fee 28D CTB
INFO**********************************
************************************************************
** 13.9km away. Facility ID=38788 Name=Kaiser-Francis - North Bell Lake Pad 0
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.335314, -103.530631, NAD83
```

```
** Total Particulate Matter (2.5 microns or less) emissions=.15tons/year
*****************Facility sources: ****************************
** NMED source ID=38788EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1, 1MMBtu/hr Construction date=29-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38788E1 POINT 638288.818 3578552.358 0
SO SRCPARAM 38788E1 .00126 4.57 369.82 7.99 .09
** NMED source ID=38788EQPT2 Facility's ID=HT-2
** Description=Heater Treater 2, 1MMBtu/hr Construction date=29-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38788E2 POINT 638296.354 3578559.379 0
SO SRCPARAM 38788E2 .00126 4.57 369.82 7.99 .09
** NMED source ID=38788EQPT3 Facility's ID=HT-3
** Description=Heater Treater 3, 1MMBtu/hr Construction date=29-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38788E3 POINT 638289.568 3578562.931 0
SO SRCPARAM 38788E3 .00126 4.57 369.82 7.99 .09
** NMED source ID=38788EQPT4 Facility's ID=HT-4
** Description=Heater Treater 4, 1MMBtu/hr Construction date=29-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38788E4 POINT 638281.971 3578560.839 0
SO SRCPARAM 38788E4 .00126 4.57 369.82 7.99 .09
** NMED source ID=38788EQPT5 Facility's ID=HT-5
** Description=Heater Treater 5, 1MMBtu/hr Construction date=29-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38788E5 POINT 638277.73 3578553.939 0
SO SRCPARAM 38788E5 .00126 4.57 369.82 7.99 .09
**********END OF 38788: Kaiser-Francis - North Bell Lake Pad 0
INFO**********************************
************************************************************
** 13.9km away. Facility ID=40474 Name=North Bell Lake Pad 6
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.33512, -103.51409, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40474EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=15-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40474E3 VOLUME 639846.013 3578552.332 0
SO SRCPARAM 40474E3 .00126 4.57 .47 .93
** NMED source ID=40474EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=15-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40474E4 VOLUME 639853.549 3578559.353 0
SO SRCPARAM 40474E4 .00126 4.57 .47 .93
**********END OF 40474: North Bell Lake Pad 6
INFO**********************************
************************************************************
** 13.91km away. Facility ID=40951 Name=Colorado West Pad
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.22568, -103.37727, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40951EQPT3 Facility's ID=HT1
** Description=Heater Construction date=15-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40951E3 POINT 652907.785 3566605.997 0
SO SRCPARAM 40951E3 .00126 4.57 672.04 .05 .3
**********END OF 40951: Colorado West Pad INFO**************************************
************************************************************
** 13.94km away. Facility ID=40449 Name=North Bell Lake Pad 2
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3358, -103.52491, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40449EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=27-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40449E3 VOLUME 638826.556 3578613.641 0
SO SRCPARAM 40449E3 .00126 4.57 .47 .93
** NMED source ID=40449EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=27-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40449E4 VOLUME 638834.092 3578620.662 0
SO SRCPARAM 40449E4 .00126 4.57 .47 .93
**********END OF 40449: North Bell Lake Pad 2
INFO**********************************
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************************************************************
** 13.96km away. Facility ID=40473 Name=North Bell Lake Pad 4
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.33591, -103.51897, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40473EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=27-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40473E3 POINT 639385.478 3578633.552 0
SO SRCPARAM 40473E3 .00126 4.57 369.82 7.99 .09
** NMED source ID=40473EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=27-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40473E4 POINT 639393.014 3578640.573 0
SO SRCPARAM 40473E4 .00126 4.57 369.82 7.99 .09
**********END OF 40473: North Bell Lake Pad 4
INFO**********************************
************************************************************
** 13.99km away. Facility ID=40477 Name=North Bell Lake Pad 8
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.33548, -103.50786, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.69tons/year
*****************Facility sources: ****************************
** NMED source ID=40477EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=15-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40477E3 VOLUME 640431.849 3578600.396 0
SO SRCPARAM 40477E3 .00126 4.57 .47 .93
** NMED source ID=40477EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=15-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40477E4 VOLUME 640439.385 3578607.417 0
SO SRCPARAM 40477E4 .00126 4.57 .47 .93
** NMED source ID=40477EQPT5 Facility's ID=HT-3
** Description=Heater Treater 3 Construction date=15-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40477E5 VOLUME 640432.599 3578610.969 0
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SO SRCPARAM 40477E5 .00126 4.57 .47 .93
** NMED source ID=40477EQPT6 Facility's ID=HT-4
** Description=Heater Treater 4 Construction date=15-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40477E6 VOLUME 640425.002 3578608.877 0
SO SRCPARAM 40477E6 .00126 4.57 .47 .93
** NMED source ID=40477EQPT19 Facility's ID=ENG-1
** Description=Caterpillar G3606 A4 Construction date=10-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40477E19 POINT 640420.761 3578601.977 0
SO SRCPARAM 40477E19 .0163797 8.29 707.04 34.23 .46
**********END OF 40477: North Bell Lake Pad 8
INFO**********************************
************************************************************
** 14km away. Facility ID=41037 Name=Cascade 29 CTB
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.09843, -103.591204, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.68tons/year
*****************Facility sources: ******************************
** NMED source ID=41037ACT 1 Facility's ID=HR
** Description=Haul Road Construction date=22-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037@1 VOLUME 632931.835 3552214.592 0
SO SRCPARAM 41037@1 .0113398 10 10 9.3
** NMED source ID=41037EQPT1 Facility's ID=Flare 1
** Description=Flare Construction date=22-MAY-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037E1 POINT 632939.371 3552221.613 0
SO SRCPARAM 41037E1 .0037799 9.14 1273 20 2.632
** NMED source ID=41037EQPT2 Facility's ID=HTR-1
** Description=2.0 MMBtu/hr Heater Treater Construction date=22-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037E2 VOLUME 632932.585 3552225.165 0
SO SRCPARAM 41037E2 .00126 4.57 .47 .93
** NMED source ID=41037EQPT3 Facility's ID=HTR-2
** Description=2.0 MMBtu/hr Heater Treater Construction date=22-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 41037E3 VOLUME 632924.988 3552223.073 0
SO SRCPARAM 41037E3 .00126 4.57 .47 .93
** NMED source ID=41037EQPT4 Facility's ID=HTR-3
** Description=2.0 MMBtu/hr Heater Treater Construction date=22-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037E4 VOLUME 632920.747 3552216.173 0
SO SRCPARAM 41037E4 .00126 4.57 .47 .93
** NMED source ID=41037EQPT12 Facility's ID=Flare 1 SSM
** Description=Flare Construction date=22-MAY-23
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037E12 POINT 632922.399 3552208.019 0
SO SRCPARAM 41037E12 .0094876 9.14 1273 20 4.652
**********END OF 41037: Cascade 29 CTB INFO************************************
************************************************************
** 14.03km away. Facility ID=40618 Name=Perseus Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.24839, -103.66606, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=6.85tons/year
*****************Facility sources: ******************************
** NMED source ID=40618EQPT3 Facility's ID=ENG-1
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E3 POINT 625661.83 3568749.089 0
SO SRCPARAM 40618E3 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT4 Facility's ID=ENG-2
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E4 POINT 625669.366 3568756.11 0
SO SRCPARAM 40618E4 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT5 Facility's ID=ENG-3
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E5 POINT 625662.58 3568759.662 0
SO SRCPARAM 40618E5 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT6 Facility's ID=ENG-4
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40618E6 POINT 625654.983 3568757.57 0
SO SRCPARAM 40618E6 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT7 Facility's ID=ENG-5
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E7 POINT 625650.742 3568750.67 0
SO SRCPARAM 40618E7 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT8 Facility's ID=ENG-6
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E8 POINT 625652.394 3568742.516 0
SO SRCPARAM 40618E8 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT9 Facility's ID=ENG-7
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E9 POINT 625659.343 3568737.554 0
SO SRCPARAM 40618E9 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT10 Facility's ID=ENG-8
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E10 POINT 625668.026 3568738.696 0
SO SRCPARAM 40618E10 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT11 Facility's ID=ENG-9
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E11 POINT 625673.736 3568745.624 0
SO SRCPARAM 40618E11 .0214197 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT14 Facility's ID=Heater-1
** Description=0.75 MMbtu/h Seperator Heater Construction date=20-SEP-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E14 VOLUME 625673.171 3568754.805 0
SO SRCPARAM 40618E14 .00126 3.96 .47 .93
** NMED source ID=40618EQPT16 Facility's ID=Reboiler-1
** Description=2 MMbtu/hr Dehydrator Reboiler Construction date=20-SEP-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E16 POINT 625666.336 3568761.283 0
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SO SRCPARAM 40618E16 .00252 3.96 588.71 5.33 .3
**********END OF 40618: Perseus Compressor Station
INFO**********************************
************************************************************
** 14.08km away. Facility ID=39677 Name=Rojo 7811 27 Fed Com 18H 19H Battery
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=8939 NOI
** lat,long,datum=32.0895, -103.5671, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=39677EQPT1 Facility's ID=HT-01
** Description=Heater Treater Construction date=01-JAN-20
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39677E1 VOLUME 635219.614 3551254.598 0
SO SRCPARAM 39677E1 .00126 7.32 .47 .93
** NMED source ID=39677EQPT9 Facility's ID=HT-02
** Description=Heater Treater Construction date=01-AUG-19
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39677E9 VOLUME 635227.15 3551261.619 0
SO SRCPARAM 39677E9 .00126 7.32 .47 .93
**********END OF 39677: Rojo 7811 27 Fed Com 18H 19H Battery
INFO**********************************
************************************************************
** 14.1km away. Facility ID=36953 Name=Charro Compressor Station
** Company ID=13452 Name=Delaware G & P, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.20334, -103.67332, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=3.41tons/year
*****************Facility sources: ****************************
** NMED source ID=36953EQPT5 Facility's ID=H-1
** Description=Glycol Dehydrator Reboiler Construction date=22-FEB-17
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36953E5 POINT 625039.537 3563746.401 0
SO SRCPARAM 36953E5 .0005796 4.57 699.82 4.3 .15
** NMED source ID=36953EQPT8 Facility's ID=H-2A
** Description=Glycol Dehydrator Reboiler Construction date=22-FEB-17
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36953E8 POINT 625047.073 3563753.422 0
SO SRCPARAM 36953E8 .0005796 4.57 699.82 4.3 .15
** NMED source ID=36953EQPT14 Facility's ID=E-3
** Description=Caterpillar 3606 Construction date=27-SEP-17
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6933hr/yr, 24hr/day
SO LOCATION 36953E14 POINT 625040.287 3563756.974 0
SO SRCPARAM 36953E14 .0163797 9.14 737.04 77.66 .3
** NMED source ID=36953EQPT15 Facility's ID=E-4
** Description=Caterpillar 3606 Construction date=27-SEP-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6607hr/yr, 24hr/day
SO LOCATION 36953E15 POINT 625032.69 3563754.882 0
SO SRCPARAM 36953E15 .0163797 9.14 737.04 77.66 .3
** NMED source ID=36953EQPT17 Facility's ID=E-2A
** Description=Caterpillar 3608 A4 Construction date=25-APR-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7826hr/yr, 24hr/day
SO LOCATION 36953E17 POINT 625028.449 3563747.982 0
SO SRCPARAM 36953E17 .0214197 7.62 743.15 103.21 .3
** NMED source ID=36953EQPT19 Facility's ID=E-5a
** Description=Caterpillar 3608 Construction date=12-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36953E19 POINT 625030.101 3563739.828 0
SO SRCPARAM 36953E19 .0201597 9.14 743.15 103.21 .3
** NMED source ID=36953EQPT20 Facility's ID=E-6
** Description=Waukesha VHP - P9394GSI S5 2500 BHP 1200 RPM Construction
date=29-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36953E20 POINT 625037.05 3563734.866 0
SO SRCPARAM 36953E20 .0214197 9.14 710.37 103.39 .3
** NMED source ID=36953EQPT21 Facility's ID=ECD-1
** Description=N/A Construction date=29-JUN-23
** SCC=31000209
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36953E21 POINT 625045.733 3563736.008 0
SO SRCPARAM 36953E21 .0017262 3.96 922.04 .45 1.52
**********END OF 36953: Charro Compressor Station
INFO************************************
************************************************************
** 14.14km away. Facility ID=40519 Name=Red Bull 35 Federal 1H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9670 NOI
** lat,long,datum=32.0849, -103.5457, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40519AREA1 Facility's ID=HR-01
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** Description=Roads or Unpaved Haul Roads Construction date=18-JUL-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40519A1 VOLUME 637246.152 3550771.682 0
SO SRCPARAM 40519A1 .0011466 1 .47 .93
** NMED source ID=40519EQPT2 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=18-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40519E2 VOLUME 637253.688 3550778.703 0
SO SRCPARAM 40519E2 .0005796 6.71 .47 .93
**********END OF 40519: Red Bull 35 Federal 1H Battery
INFO**********************************
************************************************************
** 14.16km away. Facility ID=40475 Name=North Bell Lake Pad 16
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.33514, -103.49328, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40475EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=21-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40475E3 VOLUME 641804.702 3578581.915 0
SO SRCPARAM 40475E3 .00126 4.57 .47 .93
** NMED source ID=40475EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=21-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40475E4 VOLUME 641812.238 3578588.936 0
SO SRCPARAM 40475E4 .00126 4.57 .47 .93
**********END OF 40475: North Bell Lake Pad 16
INFO**********************************
************************************************************
** 14.17km away. Facility ID=40869 Name=Double ABJ Federal 16P CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9836 NOI
** lat,long,datum=32.213801, -103.674306, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40869AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=23-JAN-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40869A1 VOLUME 624932.295 3564904.951 0
SO SRCPARAM 40869A1 .0005796 1 .47 .93
** NMED source ID=40869EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=23-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40869E3 VOLUME 624939.831 3564911.972 0
SO SRCPARAM 40869E3 .00126 6.71 .47 .93
** NMED source ID=40869EQPT4 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=23-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40869E4 VOLUME 624933.045 3564915.524 0
SO SRCPARAM 40869E4 .00126 6.71 .47 .93
**********END OF 40869: Double ABJ Federal 16P CTB
INFO**********************************
************************************************************
** 14.24km away. Facility ID=39642 Name=Rojo 38H 39H Gas LIft Station
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0874, -103.5646, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.22tons/year
*****************Facility sources: ******************************
** NMED source ID=39642EQPT1 Facility's ID=ENG-01
** Description=CAT G3406TA, 325 hp, 4SRB RICE Construction date=20-AUG-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39642E1 POINT 635458.655 3551024.932 0
SO SRCPARAM 39642E1 .0062999 3.66 798.71 35.39 .15
**********END OF 39642: Rojo 38H 39H Gas LIft Station
INFO**********************************
************************************************************
** 14.26km away. Facility ID=38075 Name=Red Hills Unit 17H, 21H, 36H-38H, 75H,
99H-101H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.091194, -103.5787, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.74tons/year
*****************Facility sources: ******************************
** NMED source ID=38075AREA1 Facility's ID=HR
** Description=Haul Road Construction date=03-MAY-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075A1 VOLUME 634122.374 3551427.904 0
SO SRCPARAM 38075A1 .0113398 10 10 9.3
** NMED source ID=38075EQPT17 Facility's ID=H1
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** Description=Heater Treater Construction date=03-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E17 VOLUME 634129.91 3551434.925 0
SO SRCPARAM 38075E17 .00126 4.57 .47 .93
** NMED source ID=38075EQPT18 Facility's ID=H2
** Description=Heater Treater Construction date=03-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E18 VOLUME 634123.124 3551438.477 0
SO SRCPARAM 38075E18 .00126 4.57 .47 .93
** NMED source ID=38075EQPT19 Facility's ID=H3
** Description=Heater Treater Construction date=03-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E19 VOLUME 634115.527 3551436.385 0
SO SRCPARAM 38075E19 .00126 4.57 .47 .93
** NMED source ID=38075EQPT20 Facility's ID=H4
** Description=Heater Treater Construction date=03-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E20 VOLUME 634111.286 3551429.485 0
SO SRCPARAM 38075E20 .00126 4.57 .47 .93
** NMED source ID=38075EQPT27 Facility's ID=ENG1
** Description=Compressor Engine Construction date=28-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E27 POINT 634112.938 3551421.331 0
SO SRCPARAM 38075E27 .00252 3.66 907.59 17.98 .15
** NMED source ID=38075EQPT28 Facility's ID=ENG2
** Description=Compressor Engine Construction date=28-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E28 POINT 634119.887 3551416.369 0
SO SRCPARAM 38075E28 .00252 3.66 907.59 17.98 .15
** NMED source ID=38075EQPT29 Facility's ID=ENG3
** Description=Compressor Engine Construction date=28-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E29 POINT 634128.57 3551417.511 0
SO SRCPARAM 38075E29 .00252 3.66 907.59 17.98 .15
**********END OF 38075: Red Hills Unit 17H, 21H, 36H-38H, 75H, 99H-101H
INFO**********************************
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** 14.27km away. Facility ID=39650 Name=Rojo 18H 19H Gas Lift Station
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0866, -103.5623, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.22tons/year
*****************Facility sources: ****************************
** NMED source ID=39650EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=28-AUG-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39650E1 POINT 635676.908 3550939.136 0
SO SRCPARAM 39650E1 .0062999 3.66 798.71 35.39 .15
**********END OF 39650: Rojo 18H 19H Gas Lift Station
INFO**********************************
************************************************************
** 14.27km away. Facility ID=38954 Name=Biggers Fed West TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.125171, -103.410865, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.39tons/year
*****************Facility sources: ****************************
** NMED source ID=38954AREA1 Facility's ID=HR-1
** Description=Unpaved Road Emissions Construction date=11-MAY-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38954A1 VOLUME 649906.433 3555415.822 0
SO SRCPARAM 38954A1 .0214197 10 20 9.3
** NMED source ID=38954EQPT1 Facility's ID=HT-1
** Description=Heater Treater: 0.5 MMBtu/hr Construction date=11-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38954E1 POINT 649913.969 3555422.843 0
SO SRCPARAM 38954E1 .0005796 6.1 644.26 2.09 .2
** NMED source ID=38954EQPT17 Facility's ID=GEN-1
** Description=4-STROKE RICH-BURN Generator Construction date=31-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38954E17 POINT 649907.183 3555426.395 0
SO SRCPARAM 38954E17 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=38954EQPT18 Facility's ID=GEN-2
** Description=4-STROKE RICH-BURN Generator Construction date=31-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38954E18 POINT 649899.586 3555424.303 0
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SO SRCPARAM 38954E18 .0050399 6.1 1023.15 8.16 .3
**********END OF 38954: Biggers Fed West TB
INFO**********************************
************************************************************
** 14.28km away. Facility ID=40476 Name=North Bell Lake Pad 18
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.33471, -103.48585, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40476EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=27-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40476E3 VOLUME 642504.72 3578544.107 0
SO SRCPARAM 40476E3 .00126 4.57 .47 .93
** NMED source ID=40476EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=27-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40476E4 VOLUME 642512.256 3578551.128 0
SO SRCPARAM 40476E4 .00126 4.57 .47 .93
**********END OF 40476: North Bell Lake Pad 18
INFO**********************************
************************************************************
** 14.29km away. Facility ID=40840 Name=Rio Blanco 4 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9831 NOI
** lat,long,datum=32.333368, -103.479772, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.38tons/year
*****************Facility sources: ****************************
** NMED source ID=40840EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=12-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40840E1 POINT 643078.922 3578403.43 0
SO SRCPARAM 40840E1 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40840EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=12-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40840E2 POINT 643086.458 3578410.451 0
SO SRCPARAM 40840E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40840: Rio Blanco 4 Wellpad 2
INFO**********************************
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** 14.31km away. Facility ID=36290 Name=Resolute BTO Federal Com No 2H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.116212, -103.62697, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.16tons/year
*****************Facility sources: ******************************
** NMED source ID=36290AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=04-NOV-15
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36290A1 VOLUME 629531.609 3554142.328 0
SO SRCPARAM 36290A1 .0050399 1 .47 .93
**********END OF 36290: Resolute BTO Federal Com No 2H
INFO*************************************
************************************************************
** 14.34km away. Facility ID=36657 Name=North Thistle 2 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6784 NOI
** lat,long,datum=32.338503, -103.541186, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.32tons/year
*****************Facility sources: ******************************
** NMED source ID=36657AREA1 Facility's ID=28
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36657A1 VOLUME 637290.531 3578892.322 0
SO SRCPARAM 36657A1 .0277196 10 20 9.3
** NMED source ID=36657EQPT4 Facility's ID=38
** Description=Cat CG137-8 Engine_EQ000074417 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36657E4 POINT 637298.067 3578899.343 0
SO SRCPARAM 36657E4 .0075599 4.39 778.71 13.8 .26
** NMED source ID=36657EQPT11 Facility's ID=33
** Description=Heater_EQ000060300 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36657E11 VOLUME 637291.281 3578902.895 0
SO SRCPARAM 36657E11 .00126 9.14 .47 .93
**********END OF 36657: North Thistle 2 CTB 1
INFO*************************************
************************************************************
** 14.34km away. Facility ID=38108 Name=Cimarex - Red Hills Unit 16H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=7521 NOI
** lat,long,datum=32.091117, -103.580869, NAD83
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** Total Particulate Matter (2.5 microns or less) emissions=2.1tons/year
*****************Facility sources: ****************************
** NMED source ID=38108RPNT1 Facility's ID=FUG
** Description=Fugitives (including haul roads) Construction date=08-NOV-17
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8630hr/yr, 24hr/day
SO LOCATION 38108R1 VOLUME 633917.788 3551416.672 0
SO SRCPARAM 38108R1 .060416 1 .47 .93
**********END OF 38108: Cimarex - Red Hills Unit 16H
INFO*********************************
************************************************************
** 14.35km away. Facility ID=38021 Name=Devon - Rio Blanco 4 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.334722, -103.482944, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.94tons/year
*****************Facility sources: ****************************
** NMED source ID=38021AREA1 Facility's ID=19
** Description=Haul roads Construction date=02-AUG-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38021A1 VOLUME 642778.227 3578549.308 0
SO SRCPARAM 38021A1 .0277196 10 20 9.3
** NMED source ID=38021EQPT1 Facility's ID=25
** Description=Combustion Engine 1 400hp Construction date=02-AUG-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38021E1 POINT 642785.763 3578556.329 0
SO SRCPARAM 38021E1 .0075599 2.99 778.71 15 .26
** NMED source ID=38021EQPT7 Facility's ID=12
** Description=Heater Treater 1.0 MMBtu/hr Construction date=02-AUG-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38021E7 VOLUME 642778.977 3578559.881 0
SO SRCPARAM 38021E7 .00126 9.14 .47 .93
** NMED source ID=38021EQPT8 Facility's ID=13
** Description=Heater Treater 1.0 MMBtu/hr Construction date=02-AUG-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38021E8 VOLUME 642771.38 3578557.789 0
SO SRCPARAM 38021E8 .00126 9.14 .47 .93
** NMED source ID=38021EQPT13 Facility's ID=23
** Description=Low Pressure Compressor Engine 92 hp Construction date=02-AUG-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38021E13 POINT 642767.139 3578550.889 0
SO SRCPARAM 38021E13 .00252 2.99 922.04 67.27 .09
** NMED source ID=38021EQPT14 Facility's ID=24
** Description=Low Pressure Compressor Engine 92 hp Construction date=02-AUG-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38021E14 POINT 642768.791 3578542.735 0
SO SRCPARAM 38021E14 .00252 2.99 922.04 67.27 .09
** NMED source ID=38021EQPT15 Facility's ID=27
** Description=Combustion Engine 2 400hp Construction date=15-MAR-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38021E15 POINT 642775.74 3578537.773 0
SO SRCPARAM 38021E15 .0075599 2.99 778.71 15 .26
**********END OF 38021: Devon - Rio Blanco 4 CTB 1
INFO**********************************
************************************************************
** 14.37km away. Facility ID=40136 Name=Coonskin CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.176318, -103.376818, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.22tons/year
*****************Facility sources: ******************************
** NMED source ID=40136AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=22-SEP-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136A1 VOLUME 653033.022 3561134.106 0
SO SRCPARAM 40136A1 .0365394 10 30 9.3
** NMED source ID=40136EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516J Compressor, 1346 hp Construction date=22-SEP-21
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136E1 POINT 653040.558 3561141.127 0
SO SRCPARAM 40136E1 .0113398 4.57 728.71 110.64 .2
** NMED source ID=40136EQPT2 Facility's ID=HT-1
** Description=2 MMBTU/hr Heater Treater Construction date=22-SEP-21
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136E2 VOLUME 653033.772 3561144.679 0
SO SRCPARAM 40136E2 .00252 4.57 .47 .93
** NMED source ID=40136EQPT11 Facility's ID=GEN-1
** Description=Generator PSI 581hp Construction date=25-MAR-22
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136E11 POINT 653026.175 3561142.587 0
SO SRCPARAM 40136E11 .0125998 4.57 1023.15 43.28 .2
** NMED source ID=40136EQPT12 Facility's ID=GEN-2
** Description=Generator PSI 581hp Construction date=25-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136E12 POINT 653021.934 3561135.687 0
SO SRCPARAM 40136E12 .0125998 4.57 1023.15 43.28 .2
** NMED source ID=40136EQPT13 Facility's ID=GEN-3
** Description=Generator PSI 581hp Construction date=25-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136E13 POINT 653023.586 3561127.533 0
SO SRCPARAM 40136E13 .0125998 4.57 1023.15 43.28 .2
** NMED source ID=40136EQPT14 Facility's ID=GEN-4
** Description=Generator PSI 581hp Construction date=25-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136E14 POINT 653030.535 3561122.571 0
SO SRCPARAM 40136E14 .0125998 4.57 1023.15 43.28 .2
**********END OF 40136: Coonskin CTB INFO************************************
************************************************************
** 14.4km away. Facility ID=39049 Name=Cotton Draw Section 3 Compressor Station
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.153411, -103.660972, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=3.8tons/year
*****************Facility sources: ******************************
** NMED source ID=39049EQPT1 Facility's ID=ENG-1
** Description=2500 hp 4SLB w/oxidation catalyst Construction date=21-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E1 POINT 626272.33 3558225.765 0
SO SRCPARAM 39049E1 .0214197 6.1 712.59 58.83 .3
** NMED source ID=39049EQPT2 Facility's ID=ENG-2
** Description=2500 hp 4SLB w/oxidation catalyst Construction date=21-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E2 POINT 626279.866 3558232.786 0
SO SRCPARAM 39049E2 .0214197 6.1 300.93 58.83 .3
** NMED source ID=39049EQPT3 Facility's ID=ENG-3
** Description=2500 hp 4SLB w/oxidation catalyst Construction date=21-JUL-19
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E3 POINT 626273.08 3558236.338 0
SO SRCPARAM 39049E3 .0214197 6.1 712.59 58.83 .3
** NMED source ID=39049EQPT4 Facility's ID=REB-1
** Description=TEG reboiler Construction date=21-JUL-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E4 POINT 626265.483 3558234.246 0
SO SRCPARAM 39049E4 .00126 5.79 533.15 1.67 .46
** NMED source ID=39049EQPT9 Facility's ID=ENG-4
** Description=2500 hp 4SLB w/oxidation catalyst Construction date=06-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E9 POINT 626261.242 3558227.346 0
SO SRCPARAM 39049E9 .0214197 6.1 712.59 58.83 .3
** NMED source ID=39049EQPT10 Facility's ID=ENG-5
** Description=2500 hp 4SLB w/oxidation catalyst Construction date=06-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E10 POINT 626262.894 3558219.192 0
SO SRCPARAM 39049E10 .0214197 6.1 712.59 58.83 .3
**********END OF 39049: Cotton Draw Section 3 Compressor Station
INFO**********************************
************************************************************
** 14.47km away. Facility ID=38422 Name=Angus Brahman Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7826 NOI
** lat,long,datum=32.22425, -103.371097, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.38tons/year
*****************Facility sources: ****************************
** NMED source ID=38422AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=20-APR-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38422A1 VOLUME 653491.931 3566456.264 0
SO SRCPARAM 38422A1 .00126 1 .47 .93
** NMED source ID=38422EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38422E4 VOLUME 653499.467 3566463.285 0
SO SRCPARAM 38422E4 .00252 4.57 .47 .93
** NMED source ID=38422EQPT6 Facility's ID=ENG-01
** Description=Engine Construction date=01-JAN-20
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 14hr/day
SO LOCATION 38422E6 POINT 653492.681 3566466.837 0
SO SRCPARAM 38422E6 .0075599 4.88 1000.37 14.84 .28
**********END OF 38422: Angus Brahman Battery
INFO**********************************
************************************************************
** 14.49km away. Facility ID=38226 Name=Beowulf 33 CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=7635 NOI
** lat,long,datum=32.256725, -103.379983, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.06tons/year
*****************Facility sources: ****************************
** NMED source ID=38226AREA1 Facility's ID=HAUL
** Description=Haul Road Construction date=31-JAN-18
** SCC=unknown
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3455hr/yr, 23hr/day
SO LOCATION 38226A1 VOLUME 652600.182 3570043.971 0
SO SRCPARAM 38226A1 .0304915 1 .47 .93
**********END OF 38226: Beowulf 33 CTB  INFO**********************************
************************************************************
** 14.53km away. Facility ID=32720 Name=EOG - Brown Bear 36 State No 1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0802, -103.5325, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.18tons/year
*****************Facility sources: ****************************
** NMED source ID=32720AREA1 Facility's ID=HAUL
** Description=Haul Road Emissions Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6229hr/yr, 24hr/day
SO LOCATION 32720A1 VOLUME 638499.08 3550267.518 0
SO SRCPARAM 32720A1 .0050399 1 .47 .93
** NMED source ID=32720EQPT3 Facility's ID=HT-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6229hr/yr, 24hr/day
SO LOCATION 32720E3 VOLUME 638506.616 3550274.539 0
SO SRCPARAM 32720E3 .0005796 5.18 .47 .93
**********END OF 32720: EOG - Brown Bear 36 State No 1H
INFO**********************************
************************************************************
** 14.53km away. Facility ID=40841 Name=Rio Blanco 4 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9832 NOI
** lat,long,datum=32.333919, -103.473457, NAD83
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** Total Particulate Matter (2.5 microns or less) emissions=.38tons/year
*****************Facility sources: ******************************
** NMED source ID=40841EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=12-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40841E1 POINT 643672.459 3578472.972 0
SO SRCPARAM 40841E1 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40841EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=12-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40841E2 POINT 643679.995 3578479.993 0
SO SRCPARAM 40841E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40841: Rio Blanco 4 Wellpad 3
INFO**********************************
************************************************************
** 14.59km away. Facility ID=40110 Name=FME - Colorado Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.225587, -103.370022, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.4tons/year
*****************Facility sources: ******************************
** NMED source ID=40110EQPT2 Facility's ID=HT-1
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E2 POINT 653590.992 3566606.029 0
SO SRCPARAM 40110E2 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT3 Facility's ID=HT-15
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1944hr/yr, 24hr/day
SO LOCATION 40110E3 POINT 653598.528 3566613.05 0
SO SRCPARAM 40110E3 .00126 6.1 810.93 .16 .3
** NMED source ID=40110EQPT9 Facility's ID=HT-2
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E9 POINT 653591.742 3566616.602 0
SO SRCPARAM 40110E9 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT10 Facility's ID=HT-3
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E10 POINT 653584.145 3566614.51 0
SO SRCPARAM 40110E10 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT11 Facility's ID=HT-4
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E11 POINT 653579.904 3566607.61 0
SO SRCPARAM 40110E11 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT12 Facility's ID=HT-5
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E12 POINT 653581.556 3566599.456 0
SO SRCPARAM 40110E12 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT13 Facility's ID=HT-6
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E13 POINT 653588.505 3566594.494 0
SO SRCPARAM 40110E13 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT14 Facility's ID=HT-7
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E14 POINT 653597.188 3566595.636 0
SO SRCPARAM 40110E14 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT15 Facility's ID=HT-8
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E15 POINT 653602.898 3566602.564 0
SO SRCPARAM 40110E15 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT16 Facility's ID=HT-9
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E16 POINT 653602.333 3566611.745 0
SO SRCPARAM 40110E16 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT17 Facility's ID=HT-10
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40110E17 POINT 653595.498 3566618.223 0
SO SRCPARAM 40110E17 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT18 Facility's ID=HT-11
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E18 POINT 653585.862 3566618.3 0
SO SRCPARAM 40110E18 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT19 Facility's ID=HT-12
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E19 POINT 653578.601 3566611.634 0
SO SRCPARAM 40110E19 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT20 Facility's ID=HT-13
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E20 POINT 653577.821 3566601.588 0
SO SRCPARAM 40110E20 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT21 Facility's ID=HT-14
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40110E21 POINT 653584.239 3566593.537 0
SO SRCPARAM 40110E21 .0005796 6.1 810.93 .05 .3
** NMED source ID=40110EQPT22 Facility's ID=HT-16
** Description=Heater Construction date=07-OCT-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1944hr/yr, 24hr/day
SO LOCATION 40110E22 POINT 653594.641 3566591.996 0
SO SRCPARAM 40110E22 .00126 6.1 810.93 .16 .3
**********END OF 40110: FME - Colorado Central Tank Battery
INFO**********************************
************************************************************
** 14.63km away. Facility ID=40205 Name=EOG - Poseidon Local Gas Lift
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2569, -103.6693, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.43tons/year
*****************Facility sources: ****************************
** NMED source ID=40205EQPT1 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.0 MMbtu/hr Construction date=19-OCT-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E1 POINT 625344.892 3569688.719 0
SO SRCPARAM 40205E1 .00126 3.96 588.71 2.65 .3
** NMED source ID=40205EQPT2 Facility's ID=Heater-1
** Description=Separator Heater 1.5 MMbtu/hr Construction date=19-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E2 POINT 625352.428 3569695.74 0
SO SRCPARAM 40205E2 .00126 3.96 588.71 3.96 .3
** NMED source ID=40205EQPT3 Facility's ID=ENG-1
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E3 POINT 625345.642 3569699.292 0
SO SRCPARAM 40205E3 .0151198 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT10 Facility's ID=ENG-2
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E10 POINT 625338.045 3569697.2 0
SO SRCPARAM 40205E10 .0151198 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT11 Facility's ID=ENG-3
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E11 POINT 625333.804 3569690.3 0
SO SRCPARAM 40205E11 .0151198 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT12 Facility's ID=ENG-4
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E12 POINT 625335.456 3569682.146 0
SO SRCPARAM 40205E12 .0151198 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT13 Facility's ID=ENG-5
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E13 POINT 625342.405 3569677.184 0
SO SRCPARAM 40205E13 .0151198 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT14 Facility's ID=ENG-6
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40205E14 POINT 625351.088 3569678.326 0
SO SRCPARAM 40205E14 .0151198 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT15 Facility's ID=ENG-7
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E15 POINT 625356.798 3569685.254 0
SO SRCPARAM 40205E15 .0151198 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT16 Facility's ID=ENG-8
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E16 POINT 625356.233 3569694.435 0
SO SRCPARAM 40205E16 .0151198 6.1 701.48 27.86 .51
**********END OF 40205: EOG - Poseidon Local Gas Lift
INFO**********************************
************************************************************
** 14.66km away. Facility ID=39516 Name=EOG- Valiant 24 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1133, -103.6288, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.32tons/year
*****************Facility sources: ******************************
** NMED source ID=39516EQPT9 Facility's ID=HTR-1
** Description=Heater, 1.5-MMBtu/hr Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39516E9 POINT 629363.061 3553817.309 0
SO SRCPARAM 39516E9 .00252 5.18 588.71 6.83 .3
** NMED source ID=39516EQPT10 Facility's ID=HTR-2
** Description=Heater, 0.75-MMBtu/hr Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8747hr/yr, 24hr/day
SO LOCATION 39516E10 POINT 629370.597 3553824.33 0
SO SRCPARAM 39516E10 .00126 5.18 588.71 3.41 .3
** NMED source ID=39516EQPT11 Facility's ID=Frac HTR-1
** Description=Heater, 0.5-MMBtu/hr Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39516E11 POINT 629363.811 3553827.882 0
SO SRCPARAM 39516E11 .00126 5.18 588.71 2.29 .3
** NMED source ID=39516EQPT12 Facility's ID=Frac ENG-1
** Description=Compressor Engine, CAT, CG137-12, 600-hp Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39516E12 POINT 629356.214 3553825.79 0
SO SRCPARAM 39516E12 .0113398 6.1 847.04 37.95 .2
** NMED source ID=39516EQPT13 Facility's ID=Frac ENG-2
** Description=Compressor Engine, CAT, CG137-12, 600-hp Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39516E13 POINT 629351.973 3553818.89 0
SO SRCPARAM 39516E13 .0113398 6.1 847.04 37.95 .2
** NMED source ID=39516EQPT14 Facility's ID=Frac ENG-3
** Description=Compressor Engine, CAT, CG137-12, 600-hp Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39516E14 POINT 629353.625 3553810.736 0
SO SRCPARAM 39516E14 .0113398 6.1 847.04 37.95 .2
**********END OF 39516: EOG- Valiant 24 Fed Com CTB
INFO************************************
************************************************************
** 14.66km away. Facility ID=5778 Name=Columbus Federal 34 L CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9997 NOI
** lat,long,datum=32.08389, -103.566524, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=5778AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=01-AUG-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5778A1 VOLUME 635282.242 3550633.4 0
SO SRCPARAM 5778A1 .0005796 1 .47 .93
** NMED source ID=5778EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5778E3 VOLUME 635289.778 3550640.421 0
SO SRCPARAM 5778E3 .00126 4.57 .47 .93
**********END OF 5778: Columbus Federal 34 L CTB
INFO************************************
************************************************************
** 14.69km away. Facility ID=39296 Name=Red Bull 29 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.27132, -103.385367, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.21tons/year
*****************Facility sources: ******************************
** NMED source ID=39296AREA1 Facility's ID=ROAD-1
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** Description=Haul Roads Construction date=30-DEC-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39296A1 VOLUME 652068.621 3571654.419 0
SO SRCPARAM 39296A1 .0277196 10 20 9.3
** NMED source ID=39296EQPT7 Facility's ID=HT-1
** Description=3.0 MMBtu/h Heater Treater Construction date=30-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39296E7 VOLUME 652076.157 3571661.44 0
SO SRCPARAM 39296E7 .0037799 9.14 .47 .93
**********END OF 39296: Red Bull 29 CTB 2 INFO**********************************
************************************************************
** 14.71km away. Facility ID=39871 Name=Vandelay Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.186723, -103.370283, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.8tons/year
*****************Facility sources: ****************************
** NMED source ID=39871EQPT1 Facility's ID=1
** Description=Compressor Engine, Caterpillar 3516 Construction date=01-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8495hr/yr, 23hr/day
SO LOCATION 39871E1 POINT 653631.731 3562296.975 0
SO SRCPARAM 39871E1 .01294 7.01 725.93 29.93 .41
** NMED source ID=39871EQPT2 Facility's ID=2
** Description=Compressor Engine, Caterpillar 3516 Construction date=01-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8244hr/yr, 23hr/day
SO LOCATION 39871E2 POINT 653639.267 3562303.996 0
SO SRCPARAM 39871E2 .01294 7.01 725.93 29.93 .41
** NMED source ID=39871EQPT3 Facility's ID=3
** Description=Compressor Engine, Caterpillar 3516 Construction date=01-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8237hr/yr, 23hr/day
SO LOCATION 39871E3 POINT 653632.481 3562307.548 0
SO SRCPARAM 39871E3 .01294 7.01 725.93 29.93 .41
** NMED source ID=39871EQPT4 Facility's ID=4
** Description=Compressor Engine, Caterpillar 3516 Construction date=01-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8210hr/yr, 22hr/day
SO LOCATION 39871E4 POINT 653624.884 3562305.456 0
SO SRCPARAM 39871E4 .01294 7.01 725.93 29.93 .41
**********END OF 39871: Vandelay Compressor Station
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INFO**********************************
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** 14.71km away. Facility ID=40524 Name=Rio Blanco 4 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.336127, -103.475317, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.24tons/year
*****************Facility sources: ****************************
** NMED source ID=40524AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=08-AUG-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40524A1 VOLUME 643493.9 3578715.268 0
SO SRCPARAM 40524A1 .0277196 10 20 9.3
** NMED source ID=40524EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=08-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40524E2 VOLUME 643501.436 3578722.289 0
SO SRCPARAM 40524E2 .0037799 9.14 .47 .93
**********END OF 40524: Rio Blanco 4 CTB 2 INFO************************************
************************************************************
** 14.73km away. Facility ID=7206 Name=Jayhawk 6 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10056 NOI
** lat,long,datum=32.078459, -103.514724, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.74tons/year
*****************Facility sources: ****************************
** NMED source ID=7206EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=09-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7206E1 POINT 640179.557 3550097.477 0
SO SRCPARAM 7206E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=7206EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=09-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7206E2 POINT 640187.093 3550104.498 0
SO SRCPARAM 7206E2 .0075599 4.39 1000.37 17.38 .26
** NMED source ID=7206EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=09-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7206E3 POINT 640180.307 3550108.05 0
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SO SRCPARAM 7206E3 .0075599 4.39 1000.37 17.38 .26
**********END OF 7206: Jayhawk 6 Wellpad 1 INFO**********************************
************************************************************
** 14.75km away. Facility ID=36131 Name=EOG - Jafar Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.078333, -103.533889, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=36131EQPT7 Facility's ID=HTR-1
** Description=0.75 MMBtu/hr Heater Treater Construction date=01-DEC-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36131E7 VOLUME 638370.79 3550058.76 0
SO SRCPARAM 36131E7 .00126 5.18 .47 .93
** NMED source ID=36131EQPT8 Facility's ID=REB-1
** Description=1.0MMBtu/hr TEG Reboiler Construction date=01-DEC-15
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36131E8 POINT 638378.326 3550065.781 0
SO SRCPARAM 36131E8 .00126 5.18 588.71 4.51 .3
**********END OF 36131: EOG - Jafar Compressor Station
INFO**********************************
************************************************************
** 14.78km away. Facility ID=7227 Name=Jayhawk 6 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10057 NOI
** lat,long,datum=32.078143, -103.511755, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.41tons/year
*****************Facility sources: ******************************
** NMED source ID=7227EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=09-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7227E1 POINT 640460.281 3550066.308 0
SO SRCPARAM 7227E1 .0088199 3.51 1000.37 71.17 .13
** NMED source ID=7227EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=09-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7227E2 POINT 640467.817 3550073.329 0
SO SRCPARAM 7227E2 .0037799 3.6 853.15 19.96 .17
**********END OF 7227: Jayhawk 6 Wellpad 2 INFO**********************************
************************************************************
** 14.8km away. Facility ID=40731 Name=Cotton Draw Section 10 Compressor Station
** Company ID=164 Name=Chevron USA Inc - Midland
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** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.144036, -103.659931, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.05tons/year
*****************Facility sources: ****************************
** NMED source ID=40731EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E2 POINT 626383.443 3557187.69 0
SO SRCPARAM 40731E2 .0214197 6.1 712.59 102.11 .3
** NMED source ID=40731EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E3 POINT 626390.979 3557194.711 0
SO SRCPARAM 40731E3 .0214197 6.1 712.59 102.11 .3
** NMED source ID=40731EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E4 POINT 626384.193 3557198.263 0
SO SRCPARAM 40731E4 .0214197 6.1 712.59 102.11 .3
** NMED source ID=40731EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E5 POINT 626376.596 3557196.171 0
SO SRCPARAM 40731E5 .0214197 6.1 712.59 102.11 .3
** NMED source ID=40731EQPT8 Facility's ID=REB-1
** Description=Dehydrator Reboiler Construction date=25-OCT-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E8 POINT 626372.355 3557189.271 0
SO SRCPARAM 40731E8 .00126 5.79 533.15 .07 .46
**********END OF 40731: Cotton Draw Section 10 Compressor Station
INFO**********************************
************************************************************
** 14.88km away. Facility ID=40744 Name=PLU Outrider Tank Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19, -103.68, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.32tons/year
*****************Facility sources: ****************************
** NMED source ID=40744EQPT4 Facility's ID=HPF
** Description=HIGH PRESSURE FLARE Construction date=01-NOV-22
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** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E4 POINT 624428.055 3562259.795 0
SO SRCPARAM 40744E4 .0002898 30.48 1273 20 20.806
** NMED source ID=40744EQPT5 Facility's ID=HTR1
** Description=HEATER TREATER Construction date=01-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E5 POINT 624435.591 3562266.816 0
SO SRCPARAM 40744E5 .0050399 6.1 810.93 11.73 .3
** NMED source ID=40744EQPT6 Facility's ID=HTR2
** Description=HEATER TREATER Construction date=01-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E6 POINT 624428.805 3562270.368 0
SO SRCPARAM 40744E6 .0050399 6.1 810.93 11.73 .3
** NMED source ID=40744EQPT7 Facility's ID=HTR3
** Description=HEATER TREATER Construction date=01-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E7 POINT 624421.208 3562268.276 0
SO SRCPARAM 40744E7 .0050399 6.1 810.93 11.73 .3
** NMED source ID=40744EQPT8 Facility's ID=LPF
** Description=LOW PRESSURE FLARE Construction date=01-NOV-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E8 POINT 624416.967 3562261.376 0
SO SRCPARAM 40744E8 .00252 12.19 1273 20 2.632
** NMED source ID=40744EQPT14 Facility's ID=RB1
** Description=REBOILER Construction date=01-NOV-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E14 POINT 624418.619 3562253.222 0
SO SRCPARAM 40744E14 .0005796 4.57 810.93 4.69 .15
** NMED source ID=40744EQPT19 Facility's ID=HPF SSM
** Description=HIGH PRESSURE FLARE Construction date=01-NOV-22
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E19 POINT 624425.568 3562248.26 0
SO SRCPARAM 40744E19 .0163923 30.48 1273 20 4.652
** NMED source ID=40744EQPT23 Facility's ID=LPF SSM
** Description=LOW PRESSURE FLARE Construction date=01-NOV-22
** SCC=31000160
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** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E23 POINT 624434.251 3562249.402 0
SO SRCPARAM 40744E23 .0051785 12.19 1273 20 3.604
**********END OF 40744: PLU Outrider Tank Battery
INFO**********************************
************************************************************
** 14.88km away. Facility ID=37996 Name=Seawolf 1-12 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.076889, -103.52675, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.36tons/year
*****************Facility sources: ******************************
** NMED source ID=37996AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=11-AUG-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37996A1 VOLUME 639046.817 3549907.86 0
SO SRCPARAM 37996A1 .0277196 10 20 9.3
** NMED source ID=37996EQPT1 Facility's ID=HT-1
** Description=1.0 MMBtu/hr Heater Treater 1 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E1 VOLUME 639054.353 3549914.881 0
SO SRCPARAM 37996E1 .00126 9.14 .47 .93
** NMED source ID=37996EQPT2 Facility's ID=HT-2
** Description=1.0 MMBtu/hr Heater Treater 2 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E2 VOLUME 639047.567 3549918.433 0
SO SRCPARAM 37996E2 .00126 9.14 .47 .93
** NMED source ID=37996EQPT3 Facility's ID=HT-3
** Description=1.0 MMBtu/hr Heater Treater 3 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E3 VOLUME 639039.97 3549916.341 0
SO SRCPARAM 37996E3 .00126 9.14 .47 .93
** NMED source ID=37996EQPT4 Facility's ID=HT-4
** Description=1.0 MMBtu/hr Heater Treater 4 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E4 VOLUME 639035.729 3549909.441 0
SO SRCPARAM 37996E4 .00126 9.14 .47 .93
** NMED source ID=37996EQPT5 Facility's ID=HT-5
** Description=1.0 MMBtu/hr Heater Treater 5 Construction date=25-OCT-18
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E5 VOLUME 639037.381 3549901.287 0
SO SRCPARAM 37996E5 .00126 9.14 .47 .93
** NMED source ID=37996EQPT6 Facility's ID=HT-6
** Description=1.0 MMBtu/hr Heater Treater 6 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E6 VOLUME 639044.33 3549896.325 0
SO SRCPARAM 37996E6 .00126 9.14 .47 .93
**********END OF 37996: Seawolf 1-12 CTB 1 INFO**********************************
************************************************************
** 14.95km away. Facility ID=38909 Name=Newman Cosmo CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.176439, -103.370396, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.67tons/year
*****************Facility sources: ******************************
** NMED source ID=38909AREA1 Facility's ID=HR-1
** Description=Haul Roads Construction date=18-SEP-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38909A1 VOLUME 653638.353 3561156.676 0
SO SRCPARAM 38909A1 .0050399 1 .47 .93
** NMED source ID=38909EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 (1MMBtu/h) Construction date=17-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5832hr/yr, 24hr/day
SO LOCATION 38909E1 VOLUME 653645.889 3561163.697 0
SO SRCPARAM 38909E1 .00126 3.66 .47 .93
** NMED source ID=38909EQPT2 Facility's ID=HT 2
** Description=Heater Treater 2 Construction date=17-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5832hr/yr, 24hr/day
SO LOCATION 38909E2 VOLUME 653639.103 3561167.249 0
SO SRCPARAM 38909E2 .00126 3.66 .47 .93
** NMED source ID=38909EQPT3 Facility's ID=GEN-1
** Description=Generator 1 (399 hp) Construction date=17-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38909E3 POINT 653631.506 3561165.157 0
SO SRCPARAM 38909E3 .0163797 3.05 830.37 121.16 .1
**********END OF 38909: Newman Cosmo CTB INFO**********************************
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** 14.99km away. Facility ID=39163 Name=Devon - Jayhawk 6 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.076295, -103.511917, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.38tons/year
*****************Facility sources: ****************************
** NMED source ID=39163AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=04-OCT-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8400hr/yr, 24hr/day
SO LOCATION 39163A1 VOLUME 640447.816 3549861.227 0
SO SRCPARAM 39163A1 .0277196 10 20 9.3
** NMED source ID=39163EQPT3 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater Construction date=04-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 39163E3 VOLUME 640455.352 3549868.248 0
SO SRCPARAM 39163E3 .0037799 9.14 .47 .93
** NMED source ID=39163EQPT9 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater Treater Construction date=04-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 39163E9 VOLUME 640448.566 3549871.8 0
SO SRCPARAM 39163E9 .0037799 9.14 .47 .93
** NMED source ID=39163EQPT14 Facility's ID=GEN-1
** Description=Generator 1 Construction date=30-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39163E14 POINT 640440.969 3549869.708 0
SO SRCPARAM 39163E14 .0100798 3.51 1005.37 215.22 .09
** NMED source ID=39163EQPT15 Facility's ID=GEN-2
** Description=Generator 2 Construction date=30-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39163E15 POINT 640436.728 3549862.808 0
SO SRCPARAM 39163E15 .0075599 3.51 1005.37 136.18 .09
** NMED source ID=39163EQPT16 Facility's ID=LPC-3
** Description=Low Pressure Compressor Engine (LPC) Construction date=30-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 39163E16 POINT 640438.38 3549854.654 0
SO SRCPARAM 39163E16 .0037799 2.99 919.82 51.42 .1
** NMED source ID=39163EQPT17 Facility's ID=LPC-4
** Description=Low Pressure Compressor Engine (LPC) Construction date=30-OCT-19
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 39163E17 POINT 640445.329 3549849.692 0
SO SRCPARAM 39163E17 .0037799 2.99 919.82 51.42 .1
**********END OF 39163: Devon - Jayhawk 6 CTB 2
INFO**********************************
************************************************************
** 15km away. Facility ID=39381 Name=Red Hills 32-5 Fed Com 127H, 130H-131H,
155H-157H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.09157, -103.59848, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.77tons/year
*****************Facility sources: ******************************
** NMED source ID=39381AREA1 Facility's ID=HR
** Description=Haul Road Construction date=20-NOV-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39381A1 VOLUME 632255.108 3551445.152 0
SO SRCPARAM 39381A1 .0113398 10 10 9.3
** NMED source ID=39381EQPT1 Facility's ID=HTR-1
** Description=2 MMBtu/h Heater Treater Construction date=27-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=177hr/yr, 1hr/day
SO LOCATION 39381E1 VOLUME 632262.644 3551452.173 0
SO SRCPARAM 39381E1 .00126 4.57 .47 .93
** NMED source ID=39381EQPT2 Facility's ID=HTR-2
** Description=2 MMBtu/h Heater Treater Construction date=27-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=177hr/yr, 1hr/day
SO LOCATION 39381E2 VOLUME 632255.858 3551455.725 0
SO SRCPARAM 39381E2 .00126 4.57 .47 .93
** NMED source ID=39381EQPT3 Facility's ID=Flare 1-Normal
** Description=Process Flare Construction date=27-FEB-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=705hr/yr, 2hr/day
SO LOCATION 39381E3 POINT 632248.261 3551453.633 0
SO SRCPARAM 39381E3 .00252 12.19 1273 20 .61
** NMED source ID=39381EQPT4 Facility's ID=Flare 2 - Normal
** Description=High Pressure Flare Pilot Construction date=27-FEB-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=705hr/yr, 2hr/day
SO LOCATION 39381E4 POINT 632244.02 3551446.733 0
SO SRCPARAM 39381E4 .0002898 15.24 1273 20 20.806
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** NMED source ID=39381EQPT14 Facility's ID=Flare 1-SSM
** Description=Process Flare - SSM Construction date=15-DEC-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39381E14 POINT 632245.672 3551438.579 0
SO SRCPARAM 39381E14 .0077615 12.19 1273 20 .61
** NMED source ID=39381EQPT15 Facility's ID=Flare 2 - SSM
** Description=High Pressure Flare - SSM Construction date=15-DEC-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39381E15 POINT 632252.621 3551433.617 0
SO SRCPARAM 39381E15 .0060353 15.24 1273 20 2.632
** NMED source ID=39381RPNT3 Facility's ID=SSM
** Description=Startup, Shutdown, and Maintenance Construction date=27-FEB-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39381R3 VOLUME 632261.304 3551434.759 0
SO SRCPARAM 39381R3 .0005796 1 .47 .93
**********END OF 39381: Red Hills 32-5 Fed Com 127H, 130H-131H, 155H-157H
INFO**********************************
************************************************************
** 15.03km away. Facility ID=39433 Name=Biggers Federal East TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.12338, -103.40212, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.9tons/year
*****************Facility sources: ****************************
** NMED source ID=39433AREA1 Facility's ID=HR-1
** Description=haul road Construction date=20-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39433A1 VOLUME 650734.405 3555229.47 0
SO SRCPARAM 39433A1 .0113398 1 .47 .93
** NMED source ID=39433EQPT1 Facility's ID=ENG 1
** Description=4SLB Compressor Engine CAT 3516J 1380 HP Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39433E1 POINT 650741.941 3555236.491 0
SO SRCPARAM 39433E1 .0002898 6.1 723.15 51.56 .3
** NMED source ID=39433EQPT2 Facility's ID=HT-1
** Description=Heater Treater, 1.0 MMbtu/hr Construction date=20-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39433E2 POINT 650735.155 3555240.043 0
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SO SRCPARAM 39433E2 .00126 9.14 422.04 7.53 .15
** NMED source ID=39433EQPT15 Facility's ID=FL-1 LP
** Description=0.2 MMscfd LP Construction date=20-MAR-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39433E15 POINT 650727.558 3555237.951 0
SO SRCPARAM 39433E15 .00126 14.12 1273 20 2.632
** NMED source ID=39433EQPT16 Facility's ID=ENG-02
** Description=4SRB Compressor Engine CAT 3516J 1380 HP Construction date=10-NOV-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39433E16 POINT 650723.317 3555231.051 0
SO SRCPARAM 39433E16 .0125998 6.1 886.48 41.24 .3
** NMED source ID=39433EQPT17 Facility's ID=FL-01 HP
** Description=Flare-1  6MMscfd HP Construction date=20-MAR-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39433E17 POINT 650724.969 3555222.897 0
SO SRCPARAM 39433E17 .1045783 13.72 1273 20 20.806
**********END OF 39433: Biggers Federal East TB
INFO************************************
************************************************************
** 15.05km away. Facility ID=39825 Name=Gunner Federal 5 D CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9067 NOI
** lat,long,datum=32.077458, -103.495775, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=39825AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=11-AUG-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39825A1 VOLUME 641969.681 3550011.292 0
SO SRCPARAM 39825A1 .0005796 1 .47 .93
** NMED source ID=39825EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39825E3 VOLUME 641977.217 3550018.313 0
SO SRCPARAM 39825E3 .00126 4.57 .47 .93
** NMED source ID=39825EQPT4 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=01-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39825E4 VOLUME 641970.431 3550021.865 0
SO SRCPARAM 39825E4 .00126 4.57 .47 .93
**********END OF 39825: Gunner Federal 5 D CTB
INFO**********************************
************************************************************
** 15.06km away. Facility ID=7409 Name=Deerstalker Federal 8 O CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=10062 NOI
** lat,long,datum=32.140228, -103.387289, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.11tons/year
*****************Facility sources: ******************************
** NMED source ID=7409AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=08-SEP-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7409A1 VOLUME 652105.664 3557118.158 0
SO SRCPARAM 7409A1 .0125998 1 .47 .93
** NMED source ID=7409EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=08-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7409E3 VOLUME 652113.2 3557125.179 0
SO SRCPARAM 7409E3 .00126 6.71 .47 .93
** NMED source ID=7409EQPT4 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=08-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7409E4 VOLUME 652106.414 3557128.731 0
SO SRCPARAM 7409E4 .00126 6.71 .47 .93
**********END OF 7409: Deerstalker Federal 8 O CTB
INFO**********************************
************************************************************
** 15.1km away. Facility ID=8435 Name=Gunner Fed 5 B CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=10135 NOI
** lat,long,datum=32.077976, -103.489947, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=8435AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=08-JAN-24
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8435A1 VOLUME 642518.983 3550076.404 0
SO SRCPARAM 8435A1 .0005796 1 .47 .93
** NMED source ID=8435EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=08-JAN-24
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8435E3 VOLUME 642526.519 3550083.425 0
SO SRCPARAM 8435E3 .00126 4.57 .47 .93
** NMED source ID=8435EQPT4 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=08-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8435E4 VOLUME 642519.733 3550086.977 0
SO SRCPARAM 8435E4 .00126 4.57 .47 .93
**********END OF 8435: Gunner Fed 5 B CTB INFO**************************************
************************************************************
** 15.11km away. Facility ID=36104 Name=Fez Fee 11H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6561 NOI
** lat,long,datum=32.150698, -103.379944, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=36104AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=14-SEP-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36104A1 VOLUME 652781.034 3558289.309 0
SO SRCPARAM 36104A1 .00126 1 .47 .93
** NMED source ID=36104EQPT2 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=14-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36104E2 VOLUME 652788.57 3558296.33 0
SO SRCPARAM 36104E2 .0005796 6.71 .47 .93
**********END OF 36104: Fez Fee 11H Battery
INFO**********************************
************************************************************
** 15.16km away. Facility ID=34226 Name=Cimarex - Diamondtail 23 Federal Battery
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=5860 NOI
** lat,long,datum=32.29648, -103.64881, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.34tons/year
*****************Facility sources: ****************************
** NMED source ID=34226EQPT17 Facility's ID=ENG3
** Description=Waukesha L7044GSI, 1680-hp Construction date=28-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34226E17 POINT 627227.363 3574107.719 0
SO SRCPARAM 34226E17 .0373962 7.32 933.71 40.93 .36
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** NMED source ID=34226RPNT3 Facility's ID=FUGAREA
** Description=Facility Fugitives - including haul roads Construction date=18-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8203hr/yr, 22hr/day
SO LOCATION 34226R3 VOLUME 627220.577 3574111.271 0
SO SRCPARAM 34226R3 .0113398 10 10 9.3
**********END OF 34226: Cimarex - Diamondtail 23 Federal Battery
INFO**********************************
************************************************************
** 15.17km away. Facility ID=41067 Name=Serpentine 35 Facility 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.345041, -103.550097, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.47tons/year
*****************Facility sources: ******************************
** NMED source ID=41067AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=24-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067A1 VOLUME 636442.016 3579605.758 0
SO SRCPARAM 41067A1 .0277196 10 20 9.3
** NMED source ID=41067EQPT5 Facility's ID=HT-1
** Description=HT-1 Heater Treater Construction date=24-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E5 VOLUME 636449.552 3579612.779 0
SO SRCPARAM 41067E5 .0037799 9.14 .47 .93
** NMED source ID=41067EQPT6 Facility's ID=HT-2
** Description=HT-2 Heater Treater Construction date=24-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E6 VOLUME 636442.766 3579616.331 0
SO SRCPARAM 41067E6 .0037799 9.14 .47 .93
** NMED source ID=41067EQPT17 Facility's ID=MT 1
** Description=Microturbine 1 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E17 POINT 636435.169 3579614.239 0
SO SRCPARAM 41067E17 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT18 Facility's ID=MT 2
** Description=Microturbine 2 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E18 POINT 636430.928 3579607.339 0
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SO SRCPARAM 41067E18 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT19 Facility's ID=MT 3
** Description=Microturbine 3 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E19 POINT 636432.58 3579599.185 0
SO SRCPARAM 41067E19 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT20 Facility's ID=MT 4
** Description=Microturbine 4 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E20 POINT 636439.529 3579594.223 0
SO SRCPARAM 41067E20 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT21 Facility's ID=MT 5
** Description=Microturbine 5 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E21 POINT 636448.212 3579595.365 0
SO SRCPARAM 41067E21 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT22 Facility's ID=MT 6
** Description=Microturbine 6 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E22 POINT 636453.922 3579602.293 0
SO SRCPARAM 41067E22 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT23 Facility's ID=MT 7
** Description=Microturbine 7 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E23 POINT 636453.357 3579611.474 0
SO SRCPARAM 41067E23 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT24 Facility's ID=MT 8
** Description=Microturbine 8 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E24 POINT 636446.522 3579617.952 0
SO SRCPARAM 41067E24 .0037799 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT25 Facility's ID=MT 9
** Description=Microturbine 9 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E25 POINT 636436.886 3579618.029 0
SO SRCPARAM 41067E25 .00252 4.02 529.26 95.74 .15
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** NMED source ID=41067EQPT26 Facility's ID=MT 10
** Description=Microturbine 10 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E26 POINT 636429.625 3579611.363 0
SO SRCPARAM 41067E26 .00252 4.02 529.26 95.74 .15
**********END OF 41067: Serpentine 35 Facility 1
INFO**********************************
************************************************************
** 15.21km away. Facility ID=38582 Name=EOG - Bodacious Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1121, -103.635833, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.06tons/year
****************Facility sources: ****************************
** NMED source ID=38582EQPT17 Facility's ID=ENG-1
** Description=Natural Gas Engine CAT G3606A4 1875 HP Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8472hr/yr, 24hr/day
SO LOCATION 38582E17 POINT 628701.176 3553675.858 0
SO SRCPARAM 38582E17 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38582EQPT18 Facility's ID=ENG-2
** Description=Natural Gas Engine CAT G3606A4 1875 HP Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8472hr/yr, 24hr/day
SO LOCATION 38582E18 POINT 628708.712 3553682.879 0
SO SRCPARAM 38582E18 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38582EQPT19 Facility's ID=ENG-3
** Description=Natural Gas Engine CAT 2500 HP Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8519hr/yr, 23hr/day
SO LOCATION 38582E19 POINT 628701.926 3553686.431 0
SO SRCPARAM 38582E19 .0214197 8.84 718.15 26 .61
** NMED source ID=38582EQPT20 Facility's ID=ENG-4
** Description=Natural Gas Engine CAT 2500 HP Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38582E20 POINT 628694.329 3553684.339 0
SO SRCPARAM 38582E20 .0214197 8.53 718.15 26 .61
** NMED source ID=38582EQPT21 Facility's ID=ENG-5
** Description=Natural Gas Engine CAT 2500 HP Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38582E21 POINT 628690.088 3553677.439 0
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SO SRCPARAM 38582E21 .0214197 8.84 718.15 26 .61
** NMED source ID=38582EQPT22 Facility's ID=ENG-6
** Description=Natural Gas Engine CAT 2500 hp Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38582E22 POINT 628691.74 3553669.285 0
SO SRCPARAM 38582E22 .0214197 .61 718.15 26 .61
** NMED source ID=38582EQPT28 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.0 MMbtu/hr Construction date=19-APR-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38582E28 POINT 628698.689 3553664.323 0
SO SRCPARAM 38582E28 .00126 3.96 588.71 2.62 .3
** NMED source ID=38582EQPT29 Facility's ID=Heater-1
** Description=Separator Heater 0.50 MMbtu/hr Construction date=19-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38582E29 POINT 628707.372 3553665.465 0
SO SRCPARAM 38582E29 .00126 3.96 588.71 1.31 .3
**********END OF 38582: EOG - Bodacious Localized Gas Lift Station
INFO**********************************
************************************************************
** 15.21km away. Facility ID=39584 Name=Pitchblende Federal 19 A CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8861 NOI
** lat,long,datum=32.121356, -103.401686, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=39584AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=07-JUN-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39584A1 VOLUME 650778.68 3555005.69 0
SO SRCPARAM 39584A1 .00126 1 .47 .93
** NMED source ID=39584EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39584E4 VOLUME 650786.216 3555012.711 0
SO SRCPARAM 39584E4 .00126 4.57 .47 .93
** NMED source ID=39584EQPT14 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=07-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39584E14 VOLUME 650779.43 3555016.263 0
SO SRCPARAM 39584E14 .00126 4.57 .47 .93
**********END OF 39584: Pitchblende Federal 19 A CTB
INFO************************************
************************************************************
** 15.35km away. Facility ID=6662 Name=Cosmo Booster
** Company ID=13605 Name=NGL Water Solutions Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.210358, -103.360942, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.72tons/year
*****************Facility sources: ******************************
** NMED source ID=6662EQPT1 Facility's ID=GEN1
** Description=Site Generator Construction date=18-SEP-23
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6662E1 POINT 654472.449 3564930.671 0
SO SRCPARAM 6662E1 .0100798 3.05 839.82 34.63 .2
** NMED source ID=6662EQPT2 Facility's ID=GEN2
** Description=Site Generator Construction date=18-SEP-23
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6662E2 POINT 654479.985 3564937.692 0
SO SRCPARAM 6662E2 .0100798 3.05 839.82 34.63 .2
**********END OF 6662: Cosmo Booster INFO************************************
************************************************************
** 15.36km away. Facility ID=38928 Name=OXY - Mesa Verde 16 CGL
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.21318, -103.68693, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.8tons/year
*****************Facility sources: ******************************
** NMED source ID=38928EQPT1 Facility's ID=REB-1
** Description=Reboiler Construction date=24-APR-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38928E1 POINT 623743.37 3564821.5 0
SO SRCPARAM 38928E1 .00126 3.05 533.15 .14 .24
** NMED source ID=38928EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine 1 Construction date=24-APR-19
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38928E2 POINT 623750.906 3564828.521 0
SO SRCPARAM 38928E2 .0125998 4.57 816.48 27.01 .46
** NMED source ID=38928EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine 2 Construction date=24-APR-19
** SCC=31000203
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38928E3 POINT 623744.12 3564832.073 0
SO SRCPARAM 38928E3 .0125998 4.57 816.48 27.01 .46
** NMED source ID=38928EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine 3 Construction date=24-APR-19
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38928E4 POINT 623736.523 3564829.981 0
SO SRCPARAM 38928E4 .0125998 4.57 816.48 27.01 .46
** NMED source ID=38928EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine 4 Construction date=24-APR-19
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38928E5 POINT 623732.282 3564823.081 0
SO SRCPARAM 38928E5 .0125998 4.57 816.48 27.01 .46
** NMED source ID=38928RPNT3 Facility's ID=SITE-SSM
** Description=Emissions due to Startup, Shutdown, Maintenance activities
Construction date=24-APR-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38928R3 VOLUME 623733.934 3564814.927 0
SO SRCPARAM 38928R3 3.3263472 10 260 9.3
**********END OF 38928: OXY - Mesa Verde 16 CGL
INFO**********************************
**************************************************************
** 15.42km away. Facility ID=38473 Name=Horned Frog Compressor Station
** Company ID=13452 Name=Delaware G & P, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.083086, -103.588061, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=8.38tons/year
*****************Facility sources: ****************************
** NMED source ID=38473AREA1 Facility's ID=ROAD (UR-1)
** Description=Haul Road Emissions Construction date=03-DEC-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38473A1 VOLUME 633250.704 3550517.455 0
SO SRCPARAM 38473A1 .0075599 10 10 9.3
** NMED source ID=38473EQPT1 Facility's ID=E-1
** Description=Caterpillar 3516B, 1380 hp Construction date=03-DEC-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7644hr/yr, 24hr/day
SO LOCATION 38473E1 POINT 633258.24 3550524.476 0
SO SRCPARAM 38473E1 .0151198 7.62 804.26 33.22 .41
** NMED source ID=38473EQPT2 Facility's ID=E-2
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** Description=Caterpillar 3516B, 1380 hp Construction date=03-DEC-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7136hr/yr, 24hr/day
SO LOCATION 38473E2 POINT 633251.454 3550528.028 0
SO SRCPARAM 38473E2 .0151198 7.62 804.26 33.22 .41
** NMED source ID=38473EQPT12 Facility's ID=H-1
** Description=DEHY1 Glycol Reboiler Construction date=03-DEC-15
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38473E12 POINT 633243.857 3550525.936 0
SO SRCPARAM 38473E12 .0005796 3.41 533.15 4.81 .15
** NMED source ID=38473EQPT14 Facility's ID=E-4
** Description=Caterpillar G3606, 1875 hp Construction date=08-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E14 POINT 633239.616 3550519.036 0
SO SRCPARAM 38473E14 .0151198 4.51 719.26 19.12 .61
** NMED source ID=38473EQPT18 Facility's ID=E-5
** Description=Waukesha VHP - P9394GSI S5, 2,500 hp Construction date=25-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E18 POINT 633241.268 3550510.882 0
SO SRCPARAM 38473E18 .0428393 7.47 847.59 16.86 .61
** NMED source ID=38473EQPT19 Facility's ID=E-6
** Description=Waukesha VHP - P9394GSI S5, 2,500 hp Construction date=25-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E19 POINT 633248.217 3550505.92 0
SO SRCPARAM 38473E19 .0428393 7.47 847.59 16.86 .61
** NMED source ID=38473EQPT20 Facility's ID=E-7
** Description=Waukesha VHP - P9394GSI S5, 2,500 hp Construction date=25-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E20 POINT 633256.9 3550507.062 0
SO SRCPARAM 38473E20 .0428393 7.47 847.59 16.86 .61
** NMED source ID=38473EQPT21 Facility's ID=ECD
** Description=Enclosed Combustion Device Construction date=25-JUL-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E21 POINT 633262.61 3550513.99 0
SO SRCPARAM 38473E21 .0075599 7.62 699.82 2.23 1.22
** NMED source ID=38473EQPT22 Facility's ID=GEN-4
** Description=Generator Engine, Aggreko 400kW Construction date=25-JUL-23
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** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E22 POINT 633262.045 3550523.171 0
SO SRCPARAM 38473E22 .0100798 3.51 810.93 62.76 .15
** NMED source ID=38473EQPT23 Facility's ID=GEN-5
** Description=Generator Engine, Aggreko 400kW Construction date=25-JUL-23
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E23 POINT 633255.21 3550529.649 0
SO SRCPARAM 38473E23 .0100798 3.51 810.93 62.76 .15
** NMED source ID=38473EQPT24 Facility's ID=H-2
** Description=DEHY2 Glycol Reboiler Construction date=25-JUL-23
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E24 POINT 633245.574 3550529.726 0
SO SRCPARAM 38473E24 .00126 6.1 533.15 4.66 .3
** NMED source ID=38473EQPT31 Facility's ID=E-8
** Description=Waukesha VHP - P9394GSI S5, 2,500 hp Construction date=10-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E31 POINT 633238.313 3550523.06 0
SO SRCPARAM 38473E31 .0428393 7.47 847.59 16.86 .61
**********END OF 38473: Horned Frog Compressor Station
INFO**********************************
************************************************************
** 15.45km away. Facility ID=7803 Name=Stranger 34 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.08257, -103.460473, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=3.55tons/year
*****************Facility sources: ******************************
** NMED source ID=7803AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=17-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803A1 VOLUME 645293.764 3550625.031 0
SO SRCPARAM 7803A1 .0277196 10 20 9.3
** NMED source ID=7803EQPT3 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E3 POINT 645301.3 3550632.052 0
SO SRCPARAM 7803E3 .0277196 6.28 873.71 25.31 .41
** NMED source ID=7803EQPT4 Facility's ID=ENG 2
```

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** Description=ENG 2 Gas Lift Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E4 POINT 645294.514 3550635.604 0
SO SRCPARAM 7803E4 .0075599 3.51 1000.37 71.17 .13
** NMED source ID=7803EQPT5 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E5 POINT 645286.917 3550633.512 0
SO SRCPARAM 7803E5 .0982784 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT6 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E6 POINT 645282.676 3550626.612 0
SO SRCPARAM 7803E6 .0982784 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT7 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E7 POINT 645284.328 3550618.458 0
SO SRCPARAM 7803E7 .0982784 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT8 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E8 POINT 645291.277 3550613.496 0
SO SRCPARAM 7803E8 .0982784 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT9 Facility's ID=ENG 7
** Description=ENG 7 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E9 POINT 645299.96 3550614.638 0
SO SRCPARAM 7803E9 .0982784 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT10 Facility's ID=ENG 8
** Description=ENG 8 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E10 POINT 645305.67 3550621.566 0
SO SRCPARAM 7803E10 .0982784 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT14 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=17-JAN-24
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E14 VOLUME 645305.105 3550630.747 0
SO SRCPARAM 7803E14 .0037799 9.14 .47 .93
** NMED source ID=7803EQPT15 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=17-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E15 VOLUME 645298.27 3550637.225 0
SO SRCPARAM 7803E15 .0037799 9.14 .47 .93
**********END OF 7803: Stranger 34 CTB 2 INFO************************************
************************************************************
** 15.49km away. Facility ID=39732 Name=Red Hills CTB 2
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.093465, -103.61262, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.24tons/year
*****************Facility sources: ******************************
** NMED source ID=39732EQPT1 Facility's ID=HT-1
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E1 VOLUME 630917.962 3551637.971 0
SO SRCPARAM 39732E1 .00126 4.57 .47 .93
** NMED source ID=39732EQPT2 Facility's ID=HT-2
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E2 VOLUME 630925.498 3551644.992 0
SO SRCPARAM 39732E2 .00126 4.57 .47 .93
** NMED source ID=39732EQPT3 Facility's ID=HT-3
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E3 VOLUME 630918.712 3551648.544 0
SO SRCPARAM 39732E3 .00126 4.57 .47 .93
** NMED source ID=39732EQPT4 Facility's ID=HT-4
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E4 VOLUME 630911.115 3551646.452 0
SO SRCPARAM 39732E4 .00126 4.57 .47 .93
** NMED source ID=39732EQPT5 Facility's ID=HT-5
** Description=Heater Treater Construction date=03-NOV-20
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E5 VOLUME 630906.874 3551639.552 0
SO SRCPARAM 39732E5 .00126 4.57 .47 .93
** NMED source ID=39732EQPT6 Facility's ID=HT-6
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E6 VOLUME 630908.526 3551631.398 0
SO SRCPARAM 39732E6 .00126 4.57 .47 .93
** NMED source ID=39732EQPT7 Facility's ID=HT-7
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E7 VOLUME 630915.475 3551626.436 0
SO SRCPARAM 39732E7 .00126 4.57 .47 .93
** NMED source ID=39732EQPT8 Facility's ID=HT-8
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E8 VOLUME 630924.158 3551627.578 0
SO SRCPARAM 39732E8 .00126 4.57 .47 .93
**********END OF 39732: Red Hills CTB 2 INFO**********************************
************************************************************
** 15.5km away. Facility ID=40606 Name=Siege Compressor Station
** Company ID=14143 Name=Northwind Midstream Partners LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.2822, -103.3827, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.54tons/year
*****************Facility sources: ****************************
** NMED source ID=40606EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=22-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E2 POINT 652301.645 3572864.43 0
SO SRCPARAM 40606E2 .0428393 7.62 682.04 90.5 .46
** NMED source ID=40606EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=22-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E3 POINT 652309.181 3572871.451 0
SO SRCPARAM 40606E3 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40606EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=22-SEP-22
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E4 POINT 652302.395 3572875.003 0
SO SRCPARAM 40606E4 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40606EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=22-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E5 POINT 652294.798 3572872.911 0
SO SRCPARAM 40606E5 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40606EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=22-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E6 POINT 652290.557 3572866.011 0
SO SRCPARAM 40606E6 .0214197 7.62 714.82 103.94 .3
** NMED source ID=40606EQPT10 Facility's ID=RBL-1
** Description=TEG Glycol Regen Heater Construction date=22-SEP-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E10 POINT 652292.209 3572857.857 0
SO SRCPARAM 40606E10 .00126 5.18 588.71 6.83 .3
**********END OF 40606: Siege Compressor Station
INFO**********************************
**************************************************************
** 15.55km away. Facility ID=40853 Name=Pelican Compressor Station
** Company ID=14143 Name=Northwind Midstream Partners LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.166191, -103.367421, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.54tons/year
*****************Facility sources: ****************************
** NMED source ID=40853EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=04-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E2 POINT 653936.11 3560024.785 0
SO SRCPARAM 40853E2 .0428393 7.62 682.04 90.5 .46
** NMED source ID=40853EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=04-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E3 POINT 653943.646 3560031.806 0
SO SRCPARAM 40853E3 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40853EQPT4 Facility's ID=ENG-3
```

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** Description=Compressor Engine Construction date=04-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E4 POINT 653936.86 3560035.358 0
SO SRCPARAM 40853E4 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40853EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=04-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E5 POINT 653929.263 3560033.266 0
SO SRCPARAM 40853E5 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40853EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=04-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E6 POINT 653925.022 3560026.366 0
SO SRCPARAM 40853E6 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40853EQPT9 Facility's ID=RBL-1
** Description=TEG Glycol Regen Heater Construction date=04-JAN-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E9 POINT 653926.674 3560018.212 0
SO SRCPARAM 40853E9 .00126 5.18 588.71 6.83 .3
**********END OF 40853: Pelican Compressor Station
INFO************************************
************************************************************
** 15.55km away. Facility ID=7423 Name=Inga 33 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257838, -103.679253, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.58tons/year
*****************Facility sources: ******************************
** NMED source ID=7423EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=20-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7423E1 POINT 624406.02 3569781.124 0
SO SRCPARAM 7423E1 .0075599 4.88 1000.37 14.94 .28
** NMED source ID=7423EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=20-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7423E2 POINT 624413.556 3569788.145 0
SO SRCPARAM 7423E2 .0075599 4.57 803.71 22.07 .2
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** NMED source ID=7423EQPT6 Facility's ID=Heater-1
** Description=Heater Treater Construction date=20-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7423E6 VOLUME 624406.77 3569791.697 0
SO SRCPARAM 7423E6 .00126 3.96 .47 .93
** NMED source ID=7423EQPT7 Facility's ID=Heater-2
** Description=Heater Treater Construction date=20-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7423E7 VOLUME 624399.173 3569789.605 0
SO SRCPARAM 7423E7 .00126 5.18 .47 .93
**********END OF 7423: Inga 33 Fed Com CTB INFO************************************
************************************************************
** 15.57km away. Facility ID=39565 Name=Gipple A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.168744, -103.366131, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=39565EQPT8 Facility's ID=HT-1
** Description=Heater Treater 1, 1.0 MMBtu/hr Construction date=18-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2928hr/yr, 24hr/day
SO LOCATION 39565E8 POINT 654053.46 3560309.67 0
SO SRCPARAM 39565E8 .00126 3.05 510.93 2.93 .25
** NMED source ID=39565RPNT2 Facility's ID=HR-1
** Description=Unpaved Haul Roads Construction date=18-JUN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39565R2 VOLUME 654060.996 3560316.691 0
SO SRCPARAM 39565R2 .0176397 10 10 9.3
**********END OF 39565: Gipple A CTB INFO************************************
************************************************************
** 15.58km away. Facility ID=40069 Name=Stranger 34 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0825, -103.457269, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.19tons/year
*****************Facility sources: ******************************
** NMED source ID=40069AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=04-FEB-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40069A1 VOLUME 645596.286 3550621.592 0
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SO SRCPARAM 40069A1 .0277196 10 20 9.3
** NMED source ID=40069EQPT2 Facility's ID=GEN 1
** Description=550 HP Generator Construction date=04-FEB-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40069E2 POINT 645603.822 3550628.613 0
SO SRCPARAM 40069E2 .0100798 2.99 1005.37 215.25 .09
** NMED source ID=40069EQPT3 Facility's ID=GEN 2
** Description=550 HP Generator Construction date=04-FEB-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40069E3 POINT 645597.036 3550632.165 0
SO SRCPARAM 40069E3 .0100798 2.99 1005.37 215.25 .09
** NMED source ID=40069EQPT4 Facility's ID=HT-1
** Description=3.0 MMBTU/hr Heater Treater 1 Construction date=04-FEB-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40069E4 VOLUME 645589.439 3550630.073 0
SO SRCPARAM 40069E4 .0037799 9.14 .47 .93
**********END OF 40069: Stranger 34 CTB 3 INFO************************************
************************************************************
** 15.63km away. Facility ID=40566 Name=South Ridge 3H 4H Battery
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=9702 NOI
** lat,long,datum=32.333672, -103.443968, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.12tons/year
*****************Facility sources: ******************************
** NMED source ID=40566EQPT2 Facility's ID=HT-01
** Description=Heater Treater Construction date=31-AUG-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40566E2 VOLUME 646448.542 3578485.534 0
SO SRCPARAM 40566E2 .00126 7.32 .47 .93
** NMED source ID=40566EQPT3 Facility's ID=HT-02
** Description=Heater Treater Construction date=31-AUG-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40566E3 VOLUME 646456.078 3578492.555 0
SO SRCPARAM 40566E3 .00126 7.32 .47 .93
** NMED source ID=40566EQPT4 Facility's ID=HT-03
** Description=Heater Treater Construction date=31-AUG-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40566E4 VOLUME 646449.292 3578496.107 0
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SO SRCPARAM 40566E4 .00126 7.32 .47 .93
** NMED source ID=40566EQPT5 Facility's ID=HT-04
** Description=Heater Treater Construction date=31-AUG-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40566E5 VOLUME 646441.695 3578494.015 0
SO SRCPARAM 40566E5 .00126 7.32 .47 .93
**********END OF 40566: South Ridge 3H 4H Battery
INFO**********************************
************************************************************
** 15.64km away. Facility ID=40736 Name=Stranger 34 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9756 NOI
** lat,long,datum=32.080755, -103.460397, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.38tons/year
*****************Facility sources: ****************************
** NMED source ID=40736EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=11-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40736E1 POINT 645303.81 3550423.919 0
SO SRCPARAM 40736E1 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40736EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=11-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40736E2 POINT 645311.346 3550430.94 0
SO SRCPARAM 40736E2 .0075599 4.39 778.71 13.8 .26
**********END OF 40736: Stranger 34 Wellpad 2
INFO**********************************
************************************************************
** 15.65km away. Facility ID=39694 Name=EOG - Gladiator 3 Fed No301H Facility
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.240261, -103.361397, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=39694AREA1 Facility's ID=ROAD
** Description=Haul Roads Construction date=17-NOV-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1057hr/yr, 24hr/day
SO LOCATION 39694A1 VOLUME 654378.99 3568245.246 0
SO SRCPARAM 39694A1 .0008568 1 .47 .93
** NMED source ID=39694EQPT3 Facility's ID=HTR-1
** Description=0.75 MM Btu/hr Heater Treater Construction date=17-NOV-20
** SCC=31000129
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1609hr/yr, 24hr/day
SO LOCATION 39694E3 VOLUME 654386.526 3568252.267 0
SO SRCPARAM 39694E3 .0005796 5.18 .47 .93
**********END OF 39694: EOG - Gladiator 3 Fed No301H Facility
INFO**********************************
************************************************************
** 15.68km away. Facility ID=38091 Name=Calm Breeze 2 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0713, -103.5486, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.16tons/year
*****************Facility sources: ******************************
** NMED source ID=38091EQPT5 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38091E5 VOLUME 636992.733 3549260.307 0
SO SRCPARAM 38091E5 .00126 4.88 .47 .93
** NMED source ID=38091EQPT18 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38091E18 VOLUME 637000.269 3549267.328 0
SO SRCPARAM 38091E18 .00126 4.88 .47 .93
** NMED source ID=38091EQPT19 Facility's ID=HTR-3
** Description=Heater Treater Construction date=01-JAN-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38091E19 VOLUME 636993.483 3549270.88 0
SO SRCPARAM 38091E19 .00126 6.1 .47 .93
** NMED source ID=38091EQPT20 Facility's ID=HTR-4
** Description=Heater Treater Construction date=18-FEB-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38091E20 VOLUME 636985.886 3549268.788 0
SO SRCPARAM 38091E20 .00126 6.1 .47 .93
**********END OF 38091: Calm Breeze 2 Fed Com CTB
INFO**********************************
************************************************************
** 15.69km away. Facility ID=40231 Name=EOG - Golden Bear Local Gas Lift
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1125, -103.6435, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.46tons/year
*****************Facility sources: ******************************
```

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** NMED source ID=40231EQPT1 Facility's ID=HTR-1
** Description=1.5 MMbtu/hr Separator Heater Construction date=29-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E1 POINT 627977.222 3553711.069 0
SO SRCPARAM 40231E1 .00126 6.1 588.71 .11 1.83
** NMED source ID=40231EQPT2 Facility's ID=RBL-1
** Description=1 MMbtu/hr Dehy Reboiler Construction date=29-NOV-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E2 POINT 627984.758 3553718.09 0
SO SRCPARAM 40231E2 .00126 2.44 588.71 .22 1.07
** NMED source ID=40231EQPT3 Facility's ID=ENG-1
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E3 POINT 627977.972 3553721.642 0
SO SRCPARAM 40231E3 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT4 Facility's ID=ENG-2
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E4 POINT 627970.375 3553719.55 0
SO SRCPARAM 40231E4 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT5 Facility's ID=ENG-3
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E5 POINT 627966.134 3553712.65 0
SO SRCPARAM 40231E5 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT6 Facility's ID=ENG-4
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E6 POINT 627967.786 3553704.496 0
SO SRCPARAM 40231E6 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT7 Facility's ID=ENG-5
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E7 POINT 627974.735 3553699.534 0
SO SRCPARAM 40231E7 .0214197 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT8 Facility's ID=ENG-6
```

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** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E8 POINT 627983.418 3553700.676 0
SO SRCPARAM 40231E8 .0214197 6.1 688.15 25.24 .61
**********END OF 40231: EOG - Golden Bear Local Gas Lift
INFO**********************************
************************************************************
** 15.73km away. Facility ID=26388 Name=Rio Blanco 33 Fed 3 Wellpad
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=3562 NOI
** lat,long,datum=32.34636, -103.47769, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=26388AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6456hr/yr, 24hr/day
SO LOCATION 26388A1 VOLUME 643254.416 3579846.576 0
SO SRCPARAM 26388A1 .0277196 10 20 9.3
** NMED source ID=26388EQPT7 Facility's ID=HT-1
** Description=Heater_EQ000018249 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6432hr/yr, 24hr/day
SO LOCATION 26388E7 VOLUME 643261.952 3579853.597 0
SO SRCPARAM 26388E7 .0005796 9.14 .47 .93
**********END OF 26388: Rio Blanco 33 Fed 3 Wellpad
INFO**********************************
************************************************************
** 15.76km away. Facility ID=39080 Name=EOG - Fearless 23 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1185, -103.651, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.97tons/year
*****************Facility sources: ******************************
** NMED source ID=39080AREA1 Facility's ID=Haul
** Description=Unpaved Haul Road Construction date=05-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8783hr/yr, 24hr/day
SO LOCATION 39080A1 VOLUME 627261.259 3554367.334 0
SO SRCPARAM 39080A1 .0050399 1 .47 .93
** NMED source ID=39080EQPT4 Facility's ID=Frac HTR-1
** Description=Heater Construction date=05-AUG-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39080E4 POINT 627268.795 3554374.355 0
SO SRCPARAM 39080E4 .00126 5.18 588.71 2.29 .3
** NMED source ID=39080EQPT5 Facility's ID=HTR-1
** Description=Heater Construction date=05-AUG-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39080E5 POINT 627262.009 3554377.907 0
SO SRCPARAM 39080E5 .00252 5.18 588.71 6.83 .3
** NMED source ID=39080EQPT15 Facility's ID=Frac ENG-1
** Description=Compressor Engine Construction date=05-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39080E15 POINT 627254.412 3554375.815 0
SO SRCPARAM 39080E15 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39080EQPT16 Facility's ID=Frac ENG-2
** Description=Compressor Engine Construction date=05-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39080E16 POINT 627250.171 3554368.915 0
SO SRCPARAM 39080E16 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39080EQPT17 Facility's ID=Frac ENG-3
** Description=Compressor Engine Construction date=05-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39080E17 POINT 627251.823 3554360.761 0
SO SRCPARAM 39080E17 .0075599 6.1 790.93 23.04 .2
**********END OF 39080: EOG - Fearless 23 Fed Com CTB
INFO**********************************
************************************************************
** 15.76km away. Facility ID=39731 Name=Red Hills Pad 5
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.09368, -103.61828, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.09tons/year
*****************Facility sources: ****************************
** NMED source ID=39731EQPT1 Facility's ID=HT-1
** Description=Heater Treater (1 MM Btu/hr) Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39731E1 VOLUME 630383.514 3551654.946 0
SO SRCPARAM 39731E1 .00126 4.57 .47 .93
** NMED source ID=39731EQPT2 Facility's ID=HT-2
** Description=Heater Treater (1 MM Btu/hr) Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39731E2 VOLUME 630391.05 3551661.967 0
SO SRCPARAM 39731E2 .00126 4.57 .47 .93
** NMED source ID=39731EQPT10 Facility's ID=HT-3
** Description=Heater Treater (1 MM Btu/hr) Construction date=30-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39731E10 VOLUME 630384.264 3551665.519 0
SO SRCPARAM 39731E10 .00126 4.57 .47 .93
**********END OF 39731: Red Hills Pad 5 INFO**********************************
************************************************************
** 15.77km away. Facility ID=38248 Name=White Falcon 16 State 1H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7655 NOI
** lat,long,datum=32.137433, -103.380572, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=38248AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=26-MAY-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38248A1 VOLUME 652743.924 3556817.803 0
SO SRCPARAM 38248A1 .0005796 1 .47 .93
** NMED source ID=38248EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38248E4 VOLUME 652751.46 3556824.824 0
SO SRCPARAM 38248E4 .00126 6.71 .47 .93
**********END OF 38248: White Falcon 16 State 1H Battery
INFO**********************************
************************************************************
** 15.77km away. Facility ID=39487 Name=Leslie Fed West Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.124019, -103.391346, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.99tons/year
*****************Facility sources: ******************************
** NMED source ID=39487AREA1 Facility's ID=HR
** Description=Haul Roads Construction date=15-APR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39487A1 VOLUME 651749.819 3555315.441 0
SO SRCPARAM 39487A1 .0075599 10 10 9.3
** NMED source ID=39487EQPT2 Facility's ID=HT-1
** Description=Heater Treater Construction date=15-APR-20
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39487E2 VOLUME 651757.355 3555322.462 0
SO SRCPARAM 39487E2 .0005796 7.62 .47 .93
** NMED source ID=39487EQPT3 Facility's ID=HT-2
** Description=Heater Treater Construction date=15-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39487E3 VOLUME 651750.569 3555326.014 0
SO SRCPARAM 39487E3 .0005796 7.62 .47 .93
** NMED source ID=39487EQPT8 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=03-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7224hr/yr, 24hr/day
SO LOCATION 39487E8 POINT 651742.972 3555323.922 0
SO SRCPARAM 39487E8 .0264596 6.1 886.48 26.95 .3
**********END OF 39487: Leslie Fed West Facility
INFO**********************************
************************************************************
** 15.84km away. Facility ID=40154 Name=Matador - Leslie Biggers CDP
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.134756, -103.381568, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.3tons/year
*****************Facility sources: ****************************
** NMED source ID=40154RPNT4 Facility's ID=HR
** Description=Unpaved Roads Construction date=30-SEP-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40154R4 VOLUME 652654.431 3556519.607 0
SO SRCPARAM 40154R4 .0503992 1 .47 .93
**********END OF 40154: Matador - Leslie Biggers CDP
INFO**********************************
************************************************************
** 15.85km away. Facility ID=6551 Name=Froderick 33 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.26395, -103.68, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.58tons/year
*****************Facility sources: ****************************
** NMED source ID=6551EQPT6 Facility's ID=Heater-1
** Description=Heater Treater Construction date=25-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6551E6 VOLUME 624327.318 3570457.834 0
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SO SRCPARAM 6551E6 .00126 3.96 .47 .93
** NMED source ID=6551EQPT7 Facility's ID=Heater-2
** Description=Heater Treater Construction date=25-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6551E7 VOLUME 624334.854 3570464.855 0
SO SRCPARAM 6551E7 .00126 5.18 .47 .93
** NMED source ID=6551EQPT13 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=25-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6551E13 POINT 624328.068 3570468.407 0
SO SRCPARAM 6551E13 .0075599 4.88 1000.37 14.94 .28
** NMED source ID=6551EQPT15 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=25-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6551E15 POINT 624320.471 3570466.315 0
SO SRCPARAM 6551E15 .0075599 4.57 803.71 22.07 .2
**********END OF 6551: Froderick 33 Fed Com CTB
INFO************************************
************************************************************
** 15.92km away. Facility ID=38397 Name=White Falcon State 16D Tank Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8583 NOI
** lat,long,datum=32.135853, -103.379778, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=38397AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=13-NOV-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38397A1 VOLUME 652821.458 3556643.764 0
SO SRCPARAM 38397A1 .00126 1 .47 .93
** NMED source ID=38397EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38397E4 VOLUME 652828.994 3556650.785 0
SO SRCPARAM 38397E4 .00126 6.71 .47 .93
** NMED source ID=38397EQPT8 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=17-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38397E8 VOLUME 652822.208 3556654.337 0
SO SRCPARAM 38397E8 .00126 6.71 .47 .93
** NMED source ID=38397EQPT9 Facility's ID=HT-03
** Description=Heater Treater Burner Construction date=17-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38397E9 VOLUME 652814.611 3556652.245 0
SO SRCPARAM 38397E9 .00126 6.71 .47 .93
** NMED source ID=38397EQPT10 Facility's ID=HT-04
** Description=Heater Treater Burner Construction date=17-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38397E10 VOLUME 652810.37 3556645.345 0
SO SRCPARAM 38397E10 .00126 6.71 .47 .93
**********END OF 38397: White Falcon State 16D Tank Battery
INFO**********************************
************************************************************
** 15.97km away. Facility ID=39719 Name=Mulva-ManHands C CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.182992, -103.357506, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=3.36tons/year
*****************Facility sources: ******************************
** NMED source ID=39719EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E1 POINT 654842.667 3561901.664 0
SO SRCPARAM 39719E1 .0125998 9.14 723.71 281.03 .2
** NMED source ID=39719EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E2 POINT 654850.203 3561908.685 0
SO SRCPARAM 39719E2 .0125998 9.14 723.71 281.03 .2
** NMED source ID=39719EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=14-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E3 POINT 654843.417 3561912.237 0
SO SRCPARAM 39719E3 .0403194 9.14 855.37 34.63 .36
** NMED source ID=39719EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E4 POINT 654835.82 3561910.145 0
SO SRCPARAM 39719E4 .0125998 9.14 723.71 281.03 .2
** NMED source ID=39719EQPT5 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E5 POINT 654831.579 3561903.245 0
SO SRCPARAM 39719E5 .0125998 9.14 723.71 281.03 .2
** NMED source ID=39719EQPT8 Facility's ID=HT-1
** Description=Heater Treater Construction date=14-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E8 VOLUME 654833.231 3561895.091 0
SO SRCPARAM 39719E8 .00252 4.57 .47 .93
** NMED source ID=39719EQPT9 Facility's ID=HT-2
** Description=Heater Treater Construction date=14-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E9 VOLUME 654840.18 3561890.129 0
SO SRCPARAM 39719E9 .00252 4.57 .47 .93
**********END OF 39719: Mulva-ManHands C CTB
INFO**********************************
************************************************************
** 16.01km away. Facility ID=40739 Name=Stranger 34 Wellpad 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9757 NOI
** lat,long,datum=32.080768, -103.450607, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.38tons/year
*****************Facility sources: ******************************
** NMED source ID=40739EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=11-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40739E1 POINT 646227.843 3550438.594 0
SO SRCPARAM 40739E1 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40739EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=11-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40739E2 POINT 646235.379 3550445.615 0
SO SRCPARAM 40739E2 .0075599 4.39 778.71 13.8 .26
**********END OF 40739: Stranger 34 Wellpad 5
INFO**********************************
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** 16.01km away. Facility ID=39476 Name=Pork Pie 15 O CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8761 NOI
** lat,long,datum=32.211639, -103.353875, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=39476AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=25-APR-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39476A1 VOLUME 655136.379 3565082.872 0
SO SRCPARAM 39476A1 .00126 4.57 .47 .93
** NMED source ID=39476EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39476E4 VOLUME 655143.915 3565089.893 0
SO SRCPARAM 39476E4 .00126 4.57 .47 .93
**********END OF 39476: Pork Pie 15 O CTB INFO************************************
************************************************************
** 16.02km away. Facility ID=40999 Name=Bing Clawsby Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.298484, -103.658601, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.17tons/year
*****************Facility sources: ******************************
** NMED source ID=40999AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Road Construction date=17-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999A1 VOLUME 626295.113 3574311.287 0
SO SRCPARAM 40999A1 .00126 1 .47 .93
** NMED source ID=40999EQPT2 Facility's ID=GEN-1
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E2 POINT 626302.649 3574318.308 0
SO SRCPARAM 40999E2 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT3 Facility's ID=GEN-2
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E3 POINT 626295.863 3574321.86 0
SO SRCPARAM 40999E3 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT4 Facility's ID=GEN-3
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** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E4 POINT 626288.266 3574319.768 0
SO SRCPARAM 40999E4 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT5 Facility's ID=GEN-4
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E5 POINT 626284.025 3574312.868 0
SO SRCPARAM 40999E5 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT6 Facility's ID=GEN-5
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E6 POINT 626285.677 3574304.714 0
SO SRCPARAM 40999E6 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT7 Facility's ID=GEN-6
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E7 POINT 626292.626 3574299.752 0
SO SRCPARAM 40999E7 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT8 Facility's ID=GEN-7
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E8 POINT 626301.309 3574300.894 0
SO SRCPARAM 40999E8 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT9 Facility's ID=GEN-8
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E9 POINT 626307.019 3574307.822 0
SO SRCPARAM 40999E9 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT10 Facility's ID=HTR-1
** Description=Heater Treater Heater Construction date=17-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E10 VOLUME 626306.454 3574317.003 0
SO SRCPARAM 40999E10 .00126 4.88 .47 .93
**********END OF 40999: Bing Clawsby Fed Com CTB
INFO**********************************
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**********************************************************
** 16.04km away. Facility ID=39108 Name=MarkWest - Red Hills Compressor Station
** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.087695, -103.612855, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=7.59tons/year
*****************Facility sources: ******************************
** NMED source ID=39108EQPT1 Facility's ID=Reboil-1
** Description=TEG Reboiler 1.5 MMBtu/hr Construction date=12-AUG-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39108E1 POINT 630904.013 3550998.033 0
SO SRCPARAM 39108E1 .00126 7 730 28 .3
** NMED source ID=39108EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine CAT G3608, 2500-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7538hr/yr, 24hr/day
SO LOCATION 39108E2 POINT 630911.549 3551005.054 0
SO SRCPARAM 39108E2 .0327595 7.01 708.15 57.94 .41
** NMED source ID=39108EQPT4 Facility's ID=ENG-2
** Description=Compressor Engine CAT G3516J, 1380-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7085hr/yr, 24hr/day
SO LOCATION 39108E4 POINT 630904.763 3551008.606 0
SO SRCPARAM 39108E4 .0201597 7.01 718.15 52.46 .3
** NMED source ID=39108EQPT5 Facility's ID=ENG-3
** Description=Compressor Engine CAT G3516J, 1380-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6477hr/yr, 24hr/day
SO LOCATION 39108E5 POINT 630897.166 3551006.514 0
SO SRCPARAM 39108E5 .0201597 7.01 718.15 52.46 .3
** NMED source ID=39108EQPT6 Facility's ID=ENG-4
** Description=Compressor Engine CAT G3516J, 1380-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4657hr/yr, 24hr/day
SO LOCATION 39108E6 POINT 630892.925 3550999.614 0
SO SRCPARAM 39108E6 .0201597 7.01 718.15 52.46 .3
** NMED source ID=39108EQPT7 Facility's ID=ENG-5
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6366hr/yr, 24hr/day
SO LOCATION 39108E7 POINT 630894.577 3550991.46 0
SO SRCPARAM 39108E7 .0163797 7.01 805.93 62.15 .3
** NMED source ID=39108EQPT8 Facility's ID=ENG-7
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** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5704hr/yr, 24hr/day
SO LOCATION 39108E8 POINT 630901.526 3550986.498 0
SO SRCPARAM 39108E8 .0163797 7.01 805.93 62.15 .3
** NMED source ID=39108EQPT9 Facility's ID=ENG-9
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3421hr/yr, 24hr/day
SO LOCATION 39108E9 POINT 630910.209 3550987.64 0
SO SRCPARAM 39108E9 .0163797 7.01 805.93 62.15 .3
** NMED source ID=39108EQPT10 Facility's ID=ECD-1
** Description=Combustor 500 MMSCFD Construction date=18-OCT-21
** SCC=30600904
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=500hr/yr, 24hr/day
SO LOCATION 39108E10 POINT 630915.919 3550994.568 0
SO SRCPARAM 39108E10 .0503992 9.75 1273 20 2.13
** NMED source ID=39108EQPT14 Facility's ID=ECD-2
** Description=Combustor 30.0 MMSCFD Construction date=18-OCT-21
** SCC=30600904
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39108E14 POINT 630915.354 3551003.749 0
SO SRCPARAM 39108E14 .00252 3.66 1273 20 1.22
** NMED source ID=39108EQPT15 Facility's ID=ENG-10
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3472hr/yr, 24hr/day
SO LOCATION 39108E15 POINT 630908.519 3551010.227 0
SO SRCPARAM 39108E15 .0163797 7.01 805.93 62.15 .3
** NMED source ID=39108EQPT16 Facility's ID=ENG-11
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5248hr/yr, 24hr/day
SO LOCATION 39108E16 POINT 630898.883 3551010.304 0
SO SRCPARAM 39108E16 .0163797 7.01 805.93 62.15 .3
** NMED source ID=39108EQPT17 Facility's ID=ENG-8
** Description=Compressor Engine CAT G3516J, 1380-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4488hr/yr, 24hr/day
SO LOCATION 39108E17 POINT 630891.622 3551003.638 0
SO SRCPARAM 39108E17 .0151198 7.01 718.15 52.46 .3
** NMED source ID=39108EQPT18 Facility's ID=ENG-6
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4116hr/yr, 24hr/day
SO LOCATION 39108E18 POINT 630890.842 3550993.592 0
SO SRCPARAM 39108E18 .0163797 7.01 805.93 62.15 .3
**********END OF 39108: MarkWest - Red Hills Compressor Station
INFO**********************************
************************************************************
** 16.08km away. Facility ID=40787 Name=Green Beret Federal 20B CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9781 NOI
** lat,long,datum=32.121572, -103.389499, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.14tons/year
*****************Facility sources: ****************************
** NMED source ID=40787AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=23-NOV-22
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40787A1 VOLUME 651928.128 3555046.761 0
SO SRCPARAM 40787A1 .0005796 1 .47 .93
** NMED source ID=40787EQPT2 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=23-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40787E2 VOLUME 651935.664 3555053.782 0
SO SRCPARAM 40787E2 .00126 6.71 .47 .93
** NMED source ID=40787EQPT3 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=23-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40787E3 VOLUME 651928.878 3555057.334 0
SO SRCPARAM 40787E3 .00126 6.71 .47 .93
** NMED source ID=40787EQPT4 Facility's ID=HT-03
** Description=Heater Treater Burner Construction date=23-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40787E4 VOLUME 651921.281 3555055.242 0
SO SRCPARAM 40787E4 .00126 6.71 .47 .93
**********END OF 40787: Green Beret Federal 20B CTB
INFO**********************************
************************************************************
** 16.12km away. Facility ID=27251 Name=Rio Blanco 33 Fed 2 SWD Pad
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=3754 NOI
** lat,long,datum=32.349722, -103.476667, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.01tons/year
```

**********Facility sources: **********
** NMED source ID=27251AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=01-MAR-08
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 27251A1 VOLUME 643345.39 3580220.675 0
SO SRCPARAM 27251A1 .0050399 1 .47 .93
**********END OF 27251: Rio Blanco 33 Fed 2 SWD Pad
INFO**********
**********
** 16.14km away. Facility ID=32333 Name=Salado Draw 6 Fed 1H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5074 NOI
** lat,long,datum=32.065772, -103.514708, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.21tons/year
**********Facility sources: **********
** NMED source ID=32333AREA1 Facility's ID=24
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8736hr/yr, 24hr/day
SO LOCATION 32333A1 VOLUME 640200.432 3548691.016 0
SO SRCPARAM 32333A1 .0277196 10 20 9.3
** NMED source ID=32333EQPT4 Facility's ID=6
** Description=Heater_EQ000070439 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32333E4 VOLUME 640207.968 3548698.037 0
SO SRCPARAM 32333E4 .0005796 9.14 .47 .93
** NMED source ID=32333EQPT10 Facility's ID=7
** Description=Heater_EQ000070318 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32333E10 VOLUME 640201.182 3548701.589 0
SO SRCPARAM 32333E10 .0005796 9.14 .47 .93
** NMED source ID=32333EQPT13 Facility's ID=25
** Description=Combustion Engine Construction date=08-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32333E13 POINT 640193.585 3548699.497 0
SO SRCPARAM 32333E13 .0037799 3.6 853.15 19.79 .17
**********END OF 32333: Salado Draw 6 Fed 1H
INFO**********
**********
** 16.17km away. Facility ID=26440 Name=Red Hills Compressor Station
** Company ID=13580 Name=ET Gathering & Processing LLC

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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.065473, -103.531778, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.46tons/year
*****************Facility sources: ****************************
** NMED source ID=26440EQPT17 Facility's ID=1A
** Description=1775 hp Cat G3606 w/oxid. catalyst Construction date=23-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4403hr/yr, 24hr/day
SO LOCATION 26440E17 POINT 638589.447 3548635.814 0
SO SRCPARAM 26440E17 .0163797 7.19 725.93 35.05 .46
** NMED source ID=26440EQPT18 Facility's ID=2A
** Description=1775 hp Cat G3606 w/oxid. catalyst Construction date=23-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8683hr/yr, 24hr/day
SO LOCATION 26440E18 POINT 638596.983 3548642.835 0
SO SRCPARAM 26440E18 .0163797 7.19 725.93 35.08 .46
** NMED source ID=26440EQPT19 Facility's ID=4B
** Description=1775 hp Cat G3606 w/oxid. catalyst Construction date=23-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4401hr/yr, 24hr/day
SO LOCATION 26440E19 POINT 638590.197 3548646.387 0
SO SRCPARAM 26440E19 .0163797 7.19 725.93 35.05 .46
** NMED source ID=26440EQPT20 Facility's ID=5
** Description=Compressor Engine690 hp Construction date=23-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 26440E20 POINT 638582.6 3548644.295 0
SO SRCPARAM 26440E20 .0075599 6.1 772.59 28.8 .3
** NMED source ID=26440EQPT21 Facility's ID=3A
** Description=Caterpillar 3516 TALE 1340 hp Construction date=28-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 26440E21 POINT 638578.359 3548637.395 0
SO SRCPARAM 26440E21 .0125998 6.25 729.82 49.93 .3
**********END OF 26440: Red Hills Compressor Station
INFO**********************************
************************************************************
** 16.19km away. Facility ID=38679 Name=Leslie Federal East Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.124459, -103.385449, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=5.53tons/year
*****************Facility sources: ****************************
** NMED source ID=38679AREA1 Facility's ID=HR-1
** Description=Unpaved haul roads Construction date=27-JUL-20
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** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38679A1 VOLUME 652305.436 3555372.544 0
SO SRCPARAM 38679A1 .0075599 10 10 9.3
** NMED source ID=38679EQPT1 Facility's ID=HT-1
** Description=0.5 MM Btu/hr heater treater Construction date=27-JUL-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38679E1 VOLUME 652312.972 3555379.565 0
SO SRCPARAM 38679E1 .0005796 6.1 .47 .93
** NMED source ID=38679EQPT2 Facility's ID=ENG-1
** Description=1380 hp Caterpillar 3516J Compressor Engine Construction
date=27-JUL-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38679E2 POINT 652306.186 3555383.117 0
SO SRCPARAM 38679E2 .0125998 6.1 804.82 113.6 .2
** NMED source ID=38679EQPT21 Facility's ID=ENG-2
** Description=1380 hp Caterpillar 3516J Compressor Engine Construction
date=08-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38679E21 POINT 652298.589 3555381.025 0
SO SRCPARAM 38679E21 .0125998 6.1 804.82 113.6 .2
** NMED source ID=38679EQPT22 Facility's ID=ENG-3
** Description=84 hp Cummins G5.9 Compressor Engine Construction date=08-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1464hr/yr, 24hr/day
SO LOCATION 38679E22 POINT 652294.348 3555374.125 0
SO SRCPARAM 38679E22 .00126 6.1 1005.37 9.44 .15
** NMED source ID=38679EQPT23 Facility's ID=ENG-4
** Description=84 hp Cummins G5.9 Compressor Engine Construction date=08-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1464hr/yr, 24hr/day
SO LOCATION 38679E23 POINT 652296 3555365.971 0
SO SRCPARAM 38679E23 .00126 6.1 1005.37 9.44 .15
** NMED source ID=38679EQPT24 Facility's ID=ENG-5
** Description=84 hp Cummins G5.9 Compressor Engine Construction date=08-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1464hr/yr, 24hr/day
SO LOCATION 38679E24 POINT 652302.949 3555361.009 0
SO SRCPARAM 38679E24 .00126 6.1 1005.37 9.44 .15
** NMED source ID=38679EQPT25 Facility's ID=HT-2
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** Description=1.0 MM Btu/hr heater treater Construction date=08-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38679E25 VOLUME 652311.632 3555362.151 0
SO SRCPARAM 38679E25 .00126 6.1 .47 .93
** NMED source ID=38679EQPT26 Facility's ID=HT-3
** Description=1.0 MM Btu/hr heater treater Construction date=08-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38679E26 VOLUME 652317.342 3555369.079 0
SO SRCPARAM 38679E26 .00126 6.1 .47 .93
** NMED source ID=38679EQPT27 Facility's ID=HT-4
** Description=1.0 MM Btu/hr heater treater Construction date=08-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38679E27 VOLUME 652316.777 3555378.26 0
SO SRCPARAM 38679E27 .00126 6.1 .47 .93
** NMED source ID=38679EQPT32 Facility's ID=GEN-1
** Description=581 hp PSI 21.9L 4SRB Generator Construction date=08-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38679E32 POINT 652309.942 3555384.738 0
SO SRCPARAM 38679E32 .00126 6.1 1023.15 19.37 .3
**********END OF 38679: Leslie Federal East Facility
INFO**********************************
**************************************************************
** 16.28km away. Facility ID=9054 Name=Onyx 35 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.08306, -103.4392, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.4tons/year
*****************Facility sources: ******************************
** NMED source ID=9054EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9054E1 POINT 647300.846 3550708.214 0
SO SRCPARAM 9054E1 .0075599 4.57 1003.71 16.37 .28
** NMED source ID=9054EQPT5 Facility's ID=Heater-1
** Description=Heater Construction date=17-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9054E5 POINT 647308.382 3550715.235 0
SO SRCPARAM 9054E5 .00126 3.05 588.71 6.8 .3
```

```
** NMED source ID=9054EQPT6 Facility's ID=Heater-2
** Description=Heater Construction date=17-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9054E6 POINT 647301.596 3550718.787 0
SO SRCPARAM 9054E6 .00126 3.05 588.71 6.8 .3
**********END OF 9054: Onyx 35 Fed Com CTB INFO************************************
************************************************************
** 16.3km away. Facility ID=38683 Name=Mesa Verde East CGL2
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.212194, -103.696944, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.32tons/year
*****************Facility sources: ******************************
** NMED source ID=38683AREA1 Facility's ID=ROAD
** Description=Road Construction date=16-MAY-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38683A1 VOLUME 622800.907 3564700.705 0
SO SRCPARAM 38683A1 .00126 1 .47 .93
** NMED source ID=38683EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8219hr/yr, 24hr/day
SO LOCATION 38683E1 POINT 622808.443 3564707.726 0
SO SRCPARAM 38683E1 .0125998 5.64 816.48 94.18 .24
** NMED source ID=38683EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7977hr/yr, 24hr/day
SO LOCATION 38683E3 POINT 622801.657 3564711.278 0
SO SRCPARAM 38683E3 .0125998 5.64 816.48 94.18 .24
** NMED source ID=38683EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8259hr/yr, 24hr/day
SO LOCATION 38683E4 POINT 622794.06 3564709.186 0
SO SRCPARAM 38683E4 .0125998 5.64 816.48 94.18 .24
** NMED source ID=38683EQPT5 Facility's ID=REB-1
** Description=Reboiler Construction date=20-MAR-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38683E5 POINT 622789.819 3564702.286 0
SO SRCPARAM 38683E5 .00126 4.57 588.71 .12 .24
```

```
** NMED source ID=38683EQPT8 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8111hr/yr, 24hr/day
SO LOCATION 38683E8 POINT 622791.471 3564694.132 0
SO SRCPARAM 38683E8 .0125998 5.64 816.48 94.18 .24
** NMED source ID=38683EQPT9 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2002hr/yr, 24hr/day
SO LOCATION 38683E9 POINT 622798.42 3564689.17 0
SO SRCPARAM 38683E9 .0125998 5.64 816.48 94.18 .24
** NMED source ID=38683EQPT10 Facility's ID=REB-1
** Description=Reboiler Construction date=01-JAN-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38683E10 POINT 622807.103 3564690.312 0
SO SRCPARAM 38683E10 .00126 4.57 588.71 .12 .24
** NMED source ID=38683RPNT2 Facility's ID=SITE-SSM
** Description=Startup, Shutdown, Maintenance Construction date=20-MAR-20
** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38683R2 VOLUME 622812.813 3564697.24 0
SO SRCPARAM 38683R2 .0002898 1 .47 .93
**********END OF 38683: Mesa Verde East CGL2
INFO**********************************
************************************************************
** 16.37km away. Facility ID=39275 Name=Kaiser - Red Hills Central Tank Battery
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.086303, -103.61686, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.84tons/year
*****************Facility sources: ****************************
** NMED source ID=39275EQPT1 Facility's ID=HS-1
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E1 POINT 630528.011 3550838.863 0
SO SRCPARAM 39275E1 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT2 Facility's ID=HS-10
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E2 POINT 630535.547 3550845.884 0
```

```
SO SRCPARAM 39275E2 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT3 Facility's ID=HS-2
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E3 POINT 630528.761 3550849.436 0
SO SRCPARAM 39275E3 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT4 Facility's ID=HS-3
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E4 POINT 630521.164 3550847.344 0
SO SRCPARAM 39275E4 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT5 Facility's ID=HS-4
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E5 POINT 630516.923 3550840.444 0
SO SRCPARAM 39275E5 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT6 Facility's ID=HS-5
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E6 POINT 630518.575 3550832.29 0
SO SRCPARAM 39275E6 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT7 Facility's ID=HS-6
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E7 POINT 630525.524 3550827.328 0
SO SRCPARAM 39275E7 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT8 Facility's ID=HS-7
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E8 POINT 630534.207 3550828.47 0
SO SRCPARAM 39275E8 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT9 Facility's ID=HS-8
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E9 POINT 630539.917 3550835.398 0
SO SRCPARAM 39275E9 .00126 4.57 369.82 7.99 .09
```

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** NMED source ID=39275EQPT10 Facility's ID=HS-9
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E10 POINT 630539.352 3550844.579 0
SO SRCPARAM 39275E10 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT11 Facility's ID=HT-1
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E11 VOLUME 630532.517 3550851.057 0
SO SRCPARAM 39275E11 .00126 4.57 .47 .93
** NMED source ID=39275EQPT12 Facility's ID=HT-10
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E12 VOLUME 630522.881 3550851.134 0
SO SRCPARAM 39275E12 .00126 4.57 .47 .93
** NMED source ID=39275EQPT13 Facility's ID=HT-11
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E13 VOLUME 630515.62 3550844.468 0
SO SRCPARAM 39275E13 .00126 4.57 .47 .93
** NMED source ID=39275EQPT14 Facility's ID=HT-12
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E14 VOLUME 630514.84 3550834.422 0
SO SRCPARAM 39275E14 .00126 4.57 .47 .93
** NMED source ID=39275EQPT15 Facility's ID=HT-13
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E15 VOLUME 630521.258 3550826.371 0
SO SRCPARAM 39275E15 .00126 4.57 .47 .93
** NMED source ID=39275EQPT16 Facility's ID=HT-2
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E16 VOLUME 630531.66 3550824.83 0
SO SRCPARAM 39275E16 .00126 4.57 .47 .93
** NMED source ID=39275EQPT17 Facility's ID=HT-3
```

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** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E17 VOLUME 630540.5 3550830.922 0
SO SRCPARAM 39275E17 .00126 4.57 .47 .93
** NMED source ID=39275EQPT18 Facility's ID=HT-4
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E18 VOLUME 630542.857 3550841.62 0
SO SRCPARAM 39275E18 .00126 4.57 .47 .93
** NMED source ID=39275EQPT19 Facility's ID=HT-5
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E19 VOLUME 630537.173 3550851.241 0
SO SRCPARAM 39275E19 .00126 4.57 .47 .93
** NMED source ID=39275EQPT20 Facility's ID=HT-6
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E20 VOLUME 630526.243 3550854.463 0
SO SRCPARAM 39275E20 .00126 4.57 .47 .93
** NMED source ID=39275EQPT21 Facility's ID=HT-7
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E21 VOLUME 630515.856 3550849.268 0
SO SRCPARAM 39275E21 .00126 4.57 .47 .93
** NMED source ID=39275EQPT22 Facility's ID=HT-8
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E22 VOLUME 630511.725 3550838.178 0
SO SRCPARAM 39275E22 .00126 4.57 .47 .93
** NMED source ID=39275EQPT23 Facility's ID=HT-9
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E23 VOLUME 630516.351 3550827.047 0
SO SRCPARAM 39275E23 .00126 4.57 .47 .93
** NMED source ID=39275EQPT29 Facility's ID=HS-11
** Description=Heated Separator Construction date=10-OCT-21
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E29 POINT 630527.525 3550821.97 0
SO SRCPARAM 39275E29 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT30 Facility's ID=HS-12
** Description=Heated Separator Construction date=10-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E30 POINT 630539.368 3550825.946 0
SO SRCPARAM 39275E30 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT31 Facility's ID=HS-13
** Description=Heated Separator Construction date=10-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E31 POINT 630545.424 3550837.124 0
SO SRCPARAM 39275E31 .00126 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT32 Facility's ID=HT-14
** Description=Heater Treater Construction date=10-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E32 VOLUME 630542.177 3550849.642 0
SO SRCPARAM 39275E32 .00126 4.57 .47 .93
** NMED source ID=39275EQPT33 Facility's ID=HT-15
** Description=Heater Treater Construction date=10-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E33 VOLUME 630531.079 3550856.701 0
SO SRCPARAM 39275E33 .00126 4.57 .47 .93
**********END OF 39275: Kaiser - Red Hills Central Tank Battery
INFO***********************************
************************************************************
** 16.44km away. Facility ID=38392 Name=White Falcon Fed 16 C Central Tank Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7795 NOI
** lat,long,datum=32.135419, -103.373681, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.13tons/year
*****************Facility sources: ******************************
** NMED source ID=38392AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=02-OCT-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38392A1 VOLUME 653397.329 3556604.319 0
SO SRCPARAM 38392A1 .0062999 10 10 9.3
** NMED source ID=38392EQPT4 Facility's ID=HT-01
```

```
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38392E4 VOLUME 653404.865 3556611.34 0
SO SRCPARAM 38392E4 .00126 6.71 .47 .93
** NMED source ID=38392EQPT8 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38392E8 VOLUME 653398.079 3556614.892 0
SO SRCPARAM 38392E8 .00126 6.71 .47 .93
** NMED source ID=38392EQPT9 Facility's ID=HT-03
** Description=Heater Treater Burner Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38392E9 VOLUME 653390.482 3556612.8 0
SO SRCPARAM 38392E9 .00126 6.71 .47 .93
** NMED source ID=38392EQPT10 Facility's ID=HT-04
** Description=Heater Treater Burner Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38392E10 VOLUME 653386.241 3556605.9 0
SO SRCPARAM 38392E10 .00126 6.71 .47 .93
**********END OF 38392: White Falcon Fed 16 C Central Tank Battery
INFO**********************************
************************************************************
** 16.48km away. Facility ID=8462 Name=Paint 4 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.153335, -103.685205, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.93tons/year
*****************Facility sources: ******************************
** NMED source ID=8462EQPT3 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engine Construction date=15-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E3 POINT 623987.048 3558189.167 0
SO SRCPARAM 8462E3 .0125998 5.85 716.48 68.95 .27
** NMED source ID=8462EQPT4 Facility's ID=ENG 2
** Description=ENG 2 Gas Lift Engine Construction date=15-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E4 POINT 623994.584 3558196.188 0
SO SRCPARAM 8462E4 .0037799 3.6 853.15 19.96 .17
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** NMED source ID=8462EQPT5 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=15-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E5 POINT 623987.798 3558199.74 0
SO SRCPARAM 8462E5 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8462EQPT6 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=15-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E6 POINT 623980.201 3558197.648 0
SO SRCPARAM 8462E6 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8462EQPT7 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=15-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E7 POINT 623975.96 3558190.748 0
SO SRCPARAM 8462E7 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8462EQPT8 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=15-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E8 POINT 623977.612 3558182.594 0
SO SRCPARAM 8462E8 .0100798 3.17 1005.37 77.48 .15
**********END OF 8462: Paint 4 CTB 1 INFO**********************************
************************************************************
** 16.48km away. Facility ID=1775 Name=Aggregate Facility No2 GCP2-0265
** Company ID=12792 Name=United Materials, LLP
** SIC=1423 NAIC=212313   Permit=0265 GCP2
** lat,long,datum=32.066891, -103.566263, Unknown
** Total Particulate Matter (2.5 microns or less) emissions=190tons/year
*****************Facility sources: ******************************
** NMED source ID=1775ACT 1 Facility's ID=GCP2
** Description=Crushing Operation Construction date=16-DEC-13
** SCC=30502501
** Potential operating rate=4380hr/yr, 0hr/day
** Actual operating rate=950hr/yr, 10hr/day
SO LOCATION 1775@1 VOLUME 661442.574 3630092.569 1173.5
SO SRCPARAM 1775@1 5.4656672 10 430 9.3
SO EMISFACT 1775@1 HROFDY 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0
** NMED source ID=1775ACT 4 Facility's ID=S
** Description=Aggregate crushing facility Construction date=15-OCT-21
** SCC=30502501
** Potential operating rate=4380hr/yr, 0hr/day
** Actual operating rate=950hr/yr, 10hr/day
SO LOCATION 1775@4 VOLUME 635339.459 3548756.256 0
```

```
SO SRCPARAM 1775@4 5.4656672 10 430 9.3
SO EMISFACT 1775@4 HROFDY 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0
**********END OF 1775: Aggregate Facility No2 GCP2-0265
INFO**********************************
************************************************************
** 16.52km away. Facility ID=38457 Name=Hunter 21 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2951, -103.3797, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.34tons/year
*****************Facility sources: ******************************
** NMED source ID=38457AREA1 Facility's ID=ROAD
** Description=Haul Road Emissions Construction date=26-JUL-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38457A1 VOLUME 652562.578 3574298.875 0
SO SRCPARAM 38457A1 .0658718 10 10 9.3
** NMED source ID=38457EQPT17 Facility's ID=HTR-1
** Description=Heater Construction date=26-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38457E17 VOLUME 652570.114 3574305.896 0
SO SRCPARAM 38457E17 .00126 4.88 .47 .93
**********END OF 38457: Hunter 21 State CTB
INFO**********************************
************************************************************
** 16.56km away. Facility ID=40001 Name=Green Beret Federal 20 A CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9226 NOI
** lat,long,datum=32.121008, -103.383572, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=40001AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=02-AUG-21
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40001A1 VOLUME 652488.26 3554992.609 0
SO SRCPARAM 40001A1 .00126 1 .47 .93
** NMED source ID=40001EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=02-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40001E3 VOLUME 652495.796 3554999.63 0
SO SRCPARAM 40001E3 .00126 4.57 .47 .93
**********END OF 40001: Green Beret Federal 20 A CTB
INFO**********************************
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**********************************************************
** 16.58km away. Facility ID=40935 Name=Haflinger 22 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.12009, -103.663724, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.81tons/year
*****************Facility sources: ****************************
** NMED source ID=40935AREA1 Facility's ID=ROAD-1
** Description=ROAD-1 Unpaved Haul Roads Construction date=14-MAR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40935A1 VOLUME 626058.627 3554528.639 0
SO SRCPARAM 40935A1 .0277196 10 20 9.3
** NMED source ID=40935EQPT2 Facility's ID=HT-1
** Description=HT-1 Heater Treater Construction date=14-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40935E2 VOLUME 626066.163 3554535.66 0
SO SRCPARAM 40935E2 .0037799 9.14 .47 .93
** NMED source ID=40935EQPT3 Facility's ID=HT-2
** Description=HT-2 Heater Treater Construction date=14-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40935E3 VOLUME 626059.377 3554539.212 0
SO SRCPARAM 40935E3 .0037799 9.14 .47 .93
** NMED source ID=40935EQPT15 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engnine Construction date=25-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40935E15 POINT 626051.78 3554537.12 0
SO SRCPARAM 40935E15 .0037799 3.6 846.48 20.01 .17
** NMED source ID=40935EQPT16 Facility's ID=ENG 2
** Description=ENG 1 Gas Lift Engnine Construction date=01-JAN-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40935E16 POINT 626047.539 3554530.22 0
SO SRCPARAM 40935E16 .0037799 3.6 846.48 20.01 .17
**********END OF 40935: Haflinger 22 CTB 2 INFO**********************************
**********************************************************
** 16.61km away. Facility ID=39523 Name=Donkey Kong 1 Fed Com CTB 1
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.330985, -103.419713, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.39tons/year
*****************Facility sources: ****************************
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** NMED source ID=39523EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 1.0 MMbtu/hr Construction date=08-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3240hr/yr, 24hr/day
SO LOCATION 39523E3 POINT 648735.985 3578221.065 0
SO SRCPARAM 39523E3 .00126 3.96 588.71 2.26 .3
** NMED source ID=39523EQPT12 Facility's ID=ENG-2
** Description=Gas Lift Compressor Engine Construction date=26-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39523E12 POINT 648743.521 3578228.086 0
SO SRCPARAM 39523E12 .0037799 4.27 857.59 55.53 .1
** NMED source ID=39523EQPT27 Facility's ID=ENG-1
** Description=Gas Lift Compressor Engine Construction date=18-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39523E27 POINT 648736.735 3578231.638 0
SO SRCPARAM 39523E27 .0062999 5.18 772.59 41.48 .25
**********END OF 39523: Donkey Kong 1 Fed Com CTB 1
INFO**********************************
************************************************************
** 16.68km away. Facility ID=40557 Name=Battle Axe Compressor Station
** Company ID=13580 Name=ET Gathering & Processing LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.061667, -103.503879, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=4.3tons/year
*****************Facility sources: ****************************
** NMED source ID=40557EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=02-AUG-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E1 POINT 641229.02 3548250.058 0
SO SRCPARAM 40557E1 .0239396 8.33 729.26 30.72 .56
** NMED source ID=40557EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=02-AUG-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E2 POINT 641236.556 3548257.079 0
SO SRCPARAM 40557E2 .0239396 8.33 729.26 30.72 .56
** NMED source ID=40557EQPT4 Facility's ID=GEN-1
** Description=Generator Construction date=02-AUG-22
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E4 POINT 641229.77 3548260.631 0
```

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SO SRCPARAM 40557E4 .0050399 2.13 977.59 80.8 .09
** NMED source ID=40557EQPT8 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=23-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E8 POINT 641222.173 3548258.539 0
SO SRCPARAM 40557E8 .0239396 8.33 718.15 30.91 .56
** NMED source ID=40557EQPT9 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=23-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E9 POINT 641217.932 3548251.639 0
SO SRCPARAM 40557E9 .0239396 8.33 718.15 30.91 .56
** NMED source ID=40557EQPT10 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=23-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E10 POINT 641219.584 3548243.485 0
SO SRCPARAM 40557E10 .0239396 8.33 718.15 30.91 .56
**********END OF 40557: Battle Axe Compressor Station
INFO************************************
************************************************************
** 16.74km away. Facility ID=36484 Name=Coachman Fee Com 4H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6695 NOI
** lat,long,datum=32.122625, -103.3798, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=36484AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=01-AUG-15
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36484A1 VOLUME 652841.443 3555177.222 0
SO SRCPARAM 36484A1 .00126 1 .47 .93
** NMED source ID=36484EQPT5 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 36484E5 VOLUME 652848.979 3555184.243 0
SO SRCPARAM 36484E5 .0005796 6.71 .47 .93
**********END OF 36484: Coachman Fee Com 4H Battery
INFO************************************
************************************************************
** 16.78km away. Facility ID=5138 Name=Gin and Tectonic Federal 5N CTB
** Company ID=11135 Name=COG Operating LLC
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.242271, -103.69808, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.94tons/year
*****************Facility sources: ******************************
** NMED source ID=5138AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=13-JUN-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138A1 VOLUME 622653.431 3568033.71 0
SO SRCPARAM 5138A1 .0005796 1 .47 .93
** NMED source ID=5138EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=13-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E1 POINT 622660.967 3568040.731 0
SO SRCPARAM 5138E1 .0037799 4.27 853.15 25.05 .15
** NMED source ID=5138EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=13-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E2 POINT 622654.181 3568044.283 0
SO SRCPARAM 5138E2 .0037799 4.27 853.15 25.05 .15
** NMED source ID=5138EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=13-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E3 POINT 622646.584 3568042.191 0
SO SRCPARAM 5138E3 .0037799 4.27 805.93 21.79 .15
** NMED source ID=5138EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=13-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E4 POINT 622642.343 3568035.291 0
SO SRCPARAM 5138E4 .0037799 4.27 805.93 21.79 .15
** NMED source ID=5138EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=13-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E5 POINT 622643.995 3568027.137 0
SO SRCPARAM 5138E5 .0037799 4.27 846.48 25.09 .15
** NMED source ID=5138EQPT6 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=13-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E6 POINT 622650.944 3568022.175 0
SO SRCPARAM 5138E6 .0037799 4.27 846.48 25.09 .15
** NMED source ID=5138EQPT9 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=13-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E9 VOLUME 622659.627 3568023.317 0
SO SRCPARAM 5138E9 .00126 4.57 .47 .93
** NMED source ID=5138EQPT10 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=13-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5138E10 VOLUME 622665.337 3568030.245 0
SO SRCPARAM 5138E10 .00126 4.57 .47 .93
**********END OF 5138: Gin and Tectonic Federal 5N CTB
INFO**********************************
************************************************************
** 16.79km away. Facility ID=38548 Name=Pegasus 23-35-16 Battery
** Company ID=14164 Name=Marlin Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.298433, -103.37894, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.43tons/year
*****************Facility sources: ******************************
** NMED source ID=38548ACT 1 Facility's ID=HR-1
** Description=Haul Road Emissions Construction date=03-AUG-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38548@1 VOLUME 652628.558 3574669.476 0
SO SRCPARAM 38548@1 .0050399 1 .47 .93
** NMED source ID=38548EQPT1 Facility's ID=HT-1
** Description=Heater Treater, 3.0 MMBtu/hr Construction date=04-NOV-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38548E1 VOLUME 652636.094 3574676.497 0
SO SRCPARAM 38548E1 .0037799 6.1 .47 .93
** NMED source ID=38548EQPT10 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=03-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38548E10 POINT 652629.308 3574680.049 0
SO SRCPARAM 38548E10 .0037799 2.44 919.82 61.87 .09
** NMED source ID=38548EQPT11 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=03-AUG-23
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38548E11 POINT 652621.711 3574677.957 0
SO SRCPARAM 38548E11 .0037799 2.44 919.82 61.87 .09
**********END OF 38548: Pegasus 23-35-16 Battery
INFO**********************************
************************************************************
** 16.81km away. Facility ID=38688 Name=Devon - Gaucho Unit 30CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.360367, -103.501806, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.15tons/year
*****************Facility sources: ******************************
** NMED source ID=38688EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 - 1.0 mm btu/h Construction date=18-NOV-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38688E2 POINT 640963.062 3581367.446 0
SO SRCPARAM 38688E2 .00126 9.14 708.71 2.82 .34
** NMED source ID=38688EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 - 1.0 mm btu/h Construction date=18-NOV-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38688E3 POINT 640970.598 3581374.467 0
SO SRCPARAM 38688E3 .00126 9.14 708.71 2.82 .34
** NMED source ID=38688RPNT2 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=18-NOV-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38688R2 VOLUME 640963.812 3581378.019 0
SO SRCPARAM 38688R2 .0277196 10 20 9.3
**********END OF 38688: Devon - Gaucho Unit 30CTB 1
INFO**********************************
************************************************************
** 16.86km away. Facility ID=33175 Name=Cotton Draw 9L Federal 2H, 3H, 4H and 5H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=5391 NOI
** lat,long,datum=32.13844, -103.6812, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.48tons/year
*****************Facility sources: ******************************
** NMED source ID=33175ACT 2 Facility's ID=HR
** Description=Haul Road Construction date=08-AUG-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33175@2 VOLUME 624384.981 3556542.56 0
SO SRCPARAM 33175@2 .0113398 10 10 9.3
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** NMED source ID=33175EQPT3 Facility's ID=H1
** Description=2.0 MMBTU Heater Treater Construction date=03-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8375hr/yr, 23hr/day
SO LOCATION 33175E3 POINT 624392.517 3556549.581 0
SO SRCPARAM 33175E3 .00126 4.57 477.59 4.05 .15
** NMED source ID=33175EQPT4 Facility's ID=H2
** Description=2.0 MMBTU Heater Treater Construction date=03-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8375hr/yr, 23hr/day
SO LOCATION 33175E4 POINT 624385.731 3556553.133 0
SO SRCPARAM 33175E4 .00126 4.57 477.59 4.05 .15
** NMED source ID=33175EQPT17 Facility's ID=ENG7
** Description=Engine Construction date=01-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6827hr/yr, 19hr/day
SO LOCATION 33175E17 POINT 624378.134 3556551.041 0
SO SRCPARAM 33175E17 .0088199 5.49 722.04 37.43 .25
**********END OF 33175: Cotton Draw 9L Federal 2H, 3H, 4H and 5H
INFO**********************************
**************************************************************
** 16.86km away. Facility ID=40825 Name=Floofy Cat 21 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.285547, -103.679507, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.44tons/year
*****************Facility sources: ****************************
** NMED source ID=40825AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=08-DEC-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40825A1 VOLUME 624344.286 3572852.649 0
SO SRCPARAM 40825A1 .0277196 10 20 9.3
** NMED source ID=40825EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 EQ001456906 Construction date=08-DEC-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40825E2 VOLUME 624351.822 3572859.67 0
SO SRCPARAM 40825E2 .00252 9.14 .47 .93
** NMED source ID=40825EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 EQ001456946 Construction date=08-DEC-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40825E3 VOLUME 624345.036 3572863.222 0
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SO SRCPARAM 40825E3 .00252 9.14 .47 .93
** NMED source ID=40825EQPT16 Facility's ID=ENG 1
** Description=ENG 1 Compressor Engine Construction date=11-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40825E16 POINT 624337.439 3572861.13 0
SO SRCPARAM 40825E16 .0239396 5.85 772.59 37.4 .27
** NMED source ID=40825EQPT17 Facility's ID=ENG 2
** Description=ENG 2 Compressor Engine Construction date=11-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40825E17 POINT 624333.198 3572854.23 0
SO SRCPARAM 40825E17 .0075599 4.39 1000.37 17.38 .26
**********END OF 40825: Floofy Cat 21 CTB 2
INFO***********************************
************************************************************
** 16.87km away. Facility ID=40010 Name=Fez Federal 9 P CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9242 NOI
** lat,long,datum=32.139842, -103.365547, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=40010AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=01-NOV-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40010A1 VOLUME 654157.19 3557106.29 0
SO SRCPARAM 40010A1 .00126 1 .47 .93
** NMED source ID=40010EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40010E3 VOLUME 654164.726 3557113.311 0
SO SRCPARAM 40010E3 .0138598 4.57 .47 .93
** NMED source ID=40010EQPT4 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=01-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40010E4 VOLUME 654157.94 3557116.863 0
SO SRCPARAM 40010E4 .00126 4.57 .47 .93
**********END OF 40010: Fez Federal 9 P CTB
INFO***********************************
************************************************************
** 16.88km away. Facility ID=38633 Name=Duck Hunt 1 State Com CTB
** Company ID=13537 Name=Permian Resources
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.332814, -103.417714, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.49tons/year
*****************Facility sources: ******************************
** NMED source ID=38633EQPT9 Facility's ID=HT-1
** Description=Heater Treater (1MMBtu/h) Construction date=22-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8592hr/yr, 24hr/day
SO LOCATION 38633E9 VOLUME 648921.155 3578426.617 0
SO SRCPARAM 38633E9 .00126 3.96 .47 .93
** NMED source ID=38633EQPT10 Facility's ID=HT-2
** Description=Heater Treater (1MMBtu/h) Construction date=22-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8592hr/yr, 24hr/day
SO LOCATION 38633E10 VOLUME 648928.691 3578433.638 0
SO SRCPARAM 38633E10 .00126 3.96 .47 .93
** NMED source ID=38633EQPT11 Facility's ID=ENG-1
** Description=Gas Lift Compressor Engine (1380 hp) Construction date=22-MAR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8592hr/yr, 24hr/day
SO LOCATION 38633E11 POINT 648921.905 3578437.19 0
SO SRCPARAM 38633E11 .0125998 5.49 722.59 51.85 .3
**********END OF 38633: Duck Hunt 1 State Com CTB
INFO**********************************
************************************************************
** 16.91km away. Facility ID=39481 Name=Rodney Robinson North Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.340411, -103.617097, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.33tons/year
*****************Facility sources: ******************************
** NMED source ID=39481AREA1 Facility's ID=HR-1
** Description=HR-1 Construction date=08-APR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39481A1 VOLUME 630143.121 3579009.051 0
SO SRCPARAM 39481A1 .0214197 10 20 9.3
** NMED source ID=39481EQPT17 Facility's ID=HT-1
** Description=Heater Treater Construction date=08-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39481E17 POINT 630150.657 3579016.072 0
SO SRCPARAM 39481E17 .00126 6.1 533.15 2.11 .2
** NMED source ID=39481EQPT18 Facility's ID=HT-2
** Description=Heater Treater Construction date=08-APR-20
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39481E18 POINT 630143.871 3579019.624 0
SO SRCPARAM 39481E18 .00126 6.1 533.15 2.11 .2
** NMED source ID=39481EQPT19 Facility's ID=HT-3
** Description=Heater Treater Construction date=08-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39481E19 POINT 630136.274 3579017.532 0
SO SRCPARAM 39481E19 .00126 6.1 533.15 2.11 .2
** NMED source ID=39481EQPT20 Facility's ID=HT-4
** Description=Heater Treater Construction date=08-APR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39481E20 POINT 630132.033 3579010.632 0
SO SRCPARAM 39481E20 .00126 6.1 533.15 2.11 .2
** NMED source ID=39481EQPT31 Facility's ID=ENG-1
** Description=CAT G3508ULB 690 HP Construction date=09-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39481E31 POINT 630133.685 3579002.478 0
SO SRCPARAM 39481E31 .00126 6.4 809.82 41.45 .25
** NMED source ID=39481EQPT32 Facility's ID=ENG 3
** Description=188 HP, Cummins G855 Construction date=29-SEP-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39481E32 POINT 630140.634 3578997.516 0
SO SRCPARAM 39481E32 .0037799 6.1 919.82 8.13 .25
** NMED source ID=39481EQPT33 Facility's ID=ENG-2
** Description=92 HP, GM Vortec 5.7L VRU Engine Construction date=09-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5352hr/yr, 24hr/day
SO LOCATION 39481E33 POINT 630149.317 3578998.658 0
SO SRCPARAM 39481E33 .00126 2.74 922.04 38.61 .1
** NMED source ID=39481EQPT34 Facility's ID=ENG-4
** Description=CAT 3516 1380HP Construction date=05-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39481E34 POINT 630155.027 3579005.586 0
SO SRCPARAM 39481E34 .0125998 6.1 713.71 50.99 .3
** NMED source ID=39481EQPT35 Facility's ID=ENG-5
** Description=188 HP, Cummins G855 Construction date=01-DEC-22
** SCC=20200253
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39481E35 POINT 630154.462 3579014.767 0
SO SRCPARAM 39481E35 .0037799 6.1 919.82 8.13 .25
** NMED source ID=39481EQPT36 Facility's ID=GEN-1
** Description=268-hp PSI 11.1L generator Construction date=31-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39481E36 POINT 630147.627 3579021.245 0
SO SRCPARAM 39481E36 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=39481EQPT37 Facility's ID=ENG-6
** Description=92 HP, GM Vortec 5.7L VRU Engine Construction date=31-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39481E37 POINT 630137.991 3579021.322 0
SO SRCPARAM 39481E37 .00126 2.74 922.04 38.61 .1
**********END OF 39481: Rodney Robinson North Facility
INFO**********************************
************************************************************
** 16.92km away. Facility ID=39219 Name=Mewbourne - Jennings 27 W0AP Fed Com 3H
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.108355, -103.656816, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.13tons/year
*****************Facility sources: ******************************
** NMED source ID=39219EQPT1 Facility's ID=ENG1
** Description=Compressor Engine (Caterpillar 3306TA) Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39219E1 POINT 626726.567 3553235.826 0
SO SRCPARAM 39219E1 .0037799 4.27 834.82 35.72 .13
** NMED source ID=39219EQPT2 Facility's ID=ENG2
** Description=Compressor Engine (Caterpillar 3306NA) Construction date=01-JAN-20
** SCC=31000312
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39219E2 POINT 626734.103 3553242.847 0
SO SRCPARAM 39219E2 .0037799 4.27 834.82 35.72 .13
** NMED source ID=39219EQPT3 Facility's ID=ENG3
** Description=Compressor Engine (Caterpillar 3306TA) Construction date=01-JAN-20
** SCC=31000312
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39219E3 POINT 626727.317 3553246.399 0
SO SRCPARAM 39219E3 .0037799 4.27 834.82 35.72 .13
** NMED source ID=39219EQPT7 Facility's ID=HT1
** Description=Heater Treater Construction date=01-JAN-20
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39219E7 VOLUME 626719.72 3553244.307 0
SO SRCPARAM 39219E7 .00126 4.57 .47 .93
** NMED source ID=39219EQPT8 Facility's ID=HT2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39219E8 VOLUME 626715.479 3553237.407 0
SO SRCPARAM 39219E8 .00126 4.57 .47 .93
** NMED source ID=39219EQPT9 Facility's ID=HT3
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39219E9 VOLUME 626717.131 3553229.253 0
SO SRCPARAM 39219E9 .00126 4.57 .47 .93
** NMED source ID=39219EQPT23 Facility's ID=ENG-4
** Description=Compressor Engine (Caterpillar 3306TA) Construction date=08-DEC-21
** SCC=31000312
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39219E23 POINT 626724.08 3553224.291 0
SO SRCPARAM 39219E23 .0037799 4.27 834.82 35.72 .13
** NMED source ID=39219EQPT24 Facility's ID=ENG-5
** Description=Compressor Engine (Caterpillar 3306TA) Construction date=08-DEC-21
** SCC=31000312
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39219E24 POINT 626732.763 3553225.433 0
SO SRCPARAM 39219E24 .0125998 7.32 707.04 29.11 .4
**********END OF 39219: Mewbourne - Jennings 27 W0AP Fed Com 3H
INFO**********************************
************************************************************
** 16.98km away. Facility ID=38691 Name=Mortal Kombat 36 State Com No502H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.341367, -103.431026, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.25tons/year
*****************Facility sources: ******************************
** NMED source ID=38691EQPT10 Facility's ID=H-1
** Description=0.5 MMBtu/h Heater Treater Construction date=09-SEP-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4872hr/yr, 24hr/day
SO LOCATION 38691E10 VOLUME 647654.231 3579356.423 0
SO SRCPARAM 38691E10 .0005796 6.4 .47 .93
** NMED source ID=38691EQPT11 Facility's ID=ENG-1
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** Description=Compressor Engine Construction date=27-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38691E11 POINT 647661.767 3579363.444 0
SO SRCPARAM 38691E11 .00252 4.27 892.04 38.19 .1
** NMED source ID=38691RPNT3 Facility's ID=HAUL
** Description=Haul Road Construction date=09-SEP-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38691R3 VOLUME 647654.981 3579366.996 0
SO SRCPARAM 38691R3 .0075599 10 10 9.3
**********END OF 38691: Mortal Kombat 36 State Com No502H
INFO**********************************
************************************************************
** 16.98km away. Facility ID=34697 Name=Cotton Draw 32 State Fed Com 3H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5997 NOI
** lat,long,datum=32.172997, -103.698639, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=34697AREA2 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 34697A2 VOLUME 622693.748 3560353.457 0
SO SRCPARAM 34697A2 .0277196 10 20 9.3
** NMED source ID=34697EQPT31 Facility's ID=HT-1
** Description=Heater_EQ000173522 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8736hr/yr, 24hr/day
SO LOCATION 34697E31 VOLUME 622701.284 3560360.478 0
SO SRCPARAM 34697E31 .0005796 9.14 .47 .93
**********END OF 34697: Cotton Draw 32 State Fed Com 3H
INFO**********************************
************************************************************
** 16.99km away. Facility ID=39737 Name=Maxus Horizontal CTB
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=8993 NOI
** lat,long,datum=32.353536, -103.460781, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=39737EQPT7 Facility's ID=HT-01
** Description=Heater Treater Construction date=13-OCT-23
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39737E7 VOLUME 644834.334 3580664.902 0
SO SRCPARAM 39737E7 .00126 7.32 .47 .93
**********END OF 39737: Maxus Horizontal CTB
INFO************************************
************************************************************
** 17km away. Facility ID=37973 Name=Coriander AOC 1-12 State Com 1H-5H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.338631, -103.622239, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.86tons/year
*****************Facility sources: ******************************
** NMED source ID=37973AREA1 Facility's ID=HR
** Description=Haul Road Construction date=10-AUG-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973A1 VOLUME 629661.713 3578805.478 0
SO SRCPARAM 37973A1 .0113398 10 10 9.3
** NMED source ID=37973EQPT1 Facility's ID=ENG1
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=20200252
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7593hr/yr, 21hr/day
SO LOCATION 37973E1 POINT 629669.249 3578812.499 0
SO SRCPARAM 37973E1 .0075599 4.57 805.93 109.48 .15
** NMED source ID=37973EQPT2 Facility's ID=Flare1
** Description=Process Flare Construction date=01-JAN-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7593hr/yr, 21hr/day
SO LOCATION 37973E2 POINT 629662.463 3578816.051 0
SO SRCPARAM 37973E2 .00126 4.57 1273 20 20.806
** NMED source ID=37973EQPT15 Facility's ID=HTR-1
** Description=Heater Treater Construction date=10-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973E15 VOLUME 629654.866 3578813.959 0
SO SRCPARAM 37973E15 .00126 4.57 .47 .93
** NMED source ID=37973EQPT16 Facility's ID=HTR-2
** Description=Heater Treater Construction date=10-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973E16 VOLUME 629650.625 3578807.059 0
SO SRCPARAM 37973E16 .00126 4.57 .47 .93
** NMED source ID=37973EQPT20 Facility's ID=Flare1 SSM
** Description=Process Flare Construction date=08-NOV-18
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973E20 POINT 629652.277 3578798.905 0
SO SRCPARAM 37973E20 .0069047 4.57 1273 20 3.604
** NMED source ID=37973EQPT21 Facility's ID=GEN1
** Description=Generator Construction date=29-NOV-23
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973E21 POINT 629659.226 3578793.943 0
SO SRCPARAM 37973E21 .00252 3.11 793.15 42.31 .15
** NMED source ID=37973EQPT22 Facility's ID=GEN2
** Description=Generator Construction date=29-NOV-23
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973E22 POINT 629667.909 3578795.085 0
SO SRCPARAM 37973E22 .00252 3.11 793.15 42.31 .15
** NMED source ID=37973RPNT4 Facility's ID=SSM
** Description=SSM Construction date=10-AUG-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973R4 VOLUME 629673.619 3578802.013 0
SO SRCPARAM 37973R4 .0005796 1 .47 .93
**********END OF 37973: Coriander AOC 1-12 State Com 1H-5H
INFO**********************************
************************************************************
** 17.01km away. Facility ID=37367 Name=Smalls Federal 1H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7061 NOI
** lat,long,datum=32.355819, -103.467828, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=37367AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=15-DEC-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37367A1 VOLUME 644167.549 3580908.494 0
SO SRCPARAM 37367A1 .0002898 1 .47 .93
** NMED source ID=37367EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37367E4 VOLUME 644175.085 3580915.515 0
SO SRCPARAM 37367E4 .00126 4.57 .47 .93
** NMED source ID=37367EQPT6 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=15-DEC-23
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37367E6 VOLUME 644168.299 3580919.067 0
SO SRCPARAM 37367E6 .00126 4.57 .47 .93
**********END OF 37367: Smalls Federal 1H Battery
INFO************************************
************************************************************
** 17.01km away. Facility ID=40859 Name=Intrepid - 440TPH Screening Plant -
GCP2-9826
** Company ID=545 Name=Intrepid Potash New Mexico LLC
** SIC=1446 NAIC=212322   Permit=9826 GCP2
** lat,long,datum=32.121044, -103.377586, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=95tons/year
*****************Facility sources: ****************************
** NMED source ID=40859ACT 1 Facility's ID=GCP-2
** Description=Screening Facility Construction date=05-JAN-23
** SCC=30502501
** Potential operating rate=4380hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40859@1 VOLUME 653052.965 3555005.09 0
SO SRCPARAM 40859@1 5.4656672 10 430 9.3
SO EMISFACT 40859@1 HROFDY 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0
**********END OF 40859: Intrepid - 440TPH Screening Plant - GCP2-9826
INFO************************************
************************************************************
** 17.05km away. Facility ID=5991 Name=Catnip Everdeen Federal Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.312754, -103.658793, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.73tons/year
*****************Facility sources: ****************************
** NMED source ID=5991AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Road Construction date=05-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991A1 VOLUME 626257.24 3575893.046 0
SO SRCPARAM 5991A1 .0050399 1 .47 .93
** NMED source ID=5991EQPT2 Facility's ID=GEN-1
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E2 POINT 626264.776 3575900.067 0
SO SRCPARAM 5991E2 .0113398 4.51 805.37 227.72 .09
** NMED source ID=5991EQPT3 Facility's ID=GEN-2
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 5991E3 POINT 626257.99 3575903.619 0
SO SRCPARAM 5991E3 .0113398 4.51 805.37 227.72 .09
** NMED source ID=5991EQPT4 Facility's ID=GEN-3
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E4 POINT 626250.393 3575901.527 0
SO SRCPARAM 5991E4 .0113398 4.51 805.37 227.72 .09
** NMED source ID=5991EQPT5 Facility's ID=GEN-4
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E5 POINT 626246.152 3575894.627 0
SO SRCPARAM 5991E5 .0113398 4.51 805.37 227.72 .09
** NMED source ID=5991EQPT6 Facility's ID=GEN-5
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E6 POINT 626247.804 3575886.473 0
SO SRCPARAM 5991E6 .0075599 4.51 744.26 145.91 .09
** NMED source ID=5991EQPT7 Facility's ID=GEN-6
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E7 POINT 626254.753 3575881.511 0
SO SRCPARAM 5991E7 .0075599 4.51 744.26 145.91 .09
** NMED source ID=5991EQPT8 Facility's ID=GEN-7
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E8 POINT 626263.436 3575882.653 0
SO SRCPARAM 5991E8 .0075599 4.51 744.26 145.91 .09
** NMED source ID=5991EQPT9 Facility's ID=GEN-8
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E9 POINT 626269.146 3575889.581 0
SO SRCPARAM 5991E9 .0075599 4.51 744.26 145.91 .09
** NMED source ID=5991EQPT11 Facility's ID=HTR-1
** Description=Heater Treater Burner Construction date=05-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E11 VOLUME 626268.581 3575898.762 0
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SO SRCPARAM 5991E11 .00126 4.88 .47 .93
**********END OF 5991: Catnip Everdeen Federal Com CTB
INFO**********************************
************************************************************
** 17.07km away. Facility ID=37558 Name=Gem 36 State Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0818, -103.6222, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.24tons/year
*****************Facility sources: ****************************
** NMED source ID=37558AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=31-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37558A1 VOLUME 630030.406 3550333.218 0
SO SRCPARAM 37558A1 .0050399 1 .47 .93
** NMED source ID=37558EQPT9 Facility's ID=HT-1H
** Description=Heater Treater Construction date=31-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37558E9 VOLUME 630037.942 3550340.239 0
SO SRCPARAM 37558E9 .0005796 5.18 .47 .93
** NMED source ID=37558EQPT10 Facility's ID=HT-1
** Description=Heater Treater Construction date=31-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37558E10 VOLUME 630031.156 3550343.791 0
SO SRCPARAM 37558E10 .0005796 5.18 .47 .93
** NMED source ID=37558EQPT11 Facility's ID=HT-2
** Description=Heater Treater Construction date=31-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37558E11 VOLUME 630023.559 3550341.699 0
SO SRCPARAM 37558E11 .00126 5.18 .47 .93
**********END OF 37558: Gem 36 State Com CTB
INFO**********************************
************************************************************
** 17.07km away. Facility ID=40222 Name=Maxus West CTB
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=9427 NOI
** lat,long,datum=32.354583, -103.461556, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=40222EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=13-OCT-23
** SCC=10200603
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40222E3 VOLUME 644759.734 3580779.93 0
SO SRCPARAM 40222E3 .00126 7.32 .47 .93
** NMED source ID=40222EQPT4 Facility's ID=HT-02
** Description=Heater Treater Construction date=13-OCT-23
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40222E4 VOLUME 644767.27 3580786.951 0
SO SRCPARAM 40222E4 .00126 7.32 .47 .93
**********END OF 40222: Maxus West CTB INFO************************************
************************************************************
** 17.09km away. Facility ID=37593 Name=EOG - Foghorn/Leghorn 32 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.354867, -103.585775, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.47tons/year
*****************Facility sources: ****************************
** NMED source ID=37593AREA1 Facility's ID=Haul
** Description=Haul Roads Construction date=24-OCT-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8500hr/yr, 24hr/day
SO LOCATION 37593A1 VOLUME 633069.877 3580650.189 0
SO SRCPARAM 37593A1 .0050399 1 .47 .93
** NMED source ID=37593EQPT16 Facility's ID=Heater-1
** Description=0.75 MMBtu/hr Separator Heater Construction date=22-NOV-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8500hr/yr, 24hr/day
SO LOCATION 37593E16 VOLUME 633077.413 3580657.21 0
SO SRCPARAM 37593E16 .00126 5.18 .47 .93
** NMED source ID=37593EQPT18 Facility's ID=ENG-1
** Description=Ajax DCP-540 LE Compressor Engine Construction date=24-OCT-18
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37593E18 POINT 633070.627 3580660.762 0
SO SRCPARAM 37593E18 .0251996 7.62 567.59 12.41 .44
** NMED source ID=37593EQPT19 Facility's ID=ENG-2
** Description=Ajax DCP-600 Compressor Engine Construction date=24-OCT-18
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37593E19 POINT 633063.03 3580658.67 0
SO SRCPARAM 37593E19 .0302395 7.62 587.04 12.62 .44
** NMED source ID=37593EQPT20 Facility's ID=ENG-3
** Description=Ajax DCP-2801LE Compressor Engine Construction date=24-OCT-18
** SCC=31000206
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37593E20 POINT 633058.789 3580651.77 0
SO SRCPARAM 37593E20 .0100798 6.4 574.82 8.24 .34
**********END OF 37593: EOG - Foghorn/Leghorn 32 State CTB
INFO**********************************
************************************************************
** 17.11km away. Facility ID=38359 Name=Dominator Compressor Station
** Company ID=13580 Name=ET Gathering & Processing LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.057097, -103.533411, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=5.25tons/year
*****************Facility sources: ******************************
** NMED source ID=38359EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3608A4 2500 hp compressor engine Construction
date=25-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6678hr/yr, 24hr/day
SO LOCATION 38359E1 POINT 638447.908 3547705.159 0
SO SRCPARAM 38359E1 .0239396 8.21 728.71 30.82 .56
** NMED source ID=38359EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3608A4 2500 hp compressor engine Construction
date=25-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6916hr/yr, 24hr/day
SO LOCATION 38359E2 POINT 638455.444 3547712.18 0
SO SRCPARAM 38359E2 .0239396 8.21 728.71 30.82 .56
** NMED source ID=38359EQPT3 Facility's ID=ENG-3
** Description=Caterpillar G3608A4 2500 hp compressor engine Construction
date=25-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7159hr/yr, 24hr/day
SO LOCATION 38359E3 POINT 638448.658 3547715.732 0
SO SRCPARAM 38359E3 .0239396 8.21 728.71 30.82 .56
** NMED source ID=38359EQPT4 Facility's ID=ENG-4
** Description=Caterpillar G3608A4 2500 hp compressor engine Construction
date=25-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6481hr/yr, 24hr/day
SO LOCATION 38359E4 POINT 638441.061 3547713.64 0
SO SRCPARAM 38359E4 .0239396 8.21 728.71 30.82 .56
** NMED source ID=38359EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=26-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 38359E6 POINT 638436.82 3547706.74 0
SO SRCPARAM 38359E6 .0226796 8.23 732.04 31.39 .56
** NMED source ID=38359EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=26-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38359E7 POINT 638438.472 3547698.586 0
SO SRCPARAM 38359E7 .0239396 8.23 718.15 31.06 .56
** NMED source ID=38359EQPT8 Facility's ID=GEN-2
** Description=Natural Gas Generator Construction date=26-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38359E8 POINT 638445.421 3547693.624 0
SO SRCPARAM 38359E8 .0037799 3.05 263.05 53.1 .13
** NMED source ID=38359EQPT9 Facility's ID=GEN-3
** Description=Natural Gas Generator Construction date=26-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38359E9 POINT 638454.104 3547694.766 0
SO SRCPARAM 38359E9 .0075599 3.05 1023.15 149.66 .1
**********END OF 38359: Dominator Compressor Station
INFO**********************************
************************************************************
** 17.14km away. Facility ID=39996 Name=Montera Federal 10 M CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9219 NOI
** lat,long,datum=32.139414, -103.362542, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=39996AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=26-OCT-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39996A1 VOLUME 654441.369 3557063.147 0
SO SRCPARAM 39996A1 .0002898 1 .47 .93
** NMED source ID=39996EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=18-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39996E3 VOLUME 654448.905 3557070.168 0
SO SRCPARAM 39996E3 .00126 4.57 .47 .93
**********END OF 39996: Montera Federal 10 M CTB
INFO**********************************
************************************************************
** 17.21km away. Facility ID=39543 Name=Pac Man 36 Fed Com Battery
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** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.341629, -103.426965, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.53tons/year
*****************Facility sources: ****************************
** NMED source ID=39543EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1.0 MMbtu/hr Construction date=21-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3192hr/yr, 24hr/day
SO LOCATION 39543E3 POINT 648036.022 3579391.077 0
SO SRCPARAM 39543E3 .00126 3.96 588.71 2.26 .3
** NMED source ID=39543EQPT11 Facility's ID=ENG-2
** Description=Gas lift compressor engine: CAT 3508;  670 hp Construction
date=10-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39543E11 POINT 648043.558 3579398.098 0
SO SRCPARAM 39543E11 .0062999 4.88 746.48 34.41 .25
** NMED source ID=39543EQPT12 Facility's ID=HT-2
** Description=Heater Treater 1.0 MMbtu/hr Construction date=10-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39543E12 POINT 648036.772 3579401.65 0
SO SRCPARAM 39543E12 .00126 3.96 588.71 2.26 .3
** NMED source ID=39543EQPT24 Facility's ID=ENG-3
** Description=Removed-Gas lift compressor engine: CAT 3306TA;  203 hp Construction
date=31-MAY-23
** SCC=20200253
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 39543E24 POINT 648029.175 3579399.558 0
SO SRCPARAM 39543E24 -.0176397 4.51 864.26 26.39 .1
** NMED source ID=39543EQPT25 Facility's ID=ENG-4
** Description=Removed-Gas lift compressor engine: CAT 3306TA;  203 hp Construction
date=31-MAY-23
** SCC=20200253
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 39543E25 POINT 648024.934 3579392.658 0
SO SRCPARAM 39543E25 -.0176397 4.51 864.26 26.39 .1
** NMED source ID=39543EQPT39 Facility's ID=ENG-1
** Description=Gas lift compressor engine: CAT CG137-8; 400 hp Construction
date=31-MAY-23
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39543E39 POINT 648026.586 3579384.504 0
SO SRCPARAM 39543E39 .0088199 4.51 802.59 15.1 .25
** NMED source ID=39543EQPT40 Facility's ID=ENG-3
** Description=Gas lift compressor engine: Waukesha L5794GSI Construction
date=31-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39543E40 POINT 648033.535 3579379.542 0
SO SRCPARAM 39543E40 .0264596 7.32 913.15 31.82 .36
**********END OF 39543: Pac Man 36 Fed Com Battery
INFO************************************
************************************************************
** 17.21km away. Facility ID=39073 Name=Devon - Grumpy Cat 15 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.309236, -103.664658, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.23tons/year
*****************Facility sources: ******************************
** NMED source ID=39073AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=16-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39073A1 VOLUME 625709.942 3575496.142 0
SO SRCPARAM 39073A1 .0277196 10 20 9.3
** NMED source ID=39073EQPT5 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater Construction date=16-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39073E5 VOLUME 625717.478 3575503.163 0
SO SRCPARAM 39073E5 .0037799 9.14 .47 .93
** NMED source ID=39073EQPT10 Facility's ID=LPC-1
** Description=188 hp Cummins G855 LPC Construction date=16-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39073E10 POINT 625710.692 3575506.715 0
SO SRCPARAM 39073E10 .0390594 2.99 919.82 22.4 .15
** NMED source ID=39073EQPT11 Facility's ID=LPC-2
** Description=188 hp Cummins G855 LPC Construction date=16-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39073E11 POINT 625703.095 3575504.623 0
SO SRCPARAM 39073E11 .0037799 2.99 919.82 22.4 .15
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** NMED source ID=39073EQPT12 Facility's ID=GEN-1
** Description=550 hp Doosan 21.9L Generator Construction date=16-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4896hr/yr, 24hr/day
SO LOCATION 39073E12 POINT 625698.854 3575497.723 0
SO SRCPARAM 39073E12 .0100798 2.99 1005.37 215.24 .09
** NMED source ID=39073EQPT13 Facility's ID=GEN-2
** Description=550 hp Doosan 21.9L Generator Construction date=16-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4896hr/yr, 24hr/day
SO LOCATION 39073E13 POINT 625700.506 3575489.569 0
SO SRCPARAM 39073E13 .0100798 2.99 1005.37 215.24 .09
**********END OF 39073: Devon - Grumpy Cat 15 CTB 2
INFO***********************************
************************************************************
** 17.32km away. Facility ID=39994 Name=Salado Draw 9 W0CN Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.062796, -103.581519, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.83tons/year
*****************Facility sources: ****************************
** NMED source ID=39994AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=13-FEB-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994A1 VOLUME 633897.731 3548276.235 0
SO SRCPARAM 39994A1 .0088199 10 10 9.3
** NMED source ID=39994EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=18-AUG-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994E1 POINT 633905.267 3548283.256 0
SO SRCPARAM 39994E1 .0075599 4.57 778.71 13.94 .26
** NMED source ID=39994EQPT7 Facility's ID=HT-01
** Description=Heater Treater Construction date=18-JUN-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994E7 VOLUME 633898.481 3548286.808 0
SO SRCPARAM 39994E7 .00252 4.57 .47 .93
** NMED source ID=39994EQPT8 Facility's ID=HT-02
** Description=Heater Treater Construction date=01-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994E8 VOLUME 633890.884 3548284.716 0
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SO SRCPARAM 39994E8 .00126 4.57 .47 .93
** NMED source ID=39994EQPT9 Facility's ID=HT-03
** Description=Heater Treater Construction date=01-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994E9 VOLUME 633886.643 3548277.816 0
SO SRCPARAM 39994E9 .00126 4.57 .47 .93
** NMED source ID=39994EQPT22 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=13-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994E22 POINT 633888.295 3548269.662 0
SO SRCPARAM 39994E22 .0050399 4.11 904.26 8.84 .27
** NMED source ID=39994EQPT23 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=13-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994E23 POINT 633895.244 3548264.7 0
SO SRCPARAM 39994E23 .0075599 4.42 989.82 70.41 .13
**********END OF 39994: Salado Draw 9 W0CN Fed Com 1H Battery
INFO************************************
************************************************************
** 17.35km away. Facility ID=38470 Name=Urraca Federal Com AV 24H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.325222, -103.648722, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=38470AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=13-JUL-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38470A1 VOLUME 627187.938 3577287.176 0
SO SRCPARAM 38470A1 .0002898 1 .47 .93
** NMED source ID=38470EQPT2 Facility's ID=HTR-01
** Description=Heater Treater Burner-01 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38470E2 VOLUME 627195.474 3577294.197 0
SO SRCPARAM 38470E2 .0005796 4.6 .47 .93
** NMED source ID=38470EQPT3 Facility's ID=ENG-01
** Description=Compressor Engine 1 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8462hr/yr, 24hr/day
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SO LOCATION 38470E3 POINT 627188.688 3577297.749 0
SO SRCPARAM 38470E3 .00252 4.51 846.48 36.15 .13
**********END OF 38470: Urraca Federal Com AV 24H
INFO**********************************
************************************************************
** 17.36km away. Facility ID=38053 Name=Thyme APY Federal
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.340169, -103.626389, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.1tons/year
*****************Facility sources: ******************************
** NMED source ID=38053AREA1 Facility's ID=HR
** Description=Haul Road Construction date=31-JUL-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053A1 VOLUME 629268.935 3578970.967 0
SO SRCPARAM 38053A1 .0113398 10 10 9.3
** NMED source ID=38053EQPT2 Facility's ID=Flare1
** Description=Flare Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7848hr/yr, 21hr/day
SO LOCATION 38053E2 POINT 629276.471 3578977.988 0
SO SRCPARAM 38053E2 .0037799 4.57 1273 20 2.632
** NMED source ID=38053EQPT11 Facility's ID=ENG1
** Description=Compressor Engine Construction date=31-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E11 POINT 629269.685 3578981.54 0
SO SRCPARAM 38053E11 .0050399 4.57 892.59 17.75 .15
** NMED source ID=38053EQPT12 Facility's ID=HTR1
** Description=Heater Treater Construction date=31-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E12 VOLUME 629262.088 3578979.448 0
SO SRCPARAM 38053E12 .00126 4.57 .47 .93
** NMED source ID=38053EQPT13 Facility's ID=HTR2
** Description=Heater Treater Construction date=31-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E13 VOLUME 629257.847 3578972.548 0
SO SRCPARAM 38053E13 .00126 4.57 .47 .93
** NMED source ID=38053EQPT22 Facility's ID=GEN1
** Description=Generator Construction date=29-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E22 POINT 629259.499 3578964.394 0
SO SRCPARAM 38053E22 .0037799 4.11 743.15 24.21 .3
** NMED source ID=38053EQPT23 Facility's ID=GEN2
** Description=Generator Construction date=29-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E23 POINT 629266.448 3578959.432 0
SO SRCPARAM 38053E23 .0037799 4.11 743.15 24.21 .3
** NMED source ID=38053EQPT24 Facility's ID=GEN3
** Description=Generator Construction date=03-JAN-24
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E24 POINT 629275.131 3578960.574 0
SO SRCPARAM 38053E24 .00126 1.8 572.59 15 .09
** NMED source ID=38053EQPT25 Facility's ID=Flare1 SSM
** Description=Flare Construction date=18-DEC-17
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E25 POINT 629280.841 3578967.502 0
SO SRCPARAM 38053E25 .0069047 4.57 1273 20 3.604
** NMED source ID=38053RPNT3 Facility's ID=SSM
** Description=SSM Construction date=31-JUL-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053R3 VOLUME 629280.276 3578976.683 0
SO SRCPARAM 38053R3 .0005796 1 .47 .93
**********END OF 38053: Thyme APY Federal INFO**********************************
************************************************************
** 17.36km away. Facility ID=39090 Name=EOG - Lobo Blanco 9 Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0592, -103.4795, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.3tons/year
*****************Facility sources: ****************************
** NMED source ID=39090AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Roads Construction date=22-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39090A1 VOLUME 643534.408 3548008.735 0
SO SRCPARAM 39090A1 .0125998 10 10 9.3
**********END OF 39090: EOG - Lobo Blanco 9 Fed CTB
INFO**********************************
************************************************************
** 17.42km away. Facility ID=38505 Name=Raptor Tank Battery
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** Company ID=13675 Name=EnLink Delaware Crude Pipeline LLC
** SIC=1311 NAIC=21112    Permit=7842 NOI
** lat,long,datum=32.298567, -103.676875, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.43tons/year
*****************Facility sources: ****************************
** NMED source ID=38505AREA1 Facility's ID=UR-01
** Description=Unpaved Haul Road-particulates Construction date=20-MAR-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38505A1 VOLUME 624574.337 3574299.106 0
SO SRCPARAM 38505A1 .0125998 10 10 9.3
** NMED source ID=38505EQPT4 Facility's ID=GEN-1B
** Description=Generator Engine 1B Cummins C2000 N6CB 2764 hp Construction
date=20-MAR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2016hr/yr, 24hr/day
SO LOCATION 38505E4 POINT 624581.873 3574306.127 0
SO SRCPARAM 38505E4 .0264596 5.52 737.04 14.81 .21
** NMED source ID=38505EQPT7 Facility's ID=GEN-1
** Description=Generator Engine Cummins QSK60 1950 hp Construction date=20-MAR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38505E7 POINT 624575.087 3574309.679 0
SO SRCPARAM 38505E7 .0214197 4.51 748.15 72.02 .21
** NMED source ID=38505EQPT8 Facility's ID=GEN-2
** Description=Generator Engine Cummins QSK60 1950 hp Construction date=20-MAR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38505E8 POINT 624567.49 3574307.587 0
SO SRCPARAM 38505E8 .0214197 4.51 748.15 72.02 .21
**********END OF 38505: Raptor Tank Battery
INFO*************************************
************************************************************
** 17.43km away. Facility ID=37955 Name=Wicked 17 State Com No301H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3113, -103.3822, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.16tons/year
*****************Facility sources: ****************************
** NMED source ID=37955RPNT2 Facility's ID=HAUL
** Description=Haul Road Fugitives Construction date=20-NOV-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7980hr/yr, 24hr/day
SO LOCATION 37955R2 VOLUME 652300.05 3576091.363 0
SO SRCPARAM 37955R2 .0050399 1 .47 .93
```

**********END OF 37955: Wicked 17 State Com No301H
INFO**********
**********
** 17.44km away. Facility ID=38315 Name=OXY - Mesa Verde CTB
** Company ID=635 Name=OXY USA WTP Limited Partnership
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.212243, -103.709015, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.38tons/year
**********Facility sources: **********
** NMED source ID=38315EQPT2 Facility's ID=HTR-1
** Description=1.3 MMBtu/hr Heater Treater Construction date=06-JUN-18
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E2 VOLUME 621663.178 3564692.407 0
SO SRCPARAM 38315E2 .00126 4.57 .47 .93
** NMED source ID=38315EQPT3 Facility's ID=LH-1
** Description=Line Heater Construction date=06-JUN-18
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E3 VOLUME 621670.714 3564699.428 0
SO SRCPARAM 38315E3 .0037799 4.57 .47 .93
** NMED source ID=38315EQPT5 Facility's ID=HTR-3
** Description=1.3 MMBtu/hr Heater Construction date=06-JUN-18
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E5 VOLUME 621663.928 3564702.98 0
SO SRCPARAM 38315E5 .00126 4.57 .47 .93
** NMED source ID=38315EQPT19 Facility's ID=HTR-2
** Description=1.3 MMBtu/hr Heater Treater Construction date=06-JUN-18
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E19 VOLUME 621656.331 3564700.888 0
SO SRCPARAM 38315E19 .00126 4.57 .47 .93
** NMED source ID=38315EQPT26 Facility's ID=LH-2
** Description=4.0 MMBtu/hr Line Heater Construction date=06-JUN-18
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E26 VOLUME 621652.09 3564693.988 0
SO SRCPARAM 38315E26 .0037799 4.57 .47 .93
**********END OF 38315: OXY - Mesa Verde CTB
INFO**********
**********
** 17.45km away. Facility ID=39162 Name=Devon - Jayhawk 7 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown

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** lat,long,datum=32.054547, -103.506094, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.14tons/year
*****************Facility sources: ****************************
** NMED source ID=39162AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=04-OCT-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8088hr/yr, 24hr/day
SO LOCATION 39162A1 VOLUME 641030.836 3547457.838 0
SO SRCPARAM 39162A1 .0277196 10 20 9.3
**********END OF 39162: Devon - Jayhawk 7 CTB 3
INFO*********************************
************************************************************
** 17.49km away. Facility ID=40142 Name=Seawolf 12 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.053514, -103.527872, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.42tons/year
*****************Facility sources: ****************************
** NMED source ID=40142AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=15-SEP-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5136hr/yr, 24hr/day
SO LOCATION 40142A1 VOLUME 638976.265 3547315.068 0
SO SRCPARAM 40142A1 .0277196 10 20 9.3
** NMED source ID=40142EQPT9 Facility's ID=HT-1
** Description=Heater Treater 1  3.0 MMBtu/hr Construction date=15-SEP-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40142E9 VOLUME 638983.801 3547322.089 0
SO SRCPARAM 40142E9 .0037799 9.14 .47 .93
**********END OF 40142: Seawolf 12 CTB 1 INFO**********************************
************************************************************
** 17.5km away. Facility ID=35378 Name=Chincoteague 32 State CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6258 NOI
** lat,long,datum=32.167194, -103.702472, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.26tons/year
*****************Facility sources: ****************************
** NMED source ID=35378AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35378A1 VOLUME 622340.1 3559705.784 0
SO SRCPARAM 35378A1 .0277196 10 20 9.3
** NMED source ID=35378EQPT8 Facility's ID=Heater-1
** Description=Heater_EQ000064335 Construction date=01-JAN-20
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35378E8 VOLUME 622347.636 3559712.805 0
SO SRCPARAM 35378E8 .0005796 9.14 .47 .93
** NMED source ID=35378EQPT10 Facility's ID=LPC-3
** Description=Engine_EQ000064334 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35378E10 POINT 622340.85 3559716.357 0
SO SRCPARAM 35378E10 .00252 2.68 922.04 67.27 .08
** NMED source ID=35378EQPT12 Facility's ID=ENG 2
** Description=Engine_EQ000173961 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35378E12 POINT 622333.253 3559714.265 0
SO SRCPARAM 35378E12 .0037799 3.6 853.15 19.79 .17
** NMED source ID=35378EQPT21 Facility's ID=Heater-2
** Description=Heater_EQ000064336 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35378E21 VOLUME 622329.012 3559707.365 0
SO SRCPARAM 35378E21 .0005796 9.14 .47 .93
**********END OF 35378: Chincoteague 32 State CTB
INFO**********************************
************************************************************
** 17.51km away. Facility ID=38720 Name=Greyhound Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.354722, -103.449586, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.83tons/year
*****************Facility sources: ****************************
** NMED source ID=38720EQPT9 Facility's ID=RBL-1
** Description=Dehy Reboiler 0.75 MM BTU/h, w/ BTEX condenser Construction
date=01-APR-20
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8515hr/yr, 23hr/day
SO LOCATION 38720E9 POINT 645885.945 3580811.594 0
SO SRCPARAM 38720E9 .00126 3.05 588.71 1.98 .3
** NMED source ID=38720EQPT26 Facility's ID=ENG-10a
** Description=Caterpillar 3606A Construction date=01-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E26 POINT 645893.481 3580818.615 0
SO SRCPARAM 38720E26 .0163797 4.51 712.04 27.91 .51
```

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** NMED source ID=38720EQPT27 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E27 POINT 645886.695 3580822.167 0
SO SRCPARAM 38720E27 .0163797 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT28 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E28 POINT 645879.098 3580820.075 0
SO SRCPARAM 38720E28 .0163797 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT29 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E29 POINT 645874.857 3580813.175 0
SO SRCPARAM 38720E29 .0163797 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT30 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E30 POINT 645876.509 3580805.021 0
SO SRCPARAM 38720E30 .0163797 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT31 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E31 POINT 645883.458 3580800.059 0
SO SRCPARAM 38720E31 .0163797 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT32 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E32 POINT 645892.141 3580801.201 0
SO SRCPARAM 38720E32 .0163797 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT33 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E33 POINT 645897.851 3580808.129 0
SO SRCPARAM 38720E33 .0163797 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT36 Facility's ID=GEN-1
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** Description=Generator Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E36 POINT 645897.286 3580817.31 0
SO SRCPARAM 38720E36 .0050399 4.51 689.82 22.01 .21
** NMED source ID=38720EQPT37 Facility's ID=RBL-2
** Description=Dehy Reboiler 0.75MM BTU/hr, w/ BTEX condenser Construction
date=04-JAN-24
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E37 POINT 645890.451 3580823.788 0
SO SRCPARAM 38720E37 .00126 3.05 588.71 1.98 .3
** NMED source ID=38720EQPT38 Facility's ID=Trailer-1
** Description=Diesel-fired Heater Trailer Construction date=04-JAN-24
** SCC=31000205
** Potential operating rate=40hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E38 POINT 645880.815 3580823.865 0
SO SRCPARAM 38720E38 .00126 4.51 689.82 93.21 .21
** NMED source ID=38720RPNT3 Facility's ID=SSM
** Description=Startup Shutdown Maintenance Construction date=01-APR-20
** SCC=31000299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38720R3 POINT 645873.554 3580817.199 0
SO SRCPARAM 38720R3 .0005796 7 730 28 .3
**********END OF 38720: Greyhound Compressor Station
INFO**********************************
************************************************************
** 17.53km away. Facility ID=38459 Name=Montera Federal 23H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7853 NOI
** lat,long,datum=32.138158, -103.358606, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=38459AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=04-MAY-18
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38459A1 VOLUME 654814.771 3556929.553 0
SO SRCPARAM 38459A1 .0002898 1 .47 .93
** NMED source ID=38459EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38459E4 VOLUME 654822.307 3556936.574 0
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SO SRCPARAM 38459E4 .00126 4.57 .47 .93
**********END OF 38459: Montera Federal 23H Battery
INFO**********************************
************************************************************
** 17.57km away. Facility ID=37604 Name=Whirling Wind 14 North CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0533, -103.5398, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.07tons/year
*****************Facility sources: ****************************
** NMED source ID=37604AREA1 Facility's ID=HAUL
** Description=Haul Road Fugitives Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37604A1 VOLUME 637850.415 3547276.047 0
SO SRCPARAM 37604A1 .0002898 1 .47 .93
** NMED source ID=37604EQPT13 Facility's ID=HTR-1
** Description=Heater Treater Construction date=30-NOV-16
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37604E13 POINT 637857.951 3547283.068 0
SO SRCPARAM 37604E13 .00126 4.88 588.71 .01 1.22
** NMED source ID=37604EQPT18 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-17
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37604E18 POINT 637851.165 3547286.62 0
SO SRCPARAM 37604E18 .00126 4.88 588.71 .01 1.22
**********END OF 37604: Whirling Wind 14 North CTB
INFO**********************************
************************************************************
** 17.57km away. Facility ID=35138 Name=Ruby 2 State Com No. 601H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0672, -103.4458, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.63tons/year
*****************Facility sources: ****************************
** NMED source ID=35138EQPT3 Facility's ID=ENG-1
** Description=Gas Lift Compression Construction date=01-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8750hr/yr, 24hr/day
SO LOCATION 35138E3 POINT 646703.236 3548940.951 0
SO SRCPARAM 35138E3 .0151198 8.53 725.93 27.07 .52
** NMED source ID=35138EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35138E6 VOLUME 646710.772 3548947.972 0
SO SRCPARAM 35138E6 .00126 4.88 .47 .93
** NMED source ID=35138EQPT15 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35138E15 VOLUME 646703.986 3548951.524 0
SO SRCPARAM 35138E15 .00126 4.88 .47 .93
** NMED source ID=35138EQPT16 Facility's ID=HTR-3
** Description=Heater Treater Construction date=01-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35138E16 VOLUME 646696.389 3548949.432 0
SO SRCPARAM 35138E16 .00126 6.1 .47 .93
**********END OF 35138: Ruby 2 State Com No. 601H
INFO**********************************
************************************************************
** 17.61km away. Facility ID=38469 Name=Urraca Federal Com SB 4H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.325473, -103.652473, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.09tons/year
*****************Facility sources: ******************************
** NMED source ID=38469AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=13-JUL-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38469A1 VOLUME 626834.5 3577310.555 0
SO SRCPARAM 38469A1 .0002898 1 .47 .93
** NMED source ID=38469EQPT1 Facility's ID=HTR-01
** Description=Heater Treater Burner 1 Construction date=13-JUL-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38469E1 POINT 626842.036 3577317.576 0
SO SRCPARAM 38469E1 .0002898 4.6 533.15 3.79 .09
** NMED source ID=38469EQPT2 Facility's ID=ENG-01
** Description=Compressor Engine 1 Construction date=13-JUL-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3462hr/yr, 24hr/day
SO LOCATION 38469E2 POINT 626835.25 3577321.128 0
SO SRCPARAM 38469E2 .00252 4.51 846.48 36.15 .13
**********END OF 38469: Urraca Federal Com SB 4H
INFO**********************************
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** 17.68km away. Facility ID=39292 Name=Jayhawk 7 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=8596 NOI
** lat,long,datum=32.052389, -103.507286, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.83tons/year
*****************Facility sources: ******************************
** NMED source ID=39292EQPT2 Facility's ID=ENG 3
** Description=ENG 3 Engine Construction date=23-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39292E2 POINT 640921.604 3547217.045 0
SO SRCPARAM 39292E2 .0088199 3.05 710.93 36.06 .3
** NMED source ID=39292EQPT3 Facility's ID=ENG 4
** Description=ENG 4 Engine Construction date=23-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39292E3 POINT 640929.14 3547224.066 0
SO SRCPARAM 39292E3 .0075599 4.39 1000.37 17.38 .26
** NMED source ID=39292EQPT4 Facility's ID=ENG 5
** Description=ENG 5 Engine Construction date=23-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39292E4 POINT 640922.354 3547227.618 0
SO SRCPARAM 39292E4 .0075599 4.39 1000.37 17.38 .26
**********END OF 39292: Jayhawk 7 Wellpad 3
INFO**********************************
************************************************************
** 17.69km away. Facility ID=38363 Name=Ruby Newbie CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.067, -103.4434, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.5tons/year
*****************Facility sources: ******************************
** NMED source ID=38363EQPT15 Facility's ID=ENG-1
** Description=Gas Lift Compression Construction date=11-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8704hr/yr, 24hr/day
SO LOCATION 38363E15 POINT 646930.12 3548922.045 0
SO SRCPARAM 38363E15 .0125998 7.01 740.37 48.77 .3
** NMED source ID=38363EQPT17 Facility's ID=HTR-1
** Description=Heater Treater Construction date=11-MAR-22
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38363E17 VOLUME 646937.656 3548929.066 0
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SO SRCPARAM 38363E17 .00252 6.1 .47 .93
**********END OF 38363: Ruby Newbie CTB INFO**********************************
************************************************************
** 17.73km away. Facility ID=39389 Name=Devon - Chincoteague 8 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.147128, -103.696514, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.2tons/year
*****************Facility sources: ******************************
** NMED source ID=39389AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=28-FEB-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5112hr/yr, 24hr/day
SO LOCATION 39389A1 VOLUME 622928.844 3557488.103 0
SO SRCPARAM 39389A1 .2771956 10 20 9.3
**********END OF 39389: Devon - Chincoteague 8 CTB 2
INFO**********************************
************************************************************
** 17.75km away. Facility ID=40586 Name=Perro Loco 27 22 Battery No1
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.357939, -103.451879, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.65tons/year
*****************Facility sources: ******************************
** NMED source ID=40586AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=19-AUG-22
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586A1 VOLUME 645665.004 3581165.127 0
SO SRCPARAM 40586A1 .0088199 10 10 9.3
** NMED source ID=40586EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=19-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E1 POINT 645672.54 3581172.148 0
SO SRCPARAM 40586E1 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40586EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=19-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E2 POINT 645665.754 3581175.7 0
SO SRCPARAM 40586E2 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40586EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=19-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E3 POINT 645658.157 3581173.608 0
SO SRCPARAM 40586E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40586EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=19-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E4 POINT 645653.916 3581166.708 0
SO SRCPARAM 40586E4 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40586EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=19-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E5 POINT 645655.568 3581158.554 0
SO SRCPARAM 40586E5 .0075599 4.57 778.71 13.94 .26
** NMED source ID=40586EQPT6 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=19-AUG-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E6 POINT 645662.517 3581153.592 0
SO SRCPARAM 40586E6 .0075599 6.19 695.37 37.61 .25
** NMED source ID=40586EQPT10 Facility's ID=GEN-01
** Description=Generator Engine Construction date=19-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E10 POINT 645671.2 3581154.734 0
SO SRCPARAM 40586E10 .0100798 3.51 840.37 177.36 .09
** NMED source ID=40586EQPT11 Facility's ID=HT-01
** Description=Heater Treater Construction date=19-AUG-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E11 VOLUME 645676.91 3581161.662 0
SO SRCPARAM 40586E11 .00126 4.57 .47 .93
** NMED source ID=40586EQPT12 Facility's ID=HT-02
** Description=Heater Treater Construction date=19-AUG-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E12 VOLUME 645676.345 3581170.843 0
SO SRCPARAM 40586E12 .00126 4.57 .47 .93
** NMED source ID=40586EQPT13 Facility's ID=HT-03
** Description=Heater Treater Construction date=19-AUG-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 40586E13 VOLUME 645669.51 3581177.321 0
SO SRCPARAM 40586E13 .00126 4.57 .47 .93
**********END OF 40586: Perro Loco 27 22 Battery No1
INFO************************************
************************************************************
** 17.81km away. Facility ID=39899 Name=Yada A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.16893, -103.341328, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.08tons/year
*****************Facility sources: ******************************
** NMED source ID=39899AREA1 Facility's ID=HR-1
** Description=Haul Road emissions Construction date=19-MAR-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39899A1 VOLUME 656392.039 3560366.081 0
SO SRCPARAM 39899A1 .0138598 10 10 9.3
** NMED source ID=39899EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516 1380 hp engine Construction date=19-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39899E1 POINT 656399.575 3560373.102 0
SO SRCPARAM 39899E1 .0125998 4.57 723.71 283.77 .2
** NMED source ID=39899EQPT4 Facility's ID=HT-1
** Description=3 MMBtu/h Heater Treater Construction date=19-MAR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39899E4 VOLUME 656392.789 3560376.654 0
SO SRCPARAM 39899E4 .00252 4.57 .47 .93
** NMED source ID=39899EQPT19 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=28-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39899E19 POINT 656385.192 3560374.562 0
SO SRCPARAM 39899E19 .0151198 4.57 939.26 90.22 .25
**********END OF 39899: Yada A CTB INFO************************************
************************************************************
** 17.82km away. Facility ID=38313 Name=Topaz 11 Fed No 601H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0638, -103.4483, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.16tons/year
*****************Facility sources: ******************************
** NMED source ID=38313EQPT5 Facility's ID=ENG-1
** Description=Gas Lift Compression Construction date=01-JAN-20
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8486hr/yr, 23hr/day
SO LOCATION 38313E5 POINT 646472.653 3548560.625 0
SO SRCPARAM 38313E5 .0037799 4.57 863.15 24.26 .15
** NMED source ID=38313EQPT7 Facility's ID=HTR-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8763hr/yr, 24hr/day
SO LOCATION 38313E7 VOLUME 646480.189 3548567.646 0
SO SRCPARAM 38313E7 .0005796 3.96 .47 .93
**********END OF 38313: Topaz 11 Fed No 601H
INFO************************************
************************************************************
** 17.86km away. Facility ID=40750 Name=Mesa Giant Battery
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=9764 NOI
** lat,long,datum=32.077278, -103.629361, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=40750EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=18-OCT-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40750E3 POINT 629360.897 3549823.308 0
SO SRCPARAM 40750E3 .00252 7.32 533.15 1.46 1.22
**********END OF 40750: Mesa Giant Battery INFO************************************
************************************************************
** 17.87km away. Facility ID=38704 Name=Devon - Big Cat 16 CTB 9
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.300975, -103.680736, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.5tons/year
*****************Facility sources: ******************************
** NMED source ID=38704AREA1 Facility's ID=ROAD
** Description=Haul Roads Construction date=28-NOV-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38704A1 VOLUME 624207.505 3574561.578 0
SO SRCPARAM 38704A1 .2771956 10 20 9.3
**********END OF 38704: Devon - Big Cat 16 CTB 9
INFO************************************
************************************************************
** 17.9km away. Facility ID=40412 Name=Salado Draw 10 W0NC Fed Com No3H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.052671, -103.56016, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.37tons/year
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*****************Facility sources: ******************************
** NMED source ID=40412AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=23-AUG-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412A1 VOLUME 635929.077 3547180.493 0
SO SRCPARAM 40412A1 .0088199 10 10 9.3
** NMED source ID=40412EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=22-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E1 POINT 635936.613 3547187.514 0
SO SRCPARAM 40412E1 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40412EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=22-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E2 POINT 635929.827 3547191.066 0
SO SRCPARAM 40412E2 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40412EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=22-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E3 POINT 635922.23 3547188.974 0
SO SRCPARAM 40412E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40412EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=22-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E4 POINT 635917.989 3547182.074 0
SO SRCPARAM 40412E4 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40412EQPT6 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=22-APR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E6 POINT 635919.641 3547173.92 0
SO SRCPARAM 40412E6 .0075599 6.17 695.37 37.61 .25
** NMED source ID=40412EQPT9 Facility's ID=HT-01
** Description=Heater Treater Construction date=22-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E9 POINT 635926.59 3547168.958 0
SO SRCPARAM 40412E9 .00126 4.57 533.15 3.93 .46
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** NMED source ID=40412EQPT12 Facility's ID=HT-02
** Description=Heater Treater Construction date=22-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E12 POINT 635935.273 3547170.1 0
SO SRCPARAM 40412E12 .00126 4.57 533.15 3.93 .46
** NMED source ID=40412EQPT13 Facility's ID=HT-03
** Description=Heater Treater Construction date=22-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E13 POINT 635940.983 3547177.028 0
SO SRCPARAM 40412E13 .00126 4.57 533.15 3.93 .46
** NMED source ID=40412EQPT16 Facility's ID=GEN-01
** Description=Generator Engine Construction date=23-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E16 POINT 635940.418 3547186.209 0
SO SRCPARAM 40412E16 .0100798 4.51 840.37 179.41 .09
** NMED source ID=40412EQPT17 Facility's ID=GEN-02
** Description=Generator Engine Construction date=23-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E17 POINT 635933.583 3547192.687 0
SO SRCPARAM 40412E17 .0100798 4.51 840.37 179.41 .09
** NMED source ID=40412EQPT33 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=07-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E33 POINT 635923.947 3547192.764 0
SO SRCPARAM 40412E33 .0037799 2.82 874.82 14.25 .17
** NMED source ID=40412EQPT34 Facility's ID=ENG-07
** Description=Compressor Engine Construction date=07-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E34 POINT 635916.686 3547186.098 0
SO SRCPARAM 40412E34 .0138598 7.16 819.82 33.86 .41
** NMED source ID=40412EQPT35 Facility's ID=HT-04
** Description=Heater Treater Construction date=07-SEP-23
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E35 VOLUME 635915.906 3547176.052 0
SO SRCPARAM 40412E35 .00252 4.57 .47 .93
**********END OF 40412: Salado Draw 10 W0NC Fed Com No3H Battery
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INFO***********************************
************************************************************
** 17.92km away. Facility ID=5150 Name=Mesa Bronco Battery
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=10037 NOI
** lat,long,datum=32.077278, -103.630444, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=5150EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=18-AUG-23
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5150E3 POINT 629258.675 3549822.009 0
SO SRCPARAM 5150E3 .00252 7.32 533.15 1.46 1.22
**********END OF 5150: Mesa Bronco Battery INFO**********************************
************************************************************
** 17.93km away. Facility ID=38822 Name=Devon - Fighting Okra 18 Wellpad 7
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=8179 NOI
** lat,long,datum=32.049789, -103.512222, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.61tons/year
*****************Facility sources: ******************************
** NMED source ID=38822EQPT2 Facility's ID=ENG 3
** Description=Engine 3 Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38822E2 POINT 640459.541 3546922.375 0
SO SRCPARAM 38822E2 .0100798 5.58 812.59 36.79 .2
** NMED source ID=38822EQPT3 Facility's ID=ENG 4
** Description=Engine 4 Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38822E3 POINT 640467.077 3546929.396 0
SO SRCPARAM 38822E3 .0075599 4.39 1000.37 17.38 .26
**********END OF 38822: Devon - Fighting Okra 18 Wellpad 7
INFO***********************************
************************************************************
** 17.93km away. Facility ID=38521 Name=Colibri Federal 23-32-10 24H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.325889, -103.656889, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=38521EQPT5 Facility's ID=HTR-1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38521E5 VOLUME 626418.238 3577351.453 0
SO SRCPARAM 38521E5 .00126 6.1 .47 .93
** NMED source ID=38521RPNT3 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=31-JUL-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38521R3 VOLUME 626425.774 3577358.474 0
SO SRCPARAM 38521R3 .0002898 1 .47 .93
**********END OF 38521: Colibri Federal 23-32-10 24H
INFO**********************************
************************************************************
** 18.05km away. Facility ID=34583 Name=James 29 Federal Battery
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.281661, -103.696139, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.81tons/year
*****************Facility sources: ****************************
** NMED source ID=34583AREA1 Facility's ID=HR
** Description=Haul Road Construction date=11-DEC-13
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583A1 VOLUME 622783.252 3572402.685 0
SO SRCPARAM 34583A1 .0113398 10 10 9.3
** NMED source ID=34583EQPT15 Facility's ID=ENG4
** Description=Compressor Engine Construction date=09-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583E15 POINT 622790.788 3572409.706 0
SO SRCPARAM 34583E15 .0138598 6.86 724.26 52.55 .3
** NMED source ID=34583EQPT18 Facility's ID=H1
** Description=Heater Treater, 2.0 MMBtu/hr Construction date=12-MAR-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583E18 VOLUME 622784.002 3572413.258 0
SO SRCPARAM 34583E18 .00126 4.57 .47 .93
** NMED source ID=34583EQPT19 Facility's ID=H2
** Description=Heater Treater, 2.0 MMBtu/hr Construction date=12-MAR-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583E19 VOLUME 622776.405 3572411.166 0
SO SRCPARAM 34583E19 .00126 4.57 .47 .93
** NMED source ID=34583EQPT20 Facility's ID=H3
** Description=Heater Treater, 2.0 MMBtu/hr Construction date=11-DEC-13
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583E20 VOLUME 622772.164 3572404.266 0
SO SRCPARAM 34583E20 .00126 4.57 .47 .93
** NMED source ID=34583EQPT21 Facility's ID=H4
** Description=Heater Treater, 2.0 MMBtu/hr Construction date=11-DEC-13
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583E21 VOLUME 622773.816 3572396.112 0
SO SRCPARAM 34583E21 .00126 4.57 .47 .93
**********END OF 34583: James 29 Federal Battery
INFO************************************
************************************************************
** 18.08km away. Facility ID=39816 Name=Franklin - Carnival Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.166216, -103.339246, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.49tons/year
*****************Facility sources: ******************************
** NMED source ID=39816EQPT1 Facility's ID=GEN-1
** Description=Emergency Generator (1250kW) Construction date=08-JAN-21
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E1 POINT 656593.014 3560068.22 0
SO SRCPARAM 39816E1 .0692989 5.49 777.59 971.4 .3
** NMED source ID=39816EQPT2 Facility's ID=HT-1
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E2 VOLUME 656600.55 3560075.241 0
SO SRCPARAM 39816E2 .00126 4.88 .47 .93
** NMED source ID=39816EQPT3 Facility's ID=HT-9
** Description=Heater Treater (1500000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39816E3 VOLUME 656593.764 3560078.793 0
SO SRCPARAM 39816E3 .00126 4.88 .47 .93
** NMED source ID=39816EQPT9 Facility's ID=HT-2
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E9 VOLUME 656586.167 3560076.701 0
SO SRCPARAM 39816E9 .00126 4.88 .47 .93
** NMED source ID=39816EQPT10 Facility's ID=HT-3
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
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** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E10 VOLUME 656581.926 3560069.801 0
SO SRCPARAM 39816E10 .00126 4.88 .47 .93
** NMED source ID=39816EQPT11 Facility's ID=HT-4
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E11 VOLUME 656583.578 3560061.647 0
SO SRCPARAM 39816E11 .00126 4.88 .47 .93
** NMED source ID=39816EQPT12 Facility's ID=HT-5
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E12 VOLUME 656590.527 3560056.685 0
SO SRCPARAM 39816E12 .00126 4.88 .47 .93
** NMED source ID=39816EQPT13 Facility's ID=HT-6
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E13 VOLUME 656599.21 3560057.827 0
SO SRCPARAM 39816E13 .00126 4.88 .47 .93
** NMED source ID=39816EQPT14 Facility's ID=HT-7
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E14 VOLUME 656604.92 3560064.755 0
SO SRCPARAM 39816E14 .00126 4.88 .47 .93
** NMED source ID=39816EQPT15 Facility's ID=HT-8
** Description=Heater Treater (750000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39816E15 VOLUME 656604.355 3560073.936 0
SO SRCPARAM 39816E15 .00126 4.88 .47 .93
** NMED source ID=39816EQPT16 Facility's ID=HT-10
** Description=Heater Treater (1500000 BTU/hr) Construction date=08-JAN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39816E16 VOLUME 656597.52 3560080.414 0
SO SRCPARAM 39816E16 .00126 4.88 .47 .93
**********END OF 39816: Franklin - Carnival Central Tank Battery
INFO**********************************
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```

** 18.14km away. Facility ID=38904 Name=EOG - Red Hills Solar Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.052297, -103.569805, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.3tons/year
**********Facility sources: **********
** NMED source ID=38904EQPT1 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.0 MMbtu/hr Construction date=17-APR-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38904E1 POINT 635019 3547126.926 0
SO SRCPARAM 38904E1 .00126 3.96 588.71 2.62 .3
** NMED source ID=38904EQPT2 Facility's ID=Heater-1
** Description=Separator Heater 0.5 MMbtu/hr Construction date=17-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38904E2 POINT 635026.536 3547133.947 0
SO SRCPARAM 38904E2 .00126 3.96 588.71 1.31 .3
** NMED source ID=38904EQPT3 Facility's ID=ENG-1
** Description=4SLB, CAT G3606, 1875 HP Construction date=17-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8122hr/yr, 22hr/day
SO LOCATION 38904E3 POINT 635019.75 3547137.499 0
SO SRCPARAM 38904E3 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38904EQPT4 Facility's ID=ENG-2
** Description=4SLB, CAT G3606, 1875 HP Construction date=17-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8513hr/yr, 23hr/day
SO LOCATION 38904E4 POINT 635012.153 3547135.407 0
SO SRCPARAM 38904E4 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38904EQPT5 Facility's ID=ENG-3
** Description=4SLB, CAT G3606, 1875 HP Construction date=17-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8337hr/yr, 23hr/day
SO LOCATION 38904E5 POINT 635007.912 3547128.507 0
SO SRCPARAM 38904E5 .0151198 8.53 719.26 27.43 .51
** NMED source ID=38904EQPT6 Facility's ID=ENG-4
** Description=4SLB, CAT G3520H, 3448 HP generator Construction date=30-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38904E6 POINT 635009.564 3547120.353 0
SO SRCPARAM 38904E6 .0151198 6.71 664.26 36.73 .63
** NMED source ID=38904EQPT7 Facility's ID=ENG-5

```
** Description=4SLB, CAT G3520H, 3448 HP generator Construction date=30-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38904E7 POINT 635016.513 3547115.391 0
SO SRCPARAM 38904E7 .0151198 6.71 664.26 36.73 .63
** NMED source ID=38904EQPT8 Facility's ID=ENG-6
** Description=4SLB, CAT G3520H, 3448 HP generator Construction date=30-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38904E8 POINT 635025.196 3547116.533 0
SO SRCPARAM 38904E8 .0151198 6.71 664.26 36.73 .63
**********END OF 38904: EOG - Red Hills Solar Localized Gas Lift Station
INFO************************************
************************************************************
** 18.16km away. Facility ID=39070 Name=Devon - Chincoteague 8 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.147514, -103.701711, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.42tons/year
*****************Facility sources: ******************************
** NMED source ID=39070AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=04-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39070A1 VOLUME 622438.174 3557524.971 0
SO SRCPARAM 39070A1 .0277196 10 20 9.3
** NMED source ID=39070EQPT6 Facility's ID=HT-1
** Description=Heater Treater, 3.0 MMBtu/hr Construction date=04-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39070E6 POINT 622445.71 3557531.992 0
SO SRCPARAM 39070E6 .0037799 9.14 708.71 2.82 .34
** NMED source ID=39070EQPT7 Facility's ID=HT-2
** Description=Heater Treater, 3.0 MMBtu/hr Construction date=04-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39070E7 POINT 622438.924 3557535.544 0
SO SRCPARAM 39070E7 .0037799 9.14 708.71 2.82 .34
**********END OF 39070: Devon - Chincoteague 8 CTB 1
INFO************************************
************************************************************
** 18.19km away. Facility ID=39838 Name=MarkWest - Middle Ground Compressor Station
** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.06385, -103.6089, WGS84
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** Total Particulate Matter (2.5 microns or less) emissions=4.31tons/year
*****************Facility sources: ******************************
** NMED source ID=39838EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516B 1380 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E1 POINT 631311.366 3548359.429 0
SO SRCPARAM 39838E1 .0163797 7.01 812.59 56.45 .3
** NMED source ID=39838EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516B 1380 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E2 POINT 631318.902 3548366.45 0
SO SRCPARAM 39838E2 .0163797 7.01 812.59 56.45 .3
** NMED source ID=39838EQPT3 Facility's ID=ENG-4
** Description=Caterpillar G3516B 1380 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E3 POINT 631312.116 3548370.002 0
SO SRCPARAM 39838E3 .0163797 7.01 812.59 56.45 .3
** NMED source ID=39838EQPT4 Facility's ID=ENG-5
** Description=Caterpillar G3516B 1380 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E4 POINT 631304.519 3548367.91 0
SO SRCPARAM 39838E4 .0163797 7.01 812.59 56.45 .3
** NMED source ID=39838EQPT5 Facility's ID=ENG-3
** Description=Caterpillar G3516 1340 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E5 POINT 631300.278 3548361.01 0
SO SRCPARAM 39838E5 .0201597 7.01 805.93 62.15 .3
** NMED source ID=39838EQPT6 Facility's ID=ENG-6
** Description=Caterpillar G3516 1340 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E6 POINT 631301.93 3548352.856 0
SO SRCPARAM 39838E6 .0201597 7.01 805.93 62.15 .3
** NMED source ID=39838EQPT7 Facility's ID=GEN-1
** Description=PSI 350 kW 581 hp generator Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E7 POINT 631308.879 3548347.894 0
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SO SRCPARAM 39838E7 .0062999 3 1005.37 83.21 .09
** NMED source ID=39838EQPT8 Facility's ID=GEN-2
** Description=PSI 350 kW 581 hp generator Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E8 POINT 631317.562 3548349.036 0
SO SRCPARAM 39838E8 .0062999 3 1005.37 83.21 .09
** NMED source ID=39838EQPT9 Facility's ID=Reboil-1
** Description=TEG Reboiler 1 MMBtu/h Construction date=27-JAN-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E9 POINT 631323.272 3548355.964 0
SO SRCPARAM 39838E9 .00126 4.88 588.71 1.55 .4
** NMED source ID=39838EQPT14 Facility's ID=ECD-1
** Description=8 MMscf/d Combustor (Process) Construction date=27-JAN-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E14 POINT 631322.707 3548365.145 0
SO SRCPARAM 39838E14 .0037799 3.66 1273 20 1.22
** NMED source ID=39838EQPT15 Facility's ID=ECD-2
** Description=26 MMscf/d Combustor (Process) Construction date=27-JAN-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E15 POINT 631315.872 3548371.623 0
SO SRCPARAM 39838E15 .00126 2.74 1273 20 .61
**********END OF 39838: MarkWest - Middle Ground Compressor Station
INFO************************************
************************************************************
** 18.2km away. Facility ID=6257 Name=Marwari 28 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10013 NOI
** lat,long,datum=32.10771, -103.674043, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.64tons/year
*****************Facility sources: ******************************
** NMED source ID=6257EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=21-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6257E1 POINT 625101.987 3553144.196 0
SO SRCPARAM 6257E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=6257EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=21-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 6257E2 POINT 625109.523 3553151.217 0
SO SRCPARAM 6257E2 .0075599 3.51 1000.37 71.17 .13
** NMED source ID=6257EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=21-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6257E3 POINT 625102.737 3553154.769 0
SO SRCPARAM 6257E3 .0037799 3.6 853.15 19.96 .17
**********END OF 6257: Marwari 28 Wellpad 3
INFO**********************************
************************************************************
** 18.2km away. Facility ID=38523 Name=Colibri Federal 23-32-10 FB 20H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.325722, -103.661167, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=38523AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=26-JUL-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38523A1 VOLUME 626015.777 3577327.898 0
SO SRCPARAM 38523A1 .0002898 1 .47 .93
** NMED source ID=38523EQPT5 Facility's ID=HTR-1
** Description=Heater Treater Burne-01 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38523E5 VOLUME 626023.313 3577334.919 0
SO SRCPARAM 38523E5 .00126 6.1 .47 .93
**********END OF 38523: Colibri Federal 23-32-10 FB 20H
INFO**********************************
************************************************************
** 18.26km away. Facility ID=7665 Name=Monsoon SWD
** Company ID=14273 Name=WaterBridge Stateline LLC
** SIC=1311 NAIC=21112    Permit=10154 NOI
** lat,long,datum=32.08957, -103.6548, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=7665AREA1 Facility's ID=ROAD-1
** Description=Haul Road Construction date=14-DEC-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7665A1 VOLUME 626942.773 3551155.739 0
SO SRCPARAM 7665A1 .0050399 1 .47 .93
**********END OF 7665: Monsoon SWD INFO**************************************
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** 18.27km away. Facility ID=38617 Name=Rico Compressor Station
** Company ID=13452 Name=Delaware G & P, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.2059, -103.717778, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=7.39tons/year
*****************Facility sources: ******************************
** NMED source ID=38617EQPT1 Facility's ID=E-1
** Description=2500 hp CAT G3608 A4 Compressor Engine Construction date=12-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8559hr/yr, 24hr/day
SO LOCATION 38617E1 POINT 620845.677 3563979.346 0
SO SRCPARAM 38617E1 .0214197 8.31 718.15 104.06 .3
** NMED source ID=38617EQPT2 Facility's ID=E-2
** Description=2500 hp CAT G3608 A4 Compressor Engine Construction date=12-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8627hr/yr, 24hr/day
SO LOCATION 38617E2 POINT 620853.213 3563986.367 0
SO SRCPARAM 38617E2 .0214197 8.31 718.15 104.06 .3
** NMED source ID=38617EQPT12 Facility's ID=H-1
** Description=Dehy Reboiler w/ BTEX condenser Construction date=12-SEP-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E12 POINT 620846.427 3563989.919 0
SO SRCPARAM 38617E12 .00126 3.99 1033.15 8.11 .09
** NMED source ID=38617EQPT14 Facility's ID=E-5
** Description=72 hp GM 4.3L VRU Engine Construction date=19-NOV-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E14 POINT 620838.83 3563987.827 0
SO SRCPARAM 38617E14 .00126 5.52 588.71 35.33 .08
** NMED source ID=38617EQPT15 Facility's ID=E-3
** Description=2500 hp CAT G3608 A4 Compressor Engine Construction date=26-JUN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E15 POINT 620834.589 3563980.927 0
SO SRCPARAM 38617E15 .0214197 8.31 718.15 104.06 .3
** NMED source ID=38617EQPT16 Facility's ID=E-4
** Description=2370 hp CAT G3608 A3 Compressor Engine Construction date=26-JUN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E16 POINT 620836.241 3563972.773 0
SO SRCPARAM 38617E16 .0201597 8.31 731.48 104.42 .3
** NMED source ID=38617EQPT17 Facility's ID=E-6
** Description=2500 hp Waukesha 9394S5 Compressor Engine Construction date=26-JUN-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E17 POINT 620843.19 3563967.811 0
SO SRCPARAM 38617E17 .0428393 7.48 862.59 67.42 .3
** NMED source ID=38617EQPT18 Facility's ID=E-7
** Description=2500 hp Waukesha 9394S5 Compressor Engine Construction date=26-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E18 POINT 620851.873 3563968.953 0
SO SRCPARAM 38617E18 .0428393 7.48 862.59 67.42 .3
** NMED source ID=38617EQPT21 Facility's ID=E-8
** Description=2500 hp CAT G3608 A4 Compressor Engine Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E21 POINT 620857.583 3563975.881 0
SO SRCPARAM 38617E21 .0214197 8.31 718.15 104.06 .3
** NMED source ID=38617EQPT22 Facility's ID=E-9
** Description=2500 hp CAT G3608 A4 Compressor Engine Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E22 POINT 620857.018 3563985.062 0
SO SRCPARAM 38617E22 .0214197 8.31 718.15 104.06 .3
**********END OF 38617: Rico Compressor Station
INFO**********************************
************************************************************
** 18.28km away. Facility ID=31547 Name=Gaucho 21 Fed Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4796 NOI
** lat,long,datum=32.370964, -103.482381, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.07tons/year
*****************Facility sources: ****************************
** NMED source ID=31547AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31547A1 VOLUME 642774.254 3582568.042 0
SO SRCPARAM 31547A1 .0277196 10 20 9.3
** NMED source ID=31547EQPT7 Facility's ID=HT-1
** Description=Heater_EQ000156247 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31547E7 VOLUME 642781.79 3582575.063 0
SO SRCPARAM 31547E7 .0005796 9.14 .47 .93
** NMED source ID=31547EQPT10 Facility's ID=HT-2
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** Description=Heater_EQ000156248 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31547E10 VOLUME 642775.004 3582578.615 0
SO SRCPARAM 31547E10 .0005796 9.14 .47 .93
**********END OF 31547: Gaucho 21 Fed Battery
INFO**********************************
************************************************************
** 18.3km away. Facility ID=39897 Name=Yada B CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.167413, -103.336435, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.57tons/year
*****************Facility sources: ******************************
** NMED source ID=39897AREA1 Facility's ID=HR-1
** Description=unpaved haul roads Construction date=18-MAR-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39897A1 VOLUME 656856.045 3560205.021 0
SO SRCPARAM 39897A1 .0138598 10 10 9.3
** NMED source ID=39897EQPT1 Facility's ID=HT-1
** Description=heater treater 1: 3 MMBtu/h Construction date=18-MAR-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39897E1 VOLUME 656863.581 3560212.042 0
SO SRCPARAM 39897E1 .00252 4.57 .47 .93
** NMED source ID=39897EQPT2 Facility's ID=ENG-1
** Description=CAT G3516J: 4SLB, 1380hp w/ oxidation catalyst Construction
date=18-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39897E2 POINT 656856.795 3560215.594 0
SO SRCPARAM 39897E2 .0125998 4.57 723.71 112.17 .2
** NMED source ID=39897EQPT3 Facility's ID=ENG-2
** Description=CAT G3516J: 4SLB, 1380hp w/ oxidation catalyst Construction
date=18-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39897E3 POINT 656849.198 3560213.502 0
SO SRCPARAM 39897E3 .0125998 4.57 723.71 112.17 .2
** NMED source ID=39897EQPT4 Facility's ID=GEN-1
** Description=PSI 21.9L; 4SRB, 581hp generator Construction date=18-MAR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 39897E4 POINT 656844.957 3560206.602 0
SO SRCPARAM 39897E4 .0176397 4.57 886.48 150.27 .1
**********END OF 39897: Yada B CTB INFO************************************
************************************************************
** 18.31km away. Facility ID=39785 Name=Devon - Billiken 6 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9029 NSR
** lat,long,datum=32.076646, -103.41099, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.25tons/year
*****************Facility sources: ****************************
** NMED source ID=39785EQPT9 Facility's ID=HT-1
** Description=3 MMBtu/h Heater Treater Construction date=11-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39785E9 VOLUME 649973.945 3550036.025 0
SO SRCPARAM 39785E9 .0037799 9.14 .47 .93
** NMED source ID=39785RPNT2 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=11-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39785R2 VOLUME 649981.481 3550043.046 0
SO SRCPARAM 39785R2 .0277196 10 20 9.3
**********END OF 39785: Devon - Billiken 6 CTB 1
INFO**********************************
************************************************************
** 18.4km away. Facility ID=37138 Name=Nautilus 16 State Com No 703H & 704H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.049392, -103.48045, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.56tons/year
*****************Facility sources: ****************************
** NMED source ID=37138AREA1 Facility's ID=HAUL
** Description=haul roads Construction date=14-JUL-16
** SCC=30588801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37138A1 VOLUME 643460.028 3546920.151 0
SO SRCPARAM 37138A1 .0011466 1 .47 .93
** NMED source ID=37138EQPT1 Facility's ID=ENG-1
** Description=1775 hp Cat G3606 LE gas lift engine Construction date=14-JUL-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8702hr/yr, 24hr/day
SO LOCATION 37138E1 POINT 643467.564 3546927.172 0
SO SRCPARAM 37138E1 .0151198 8.53 725.93 26.85 .52
**********END OF 37138: Nautilus 16 State Com No 703H & 704H
INFO**********************************
************************************************************
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** 18.43km away. Facility ID=38323 Name=Mesa Verde West Central Gas Lift Station
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2122, -103.7196, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.28tons/year
*****************Facility sources: ******************************
** NMED source ID=38323EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=20-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7733hr/yr, 24hr/day
SO LOCATION 38323E1 POINT 620665.626 3564675.705 0
SO SRCPARAM 38323E1 .0125998 4.57 816.48 26.46 .46
** NMED source ID=38323EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=20-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7398hr/yr, 24hr/day
SO LOCATION 38323E2 POINT 620673.162 3564682.726 0
SO SRCPARAM 38323E2 .0125998 4.57 816.48 26.46 .46
** NMED source ID=38323EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=20-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7968hr/yr, 24hr/day
SO LOCATION 38323E3 POINT 620666.376 3564686.278 0
SO SRCPARAM 38323E3 .0125998 4.57 816.48 26.46 .46
** NMED source ID=38323EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=20-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7822hr/yr, 24hr/day
SO LOCATION 38323E4 POINT 620658.779 3564684.186 0
SO SRCPARAM 38323E4 .0125998 4.57 816.48 26.46 .46
** NMED source ID=38323EQPT6 Facility's ID=REB-1
** Description=Reboiler Construction date=20-SEP-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38323E6 POINT 620654.538 3564677.286 0
SO SRCPARAM 38323E6 .00126 4.57 588.71 .12 .24
** NMED source ID=38323EQPT8 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1997hr/yr, 24hr/day
SO LOCATION 38323E8 POINT 620656.19 3564669.132 0
SO SRCPARAM 38323E8 .0125998 4.57 816.48 26.46 .46
** NMED source ID=38323RPNT3 Facility's ID=SITE-SSM
** Description=Emissions due to SSM Activities Construction date=20-MAR-20
```

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** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38323R3 VOLUME 620663.139 3564664.17 0
SO SRCPARAM 38323R3 .0002898 1 .47 .93
**********END OF 38323: Mesa Verde West Central Gas Lift Station
INFO**********************************
************************************************************
** 18.43km away. Facility ID=40490 Name=Magic Cat 30 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9635 NOI
** lat,long,datum=32.26901, -103.70704, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.79tons/year
*****************Facility sources: ****************************
** NMED source ID=40490EQPT1 Facility's ID=ENG 1
** Description=Engine 1 Construction date=06-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40490E1 POINT 621773.544 3570987.774 0
SO SRCPARAM 40490E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=40490EQPT2 Facility's ID=ENG 2
** Description=Engine 2 Construction date=06-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40490E2 POINT 621781.08 3570994.795 0
SO SRCPARAM 40490E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40490: Magic Cat 30 Wellpad 3
INFO**********************************
************************************************************
** 18.45km away. Facility ID=37904 Name=Windward Federal 2H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7329 NOI
** lat,long,datum=32.195313, -103.718947, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.25tons/year
*****************Facility sources: ****************************
** NMED source ID=37904AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=22-AUG-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37904A1 VOLUME 620749.48 3562804.378 0
SO SRCPARAM 37904A1 .0050399 1 .47 .93
** NMED source ID=37904AREA2 Facility's ID=HR-02
** Description=Roads or Unpaved Haul Roads Construction date=22-AUG-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37904A2 VOLUME 620757.016 3562811.399 0
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SO SRCPARAM 37904A2 .00126 1 .47 .93
** NMED source ID=37904EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner - Windward Federal 2H Battery Construction
date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37904E4 VOLUME 620750.23 3562814.951 0
SO SRCPARAM 37904E4 .00126 6.71 .47 .93
** NMED source ID=37904EQPT6 Facility's ID=HT-02
** Description=Heater Treater Burner - Windward Federal 2H Battery Construction
date=01-AUG-14
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37904E6 VOLUME 620742.633 3562812.859 0
SO SRCPARAM 37904E6 .00126 6.71 .47 .93
** NMED source ID=37904EQPT7 Facility's ID=HT-03
** Description=Heater Treater Burner - King Tut Federal 1H Battery Construction
date=22-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37904E7 VOLUME 620738.392 3562805.959 0
SO SRCPARAM 37904E7 .0005796 6.71 .47 .93
** NMED source ID=37904EQPT8 Facility's ID=HT-04
** Description=Heater Treater Burner - King Tut Federal 1H Battery Construction
date=01-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37904E8 VOLUME 620740.044 3562797.805 0
SO SRCPARAM 37904E8 .0005796 6.71 .47 .93
**********END OF 37904: Windward Federal 2H Battery
INFO**********************************
************************************************************
** 18.46km away. Facility ID=40400 Name=Mammoth 1 Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.066392, -103.427115, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.58tons/year
*****************Facility sources: ******************************
** NMED source ID=40400AREA1 Facility's ID=ROAD
** Description=HAUL ROADS Construction date=24-MAR-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400A1 VOLUME 648468.44 3548876.936 0
SO SRCPARAM 40400A1 .00126 1 .47 .93
** NMED source ID=40400EQPT3 Facility's ID=HTR-1
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** Description=HEATER TREATER 1 Construction date=24-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E3 VOLUME 648475.976 3548883.957 0
SO SRCPARAM 40400E3 .00126 4.6 .47 .93
** NMED source ID=40400EQPT16 Facility's ID=GEN-1
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E16 POINT 648469.19 3548887.509 0
SO SRCPARAM 40400E16 .00252 4.51 744.26 145.91 .09
** NMED source ID=40400EQPT17 Facility's ID=GEN-2
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E17 POINT 648461.593 3548885.417 0
SO SRCPARAM 40400E17 .00252 4.51 744.26 145.91 .09
** NMED source ID=40400EQPT18 Facility's ID=GEN-3
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E18 POINT 648457.352 3548878.517 0
SO SRCPARAM 40400E18 .00252 4.51 744.26 145.91 .09
** NMED source ID=40400EQPT19 Facility's ID=GEN-4
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E19 POINT 648459.004 3548870.363 0
SO SRCPARAM 40400E19 .00252 4.51 744.26 145.91 .09
** NMED source ID=40400EQPT20 Facility's ID=GEN-5
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E20 POINT 648465.953 3548865.401 0
SO SRCPARAM 40400E20 .00252 4.51 744.26 145.91 .09
** NMED source ID=40400EQPT21 Facility's ID=GEN-6
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E21 POINT 648474.636 3548866.543 0
SO SRCPARAM 40400E21 .00252 4.51 744.26 145.91 .09
**********END OF 40400: Mammoth 1 Fed Com CTB
INFO**********************************
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************************************************************
** 18.47km away. Facility ID=33214 Name=Gaucho Central Tank Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5425 NOI
** lat,long,datum=32.374556, -103.493833, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.09tons/year
*****************Facility sources: ******************************
** NMED source ID=33214AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 33214A1 VOLUME 641691.162 3582951.045 0
SO SRCPARAM 33214A1 .0277196 10 20 9.3
** NMED source ID=33214EQPT2 Facility's ID=HT-2
** Description=Heater_EQ000171750 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33214E2 VOLUME 641698.698 3582958.066 0
SO SRCPARAM 33214E2 .00126 9.14 .47 .93
** NMED source ID=33214EQPT9 Facility's ID=HT-1
** Description=Heater_EQ000171752 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33214E9 VOLUME 641691.912 3582961.618 0
SO SRCPARAM 33214E9 .0005796 9.14 .47 .93
**********END OF 33214: Gaucho Central Tank Battery
INFO**********************************
************************************************************
** 18.51km away. Facility ID=40107 Name=Devon - Trionyx 6 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.163492, -103.712294, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.21tons/year
*****************Facility sources: ******************************
** NMED source ID=40107AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Road Construction date=11-AUG-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40107A1 VOLUME 621418.855 3559284.263 0
SO SRCPARAM 40107A1 .0277196 10 20 9.3
** NMED source ID=40107EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=11-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40107E2 VOLUME 621426.391 3559291.284 0
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SO SRCPARAM 40107E2 .00252 9.14 .47 .93
**********END OF 40107: Devon - Trionyx 6 CTB 3
INFO**********************************
************************************************************
** 18.55km away. Facility ID=39093 Name=EOG - Quijote 2 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0764, -103.6407, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.07tons/year
*****************Facility sources: ****************************
** NMED source ID=39093AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=22-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8762hr/yr, 24hr/day
SO LOCATION 39093A1 VOLUME 628291.86 3549712.432 0
SO SRCPARAM 39093A1 .1007984 1 .47 .93
** NMED source ID=39093EQPT6 Facility's ID=HTR-1
** Description=Heater, 1.5-MMBtu/hr Construction date=22-AUG-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39093E6 POINT 628299.396 3549719.453 0
SO SRCPARAM 39093E6 .00252 5.18 588.71 6.86 .3
** NMED source ID=39093EQPT7 Facility's ID=Frac HTR-1
** Description=Heater, 0.5-MMBtu/hr Construction date=22-AUG-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39093E7 POINT 628292.61 3549723.005 0
SO SRCPARAM 39093E7 .00126 5.18 588.71 2.29 .3
** NMED source ID=39093EQPT8 Facility's ID=Frac ENG-1
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39093E8 POINT 628285.013 3549720.913 0
SO SRCPARAM 39093E8 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39093EQPT9 Facility's ID=Frac ENG-2
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39093E9 POINT 628280.772 3549714.013 0
SO SRCPARAM 39093E9 .0075599 6.1 790.93 23.04 .2
** NMED source ID=39093EQPT10 Facility's ID=Frac ENG-3
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39093E10 POINT 628282.424 3549705.859 0
SO SRCPARAM 39093E10 .0075599 6.1 790.93 23.04 .2
**********END OF 39093: EOG - Quijote 2 State CTB
INFO**********************************
************************************************************
** 18.55km away. Facility ID=38765 Name=Devon - Marwari 28 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.106003, -103.677142, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.4tons/year
*****************Facility sources: ******************************
** NMED source ID=38765RPNT2 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=31-DEC-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38765R2 VOLUME 624811.901 3552951.369 0
SO SRCPARAM 38765R2 .040269 3.05 .47 .93
**********END OF 38765: Devon - Marwari 28 CTB 2
INFO**********************************
************************************************************
** 18.6km away. Facility ID=38029 Name=Gaucho 21 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=7453 NOI
** lat,long,datum=32.370825, -103.468119, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=38029AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=15-FEB-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38029A1 VOLUME 644116.349 3582571.756 0
SO SRCPARAM 38029A1 .0277196 10 20 9.3
** NMED source ID=38029EQPT3 Facility's ID=HT-1
** Description=Heater treater 1 EQ000310151 Construction date=15-FEB-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 38029E3 VOLUME 644123.885 3582578.777 0
SO SRCPARAM 38029E3 .00126 9.14 .47 .93
** NMED source ID=38029EQPT9 Facility's ID=HT-2
** Description=Heater treater 2 EQ000310194 Construction date=15-FEB-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 38029E9 VOLUME 644117.099 3582582.329 0
SO SRCPARAM 38029E9 .00126 9.14 .47 .93
**********END OF 38029: Gaucho 21 Wellpad 2
INFO**********************************
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** 18.6km away. Facility ID=39222 Name=Charlie Murphy 6 Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.079218, -103.401804, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.17tons/year
**********Facility sources: ****************************
** NMED source ID=39222AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=20-NOV-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39222A1 VOLUME 650836.811 3550333.975 0
SO SRCPARAM 39222A1 .0002898 1 .47 .93
** NMED source ID=39222EQPT5 Facility's ID=HTR-1
** Description=Heater Treater 1 Construction date=20-NOV-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=720hr/yr, 24hr/day
SO LOCATION 39222E5 VOLUME 650844.347 3550340.996 0
SO SRCPARAM 39222E5 .00126 4.6 .47 .93
** NMED source ID=39222EQPT8 Facility's ID=ENG-1
** Description=Combustion Engine Construction date=20-NOV-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39222E8 POINT 650837.561 3550344.548 0
SO SRCPARAM 39222E8 .00252 4.51 813.15 55.66 .1
** NMED source ID=39222EQPT18 Facility's ID=ENG-2
** Description=VRU Engine Construction date=18-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39222E18 POINT 650829.964 3550342.456 0
SO SRCPARAM 39222E18 .00252 4.51 919.82 65.84 .09
**********END OF 39222: Charlie Murphy 6 Fed Com CTB
INFO**********************************
************************************************************
** 18.64km away. Facility ID=39995 Name=Right Meow 31 CTB 7
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.265546, -103.710896, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.6tons/year
**********Facility sources: ****************************
** NMED source ID=39995EQPT9 Facility's ID=HT-1
** Description=Heater Treater 3.0 MMBtu/hr Construction date=02-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39995E9 POINT 621414.965 3570599.387 0
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SO SRCPARAM 39995E9 .0037799 9.14 888.71 9.07 .31
** NMED source ID=39995EQPT10 Facility's ID=HT-2
** Description=Heater Treater 3.0 MMBtu/hr Construction date=02-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39995E10 POINT 621422.501 3570606.408 0
SO SRCPARAM 39995E10 .0037799 9.14 888.71 9.07 .31
** NMED source ID=39995EQPT12 Facility's ID=LPC-1
** Description=Low Pressure Compressor Construction date=02-JUN-21
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39995E12 POINT 621415.715 3570609.96 0
SO SRCPARAM 39995E12 .0037799 2.5 919.82 193.82 .05
** NMED source ID=39995RPNT2 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=02-JUN-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39995R2 VOLUME 621408.118 3570607.868 0
SO SRCPARAM 39995R2 .0277196 10 20 9.3
**********END OF 39995: Right Meow 31 CTB 7
INFO**********************************
************************************************************
** 18.71km away. Facility ID=40146 Name=Rattlesnake Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.04837, -103.47177, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.17tons/year
*****************Facility sources: ******************************
** NMED source ID=40146EQPT3 Facility's ID=RBL-1
** Description=Dehy Reboiler (1.0 MMBTU/hr) Construction date=27-AUG-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8541hr/yr, 23hr/day
SO LOCATION 40146E3 POINT 644281.192 3546818.421 0
SO SRCPARAM 40146E3 .00126 3.05 588.71 2.62 .3
** NMED source ID=40146EQPT6 Facility's ID=ENG-1
** Description=Compressor Engine (1875 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8285hr/yr, 23hr/day
SO LOCATION 40146E6 POINT 644288.728 3546825.442 0
SO SRCPARAM 40146E6 .0163797 6.1 695.37 34.32 .46
** NMED source ID=40146EQPT7 Facility's ID=ENG-2
** Description=Compressor Engine (1875 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7600hr/yr, 21hr/day
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SO LOCATION 40146E7 POINT 644281.942 3546828.994 0
SO SRCPARAM 40146E7 .0163797 6.1 695.37 34.32 .46
** NMED source ID=40146EQPT8 Facility's ID=ENG-3
** Description=Compressor Engine (1875 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8189hr/yr, 22hr/day
SO LOCATION 40146E8 POINT 644274.345 3546826.902 0
SO SRCPARAM 40146E8 .0163797 6.1 695.37 34.32 .46
** NMED source ID=40146EQPT9 Facility's ID=ENG-4
** Description=Compressor Engine (1875 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8169hr/yr, 22hr/day
SO LOCATION 40146E9 POINT 644270.104 3546820.002 0
SO SRCPARAM 40146E9 .0163797 6.1 695.37 34.32 .46
** NMED source ID=40146EQPT10 Facility's ID=ENG-5
** Description=Compressor Engine (1380 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7863hr/yr, 22hr/day
SO LOCATION 40146E10 POINT 644271.756 3546811.848 0
SO SRCPARAM 40146E10 .0125998 6.1 725.93 48.68 .3
** NMED source ID=40146EQPT11 Facility's ID=ENG-6
** Description=Compressor Engine (1380 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7547hr/yr, 21hr/day
SO LOCATION 40146E11 POINT 644278.705 3546806.886 0
SO SRCPARAM 40146E11 .0125998 6.1 725.93 48.68 .3
**********END OF 40146: Rattlesnake Compressor Station
INFO**********************************
************************************************************
** 18.71km away. Facility ID=37605 Name=EOG - Braswell 16 West CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.05, -103.582778, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=37605EQPT3 Facility's ID=Heater-1
** Description=0.75 MMBtu/hr, separator heater Construction date=18-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37605E3 POINT 633797.504 3546856.129 0
SO SRCPARAM 37605E3 .00126 4.88 588.71 .01 1.22
** NMED source ID=37605EQPT20 Facility's ID=Heater-2
** Description=0.75 MMBtu/hr, separator heater Construction date=18-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37605E20 POINT 633805.04 3546863.15 0
SO SRCPARAM 37605E20 .00126 4.88 588.71 .01 1.22
**********END OF 37605: EOG - Braswell 16 West CTB
INFO**********************************
************************************************************
** 18.74km away. Facility ID=40471 Name=Thunderbird 1 TB Fed 14H and 1 WA Fed 18H
Production Facility
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.067482, -103.419098, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.54tons/year
*****************Facility sources: ******************************
** NMED source ID=40471AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=18-AUG-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40471A1 VOLUME 649223.498 3549008.837 0
SO SRCPARAM 40471A1 .00126 1 .47 .93
** NMED source ID=40471EQPT11 Facility's ID=HTR-1
** Description=Heater Treater Construction date=18-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40471E11 VOLUME 649231.034 3549015.858 0
SO SRCPARAM 40471E11 .00126 4.6 .47 .93
** NMED source ID=40471EQPT28 Facility's ID=ENG-01
** Description=Compressor Engine 1 Construction date=29-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40471E28 POINT 649224.248 3549019.41 0
SO SRCPARAM 40471E28 .0037799 3.51 829.82 33.89 .13
** NMED source ID=40471EQPT29 Facility's ID=ENG-02
** Description=Compressor Engine 2 Construction date=29-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40471E29 POINT 649216.651 3549017.318 0
SO SRCPARAM 40471E29 .0075599 3.51 1000.37 50.23 .15
** NMED source ID=40471EQPT30 Facility's ID=ENG-03
** Description=Compressor Engine 3 Construction date=29-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40471E30 POINT 649212.41 3549010.418 0
SO SRCPARAM 40471E30 .00252 3.51 867.04 52.15 .09
**********END OF 40471: Thunderbird 1 TB Fed 14H and 1 WA Fed 18H Production
Facility INFO**********************************
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** 18.76km away. Facility ID=38259 Name=Fighting Okra 18 CTB 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.042463, -103.509598, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.35tons/year
*****************Facility sources: ******************************
** NMED source ID=38259EQPT7 Facility's ID=HT-1
** Description=Heater Treater 1, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E7 VOLUME 640718.507 3546113.634 0
SO SRCPARAM 38259E7 .00126 9.14 .47 .93
** NMED source ID=38259EQPT8 Facility's ID=HT-2
** Description=Heater Treater 2, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E8 VOLUME 640726.043 3546120.655 0
SO SRCPARAM 38259E8 .00126 9.14 .47 .93
** NMED source ID=38259EQPT9 Facility's ID=HT-3
** Description=Heater Treater 3, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E9 VOLUME 640719.257 3546124.207 0
SO SRCPARAM 38259E9 .00126 9.14 .47 .93
** NMED source ID=38259EQPT10 Facility's ID=HT-4
** Description=Heater Treater 4, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E10 VOLUME 640711.66 3546122.115 0
SO SRCPARAM 38259E10 .00126 9.14 .47 .93
** NMED source ID=38259EQPT11 Facility's ID=HT-5
** Description=Heater Treater 5, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E11 VOLUME 640707.419 3546115.215 0
SO SRCPARAM 38259E11 .00126 9.14 .47 .93
** NMED source ID=38259EQPT12 Facility's ID=HT-6
** Description=Heater Treater 6, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E12 VOLUME 640709.071 3546107.061 0
SO SRCPARAM 38259E12 .00126 9.14 .47 .93
** NMED source ID=38259RPNT2 Facility's ID=ROAD-1
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** Description=Haul Roads Construction date=05-FEB-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259R2 VOLUME 640716.02 3546102.099 0
SO SRCPARAM 38259R2 .0277196 10 20 9.3
**********END OF 38259: Fighting Okra 18 CTB 4
INFO**********************************
************************************************************
** 18.77km away. Facility ID=40543 Name=Marwari 21 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9678 NOI
** lat,long,datum=32.1096, -103.683375, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.5tons/year
*****************Facility sources: ******************************
** NMED source ID=40543EQPT1 Facility's ID=ENG 1
** Description=Combustion Engine Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40543E1 POINT 624218.9 3553342.921 0
SO SRCPARAM 40543E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=40543EQPT2 Facility's ID=ENG 2
** Description=Combustion Engine Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40543E2 POINT 624226.436 3553349.942 0
SO SRCPARAM 40543E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40543: Marwari 21 Wellpad 1
INFO**********************************
************************************************************
** 18.79km away. Facility ID=7733 Name=Mockingbird Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.160175, -103.714228, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=5.02tons/year
*****************Facility sources: ******************************
** NMED source ID=7733EQPT4 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E4 POINT 621240.876 3558914.368 0
SO SRCPARAM 7733E4 .0239396 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT5 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 7733E5 POINT 621248.412 3558921.389 0
SO SRCPARAM 7733E5 .0239396 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT6 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E6 POINT 621241.626 3558924.941 0
SO SRCPARAM 7733E6 .0239396 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT7 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E7 POINT 621234.029 3558922.849 0
SO SRCPARAM 7733E7 .0239396 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT8 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E8 POINT 621229.788 3558915.949 0
SO SRCPARAM 7733E8 .0239396 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT9 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E9 POINT 621231.44 3558907.795 0
SO SRCPARAM 7733E9 .0239396 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT14 Facility's ID=RBL-1
** Description=Dehydrator Reboiler Construction date=18-OCT-23
** SCC=31000301
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E14 POINT 621238.389 3558902.833 0
SO SRCPARAM 7733E14 .00126 7.92 533.15 .23 1.07
**********END OF 7733: Mockingbird Compressor Station
INFO**********************************
************************************************************
** 18.81km away. Facility ID=40577 Name=Mesa Compressor Station
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=4922 NAIC=48621    Permit=unknown
** lat,long,datum=32.066036, -103.627368, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.86tons/year
*****************Facility sources: ****************************
** NMED source ID=40577EQPT1 Facility's ID=ENG-1
** Description=Natural Gas Compressor Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40577E1 POINT 629564.869 3548579.438 0
SO SRCPARAM 40577E1 .0176397 6.1 712.59 34.56 .46
** NMED source ID=40577EQPT2 Facility's ID=ENG-2
** Description=Natural Gas Compressor Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40577E2 POINT 629572.405 3548586.459 0
SO SRCPARAM 40577E2 .0176397 6.1 712.59 34.56 .46
** NMED source ID=40577EQPT3 Facility's ID=ENG-3
** Description=Natural Gas Compressor Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40577E3 POINT 629565.619 3548590.011 0
SO SRCPARAM 40577E3 .0176397 6.1 712.59 34.56 .46
**********END OF 40577: Mesa Compressor Station
INFO**********************************
************************************************************
** 18.82km away. Facility ID=5515 Name=Ragin Cajun 12 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.06152, -103.429692, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.14tons/year
*****************Facility sources: ******************************
** NMED source ID=5515AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=13-JUN-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515A1 VOLUME 648233.025 3548333.273 0
SO SRCPARAM 5515A1 .0277196 10 20 9.3
** NMED source ID=5515EQPT1 Facility's ID=ENG 1
** Description=Engine Construction date=13-JUN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E1 POINT 648240.561 3548340.294 0
SO SRCPARAM 5515E1 .0138598 5.85 772.59 37.4 .27
** NMED source ID=5515EQPT2 Facility's ID=ENG 2
** Description=Engine Construction date=13-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E2 POINT 648233.775 3548343.846 0
SO SRCPARAM 5515E2 .0075599 4.39 1000.37 17.38 .26
** NMED source ID=5515EQPT5 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=13-JUN-23
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E5 VOLUME 648226.178 3548341.754 0
SO SRCPARAM 5515E5 .00252 9.14 .47 .93
** NMED source ID=5515EQPT6 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=13-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E6 VOLUME 648221.937 3548334.854 0
SO SRCPARAM 5515E6 .00252 9.14 .47 .93
** NMED source ID=5515EQPT26 Facility's ID=MT 1
** Description=Microturbine 1 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E26 POINT 648223.589 3548326.7 0
SO SRCPARAM 5515E26 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT27 Facility's ID=MT 2
** Description=Microturbine 2 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E27 POINT 648230.538 3548321.738 0
SO SRCPARAM 5515E27 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT28 Facility's ID=MT 3
** Description=Microturbine 3 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E28 POINT 648239.221 3548322.88 0
SO SRCPARAM 5515E28 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT29 Facility's ID=MT 4
** Description=Microturbine 4 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E29 POINT 648244.931 3548329.808 0
SO SRCPARAM 5515E29 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT30 Facility's ID=MT 5
** Description=Microturbine 5 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E30 POINT 648244.366 3548338.989 0
SO SRCPARAM 5515E30 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT31 Facility's ID=MT 6
** Description=Microturbine 6 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E31 POINT 648237.531 3548345.467 0
SO SRCPARAM 5515E31 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT32 Facility's ID=MT 7
** Description=Microturbine 7 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E32 POINT 648227.895 3548345.544 0
SO SRCPARAM 5515E32 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT33 Facility's ID=MT 8
** Description=Microturbine 8 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E33 POINT 648220.634 3548338.878 0
SO SRCPARAM 5515E33 .00252 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT34 Facility's ID=MT 9
** Description=Microturbine 9 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E34 POINT 648219.854 3548328.832 0
SO SRCPARAM 5515E34 .00252 4.02 529.26 95.74 .15
**********END OF 5515: Ragin Cajun 12 CTB 2
INFO************************************
************************************************************
** 18.82km away. Facility ID=40483 Name=Magic Cat 30 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9634 NOI
** lat,long,datum=32.26893, -103.711425, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.79tons/year
*****************Facility sources: ******************************
** NMED source ID=40483EQPT1 Facility's ID=ENG 1
** Description=Engine 1 Construction date=06-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40483E1 POINT 621360.632 3570973.936 0
SO SRCPARAM 40483E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=40483EQPT2 Facility's ID=ENG 2
** Description=Engine 2 Construction date=06-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40483E2 POINT 621368.168 3570980.957 0
SO SRCPARAM 40483E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40483: Magic Cat 30 Wellpad 1
INFO************************************
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** 18.91km away. Facility ID=38474 Name=Marlan Downey 09 State
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.326181, -103.376765, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=38474AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Emissions Construction date=07-JUN-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38474A1 VOLUME 652786.765 3577748.917 0
SO SRCPARAM 38474A1 .0264596 10 20 9.3
** NMED source ID=38474EQPT1 Facility's ID=GEN-1
** Description=230 hp, CI nonroad generator Construction date=27-JAN-21
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38474E1 POINT 652794.301 3577755.938 0
SO SRCPARAM 38474E1 .00126 3.05 857.59 77.9 .09
** NMED source ID=38474EQPT2 Facility's ID=HT-1
** Description=Heater Treater Construction date=07-JUN-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38474E2 VOLUME 652787.515 3577759.49 0
SO SRCPARAM 38474E2 .0005796 6.1 .47 .93
**********END OF 38474: Marlan Downey 09 State
INFO**********************************
************************************************************
** 18.97km away. Facility ID=39627 Name=Devon - Right Meow 31 CTB 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.256125, -103.718063, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.61tons/year
*****************Facility sources: ******************************
** NMED source ID=39627EQPT9 Facility's ID=HT-1
** Description=Heater Treater 3.0 MMBtu/hr Construction date=21-AUG-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39627E9 POINT 620752.363 3569546.897 0
SO SRCPARAM 39627E9 .0037799 9.14 888.71 9.07 .31
** NMED source ID=39627EQPT10 Facility's ID=HT-2
** Description=Heater Treater 3.0 MMBtu/hr Construction date=21-AUG-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39627E10 POINT 620759.899 3569553.918 0
SO SRCPARAM 39627E10 .0037799 9.14 888.71 9.07 .31
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** NMED source ID=39627EQPT13 Facility's ID=LPC 1
** Description=Compressor Engine Cummins G855 188 HP Construction date=21-AUG-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39627E13 POINT 620753.113 3569557.47 0
SO SRCPARAM 39627E13 .0037799 2.5 919.82 51.44 .1
** NMED source ID=39627RPNT2 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=21-AUG-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39627R2 VOLUME 620745.516 3569555.378 0
SO SRCPARAM 39627R2 .0277196 10 20 9.3
**********END OF 39627: Devon - Right Meow 31 CTB 5
INFO**********************************
************************************************************
** 18.98km away. Facility ID=38981 Name=OXY - Red Tank 19 CGL
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.361423, -103.617748, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.71tons/year
*****************Facility sources: ****************************
** NMED source ID=38981EQPT1 Facility's ID=REB 1
** Description=Reboiler 0.75 MMBtu/hr Construction date=07-JUN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38981E1 POINT 630051.773 3581337.703 0
SO SRCPARAM 38981E1 .00126 4.57 588.71 .12 .24
** NMED source ID=38981EQPT2 Facility's ID=REB 2
** Description=Reboiler 0.75 MMBtu/hr Construction date=07-JUN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38981E2 POINT 630059.309 3581344.724 0
SO SRCPARAM 38981E2 .00126 4.57 588.71 .12 .24
** NMED source ID=38981EQPT5 Facility's ID=ENG-1/ COMP-1
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8315hr/yr, 24hr/day
SO LOCATION 38981E5 POINT 630052.523 3581348.276 0
SO SRCPARAM 38981E5 .0125998 4.57 725.93 39.2 .34
** NMED source ID=38981EQPT6 Facility's ID=ENG-2/ COMP-2
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8206hr/yr, 24hr/day
SO LOCATION 38981E6 POINT 630044.926 3581346.184 0
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SO SRCPARAM 38981E6 .0125998 4.57 725.93 39.2 .34
** NMED source ID=38981EQPT7 Facility's ID=ENG-3/ COMP-3
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8495hr/yr, 24hr/day
SO LOCATION 38981E7 POINT 630040.685 3581339.284 0
SO SRCPARAM 38981E7 .0125998 4.57 725.93 39.2 .34
** NMED source ID=38981EQPT8 Facility's ID=ENG-4/ COMP-4
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8279hr/yr, 24hr/day
SO LOCATION 38981E8 POINT 630042.337 3581331.13 0
SO SRCPARAM 38981E8 .0125998 4.57 725.93 39.2 .34
** NMED source ID=38981EQPT9 Facility's ID=ENG-5/ COMP-5
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8175hr/yr, 24hr/day
SO LOCATION 38981E9 POINT 630049.286 3581326.168 0
SO SRCPARAM 38981E9 .0125998 4.57 725.93 39.2 .34
** NMED source ID=38981EQPT10 Facility's ID=ENG-6/ COMP-6
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8100hr/yr, 24hr/day
SO LOCATION 38981E10 POINT 630057.969 3581327.31 0
SO SRCPARAM 38981E10 .0125998 4.57 725.93 39.2 .34
** NMED source ID=38981RPNT2 Facility's ID=SITE SSM
** Description=Start-up, Shutdown, & Maintenance Construction date=07-JUN-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38981R2 VOLUME 630063.679 3581334.238 0
SO SRCPARAM 38981R2 3.3263472 10 260 9.3
**********END OF 38981: OXY - Red Tank 19 CGL
INFO**********************************
************************************************************
** 19.04km away. Facility ID=38597 Name=Thunderbird 1 Federal No1H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.06575, -103.416361, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=38597ACT 2 Facility's ID=ROAD
** Description=Haul Road Construction date=23-JUN-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38597@2 VOLUME 649484.694 3548820.613 0
SO SRCPARAM 38597@2 .0002898 1 .47 .93
** NMED source ID=38597EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38597E1 VOLUME 649492.23 3548827.634 0
SO SRCPARAM 38597E1 .0002898 6.1 .47 .93
**********END OF 38597: Thunderbird 1 Federal No1H
INFO**********************************
************************************************************
** 19.04km away. Facility ID=37175 Name=Sol 28 Federal Com 1H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6960 NOI
** lat,long,datum=32.095325, -103.67324, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=37175AREA2 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=28-SEP-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37175A2 VOLUME 625194.653 3551772.161 0
SO SRCPARAM 37175A2 .00126 1 .47 .93
** NMED source ID=37175EQPT11 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=28-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37175E11 VOLUME 625202.189 3551779.182 0
SO SRCPARAM 37175E11 .00126 6.71 .47 .93
**********END OF 37175: Sol 28 Federal Com 1H Battery
INFO**********************************
************************************************************
** 19.07km away. Facility ID=39821 Name=Cimarex - Red Tank 3 Fed 14H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3272, -103.67225, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.32tons/year
*****************Facility sources: ******************************
** NMED source ID=39821AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=15-JAN-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39821A1 VOLUME 624970.494 3577478.767 0
SO SRCPARAM 39821A1 .0125998 10 10 9.3
** NMED source ID=39821EQPT3 Facility's ID=H1
** Description=2.0 MMBtu/hr Heater Treater Construction date=15-JAN-21
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39821E3 VOLUME 624978.03 3577485.788 0
SO SRCPARAM 39821E3 .00126 4.57 .47 .93
** NMED source ID=39821EQPT9 Facility's ID=ENG 1
** Description=Compressor Engine G3306 TA Construction date=29-OCT-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39821E9 POINT 624971.244 3577489.34 0
SO SRCPARAM 39821E9 .0037799 3.66 846.48 25.09 .15
**********END OF 39821: Cimarex - Red Tank 3 Fed 14H
INFO**********************************
************************************************************
** 19.09km away. Facility ID=27969 Name=Covington A Federal NO 9 Battery
** Company ID=635 Name=OXY USA WTP Limited Partnership
** SIC=1311 NAIC=21112    Permit=3872 NOI
** lat,long,datum=32.35658, -103.6303, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=27969EQPT11 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 27969E11 VOLUME 628877.569 3580785.611 0
SO SRCPARAM 27969E11 .0005796 7.32 .47 .93
** NMED source ID=27969EQPT12 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 27969E12 VOLUME 628885.105 3580792.632 0
SO SRCPARAM 27969E12 .0005796 7.32 .47 .93
**********END OF 27969: Covington A Federal NO 9 Battery
INFO**********************************
************************************************************
** 19.2km away. Facility ID=35603 Name=Cotton Draw Unit 7 CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6327 NOI
** lat,long,datum=32.151428, -103.715314, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.09tons/year
*****************Facility sources: ****************************
** NMED source ID=35603AREA2 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35603A2 VOLUME 621150.039 3557943.476 0
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SO SRCPARAM 35603A2 .0277196 10 20 9.3
** NMED source ID=35603EQPT36 Facility's ID=9
** Description=Heater_EQ000175377 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35603E36 VOLUME 621157.575 3557950.497 0
SO SRCPARAM 35603E36 .0005796 9.14 .47 .93
** NMED source ID=35603EQPT51 Facility's ID=10
** Description=Heater_EQ000175378 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35603E51 VOLUME 621150.789 3557954.049 0
SO SRCPARAM 35603E51 .0005796 9.14 .47 .93
** NMED source ID=35603EQPT53 Facility's ID=11
** Description=Heater_EQ000175392 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35603E53 VOLUME 621143.192 3557951.957 0
SO SRCPARAM 35603E53 .0005796 9.14 .47 .93
**********END OF 35603: Cotton Draw Unit 7 CTB
INFO**********************************
************************************************************
** 19.21km away. Facility ID=41034 Name=Big Cat 9 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.323588, -103.67804, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.5tons/year
*****************Facility sources: ******************************
** NMED source ID=41034AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=17-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034A1 VOLUME 624430.427 3577071.597 0
SO SRCPARAM 41034A1 .0277196 10 20 9.3
** NMED source ID=41034EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=17-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E1 POINT 624437.963 3577078.618 0
SO SRCPARAM 41034E1 .0075599 5.85 723.71 34.47 .27
** NMED source ID=41034EQPT4 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=17-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 41034E4 VOLUME 624431.177 3577082.17 0
SO SRCPARAM 41034E4 .0037799 9.14 .47 .93
** NMED source ID=41034EQPT15 Facility's ID=ENG 2
** Description=ENG 2 Generator Engine Construction date=07-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E15 POINT 624423.58 3577080.078 0
SO SRCPARAM 41034E15 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=41034EQPT16 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=07-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E16 POINT 624419.339 3577073.178 0
SO SRCPARAM 41034E16 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=41034EQPT17 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=07-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E17 POINT 624420.991 3577065.024 0
SO SRCPARAM 41034E17 .0100798 3.17 1005.37 77.48 .15
**********END OF 41034: Big Cat 9 CTB 2 INFO************************************
************************************************************
** 19.26km away. Facility ID=40044 Name=Garfield Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.264087, -103.718448, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.27tons/year
*****************Facility sources: ******************************
** NMED source ID=40044EQPT5 Facility's ID=GEN-1
** Description=Generator, 449 hp, PSI HD 14.6 L Construction date=20-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40044E5 POINT 620705.555 3570429.123 0
SO SRCPARAM 40044E5 .0088199 3.05 1023.15 102.72 .1
** NMED source ID=40044EQPT14 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=13-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40044E14 POINT 620713.091 3570436.144 0
SO SRCPARAM 40044E14 .0138598 7.32 812.04 26.8 .38
** NMED source ID=40044EQPT15 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=13-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40044E15 POINT 620706.305 3570439.696 0
SO SRCPARAM 40044E15 .0138598 7.32 812.04 26.8 .38
** NMED source ID=40044EQPT16 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=13-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40044E16 POINT 620698.708 3570437.604 0
SO SRCPARAM 40044E16 .0138598 7.32 812.04 26.8 .38
** NMED source ID=40044EQPT17 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=13-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40044E17 POINT 620694.467 3570430.704 0
SO SRCPARAM 40044E17 .0138598 7.32 812.04 26.8 .38
**********END OF 40044: Garfield Booster Station
INFO**********************************
************************************************************
** 19.31km away. Facility ID=9292 Name=Ragin Cajun 12 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.061393, -103.419267, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=3.08tons/year
*****************Facility sources: ****************************
** NMED source ID=9292AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=12-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292A1 VOLUME 649217.433 3548333.564 0
SO SRCPARAM 9292A1 .0277196 10 20 9.3
** NMED source ID=9292EQPT3 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E3 POINT 649224.969 3548340.585 0
SO SRCPARAM 9292E3 .0264596 6.28 873.71 25.31 .41
** NMED source ID=9292EQPT4 Facility's ID=ENG 2
** Description=ENG 2 Gas Lift Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E4 POINT 649218.183 3548344.137 0
SO SRCPARAM 9292E4 .0075599 3.51 1000.37 71.17 .13
** NMED source ID=9292EQPT5 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E5 POINT 649210.586 3548342.045 0
SO SRCPARAM 9292E5 .0982784 3.17 1005.37 77.48 .15
** NMED source ID=9292EQPT6 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E6 POINT 649206.345 3548335.145 0
SO SRCPARAM 9292E6 .0982784 3.17 1005.37 77.48 .15
** NMED source ID=9292EQPT7 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E7 POINT 649207.997 3548326.991 0
SO SRCPARAM 9292E7 .0982784 3.17 1005.37 77.48 .15
** NMED source ID=9292EQPT8 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E8 POINT 649214.946 3548322.029 0
SO SRCPARAM 9292E8 .0982784 3.17 1005.37 77.48 .15
** NMED source ID=9292EQPT12 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=12-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E12 VOLUME 649223.629 3548323.171 0
SO SRCPARAM 9292E12 .0037799 9.14 .47 .93
** NMED source ID=9292EQPT13 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=12-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E13 VOLUME 649229.339 3548330.099 0
SO SRCPARAM 9292E13 .0037799 9.14 .47 .93
**********END OF 9292: Ragin Cajun 12 CTB 3
INFO**********************************
************************************************************
** 19.33km away. Facility ID=40185 Name=Golden Tee CTB
** Company ID=14056 Name=Avant Natural Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.354501, -103.4091, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.39tons/year
*****************Facility sources: ******************************
** NMED source ID=40185AREA1 Facility's ID=HR
** Description=Unpaved roads Construction date=22-OCT-21
** SCC=31088811
```

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40185A1 VOLUME 649696.249 3580842.999 0
SO SRCPARAM 40185A1 .0125998 10 10 9.3
** NMED source ID=40185EQPT1 Facility's ID=HT-1
** Description=Heater Treater Construction date=22-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40185E1 VOLUME 649703.785 3580850.02 0
SO SRCPARAM 40185E1 .00126 6.1 .47 .93
**********END OF 40185: Golden Tee CTB INFO**********************************
************************************************************
** 19.34km away. Facility ID=38766 Name=Devon - Marwari 28 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1059, -103.687698, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.41tons/year
*****************Facility sources: ****************************
** NMED source ID=38766AREA1 Facility's ID=ROAD-1
** Description=Haul roads Construction date=10-JAN-19
** SCC=31000299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2208hr/yr, 24hr/day
SO LOCATION 38766A1 VOLUME 623816.003 3552927.775 0
SO SRCPARAM 38766A1 .0277196 10 20 9.3
** NMED source ID=38766EQPT9 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater Construction date=10-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2208hr/yr, 24hr/day
SO LOCATION 38766E9 VOLUME 623823.539 3552934.796 0
SO SRCPARAM 38766E9 .0037799 9.14 .47 .93
** NMED source ID=38766EQPT16 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater Treater Construction date=17-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2208hr/yr, 24hr/day
SO LOCATION 38766E16 VOLUME 623816.753 3552938.348 0
SO SRCPARAM 38766E16 .0037799 9.14 .47 .93
**********END OF 38766: Devon - Marwari 28 CTB 1
INFO**********************************
************************************************************
** 19.4km away. Facility ID=39294 Name=Van Mar Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.0996, -103.6827, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=5.18tons/year
*****************Facility sources: ****************************
** NMED source ID=39294EQPT1 Facility's ID=ENG-1
```

```
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4172hr/yr, 24hr/day
SO LOCATION 39294E1 POINT 624296.137 3552235.128 0
SO SRCPARAM 39294E1 .0251996 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT2 Facility's ID=ENG-2
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4321hr/yr, 24hr/day
SO LOCATION 39294E2 POINT 624303.673 3552242.149 0
SO SRCPARAM 39294E2 .0214197 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT3 Facility's ID=ENG-3
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4415hr/yr, 24hr/day
SO LOCATION 39294E3 POINT 624296.887 3552245.701 0
SO SRCPARAM 39294E3 .0251996 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT4 Facility's ID=ENG-4
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3984hr/yr, 24hr/day
SO LOCATION 39294E4 POINT 624289.29 3552243.609 0
SO SRCPARAM 39294E4 .0251996 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT5 Facility's ID=ENG-5
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39294E5 POINT 624285.049 3552236.709 0
SO SRCPARAM 39294E5 .0251996 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT6 Facility's ID=ENG-6
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39294E6 POINT 624286.701 3552228.555 0
SO SRCPARAM 39294E6 .0251996 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT14 Facility's ID=RBL-1
** Description=0.64 MMBtu/hr TEG dehy reboiler Construction date=11-JAN-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4415hr/yr, 24hr/day
SO LOCATION 39294E14 POINT 624293.65 3552223.593 0
SO SRCPARAM 39294E14 .00126 7 588.71 1.1 .3
** NMED source ID=39294EQPT15 Facility's ID=ECD-1
** Description=25 Mscfd combustor Construction date=11-JAN-20
```

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** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4415hr/yr, 24hr/day
SO LOCATION 39294E15 POINT 624302.333 3552224.735 0
SO SRCPARAM 39294E15 .0017262 4.57 1273 20 .76
**********END OF 39294: Van Mar Compressor Station
INFO**********************************
************************************************************
** 19.42km away. Facility ID=39990 Name=Blondie 15 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.046132, -103.454927, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.33tons/year
*****************Facility sources: ****************************
** NMED source ID=39990AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=09-NOV-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39990A1 VOLUME 645875.07 3546592.952 0
SO SRCPARAM 39990A1 .0277196 10 20 9.3
** NMED source ID=39990EQPT16 Facility's ID=HT-1
** Description=Heater Treater 1 EQ000770232 Construction date=17-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39990E16 VOLUME 645882.606 3546599.973 0
SO SRCPARAM 39990E16 .0037799 9.14 .47 .93
**********END OF 39990: Blondie 15 CTB 3 INFO**********************************
************************************************************
** 19.51km away. Facility ID=39153 Name=Harrier Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.068444, -103.645064, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=3.86tons/year
*****************Facility sources: ****************************
** NMED source ID=39153EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E2 POINT 627891.026 3548825.268 0
SO SRCPARAM 39153E2 .0251996 7.01 714.26 75.65 .36
** NMED source ID=39153EQPT3 Facility's ID=RBL-1
** Description=Dehydrator Reboiler Construction date=24-SEP-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8499hr/yr, 23hr/day
SO LOCATION 39153E3 POINT 627898.562 3548832.289 0
SO SRCPARAM 39153E3 .00126 3.05 588.71 2.59 .3
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** NMED source ID=39153EQPT6 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E6 POINT 627891.776 3548835.841 0
SO SRCPARAM 39153E6 .0251996 7.01 714.26 75.65 .36
** NMED source ID=39153EQPT7 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8240hr/yr, 23hr/day
SO LOCATION 39153E7 POINT 627884.179 3548833.749 0
SO SRCPARAM 39153E7 .0125998 7.01 707.04 34.02 .46
** NMED source ID=39153EQPT8 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8339hr/yr, 23hr/day
SO LOCATION 39153E8 POINT 627879.938 3548826.849 0
SO SRCPARAM 39153E8 .0125998 7.01 707.04 34.02 .46
** NMED source ID=39153EQPT9 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E9 POINT 627881.59 3548818.695 0
SO SRCPARAM 39153E9 .0125998 7.01 707.04 34.02 .46
** NMED source ID=39153EQPT10 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E10 POINT 627888.539 3548813.733 0
SO SRCPARAM 39153E10 .0125998 7.01 707.04 34.02 .46
** NMED source ID=39153EQPT12 Facility's ID=Reb-2
** Description=Dehydrator Reboiler Construction date=24-SEP-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E12 POINT 627897.222 3548814.875 0
SO SRCPARAM 39153E12 .00126 3.05 588.71 2.59 .3
**********END OF 39153: Harrier Compressor Station
INFO**********************************
************************************************************
** 19.53km away. Facility ID=38648 Name=Devon - Alley Cat 17 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.308509, -103.695964, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.03tons/year
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*****************Facility sources: ****************************
** NMED source ID=38648EQPT7 Facility's ID=HT-1
** Description=Heater Treater 1 - 1.0MMBtu/hr Construction date=12-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38648E7 VOLUME 622763.534 3575379.255 0
SO SRCPARAM 38648E7 .00126 9.14 .47 .93
** NMED source ID=38648EQPT8 Facility's ID=HT-2
** Description=Heater Treater 2 - 1.0MMBtu/hr Construction date=12-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6144hr/yr, 24hr/day
SO LOCATION 38648E8 VOLUME 622771.07 3575386.276 0
SO SRCPARAM 38648E8 .00126 9.14 .47 .93
** NMED source ID=38648EQPT16 Facility's ID=GEN-1
** Description=Generator 1 Doosan PSI 21.9LNGP 550 HP Construction date=14-JAN-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6144hr/yr, 24hr/day
SO LOCATION 38648E16 POINT 622764.284 3575389.828 0
SO SRCPARAM 38648E16 .0100798 2.99 1005.37 215.19 .09
** NMED source ID=38648EQPT17 Facility's ID=GEN-2
** Description=Generator 2 Doosan PSI 21.9LNGP 550 HP Construction date=14-JAN-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6144hr/yr, 24hr/day
SO LOCATION 38648E17 POINT 622756.687 3575387.736 0
SO SRCPARAM 38648E17 .0100798 2.99 1005.37 215.19 .09
** NMED source ID=38648EQPT18 Facility's ID=LPC-2
** Description=Low Pressure Compressor Engine Construction date=08-NOV-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6144hr/yr, 24hr/day
SO LOCATION 38648E18 POINT 622752.446 3575380.836 0
SO SRCPARAM 38648E18 .0037799 2.99 919.82 51.42 .09
** NMED source ID=38648RPNT5 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=14-JAN-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38648R5 VOLUME 622754.098 3575372.682 0
SO SRCPARAM 38648R5 .0277196 10 20 9.3
**********END OF 38648: Devon - Alley Cat 17 CTB 3
INFO**********************************
************************************************************
** 19.54km away. Facility ID=40966 Name=Railsplitter 15 Wellpad 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9912 NOI
** lat,long,datum=32.042342, -103.464759, NAD83
```

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** Total Particulate Matter (2.5 microns or less) emissions=.37tons/year
*****************Facility sources: ****************************
** NMED source ID=40966EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=06-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40966E1 POINT 644952.678 3546159.545 0
SO SRCPARAM 40966E1 .0062999 5.85 723.71 34.44 .27
** NMED source ID=40966EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=06-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40966E2 POINT 644960.214 3546166.566 0
SO SRCPARAM 40966E2 .0037799 3.6 853.15 19.79 .17
**********END OF 40966: Railsplitter 15 Wellpad 6
INFO**********************************
************************************************************
** 19.56km away. Facility ID=30337 Name=Trionyx 6 Fed 1 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4442 NOI
** lat,long,datum=32.152656, -103.71995, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.07tons/year
*****************Facility sources: ****************************
** NMED source ID=30337AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=01-FEB-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 30337A1 VOLUME 620711.199 3558074.4 0
SO SRCPARAM 30337A1 .0277196 10 20 9.3
** NMED source ID=30337EQPT5 Facility's ID=HT-1
** Description=Heater_EQ000111802 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 30337E5 VOLUME 620718.735 3558081.421 0
SO SRCPARAM 30337E5 .0005796 9.14 .47 .93
** NMED source ID=30337EQPT6 Facility's ID=HT-2
** Description=Heater_EQ000111968 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 30337E6 VOLUME 620711.949 3558084.973 0
SO SRCPARAM 30337E6 .0005796 9.14 .47 .93
**********END OF 30337: Trionyx 6 Fed 1 Battery
INFO**********************************
************************************************************
** 19.58km away. Facility ID=39379 Name=Winnebago 30 State Com CTB No1 and No2
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** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.357364, -103.409222, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.29tons/year
*****************Facility sources: ****************************
** NMED source ID=39379EQPT16 Facility's ID=HTR-1
** Description=Heater Treater - CTB 1 Construction date=08-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7152hr/yr, 24hr/day
SO LOCATION 39379E16 VOLUME 649680.05 3581160.241 0
SO SRCPARAM 39379E16 .00126 4.88 .47 .93
** NMED source ID=39379EQPT20 Facility's ID=HTR-2
** Description=Heater Treater - CTB 2 Construction date=09-DEC-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379E20 VOLUME 649687.586 3581167.262 0
SO SRCPARAM 39379E20 .00126 4.88 .47 .93
** NMED source ID=39379EQPT27 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=16-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379E27 POINT 649680.8 3581170.814 0
SO SRCPARAM 39379E27 .0327595 7.32 910.37 37.8 .36
** NMED source ID=39379EQPT28 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=16-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379E28 POINT 649673.203 3581168.722 0
SO SRCPARAM 39379E28 .00252 3.05 898.15 17.22 .15
** NMED source ID=39379RPNT3 Facility's ID=SITE-SSM
** Description=Site SSM Emissions Construction date=16-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379R3 VOLUME 649668.962 3581161.822 0
SO SRCPARAM 39379R3 .0002898 1 .47 .93
**********END OF 39379: Winnebago 30 State Com CTB No1 and No2
INFO************************************
************************************************************
** 19.59km away. Facility ID=40009 Name=Franklin - FMM Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.166104, -103.322722, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.39tons/year
*****************Facility sources: ****************************
** NMED source ID=40009EQPT11 Facility's ID=HT-01
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** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3000hr/yr, 24hr/day
SO LOCATION 40009E11 VOLUME 658151.454 3560079.975 0
SO SRCPARAM 40009E11 .00126 6.1 .47 .93
** NMED source ID=40009EQPT12 Facility's ID=HT-02
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3000hr/yr, 24hr/day
SO LOCATION 40009E12 VOLUME 658158.99 3560086.996 0
SO SRCPARAM 40009E12 .00126 6.1 .47 .93
** NMED source ID=40009EQPT13 Facility's ID=HT-03
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E13 VOLUME 658152.204 3560090.548 0
SO SRCPARAM 40009E13 .00126 6.1 .47 .93
** NMED source ID=40009EQPT14 Facility's ID=HT-04
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E14 VOLUME 658144.607 3560088.456 0
SO SRCPARAM 40009E14 .00126 6.1 .47 .93
** NMED source ID=40009EQPT15 Facility's ID=HT-05
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E15 VOLUME 658140.366 3560081.556 0
SO SRCPARAM 40009E15 .00126 6.1 .47 .93
** NMED source ID=40009EQPT16 Facility's ID=HT-06
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E16 VOLUME 658142.018 3560073.402 0
SO SRCPARAM 40009E16 .00126 6.1 .47 .93
** NMED source ID=40009EQPT17 Facility's ID=HT-07
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E17 VOLUME 658148.967 3560068.44 0
SO SRCPARAM 40009E17 .00126 6.1 .47 .93
** NMED source ID=40009EQPT18 Facility's ID=HT-08
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
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** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E18 VOLUME 658157.65 3560069.582 0
SO SRCPARAM 40009E18 .00126 6.1 .47 .93
** NMED source ID=40009EQPT19 Facility's ID=HT-09
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E19 VOLUME 658163.36 3560076.51 0
SO SRCPARAM 40009E19 .00126 6.1 .47 .93
** NMED source ID=40009EQPT20 Facility's ID=HT-10
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E20 VOLUME 658162.795 3560085.691 0
SO SRCPARAM 40009E20 .00126 6.1 .47 .93
** NMED source ID=40009EQPT21 Facility's ID=HT-11
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E21 VOLUME 658155.96 3560092.169 0
SO SRCPARAM 40009E21 .00126 6.1 .47 .93
** NMED source ID=40009EQPT22 Facility's ID=HT-12
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E22 VOLUME 658146.324 3560092.246 0
SO SRCPARAM 40009E22 .00126 6.1 .47 .93
** NMED source ID=40009EQPT23 Facility's ID=HT-13
** Description=Heater, 750,000 Btu/hr Construction date=16-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40009E23 VOLUME 658139.063 3560085.58 0
SO SRCPARAM 40009E23 .00126 6.1 .47 .93
**********END OF 40009: Franklin - FMM Central Tank Battery
INFO************************************
************************************************************
** 19.6km away. Facility ID=41040 Name=Stray Cat 8 CTB 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.314883, -103.691626, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.19tons/year
*****************Facility sources: ******************************
** NMED source ID=41040AREA1 Facility's ID=ROAD-1
```

```
** Description=Haul Road Construction date=27-APR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41040A1 VOLUME 623163.322 3576090.857 0
SO SRCPARAM 41040A1 .0277196 10 20 9.3
** NMED source ID=41040EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=27-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41040E1 POINT 623170.858 3576097.878 0
SO SRCPARAM 41040E1 .0062999 5.85 723.71 34.47 .27
** NMED source ID=41040EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Engine Construction date=27-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41040E2 POINT 623164.072 3576101.43 0
SO SRCPARAM 41040E2 .0138598 5.85 772.59 37.4 .27
** NMED source ID=41040EQPT5 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=27-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41040E5 VOLUME 623156.475 3576099.338 0
SO SRCPARAM 41040E5 .00252 9.14 .47 .93
** NMED source ID=41040EQPT6 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=27-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41040E6 VOLUME 623152.234 3576092.438 0
SO SRCPARAM 41040E6 .00252 9.14 .47 .93
**********END OF 41040: Stray Cat 8 CTB 5 INFO************************************
************************************************************
** 19.6km away. Facility ID=40444 Name=Todd 36 Wellpad 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9606 NOI
** lat,long,datum=32.254405, -103.725426, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.57tons/year
*****************Facility sources: ******************************
** NMED source ID=40444EQPT3 Facility's ID=ENG-1
** Description=ENG 1 Construction date=26-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40444E3 POINT 620061.018 3569347.959 0
SO SRCPARAM 40444E3 .0151198 5.58 812.59 35.45 .2
** NMED source ID=40444EQPT4 Facility's ID=ENG-2
```

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** Description=ENG 2 Construction date=26-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40444E4 POINT 620068.554 3569354.98 0
SO SRCPARAM 40444E4 .0075599 4.39 778.71 13.8 .26
**********END OF 40444: Todd 36 Wellpad 4 INFO**********************************
************************************************************
** 19.61km away. Facility ID=40959 Name=Golden Tee CTB2
** Company ID=14056 Name=Avant Natural Resources
** SIC=1311 NAIC=21112    Permit=9925 NOI
** lat,long,datum=32.354946, -103.404594, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=40959EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=25-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40959E3 VOLUME 650119.554 3580898.647 0
SO SRCPARAM 40959E3 .00126 4.57 .47 .93
**********END OF 40959: Golden Tee CTB2 INFO**********************************
************************************************************
** 19.67km away. Facility ID=40967 Name=Railsplitter 15 Wellpad 7
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9913 NOI
** lat,long,datum=32.041833, -103.46205, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.37tons/year
*****************Facility sources: ****************************
** NMED source ID=40967EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40967E1 POINT 645209.284 3546106.758 0
SO SRCPARAM 40967E1 .0062999 5.85 723.71 34.44 .27
** NMED source ID=40967EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=14-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40967E2 POINT 645216.82 3546113.779 0
SO SRCPARAM 40967E2 .0037799 3.6 853.15 19.79 .17
**********END OF 40967: Railsplitter 15 Wellpad 7
INFO**********************************
************************************************************
** 19.69km away. Facility ID=39395 Name=Murphy Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257753, -103.725422, NAD83
```

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** Total Particulate Matter (2.5 microns or less) emissions=4.12tons/year
*****************Facility sources: ******************************
** NMED source ID=39395EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=05-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3319hr/yr, 24hr/day
SO LOCATION 39395E1 POINT 620056.987 3569719.119 0
SO SRCPARAM 39395E1 .0125998 7.32 813.71 35.11 .38
** NMED source ID=39395EQPT2 Facility's ID=GEN-1
** Description=362 hp Gravity NG250 Construction date=05-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E2 POINT 620064.523 3569726.14 0
SO SRCPARAM 39395E2 .0075599 3.15 1005.37 110.34 .1
** NMED source ID=39395EQPT4 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=05-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5668hr/yr, 24hr/day
SO LOCATION 39395E4 POINT 620057.737 3569729.692 0
SO SRCPARAM 39395E4 .0125998 7.32 813.71 35.11 .38
** NMED source ID=39395EQPT5 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=05-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5026hr/yr, 24hr/day
SO LOCATION 39395E5 POINT 620050.14 3569727.6 0
SO SRCPARAM 39395E5 .0125998 7.32 813.71 35.11 .38
** NMED source ID=39395EQPT6 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=05-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E6 POINT 620045.899 3569720.7 0
SO SRCPARAM 39395E6 .0125998 7.32 813.71 35.11 .38
** NMED source ID=39395EQPT7 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=05-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E7 POINT 620047.551 3569712.546 0
SO SRCPARAM 39395E7 .0125998 7.32 813.71 35.11 .38
** NMED source ID=39395EQPT9 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=18-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E9 POINT 620054.5 3569707.584 0
```

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SO SRCPARAM 39395E9 .0163797 7.32 710.37 48.52 .38
** NMED source ID=39395EQPT10 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=18-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E10 POINT 620063.183 3569708.726 0
SO SRCPARAM 39395E10 .0163797 7.32 710.37 48.52 .38
** NMED source ID=39395EQPT11 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=18-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E11 POINT 620068.893 3569715.654 0
SO SRCPARAM 39395E11 .0163797 7.32 710.37 48.52 .38
**********END OF 39395: Murphy Booster Station
INFO**********************************
************************************************************
** 19.7km away. Facility ID=38122 Name=James 19 Federal 31H, 34H, 20-29 Fed 37H-39H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2974, -103.706275, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.64tons/year
*****************Facility sources: ******************************
** NMED source ID=38122AREA1 Facility's ID=HR
** Description=Haul Road Construction date=11-JAN-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38122A1 VOLUME 621807.635 3574135.948 0
SO SRCPARAM 38122A1 .0113398 10 10 9.3
** NMED source ID=38122EQPT20 Facility's ID=ENG2
** Description=Compressor Engine Construction date=11-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38122E20 POINT 621815.171 3574142.969 0
SO SRCPARAM 38122E20 .0050399 4.57 808.15 23.44 .15
** NMED source ID=38122EQPT21 Facility's ID=ENG3
** Description=Compressor Engine Construction date=11-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38122E21 POINT 621808.385 3574146.521 0
SO SRCPARAM 38122E21 .0050399 4.57 808.15 23.44 .15
** NMED source ID=38122EQPT23 Facility's ID=H1
** Description=2.0 MMBTU Heater Treater Construction date=11-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38122E23 VOLUME 621800.788 3574144.429 0
SO SRCPARAM 38122E23 .00126 4.57 .47 .93
** NMED source ID=38122EQPT24 Facility's ID=H2
** Description=2.0 MMBTU Heater Treater Construction date=11-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38122E24 VOLUME 621796.547 3574137.529 0
SO SRCPARAM 38122E24 .00126 4.57 .47 .93
** NMED source ID=38122EQPT25 Facility's ID=ENG4
** Description=Compressor Engine Construction date=26-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38122E25 POINT 621798.199 3574129.375 0
SO SRCPARAM 38122E25 .0037799 4.57 808.15 23.44 .15
**********END OF 38122: James 19 Federal 31H, 34H, 20-29 Fed 37H-39H
INFO**********************************
************************************************************
** 19.72km away. Facility ID=758 Name=Cotton Draw Treater
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21113    Permit=2188 GCP4
** lat,long,datum=32.136589, -103.714068, Unknown
** Total Particulate Matter (2.5 microns or less) emissions=10tons/year
*****************Facility sources: ******************************
** NMED source ID=758RPNT2 Facility's ID=SSM
** Description=SSM Construction date=06-MAR-13
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 758R2 POINT 621287.196 3556299.869 0
SO SRCPARAM 758R2 .287666 1.8 572.6 15 .1
**********END OF 758: Cotton Draw Treater INFO**************************************
************************************************************
** 19.76km away. Facility ID=35528 Name=Devon - Cotton Draw Unit 25 Bone Spring CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1876, -103.731956, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.61tons/year
*****************Facility sources: ******************************
** NMED source ID=35528EQPT2 Facility's ID=10
** Description=Heater Treater 1 Construction date=02-AUG-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35528E2 POINT 619533.273 3561934.796 0
SO SRCPARAM 35528E2 .00126 9.14 708.71 2.82 .34
** NMED source ID=35528EQPT3 Facility's ID=9
** Description=Heater Treater 2 Construction date=02-AUG-18
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35528E3 POINT 619540.809 3561941.817 0
SO SRCPARAM 35528E3 .00126 9.14 708.71 2.82 .34
** NMED source ID=35528EQPT19 Facility's ID=44
** Description=Heater Treater 3 Construction date=02-AUG-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35528E19 POINT 619534.023 3561945.369 0
SO SRCPARAM 35528E19 .00126 9.14 708.71 2.82 .34
** NMED source ID=35528EQPT21 Facility's ID=41
** Description=Low Pressure Compressor Engine (LPC) Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35528E21 POINT 619526.426 3561943.277 0
SO SRCPARAM 35528E21 .0037799 2.5 919.82 51.42 .1
** NMED source ID=35528EQPT22 Facility's ID=43
** Description=Low Pressure Compressor Engine (LPC) Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35528E22 POINT 619522.185 3561936.377 0
SO SRCPARAM 35528E22 .0037799 2.5 919.82 51.42 .1
** NMED source ID=35528RPNT3 Facility's ID=25
** Description=Haul Roads Construction date=02-AUG-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35528R3 VOLUME 619523.837 3561928.223 0
SO SRCPARAM 35528R3 .0302395 10 20 9.3
**********END OF 35528: Devon - Cotton Draw Unit 25 Bone Spring CTB
INFO***********************************
************************************************************
** 19.79km away. Facility ID=40452 Name=Salado Draw 16-9 South Battery No1
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.037731, -103.573011, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.02tons/year
*****************Facility sources: ****************************
** NMED source ID=40452AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=11-MAY-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452A1 VOLUME 634737.65 3545508.157 0
SO SRCPARAM 40452A1 .0088199 10 10 9.3
** NMED source ID=40452EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=25-OCT-22
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E3 POINT 634745.186 3545515.178 0
SO SRCPARAM 40452E3 .0075599 6.17 695.37 37.61 .25
** NMED source ID=40452EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E4 POINT 634738.4 3545518.73 0
SO SRCPARAM 40452E4 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40452EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E5 POINT 634730.803 3545516.638 0
SO SRCPARAM 40452E5 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40452EQPT12 Facility's ID=HT-01
** Description=Heater Treater Construction date=25-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E12 POINT 634726.562 3545509.738 0
SO SRCPARAM 40452E12 .00126 4.57 533.15 7.86 .46
** NMED source ID=40452EQPT13 Facility's ID=HT-02
** Description=Heater Treater Construction date=25-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E13 POINT 634728.214 3545501.584 0
SO SRCPARAM 40452E13 .00126 4.57 533.15 3.93 .46
** NMED source ID=40452EQPT14 Facility's ID=HT-03
** Description=Heater Treater Construction date=25-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E14 POINT 634735.163 3545496.622 0
SO SRCPARAM 40452E14 .00126 4.57 533.15 3.93 .46
** NMED source ID=40452EQPT43 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=11-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E43 POINT 634743.846 3545497.764 0
SO SRCPARAM 40452E43 .0075599 4.42 989.82 70.44 .13
** NMED source ID=40452EQPT45 Facility's ID=GEN-01
** Description=Generator   Engine Construction date=11-MAY-23
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E45 POINT 634749.556 3545504.692 0
SO SRCPARAM 40452E45 .0100798 4.51 840.37 177.36 .09
** NMED source ID=40452EQPT46 Facility's ID=GEN-02
** Description=Generator   Engine Construction date=11-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E46 POINT 634748.991 3545513.873 0
SO SRCPARAM 40452E46 .0100798 4.51 840.37 177.36 .09
** NMED source ID=40452EQPT47 Facility's ID=HT-04
** Description=Heater Treater Construction date=11-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E47 VOLUME 634742.156 3545520.351 0
SO SRCPARAM 40452E47 .00126 4.57 .47 .93
** NMED source ID=40452EQPT48 Facility's ID=HT-05
** Description=Heater Treater Construction date=11-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E48 VOLUME 634732.52 3545520.428 0
SO SRCPARAM 40452E48 .00126 4.57 .47 .93
** NMED source ID=40452EQPT51 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=11-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E51 POINT 634725.259 3545513.762 0
SO SRCPARAM 40452E51 .0075599 4.42 989.82 70.44 .13
**********END OF 40452: Salado Draw 16-9 South Battery No1
INFO**********************************
************************************************************
** 19.81km away. Facility ID=40969 Name=Railsplitter 15 Wellpad 9
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9914 NOI
** lat,long,datum=32.042597, -103.454508, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.5tons/year
*****************Facility sources: ****************************
** NMED source ID=40969EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40969E1 POINT 645920.244 3546201.625 0
SO SRCPARAM 40969E1 .0062999 5.85 723.71 34.44 .27
** NMED source ID=40969EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=14-MAR-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40969E2 POINT 645927.78 3546208.646 0
SO SRCPARAM 40969E2 .0075599 4.39 778.71 13.8 .26
**********END OF 40969: Railsplitter 15 Wellpad 9
INFO**********************************
************************************************************
** 19.86km away. Facility ID=40448 Name=Right Meow 30 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9614 NOI
** lat,long,datum=32.281673, -103.71733, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.79tons/year
*****************Facility sources: ****************************
** NMED source ID=40448EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Construction date=04-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40448E1 POINT 620787.556 3572379.952 0
SO SRCPARAM 40448E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=40448EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Construction date=04-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40448E2 POINT 620795.092 3572386.973 0
SO SRCPARAM 40448E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40448: Right Meow 30 Wellpad 2
INFO**********************************
************************************************************
** 19.87km away. Facility ID=27900 Name=Red Tank 34 Federal No2 Bat
** Company ID=635 Name=OXY USA WTP Limited Partnership
** SIC=1311 NAIC=21112    Permit=3844 NOI
** lat,long,datum=32.349806, -103.656, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=27900EQPT7 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 27900E7 VOLUME 626468.645 3580003.978 0
SO SRCPARAM 27900E7 .0002898 3.66 .47 .93
**********END OF 27900: Red Tank 34 Federal No2 Bat
INFO**********************************
************************************************************
** 19.88km away. Facility ID=31968 Name=Gaucho Unit 6H CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4928 NOI
```

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** lat,long,datum=32.386111, -103.485261, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.55tons/year
*****************Facility sources: ****************************
** NMED source ID=31968AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8664hr/yr, 24hr/day
SO LOCATION 31968A1 VOLUME 642479.503 3584243.486 0
SO SRCPARAM 31968A1 1.0898827 10 90 9.3
** NMED source ID=31968EQPT1 Facility's ID=006 + 009
** Description=Heater Treater 1n+2 Construction date=
** SCC=unknown
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31968E1 VOLUME 642487.039 3584250.507 0
SO SRCPARAM 31968E1 .0037799 1 .47 .93
** NMED source ID=31968EQPT5 Facility's ID=Heater_7087
** Description=Heater_EQ000067087 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8664hr/yr, 24hr/day
SO LOCATION 31968E5 VOLUME 642480.253 3584254.059 0
SO SRCPARAM 31968E5 .0005796 9.14 .47 .93
**********END OF 31968: Gaucho Unit 6H CTB INFO************************************
************************************************************
** 19.94km away. Facility ID=39957 Name=Franklin - Green Light Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.166067, -103.318878, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.39tons/year
*****************Facility sources: ****************************
** NMED source ID=39957EQPT3 Facility's ID=HT-1 to HT-13
** Description=Heater Treater 0.75 MMBTU/hr Construction date=05-MAY-21
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7512hr/yr, 24hr/day
SO LOCATION 39957E3 VOLUME 658514.016 3560081.531 0
SO SRCPARAM 39957E3 .0163797 6.1 .47 .93
**********END OF 39957: Franklin - Green Light Central Tank Battery
INFO**********************************
************************************************************
** 19.96km away. Facility ID=39735 Name=Devon - Railsplitter 15 CTB 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.039653, -103.459704, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.37tons/year
*****************Facility sources: ****************************
** NMED source ID=39735AREA1 Facility's ID=ROAD-1
** Description=unpaved haul roads Construction date=06-NOV-20
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** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39735A1 VOLUME 645434.258 3545868.239 0
SO SRCPARAM 39735A1 .0277196 10 20 9.3
** NMED source ID=39735EQPT10 Facility's ID=HT-1
** Description=heater treater 1 Construction date=06-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39735E10 VOLUME 645441.794 3545875.26 0
SO SRCPARAM 39735E10 .0037799 9.14 .47 .93
** NMED source ID=39735EQPT11 Facility's ID=HT-2
** Description=heater treater 2 Construction date=06-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39735E11 VOLUME 645435.008 3545878.812 0
SO SRCPARAM 39735E11 .0037799 9.14 .47 .93
**********END OF 39735: Devon - Railsplitter 15 CTB 6
INFO**********************************
************************************************************
** 19.96km away. Facility ID=39295 Name=Devon - Todd 36 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257308, -103.728556, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.66tons/year
*****************Facility sources: ****************************
** NMED source ID=39295AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=31-DEC-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39295A1 VOLUME 619762.348 3569666.285 0
SO SRCPARAM 39295A1 .0277196 10 20 9.3
** NMED source ID=39295EQPT9 Facility's ID=HT-1
** Description=3.0 MMBtu/h Heater Treater Construction date=31-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39295E9 VOLUME 619769.884 3569673.306 0
SO SRCPARAM 39295E9 .0037799 9.14 .47 .93
** NMED source ID=39295EQPT10 Facility's ID=HT-2
** Description=3.0 MMBtu/h Heater Treater Construction date=31-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39295E10 VOLUME 619763.098 3569676.858 0
SO SRCPARAM 39295E10 .0037799 9.14 .47 .93
** NMED source ID=39295EQPT13 Facility's ID=GEN-1
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** Description=Doosan 21.9L Generator 550 hp Construction date=31-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39295E13 POINT 619755.501 3569674.766 0
SO SRCPARAM 39295E13 .0100798 3.51 1005.37 215.24 .09
** NMED source ID=39295EQPT14 Facility's ID=GEN-4
** Description=Doosan 21.9L Generator 550 hp Construction date=31-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39295E14 POINT 619751.26 3569667.866 0
SO SRCPARAM 39295E14 .0100798 3.51 1005.37 215.24 .09
** NMED source ID=39295EQPT15 Facility's ID=GEN-2
** Description=Doosan 14.6L Generator 362 hp Construction date=31-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39295E15 POINT 619752.912 3569659.712 0
SO SRCPARAM 39295E15 .0075599 3.51 1005.37 136.19 .09
** NMED source ID=39295EQPT16 Facility's ID=GEN-3
** Description=Doosan 14.6L Generator 362 hp Construction date=31-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39295E16 POINT 619759.861 3569654.75 0
SO SRCPARAM 39295E16 .0075599 3.51 1005.37 136.19 .09
**********END OF 39295: Devon - Todd 36 CTB 3
INFO************************************
************************************************************
** 19.99km away. Facility ID=38973 Name=Jennings 34 W1MD Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=8318 NOI
** lat,long,datum=32.079202, -103.668447, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.19tons/year
*****************Facility sources: ******************************
** NMED source ID=38973AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=01-JAN-20
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38973A1 VOLUME 625669.032 3549990.387 0
SO SRCPARAM 38973A1 .0088199 10 10 9.3
** NMED source ID=38973EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=31000312
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38973E1 POINT 625676.568 3549997.408 0
SO SRCPARAM 38973E1 .0050399 4.11 894.82 36.52 .13
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** NMED source ID=38973EQPT4 Facility's ID=HT-01
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38973E4 VOLUME 625669.782 3550000.96 0
SO SRCPARAM 38973E4 .00126 4.57 .47 .93
**********END OF 38973: Jennings 34 W1MD Fed Com 1H Battery
INFO**********************************
************************************************************
** 20.03km away. Facility ID=39457 Name=Todd 36 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.254986, -103.729986, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.04tons/year
****************Facility sources: ****************************
** NMED source ID=39457EQPT1 Facility's ID=ENG 2
** Description=Engine 2_EQ000641108 Cat G3306TA 203hp Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4128hr/yr, 24hr/day
SO LOCATION 39457E1 POINT 619630.687 3569407.277 0
SO SRCPARAM 39457E1 .0037799 3.6 813.15 19.66 .17
** NMED source ID=39457EQPT2 Facility's ID=ENG 1
** Description=Engine 1_EQ000641104 Cummins KTA19 380hp Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4128hr/yr, 24hr/day
SO LOCATION 39457E2 POINT 619638.223 3569414.298 0
SO SRCPARAM 39457E2 .0075599 4.39 1004.26 17.56 .26
** NMED source ID=39457EQPT3 Facility's ID=ENG 3
** Description=Cat G3306TA 203hp Construction date=30-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39457E3 POINT 619631.437 3569417.85 0
SO SRCPARAM 39457E3 .0037799 3.6 813.15 19.72 .17
** NMED source ID=39457EQPT4 Facility's ID=ENG 4
** Description=Cummins GTA38 760hp Construction date=30-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39457E4 POINT 619623.84 3569415.758 0
SO SRCPARAM 39457E4 .0151198 5.85 952.59 31.94 .27
**********END OF 39457: Todd 36 Wellpad 3 INFO**********************************
************************************************************
** 20.04km away. Facility ID=8248 Name=Coriander Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.3643, -103.63459, NAD83
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** Total Particulate Matter (2.5 microns or less) emissions=5.23tons/year
*****************Facility sources: ******************************
** NMED source ID=8248AREA1 Facility's ID=HAUL
** Description=Haul Road Construction date=13-DEC-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248A1 VOLUME 628462.963 3581636.311 0
SO SRCPARAM 8248A1 .0050399 1 .47 .93
** NMED source ID=8248EQPT2 Facility's ID=E-1
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E2 POINT 628470.499 3581643.332 0
SO SRCPARAM 8248E2 .0239396 6.52 689.26 26.34 .61
** NMED source ID=8248EQPT3 Facility's ID=E-2
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E3 POINT 628463.713 3581646.884 0
SO SRCPARAM 8248E3 .0239396 6.52 689.26 26.34 .61
** NMED source ID=8248EQPT4 Facility's ID=E-3
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E4 POINT 628456.116 3581644.792 0
SO SRCPARAM 8248E4 .0239396 6.52 689.26 26.34 .61
** NMED source ID=8248EQPT5 Facility's ID=E-4
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E5 POINT 628451.875 3581637.892 0
SO SRCPARAM 8248E5 .0176397 6.52 698.15 28.4 .51
** NMED source ID=8248EQPT6 Facility's ID=E-5
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E6 POINT 628453.527 3581629.738 0
SO SRCPARAM 8248E6 .0176397 6.52 698.15 28.4 .51
** NMED source ID=8248EQPT7 Facility's ID=E-6
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E7 POINT 628460.476 3581624.776 0
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SO SRCPARAM 8248E7 .0176397 6.52 698.15 28.4 .51
** NMED source ID=8248EQPT8 Facility's ID=E-7
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E8 POINT 628469.159 3581625.918 0
SO SRCPARAM 8248E8 .0176397 6.52 698.15 28.4 .51
** NMED source ID=8248EQPT10 Facility's ID=GEN-1
** Description=Generator Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E10 POINT 628474.869 3581632.846 0
SO SRCPARAM 8248E10 .0050399 1.8 572.59 15 .09
** NMED source ID=8248EQPT11 Facility's ID=H-1
** Description=H-1 Construction date=13-DEC-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E11 POINT 628474.304 3581642.027 0
SO SRCPARAM 8248E11 .00126 4.72 477.59 8.33 .23
**********END OF 8248: Coriander Compressor Station
INFO************************************
************************************************************
** 20.05km away. Facility ID=38154 Name=Ophelia 22 West CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0343, -103.5677, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=38154EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=11-MAR-22
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38154E6 VOLUME 635244.21 3545134.441 0
SO SRCPARAM 38154E6 .00252 7.32 .47 .93
**********END OF 38154: Ophelia 22 West CTB
INFO************************************
************************************************************
** 20.06km away. Facility ID=40206 Name=Devon - Right Meow 30 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.279834, -103.720615, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.34tons/year
*****************Facility sources: ******************************
** NMED source ID=40206AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=
** SCC=31088811
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40206A1 VOLUME 620480.621 3572172.387 0
SO SRCPARAM 40206A1 .0277196 10 20 9.3
** NMED source ID=40206EQPT1 Facility's ID=HT-1
** Description=Heater Treater, 3 MMBtu/hr Construction date=04-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40206E1 VOLUME 620488.157 3572179.408 0
SO SRCPARAM 40206E1 .0037799 9.14 .47 .93
** NMED source ID=40206EQPT2 Facility's ID=HT-2
** Description=Heater Treater, 1 MMBtu/hr Construction date=04-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40206E2 VOLUME 620481.371 3572182.96 0
SO SRCPARAM 40206E2 .00126 9.14 .47 .93
** NMED source ID=40206EQPT11 Facility's ID=LPC 1
** Description=Compressor Engine (GM 5.7L) 4SRB 92 Hp Construction date=04-NOV-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40206E11 POINT 620473.774 3572180.868 0
SO SRCPARAM 40206E11 .00252 2.68 922.04 67.27 .08
**********END OF 40206: Devon - Right Meow 30 CTB 1
INFO**********************************
************************************************************
** 20.07km away. Facility ID=31770 Name=Gaucho Unit 7 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4857 NOI
** lat,long,datum=32.389017, -103.493867, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.37tons/year
*****************Facility sources: ****************************
** NMED source ID=31770AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8544hr/yr, 24hr/day
SO LOCATION 31770A1 VOLUME 641665.387 3584554.228 0
SO SRCPARAM 31770A1 1.0898827 10 90 9.3
** NMED source ID=31770EQPT4 Facility's ID=Heater_0023
** Description=Heater_EQ000130023 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8544hr/yr, 24hr/day
SO LOCATION 31770E4 VOLUME 641672.923 3584561.249 0
SO SRCPARAM 31770E4 .0005796 9.14 .47 .93
**********END OF 31770: Gaucho Unit 7 Battery
INFO**********************************
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** 20.09km away. Facility ID=35583 Name=Cotton Draw - Scissortail Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.171111, -103.731944, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1tons/year
*****************Facility sources: ****************************
** NMED source ID=35583EQPT1 Facility's ID=2
** Description=1380-hp Caterpillar G3516B Construction date=04-FEB-16
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8265hr/yr, 24hr/day
SO LOCATION 35583E1 POINT 619555.954 3560106.881 0
SO SRCPARAM 35583E1 .0138598 4.57 806.48 33.38 .41
** NMED source ID=35583EQPT2 Facility's ID=3
** Description=1380-hp Caterpillar G3516B Construction date=04-FEB-16
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8345hr/yr, 24hr/day
SO LOCATION 35583E2 POINT 619563.49 3560113.902 0
SO SRCPARAM 35583E2 .0138598 4.57 806.48 33.38 .41
**********END OF 35583: Cotton Draw - Scissortail Compressor Station
INFO**********************************
************************************************************
** 20.11km away. Facility ID=38265 Name=Cave Lion 5 Federal 1H-5H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.065611, -103.396472, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.07tons/year
*****************Facility sources: ****************************
** NMED source ID=38265EQPT3 Facility's ID=HTR-01
** Description=Heater Treater Burner-01 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38265E3 VOLUME 651362.523 3548832.935 0
SO SRCPARAM 38265E3 .0005796 4.57 .47 .93
** NMED source ID=38265RPNT2 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38265R2 VOLUME 651370.059 3548839.956 0
SO SRCPARAM 38265R2 .00126 1 .47 .93
**********END OF 38265: Cave Lion 5 Federal 1H-5H
INFO**********************************
************************************************************
** 20.11km away. Facility ID=39145 Name=Devon - Green Wave 20 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
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** lat,long,datum=32.031692, -103.493778, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=3.02tons/year
*****************Facility sources: ****************************
** NMED source ID=39145AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=20-SEP-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 39145A1 VOLUME 642228.982 3544940.292 0
SO SRCPARAM 39145A1 .2771956 10 20 9.3
** NMED source ID=39145EQPT9 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater 1 Construction date=20-SEP-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39145E9 VOLUME 642236.518 3544947.313 0
SO SRCPARAM 39145E9 .0037799 9.14 .47 .93
** NMED source ID=39145EQPT10 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater Treater 2 Construction date=20-SEP-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39145E10 VOLUME 642229.732 3544950.865 0
SO SRCPARAM 39145E10 .0037799 9.14 .47 .93
**********END OF 39145: Devon - Green Wave 20 CTB 3
INFO*************************************
************************************************************
** 20.11km away. Facility ID=39427 Name=Marlan East Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3329, -103.366665, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.56tons/year
*****************Facility sources: ****************************
** NMED source ID=39427AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Emissions Construction date=31-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39427A1 VOLUME 653726.178 3578508.289 0
SO SRCPARAM 39427A1 .0088199 1 .47 .93
** NMED source ID=39427EQPT1 Facility's ID=HT-1
** Description=1.0 MMBtu/hr Heater Treater Construction date=24-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39427E1 VOLUME 653733.714 3578515.31 0
SO SRCPARAM 39427E1 .0005796 6.1 .47 .93
** NMED source ID=39427EQPT4 Facility's ID=GEN-1
** Description=230 hp FPT diesel generator Construction date=31-MAR-20
** SCC=20200102
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1464hr/yr, 4hr/day
SO LOCATION 39427E4 POINT 653726.928 3578518.862 0
SO SRCPARAM 39427E4 .0100798 3.51 742.04 18.26 .02
** NMED source ID=39427EQPT21 Facility's ID=ENG-2
** Description=84-hp Cummins G5.9 engine Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E21 POINT 653719.331 3578516.77 0
SO SRCPARAM 39427E21 .00126 6.1 1005.37 21.68 .1
** NMED source ID=39427EQPT22 Facility's ID=ENG-3
** Description=84-hp Cummins G5.9 engine Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E22 POINT 653715.09 3578509.87 0
SO SRCPARAM 39427E22 .00126 6.1 1005.37 21.68 .1
** NMED source ID=39427EQPT24 Facility's ID=GEN-2
** Description=268 hp PSI 11.1L generator Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E24 POINT 653716.742 3578501.716 0
SO SRCPARAM 39427E24 .0050399 6.1 1023.15 8.16 .3
** NMED source ID=39427EQPT26 Facility's ID=GEN-4
** Description=581 hp PSI 21.9L generator Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E26 POINT 653723.691 3578496.754 0
SO SRCPARAM 39427E26 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=39427EQPT27 Facility's ID=GEN-5
** Description=581 hp PSI 21.9L generator Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E27 POINT 653732.374 3578497.896 0
SO SRCPARAM 39427E27 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=39427EQPT28 Facility's ID=GEN-6
** Description=581 hp PSI 21.9L generator Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E28 POINT 653738.084 3578504.824 0
SO SRCPARAM 39427E28 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=39427EQPT29 Facility's ID=HT-2
** Description=1.0 MMBtu/hr Heater Treater Construction date=23-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E29 VOLUME 653737.519 3578514.005 0
SO SRCPARAM 39427E29 .00126 6.1 .47 .93
** NMED source ID=39427EQPT35 Facility's ID=GEN-3
** Description=581 hp PSI 21.9L generator Construction date=09-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E35 POINT 653730.684 3578520.483 0
SO SRCPARAM 39427E35 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=39427EQPT37 Facility's ID=HT-3
** Description=1.0 MMBtu/hr Heater Treater Construction date=09-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E37 VOLUME 653721.048 3578520.56 0
SO SRCPARAM 39427E37 .00126 6.1 .47 .93
** NMED source ID=39427EQPT42 Facility's ID=GEN-7
** Description=390 hp PSI 14.6L generator Construction date=01-JAN-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E42 POINT 653713.787 3578513.894 0
SO SRCPARAM 39427E42 .0075599 4.51 1023.15 112.53 .1
**********END OF 39427: Marlan East Tank Battery
INFO************************************
************************************************************
** 20.12km away. Facility ID=40478 Name=Right Meow 30 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9631 NOI
** lat,long,datum=32.281641, -103.720421, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.79tons/year
*****************Facility sources: ******************************
** NMED source ID=40478EQPT1 Facility's ID=ENG 1
** Description=Other Construction date=02-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40478E1 POINT 620496.502 3572372.928 0
SO SRCPARAM 40478E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=40478EQPT2 Facility's ID=ENG 2
** Description=Other Construction date=02-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40478E2 POINT 620504.038 3572379.949 0
SO SRCPARAM 40478E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40478: Right Meow 30 Wellpad 1
INFO************************************
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** 20.14km away. Facility ID=30324 Name=Aldabra 25 Fed 6H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4438 NOI
** lat,long,datum=32.26878, -103.72639, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.2tons/year
*****************Facility sources: ****************************
** NMED source ID=30324AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8400hr/yr, 24hr/day
SO LOCATION 30324A1 VOLUME 619951.294 3570940.478 0
SO SRCPARAM 30324A1 1.0898827 10 90 9.3
** NMED source ID=30324EQPT4 Facility's ID=Heater_4747
** Description=Heater_EQ000114747 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8400hr/yr, 24hr/day
SO LOCATION 30324E4 VOLUME 619958.83 3570947.499 0
SO SRCPARAM 30324E4 .0005796 9.14 .47 .93
**********END OF 30324: Aldabra 25 Fed 6H INFO************************************
************************************************************
** 20.17km away. Facility ID=38429 Name=Sand Dunes CTB 12
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=8173 NOI
** lat,long,datum=32.22853, -103.737, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.6tons/year
*****************Facility sources: ****************************
** NMED source ID=38429EQPT3 Facility's ID=HTR-1
** Description=Heater Treater 4 MMBtu/hr Construction date=29-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7368hr/yr, 20hr/day
SO LOCATION 38429E3 POINT 619004.444 3566466.611 0
SO SRCPARAM 38429E3 .0050399 6.71 533.15 4.51 .46
** NMED source ID=38429EQPT6 Facility's ID=HPS-1
** Description=Heated Production Separator 4 MMBtu/hr Construction date=29-APR-19
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8088hr/yr, 22hr/day
SO LOCATION 38429E6 VOLUME 619011.98 3566473.632 0
SO SRCPARAM 38429E6 .0050399 6.71 .47 .93
** NMED source ID=38429EQPT7 Facility's ID=HTR-2
** Description=Heater Treater 4 MMBtu/hr Construction date=29-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7368hr/yr, 20hr/day
SO LOCATION 38429E7 POINT 619005.194 3566477.184 0
SO SRCPARAM 38429E7 .0050399 6.71 533.15 4.51 .46
** NMED source ID=38429EQPT8 Facility's ID=HPS-2
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** Description=Heated Production Separator 4 MMBtu/hr Construction date=29-APR-19
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8088hr/yr, 22hr/day
SO LOCATION 38429E8 VOLUME 618997.597 3566475.092 0
SO SRCPARAM 38429E8 .0050399 6.71 .47 .93
**********END OF 38429: Sand Dunes CTB 12 INFO**********************************
************************************************************
** 20.18km away. Facility ID=37032 Name=Covington A Federal No18 Battery
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=6895 NOI
** lat,long,datum=32.367753, -103.630756, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=37032EQPT1 Facility's ID=HEAT 1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37032E1 VOLUME 628818.811 3582023.728 0
SO SRCPARAM 37032E1 .0002898 3.05 .47 .93
** NMED source ID=37032EQPT2 Facility's ID=HEAT 2
** Description=Heater Treater 2 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37032E2 VOLUME 628826.347 3582030.749 0
SO SRCPARAM 37032E2 .0002898 3.05 .47 .93
**********END OF 37032: Covington A Federal No18 Battery
INFO**********************************
************************************************************
** 20.18km away. Facility ID=40112 Name=Bridge State 29 CTB#1
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.356315, -103.396307, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.96tons/year
*****************Facility sources: ****************************
** NMED source ID=40112EQPT2 Facility's ID=HT-1
** Description=Heater Treater Burner, 0.75 MMBtu/hr Construction date=25-AUG-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40112E2 VOLUME 650897.132 3581062.079 0
SO SRCPARAM 40112E2 .00126 3.96 .47 .93
** NMED source ID=40112EQPT3 Facility's ID=HT-2
** Description=Heater Treater Burner, 0.75 MMBtu/hr Construction date=25-AUG-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40112E3 VOLUME 650904.668 3581069.1 0
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SO SRCPARAM 40112E3 .00126 3.96 .47 .93
** NMED source ID=40112EQPT18 Facility's ID=ENG-1
** Description=Waukesha L5794GSI Construction date=28-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40112E18 POINT 650897.882 3581072.652 0
SO SRCPARAM 40112E18 .0264596 7.32 886.48 20.42 .3
**********END OF 40112: Bridge State 29 CTB#1
INFO**********************************
************************************************************
** 20.23km away. Facility ID=8284 Name=Van Doo Dah 33 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.08244, -103.676132, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.7tons/year
*****************Facility sources: ******************************
** NMED source ID=8284AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=20-NOV-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284A1 VOLUME 624939.276 3550340.414 0
SO SRCPARAM 8284A1 .0277196 10 20 9.3
** NMED source ID=8284EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=20-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E1 POINT 624946.812 3550347.435 0
SO SRCPARAM 8284E1 .0125998 5.85 772.59 37.37 .27
** NMED source ID=8284EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Engine Construction date=20-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E2 POINT 624940.026 3550350.987 0
SO SRCPARAM 8284E2 .0075599 5.85 723.71 34.47 .27
** NMED source ID=8284EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=20-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E3 POINT 624932.429 3550348.895 0
SO SRCPARAM 8284E3 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8284EQPT4 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=20-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 8284E4 POINT 624928.188 3550341.995 0
SO SRCPARAM 8284E4 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8284EQPT5 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=20-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E5 POINT 624929.84 3550333.841 0
SO SRCPARAM 8284E5 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8284EQPT6 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=20-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E6 POINT 624936.789 3550328.879 0
SO SRCPARAM 8284E6 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8284EQPT9 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=20-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E9 VOLUME 624945.472 3550330.021 0
SO SRCPARAM 8284E9 .0037799 9.14 .47 .93
** NMED source ID=8284EQPT10 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=20-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E10 VOLUME 624951.182 3550336.949 0
SO SRCPARAM 8284E10 .0037799 9.14 .47 .93
**********END OF 8284: Van Doo Dah 33 CTB 3
INFO**********************************
************************************************************
** 20.23km away. Facility ID=40183 Name=Falcon Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1859, -103.7367, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.44tons/year
*****************Facility sources: ****************************
** NMED source ID=40183EQPT4 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E4 POINT 619088.258 3561741.075 0
SO SRCPARAM 40183E4 .0214197 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT5 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E5 POINT 619095.794 3561748.096 0
SO SRCPARAM 40183E5 .0214197 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT6 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E6 POINT 619089.008 3561751.648 0
SO SRCPARAM 40183E6 .0214197 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT7 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E7 POINT 619081.411 3561749.556 0
SO SRCPARAM 40183E7 .0214197 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT8 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E8 POINT 619077.17 3561742.656 0
SO SRCPARAM 40183E8 .0214197 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT9 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E9 POINT 619078.822 3561734.502 0
SO SRCPARAM 40183E9 .0214197 8.32 729.26 32.22 .55
**********END OF 40183: Falcon Compressor Station
INFO************************************
************************************************************
** 20.24km away. Facility ID=39522 Name=Cobber 21 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.033372, -103.475663, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.7tons/year
*****************Facility sources: ******************************
** NMED source ID=39522AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=06-MAY-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39522A1 VOLUME 643937.086 3545150.539 0
SO SRCPARAM 39522A1 .0277196 10 20 9.3
** NMED source ID=39522EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=06-MAY-20
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39522E1 VOLUME 643944.622 3545157.56 0
SO SRCPARAM 39522E1 .0037799 9.14 .47 .93
** NMED source ID=39522EQPT2 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39522E2 VOLUME 643937.836 3545161.112 0
SO SRCPARAM 39522E2 .0037799 9.14 .47 .93
**********END OF 39522: Cobber 21 CTB 2 INFO************************************
************************************************************
** 20.27km away. Facility ID=35195 Name=Cotton Draw Unit 167 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6133 NOI
** lat,long,datum=32.1674, -103.732894, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.12tons/year
*****************Facility sources: ****************************
** NMED source ID=35195AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35195A1 VOLUME 619471.223 3559694.435 0
SO SRCPARAM 35195A1 .0277196 10 20 9.3
** NMED source ID=35195EQPT2 Facility's ID=18
** Description=Heater_EQ000135342 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35195E2 VOLUME 619478.759 3559701.456 0
SO SRCPARAM 35195E2 .00126 9.14 .47 .93
** NMED source ID=35195EQPT4 Facility's ID=7
** Description=Heater_EQ000135138 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35195E4 VOLUME 619471.973 3559705.008 0
SO SRCPARAM 35195E4 .0005796 9.14 .47 .93
** NMED source ID=35195EQPT10 Facility's ID=8
** Description=Heater_EQ000135137 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35195E10 VOLUME 619464.376 3559702.916 0
SO SRCPARAM 35195E10 .0005796 9.14 .47 .93
**********END OF 35195: Cotton Draw Unit 167 Battery
INFO************************************
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** 20.28km away. Facility ID=40955 Name=Canvasback 13 Fed 1H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9894 NOI
** lat,long,datum=32.2236, -103.7387, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=40955AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=31-MAR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40955A1 VOLUME 618850.669 3565918.199 0
SO SRCPARAM 40955A1 .0005796 1 .47 .93
** NMED source ID=40955EQPT2 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=31-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40955E2 VOLUME 618858.205 3565925.22 0
SO SRCPARAM 40955E2 .00126 6.71 .47 .93
**********END OF 40955: Canvasback 13 Fed 1H Battery
INFO*************************************
************************************************************
** 20.29km away. Facility ID=40751 Name=Mesa Dolphin Battery
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=1311 NAIC=21112    Permit=9765 NOI
** lat,long,datum=32.063833, -103.651528, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=40751EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=15-NOV-22
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40751E3 POINT 627287.234 3548306.462 0
SO SRCPARAM 40751E3 .00126 7.32 533.15 1.46 1.22
**********END OF 40751: Mesa Dolphin Battery
INFO*************************************
************************************************************
** 20.32km away. Facility ID=5051 Name=Cotton Draw Unit 25 CTB 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.193284, -103.738667, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.4tons/year
*****************Facility sources: ******************************
** NMED source ID=5051AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=31-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 5051A1 VOLUME 618893.219 3562557.47 0
SO SRCPARAM 5051A1 .0277196 10 20 9.3
** NMED source ID=5051EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=31-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051E1 POINT 618900.755 3562564.491 0
SO SRCPARAM 5051E1 .0138598 5.85 772.59 37.4 .27
** NMED source ID=5051EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Engine Construction date=31-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051E2 POINT 618893.969 3562568.043 0
SO SRCPARAM 5051E2 .0075599 4.39 1000.37 17.38 .26
** NMED source ID=5051EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Engine Construction date=31-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051E3 POINT 618886.372 3562565.951 0
SO SRCPARAM 5051E3 .0075599 4.39 1000.37 17.38 .26
** NMED source ID=5051EQPT6 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=31-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051E6 VOLUME 618882.131 3562559.051 0
SO SRCPARAM 5051E6 .00252 9.14 .47 .93
** NMED source ID=5051EQPT7 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=31-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051E7 VOLUME 618883.783 3562550.897 0
SO SRCPARAM 5051E7 .00252 9.14 .47 .93
**********END OF 5051: Cotton Draw Unit 25 CTB 5
INFO**********************************
************************************************************
** 20.32km away. Facility ID=36592 Name=Stray Cat 8 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6753 NOI
** lat,long,datum=32.312361, -103.703086, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.12tons/year
*****************Facility sources: ****************************
** NMED source ID=36592AREA1 Facility's ID=17
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36592A1 VOLUME 622087.843 3575798.153 0
SO SRCPARAM 36592A1 .0277196 10 20 9.3
** NMED source ID=36592EQPT1 Facility's ID=7
** Description=Heater_EQ000060522 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36592E1 VOLUME 622095.379 3575805.174 0
SO SRCPARAM 36592E1 .0005796 9.14 .47 .93
** NMED source ID=36592EQPT2 Facility's ID=24
** Description=Engine_EQ000060548 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36592E2 POINT 622088.593 3575808.726 0
SO SRCPARAM 36592E2 .00252 1.93 1028.15 259.6 .05
**********END OF 36592: Stray Cat 8 Battery
INFO**********************************
************************************************************
** 20.33km away. Facility ID=38728 Name=El Mar 21 W0DM 2H W1CN  3H W0CN 4H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.034439, -103.581025, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.24tons/year
*****************Facility sources: ******************************
** NMED source ID=38728AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=25-JAN-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728A1 VOLUME 633985.687 3545133.24 0
SO SRCPARAM 38728A1 .0088199 10 10 9.3
** NMED source ID=38728EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=31000312
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E1 POINT 633993.223 3545140.261 0
SO SRCPARAM 38728E1 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38728EQPT5 Facility's ID=HT-01
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38728E5 VOLUME 633986.437 3545143.813 0
SO SRCPARAM 38728E5 .00126 4.57 .47 .93
** NMED source ID=38728EQPT6 Facility's ID=HT-02
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38728E6 VOLUME 633978.84 3545141.721 0
SO SRCPARAM 38728E6 .00126 4.57 .47 .93
** NMED source ID=38728EQPT7 Facility's ID=HT-03
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38728E7 VOLUME 633974.599 3545134.821 0
SO SRCPARAM 38728E7 .00126 4.57 .47 .93
** NMED source ID=38728EQPT27 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=25-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E27 POINT 633976.251 3545126.667 0
SO SRCPARAM 38728E27 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38728EQPT28 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=25-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E28 POINT 633983.2 3545121.705 0
SO SRCPARAM 38728E28 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38728EQPT29 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=25-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E29 POINT 633991.883 3545122.847 0
SO SRCPARAM 38728E29 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38728EQPT30 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=25-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E30 POINT 633997.593 3545129.775 0
SO SRCPARAM 38728E30 .0176397 6.1 706.48 43.31 .41
** NMED source ID=38728EQPT31 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=25-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E31 POINT 633997.028 3545138.956 0
SO SRCPARAM 38728E31 .0138598 7.16 819.82 33.86 .41
** NMED source ID=38728EQPT32 Facility's ID=ENG-07
** Description=Compressor Engine Construction date=25-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E32 POINT 633990.193 3545145.434 0
SO SRCPARAM 38728E32 .0075599 6.17 695.37 37.61 .25
** NMED source ID=38728EQPT33 Facility's ID=HT-04
** Description=Heater Treater Construction date=25-JAN-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E33 VOLUME 633980.557 3545145.511 0
SO SRCPARAM 38728E33 .00126 4.57 .47 .93
** NMED source ID=38728EQPT34 Facility's ID=HT-05
** Description=Heater Treater Construction date=25-JAN-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E34 VOLUME 633973.296 3545138.845 0
SO SRCPARAM 38728E34 .00126 4.57 .47 .93
** NMED source ID=38728EQPT35 Facility's ID=HT-06
** Description=Heater Treater Construction date=25-JAN-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E35 VOLUME 633972.516 3545128.799 0
SO SRCPARAM 38728E35 .00126 4.57 .47 .93
**********END OF 38728: El Mar 21 W0DM 2H W1CN  3H W0CN 4H Battery
INFO**********************************
************************************************************
** 20.33km away. Facility ID=37926 Name=Hallertau 4 Federal 1H 3H 4H 7H 8H Facility
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.07878, -103.67323, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.09tons/year
*****************Facility sources: ******************************
** NMED source ID=37926AREA1 Facility's ID=HR
** Description=Haul Road Construction date=21-MAR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37926A1 VOLUME 625218.163 3549938.043 0
SO SRCPARAM 37926A1 .0113398 10 10 9.3
** NMED source ID=37926EQPT2 Facility's ID=H1
** Description=2.0 MMBtu/hr Heater Treater Construction date=07-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7636hr/yr, 21hr/day
SO LOCATION 37926E2 VOLUME 625225.699 3549945.064 0
SO SRCPARAM 37926E2 .00126 4.57 .47 .93
** NMED source ID=37926EQPT3 Facility's ID=H2
** Description=2.0 MMBtu/hr Heater Treater Construction date=07-MAY-21
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7636hr/yr, 21hr/day
SO LOCATION 37926E3 VOLUME 625218.913 3549948.616 0
SO SRCPARAM 37926E3 .00126 4.57 .47 .93
** NMED source ID=37926EQPT5 Facility's ID=H3
** Description=2.0 MMBtu/hr Heater Treater Construction date=07-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37926E5 VOLUME 625211.316 3549946.524 0
SO SRCPARAM 37926E5 .00126 4.57 .47 .93
** NMED source ID=37926EQPT7 Facility's ID=FL1
** Description=4.5 MMBtu/hr Flare Construction date=30-JUN-17
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7636hr/yr, 21hr/day
SO LOCATION 37926E7 POINT 625207.075 3549939.624 0
SO SRCPARAM 37926E7 .00126 8.23 1273 20 20.806
** NMED source ID=37926EQPT20 Facility's ID=FL2
** Description=1.3 MMBtu/hr Flare Construction date=20-DEC-17
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7636hr/yr, 21hr/day
SO LOCATION 37926E20 POINT 625208.727 3549931.47 0
SO SRCPARAM 37926E20 .0002898 12.19 1273 20 20.806
** NMED source ID=37926EQPT22 Facility's ID=ENG5
** Description=Compressor Engine Construction date=21-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37926E22 POINT 625215.676 3549926.508 0
SO SRCPARAM 37926E22 .0138598 6.1 807.04 57.33 .3
** NMED source ID=37926EQPT25 Facility's ID=FL2 SSM
** Description=1.3 MMBtu/hr Flare Construction date=20-AUG-12
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37926E25 POINT 625224.359 3549927.65 0
SO SRCPARAM 37926E25 .0086309 12.19 1273 20 3.604
** NMED source ID=37926RPNT2 Facility's ID=SSM
** Description=Startup, Shutdown, Maintenance Emissions Construction date=07-MAY-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37926R2 VOLUME 625230.069 3549934.578 0
SO SRCPARAM 37926R2 .0005796 1 .47 .93
**********END OF 37926: Hallertau 4 Federal 1H 3H 4H 7H 8H Facility
INFO**********************************
************************************************************
** 20.34km away. Facility ID=38789 Name=Cave Lion 26-35-5 Fed 2H 6H 8H 9H 12H 15H
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CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.065875, -103.392078, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.5tons/year
*****************Facility sources: ******************************
** NMED source ID=38789AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=10-OCT-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38789A1 VOLUME 651776.9 3548868.376 0
SO SRCPARAM 38789A1 .0002898 1 .47 .93
** NMED source ID=38789EQPT5 Facility's ID=HTR-1
** Description=1.0 MMBtu/hr heater treater 1 Construction date=10-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38789E5 VOLUME 651784.436 3548875.397 0
SO SRCPARAM 38789E5 .00126 4.6 .47 .93
** NMED source ID=38789EQPT6 Facility's ID=HTR-2
** Description=1.0 MMBtu/hr heater treater 2 Construction date=10-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38789E6 VOLUME 651777.65 3548878.949 0
SO SRCPARAM 38789E6 .00126 4.6 .47 .93
** NMED source ID=38789EQPT8 Facility's ID=ENG-1
** Description=690 hp CAT G3508B RICE Construction date=10-OCT-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8052hr/yr, 24hr/day
SO LOCATION 38789E8 POINT 651770.053 3548876.857 0
SO SRCPARAM 38789E8 .0075599 4.88 825.37 27.85 .3
** NMED source ID=38789EQPT12 Facility's ID=GEN-3
** Description=removed-390 hp Doosan D146L generator Construction date=10-OCT-19
** SCC=20200253
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=7858hr/yr, 24hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 38789E12 POINT 651765.812 3548869.957 0
SO SRCPARAM 38789E12 -.0037421 3.24 744.26 144.17 .09
** NMED source ID=38789EQPT14 Facility's ID=ENG-3
** Description=Compressor Engine, Caterpillar G3306 TA Construction date=17-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38789E14 POINT 651767.464 3548861.803 0
SO SRCPARAM 38789E14 .00252 2.99 846.48 39.21 .12
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** NMED source ID=38789EQPT30 Facility's ID=ENG-4
** Description=Compressor Engine, Caterpillar G3306 TA Construction date=19-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38789E30 POINT 651774.413 3548856.841 0
SO SRCPARAM 38789E30 .00252 2.99 846.48 39.21 .12
** NMED source ID=38789EQPT31 Facility's ID=ENG-5
** Description=Compressor Engine, Caterpillar G3306 TA Construction date=19-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38789E31 POINT 651783.096 3548857.983 0
SO SRCPARAM 38789E31 .00252 2.99 846.48 39.21 .12
**********END OF 38789: Cave Lion 26-35-5 Fed 2H 6H 8H 9H 12H 15H CTB
INFO**********************************
************************************************************
** 20.36km away. Facility ID=38171 Name=Chili Parlor 17 Federal Com No2H 3H Tank
Battery
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3852, -103.588194, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=38171AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=07-DEC-17
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38171A1 VOLUME 632797.872 3584010.005 0
SO SRCPARAM 38171A1 .00126 1 .47 .93
** NMED source ID=38171EQPT6 Facility's ID=HTR-01
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38171E6 VOLUME 632805.408 3584017.026 0
SO SRCPARAM 38171E6 .0002898 4.57 .47 .93
** NMED source ID=38171EQPT7 Facility's ID=HTR-02
** Description=Heater Treater 2 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 14hr/day
SO LOCATION 38171E7 VOLUME 632798.622 3584020.578 0
SO SRCPARAM 38171E7 .0002898 4.57 .47 .93
**********END OF 38171: Chili Parlor 17 Federal Com No2H 3H Tank Battery
INFO**********************************
************************************************************
** 20.37km away. Facility ID=8008 Name=Comanche Peak Compressor Station
** Company ID=13928 Name=Pinon Midstream LLC
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** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.162344, -103.3153, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=8.36tons/year
*****************Facility sources: ******************************
** NMED source ID=8008EQPT1 Facility's ID=ENG-1
** Description=2,500 bhp Compressor Engine 1 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E1 POINT 658857.893 3559674.053 0
SO SRCPARAM 8008E1 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT2 Facility's ID=ENG-2
** Description=2,500 bhp Compressor Engine 2 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E2 POINT 658865.429 3559681.074 0
SO SRCPARAM 8008E2 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT3 Facility's ID=ENG-3
** Description=2,500 bhp Compressor Engine 3 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E3 POINT 658858.643 3559684.626 0
SO SRCPARAM 8008E3 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT4 Facility's ID=ENG-4
** Description=2,500 bhp Compressor Engine 4 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E4 POINT 658851.046 3559682.534 0
SO SRCPARAM 8008E4 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT5 Facility's ID=ENG-5
** Description=2,500 bhp Compressor Engine 5 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E5 POINT 658846.805 3559675.634 0
SO SRCPARAM 8008E5 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT6 Facility's ID=ENG-6
** Description=2,500 bhp Compressor Engine 6 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E6 POINT 658848.457 3559667.48 0
SO SRCPARAM 8008E6 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT7 Facility's ID=ENG-7
** Description=2,500 bhp Compressor Engine 7 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E7 POINT 658855.406 3559662.518 0
SO SRCPARAM 8008E7 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT8 Facility's ID=ENG-8
** Description=2,500 bhp Compressor Engine 8 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E8 POINT 658864.089 3559663.66 0
SO SRCPARAM 8008E8 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT9 Facility's ID=ENG-9
** Description=2,500 bhp Compressor Engine 9 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E9 POINT 658869.799 3559670.588 0
SO SRCPARAM 8008E9 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT10 Facility's ID=ENG-10
** Description=2,500 bhp Compressor Engine 10 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E10 POINT 658869.234 3559679.769 0
SO SRCPARAM 8008E10 .0239396 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT12 Facility's ID=GEN-1
** Description=447 bhp Turbine 1 Construction date=18-OCT-23
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E12 POINT 658862.399 3559686.247 0
SO SRCPARAM 8008E12 .0005796 6.1 540.37 45.29 .61
** NMED source ID=8008EQPT13 Facility's ID=GEN-2
** Description=447 bhp Turbine 2 Construction date=18-OCT-23
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E13 POINT 658852.763 3559686.324 0
SO SRCPARAM 8008E13 .0005796 6.1 540.37 45.29 .61
** NMED source ID=8008EQPT14 Facility's ID=GEN-3
** Description=447 bhp Turbine 3 Construction date=18-OCT-23
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E14 POINT 658845.502 3559679.658 0
SO SRCPARAM 8008E14 .0005796 6.1 540.37 45.29 .61
**********END OF 8008: Comanche Peak Compressor Station
INFO************************************
************************************************************
** 20.37km away. Facility ID=38228 Name=Vast Gas Lift Station
** Company ID=11135 Name=COG Operating LLC
```

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** SIC=1311 NAIC=21112    Permit=7639 NOI
** lat,long,datum=32.036492, -103.590553, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.54tons/year
*****************Facility sources: ******************************
** NMED source ID=38228AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=21-MAR-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38228A1 VOLUME 633082.962 3545349.049 0
SO SRCPARAM 38228A1 .0005796 1 .47 .93
** NMED source ID=38228EQPT1 Facility's ID=ENG-01
** Description=Caterpillar CG137 Construction date=21-MAR-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38228E1 POINT 633090.498 3545356.07 0
SO SRCPARAM 38228E1 .0075599 5.11 790.93 22.8 .2
** NMED source ID=38228EQPT2 Facility's ID=ENG-02
** Description=Caterpillar CG137 Engine Construction date=21-MAR-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38228E2 POINT 633083.712 3545359.622 0
SO SRCPARAM 38228E2 .0075599 5.11 790.93 22.8 .2
**********END OF 38228: Vast Gas Lift Station
INFO**********************************
************************************************************
** 20.38km away. Facility ID=28217 Name=Red Tank 26 Federal No 1 Tank Battery
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=3944 NOI
** lat,long,datum=32.360556, -103.648056, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=28217AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Road Construction date=07-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 28217A1 VOLUME 627201.172 3581205.157 0
SO SRCPARAM 28217A1 .0002898 1 .47 .93
** NMED source ID=28217EQPT10 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8052hr/yr, 24hr/day
SO LOCATION 28217E10 VOLUME 627208.708 3581212.178 0
SO SRCPARAM 28217E10 .0005796 3.66 .47 .93
**********END OF 28217: Red Tank 26 Federal No 1 Tank Battery
INFO**********************************
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************************************************************
** 20.48km away. Facility ID=27536 Name=Cotton Draw Unit No 90
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=3787 NOI
** lat,long,datum=32.178833, -103.738056, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
*****************Facility sources: ****************************
** NMED source ID=27536AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8736hr/yr, 24hr/day
SO LOCATION 27536A1 VOLUME 618969.614 3560956.145 0
SO SRCPARAM 27536A1 .0277196 10 20 9.3
** NMED source ID=27536EQPT14 Facility's ID=HT-1
** Description=Heater_EQ000054287 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 27536E14 VOLUME 618977.15 3560963.166 0
SO SRCPARAM 27536E14 .0005796 9.14 .47 .93
**********END OF 27536: Cotton Draw Unit No 90
INFO**********************************
************************************************************
** 20.49km away. Facility ID=39888 Name=Zach 17 8 W1MD Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.037725, -103.598719, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.28tons/year
*****************Facility sources: ****************************
** NMED source ID=39888AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=10-JAN-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888A1 VOLUME 632310.07 3545475.701 0
SO SRCPARAM 39888A1 .0088199 10 10 9.3
** NMED source ID=39888EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=11-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E1 POINT 632317.606 3545482.722 0
SO SRCPARAM 39888E1 .0075599 6.19 695.37 37.61 .25
** NMED source ID=39888EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=10-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E2 POINT 632310.82 3545486.274 0
```

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SO SRCPARAM 39888E2 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39888EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=10-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E3 POINT 632303.223 3545484.182 0
SO SRCPARAM 39888E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39888EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=10-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E4 POINT 632298.982 3545477.282 0
SO SRCPARAM 39888E4 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39888EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=10-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E5 POINT 632300.634 3545469.128 0
SO SRCPARAM 39888E5 .0075599 4.57 778.71 13.94 .26
** NMED source ID=39888EQPT9 Facility's ID=HT-01
** Description=Heater Treater Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E9 POINT 632307.583 3545464.166 0
SO SRCPARAM 39888E9 .00126 4.57 533.15 3.93 .46
** NMED source ID=39888EQPT10 Facility's ID=HT-02
** Description=Heater Treater Construction date=10-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E10 POINT 632316.266 3545465.308 0
SO SRCPARAM 39888E10 .00126 4.57 533.15 3.93 .46
** NMED source ID=39888EQPT11 Facility's ID=HT-03
** Description=Heater Treater Construction date=10-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E11 POINT 632321.976 3545472.236 0
SO SRCPARAM 39888E11 .00126 4.57 533.15 3.93 .46
** NMED source ID=39888EQPT41 Facility's ID=HT-04
** Description=Heater Treater Construction date=20-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E41 POINT 632321.411 3545481.417 0
SO SRCPARAM 39888E41 .00126 4.57 533.15 3.93 .46
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** NMED source ID=39888EQPT42 Facility's ID=HT-05
** Description=Heater Treater Construction date=20-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E42 POINT 632314.576 3545487.895 0
SO SRCPARAM 39888E42 .00126 4.57 533.15 3.93 .46
** NMED source ID=39888EQPT43 Facility's ID=HT-06
** Description=Heater Treater Construction date=20-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E43 POINT 632304.94 3545487.972 0
SO SRCPARAM 39888E43 .00126 4.57 533.15 3.93 .46
** NMED source ID=39888EQPT44 Facility's ID=HT-07
** Description=Heater Treater Construction date=20-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E44 POINT 632297.679 3545481.306 0
SO SRCPARAM 39888E44 .00126 4.57 533.15 3.93 .46
**********END OF 39888: Zach 17 8 W1MD Fed Com 1H Battery
INFO**********************************
************************************************************
** 20.51km away. Facility ID=29609 Name=Todd 36 State 20 H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4258 NOI
** lat,long,datum=32.268289, -103.730716, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.46tons/year
*****************Facility sources: ****************************
** NMED source ID=29609AREA1 Facility's ID=HR-1
** Description=Haul Roads Construction date=06-FEB-19
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29609A1 VOLUME 619544.477 3570881.218 0
SO SRCPARAM 29609A1 1.0898827 10 90 9.3
** NMED source ID=29609EQPT10 Facility's ID=Heater_4725
** Description=Heater_EQ000014725 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7680hr/yr, 24hr/day
SO LOCATION 29609E10 VOLUME 619552.013 3570888.239 0
SO SRCPARAM 29609E10 .0005796 9.14 .47 .93
**********END OF 29609: Todd 36 State 20 H INFO**************************************
************************************************************
** 20.55km away. Facility ID=40208 Name=EOG - Jefe 29 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0979, -103.6966, WGS84
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** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=40208EQPT1 Facility's ID=HTR-1
** Description=Heater Treater, 1.5 MMBtu/hr Construction date=19-OCT-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40208E1 VOLUME 622986.757 3552030.728 0
SO SRCPARAM 40208E1 .00126 4.88 .47 .93
**********END OF 40208: EOG - Jefe 29 Fed Com CTB
INFO*********************************
************************************************************
** 20.56km away. Facility ID=38360 Name=Tour Bus 23 State No301H No502H No601H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.383781, -103.448242, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.53tons/year
*****************Facility sources: ******************************
** NMED source ID=38360AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Roads Construction date=21-SEP-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38360A1 VOLUME 645965.697 3584035.094 0
SO SRCPARAM 38360A1 .0113398 10 10 9.3
** NMED source ID=38360EQPT1 Facility's ID=HT-1
** Description=Separator Heater Construction date=21-SEP-20
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 38360E1 POINT 645973.233 3584042.115 0
SO SRCPARAM 38360E1 .0005796 6.4 588.71 2.28 .3
** NMED source ID=38360EQPT2 Facility's ID=HT-2
** Description=Separator Heater Construction date=21-SEP-20
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 38360E2 POINT 645966.447 3584045.667 0
SO SRCPARAM 38360E2 .0005796 6.4 588.71 2.28 .3
** NMED source ID=38360EQPT3 Facility's ID=HT-3
** Description=Separator Heater Construction date=21-SEP-20
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 38360E3 POINT 645958.85 3584043.575 0
SO SRCPARAM 38360E3 .0005796 6.4 588.71 2.28 .3
** NMED source ID=38360EQPT21 Facility's ID=ENG-1
** Description=Gas Lift Engine Construction date=12-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38360E21 POINT 645954.609 3584036.675 0
SO SRCPARAM 38360E21 .0125998 2.44 834.26 37.16 .2
**********END OF 38360: Tour Bus 23 State No301H No502H No601H
INFO**********************************
************************************************************
** 20.59km away. Facility ID=39519 Name=Tin Foil Federal 23 N CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8797 NOI
** lat,long,datum=32.1113, -103.3395, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=39519AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=15-NOV-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39519A1 VOLUME 656662.952 3553979.574 0
SO SRCPARAM 39519A1 .00126 1 .47 .93
** NMED source ID=39519EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39519E4 VOLUME 656670.488 3553986.595 0
SO SRCPARAM 39519E4 .00126 4.57 .47 .93
**********END OF 39519: Tin Foil Federal 23 N CTB
INFO**********************************
************************************************************
** 20.62km away. Facility ID=41036 Name=Red Tank 26 CPF
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=9950 NOI
** lat,long,datum=32.3662, -103.642697, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.34tons/year
*****************Facility sources: ****************************
** NMED source ID=41036EQPT2 Facility's ID=HTR-1
** Description=Line Heater Construction date=12-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41036E2 POINT 627697.492 3581837.245 0
SO SRCPARAM 41036E2 .0050399 3.05 310.93 2.25 .15
** NMED source ID=41036EQPT3 Facility's ID=HTR-2
** Description=Line Heater Construction date=12-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41036E3 POINT 627705.028 3581844.266 0
SO SRCPARAM 41036E3 .0050399 3.05 310.93 2.25 .15
**********END OF 41036: Red Tank 26 CPF INFO**********************************
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** 20.66km away. Facility ID=6934 Name=Bluehound Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.379834, -103.433963, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=6.37tons/year
*****************Facility sources: ******************************
** NMED source ID=6934ACT 1 Facility's ID=HAUL
** Description=Unpaved Haul Roads Construction date=03-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934@1 VOLUME 647315.397 3583617.082 0
SO SRCPARAM 6934@1 .0113398 10 10 9.3
** NMED source ID=6934EQPT1 Facility's ID=C-01
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E1 POINT 647322.933 3583624.103 0
SO SRCPARAM 6934E1 .0277196 6.71 728.15 24.75 .41
** NMED source ID=6934EQPT2 Facility's ID=C-02
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E2 POINT 647316.147 3583627.655 0
SO SRCPARAM 6934E2 .0277196 6.71 728.15 24.75 .41
** NMED source ID=6934EQPT3 Facility's ID=C-03
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E3 POINT 647308.55 3583625.563 0
SO SRCPARAM 6934E3 .0176397 6.71 695.93 26.58 .51
** NMED source ID=6934EQPT4 Facility's ID=C-04
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E4 POINT 647304.309 3583618.663 0
SO SRCPARAM 6934E4 .0176397 6.71 695.93 26.58 .51
** NMED source ID=6934EQPT5 Facility's ID=C-05
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E5 POINT 647305.961 3583610.509 0
SO SRCPARAM 6934E5 .0239396 6.71 686.48 24.93 .61
** NMED source ID=6934EQPT6 Facility's ID=C-06
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** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E6 POINT 647312.91 3583605.547 0
SO SRCPARAM 6934E6 .0239396 6.71 686.48 24.93 .61
** NMED source ID=6934EQPT7 Facility's ID=C-07
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E7 POINT 647321.593 3583606.689 0
SO SRCPARAM 6934E7 .0176397 6.71 695.93 26.58 .51
** NMED source ID=6934EQPT8 Facility's ID=C-08
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E8 POINT 647327.303 3583613.617 0
SO SRCPARAM 6934E8 .0176397 6.71 695.93 26.58 .51
** NMED source ID=6934EQPT13 Facility's ID=FL-LP
** Description=Low Pressure Side of Process Flare Construction date=03-JAN-24
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E13 POINT 647326.738 3583622.798 0
SO SRCPARAM 6934E13 .0201597 9.14 1273 20 4.652
** NMED source ID=6934EQPT14 Facility's ID=GEN-1
** Description=Generator Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E14 POINT 647319.903 3583629.276 0
SO SRCPARAM 6934E14 .00126 1.8 922.04 21.88 .15
** NMED source ID=6934EQPT16 Facility's ID=REB-1
** Description=Reboiler Construction date=03-JAN-24
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E16 POINT 647310.267 3583629.353 0
SO SRCPARAM 6934E16 .00126 3.05 588.71 .63 .61
** NMED source ID=6934EQPT17 Facility's ID=REB-2
** Description=Reboiler Construction date=03-JAN-24
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E17 POINT 647303.006 3583622.687 0
SO SRCPARAM 6934E17 .00126 3.05 588.71 .32 .61
**********END OF 6934: Bluehound Compressor Station
INFO**********************************
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** 20.71km away. Facility ID=39193 Name=Devon - Todd 36 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257628, -103.73671, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.03tons/year
*****************Facility sources: ******************************
** NMED source ID=39193AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=16-OCT-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39193A1 VOLUME 618993.819 3569692.691 0
SO SRCPARAM 39193A1 .0176397 1 .47 .93
** NMED source ID=39193EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=16-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39193E1 VOLUME 619001.355 3569699.712 0
SO SRCPARAM 39193E1 .0037799 9.14 .47 .93
** NMED source ID=39193EQPT2 Facility's ID=GEN 1
** Description=Generator 1 Construction date=16-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39193E2 POINT 618994.569 3569703.264 0
SO SRCPARAM 39193E2 .0100798 2.99 1005.37 215.25 .09
** NMED source ID=39193EQPT3 Facility's ID=GEN-2
** Description=Generator 2 Construction date=16-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39193E3 POINT 618986.972 3569701.172 0
SO SRCPARAM 39193E3 .0075599 2.99 1005.37 136.18 .09
** NMED source ID=39193EQPT4 Facility's ID=LPC-1
** Description=Low Pressure Compressor Construction date=16-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39193E4 POINT 618982.731 3569694.272 0
SO SRCPARAM 39193E4 .00252 2.99 922.04 67.27 .09
** NMED source ID=39193EQPT5 Facility's ID=LPC-2
** Description=Low Pressure Compressor Construction date=16-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39193E5 POINT 618984.383 3569686.118 0
SO SRCPARAM 39193E5 .0037799 2.99 919.82 51.42 .09
**********END OF 39193: Devon - Todd 36 CTB 1
```

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INFO**********************************
************************************************************
** 20.72km away. Facility ID=8128 Name=Van Doo Dah 33 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.082077, -103.682897, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.68tons/year
*****************Facility sources: ******************************
** NMED source ID=8128AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=26-OCT-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128A1 VOLUME 624301.275 3550292.355 0
SO SRCPARAM 8128A1 .0277196 10 20 9.3
** NMED source ID=8128EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engine Construction date=26-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E1 POINT 624308.811 3550299.376 0
SO SRCPARAM 8128E1 .0125998 5.85 772.59 37.4 .27
** NMED source ID=8128EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Gas Lift Engine Construction date=26-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E2 POINT 624302.025 3550302.928 0
SO SRCPARAM 8128E2 .0075599 3.51 1000.37 71.17 .13
** NMED source ID=8128EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=26-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E3 POINT 624294.428 3550300.836 0
SO SRCPARAM 8128E3 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8128EQPT4 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=26-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E4 POINT 624290.187 3550293.936 0
SO SRCPARAM 8128E4 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8128EQPT5 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=26-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E5 POINT 624291.839 3550285.782 0
SO SRCPARAM 8128E5 .0100798 3.17 1005.37 77.48 .15
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```
** NMED source ID=8128EQPT6 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=26-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E6 POINT 624298.788 3550280.82 0
SO SRCPARAM 8128E6 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8128EQPT9 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=26-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E9 VOLUME 624307.471 3550281.962 0
SO SRCPARAM 8128E9 .0037799 9.14 .47 .93
** NMED source ID=8128EQPT10 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=26-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E10 VOLUME 624313.181 3550288.89 0
SO SRCPARAM 8128E10 .0037799 9.14 .47 .93
**********END OF 8128: Van Doo Dah 33 CTB 2
INFO**********************************
************************************************************
** 20.74km away. Facility ID=36171 Name=COG - Bufflehead 10 Fed 1H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6580 NOI
** lat,long,datum=32.064067, -103.659894, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1tons/year
*****************Facility sources: ******************************
** NMED source ID=36171AREA1 Facility's ID=HR-1
** Description=900 ft Haul Roads, 17.8 trucks/d Construction date=15-SEP-15
** SCC=31000102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36171A1 VOLUME 626497.15 3548322.564 0
SO SRCPARAM 36171A1 .0287653 1 .47 .93
**********END OF 36171: COG - Bufflehead 10 Fed 1H Battery
INFO**********************************
************************************************************
** 20.75km away. Facility ID=39717 Name=Caza - Lennox 32 State Nos 9H 10H and 34
State No 1H Facility
** Company ID=13636 Name=Caza Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.355205, -103.384814, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.58tons/year
*****************Facility sources: ******************************
** NMED source ID=39717RPNT6 Facility's ID=HR-1
** Description=Haul road - water Construction date=17-DEC-20
** SCC=31088811
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39717R6 VOLUME 651980.528 3580955.279 0
SO SRCPARAM 39717R6 1.0432634 10 20 9.3
**********END OF 39717: Caza - Lennox 32 State Nos 9H 10H and 34 State No 1H
Facility INFO************************************
************************************************************
** 20.77km away. Facility ID=38151 Name=Tour Bus 23 State 503H and 504H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.383889, -103.442222, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.32tons/year
*****************Facility sources: ******************************
** NMED source ID=38151EQPT8 Facility's ID=ENG-1
** Description=Caterpillar 3306B Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38151E8 POINT 646531.852 3584055.3 0
SO SRCPARAM 38151E8 .0037799 3.66 884.82 36.12 .13
** NMED source ID=38151EQPT10 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38151E10 POINT 646539.388 3584062.321 0
SO SRCPARAM 38151E10 .0005796 6.1 810.93 2.26 .3
** NMED source ID=38151EQPT11 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38151E11 POINT 646532.602 3584065.873 0
SO SRCPARAM 38151E11 .0005796 6.1 810.93 2.26 .3
** NMED source ID=38151EQPT24 Facility's ID=ENG-2
** Description=Caterpillar G3406NA Construction date=21-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38151E24 POINT 646525.005 3584063.781 0
SO SRCPARAM 38151E24 .0037799 3.66 885.93 105.77 .08
**********END OF 38151: Tour Bus 23 State 503H and 504H
INFO*********************************
************************************************************
** 20.77km away. Facility ID=35012 Name=Renegade BPG Fed 1 H Battery
** Company ID=14107 Name=Earthstone Operating LLC
** SIC=1311 NAIC=21112    Permit=6076 NOI
** lat,long,datum=32.048723, -103.414274, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
*****************Facility sources: ******************************
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** NMED source ID=35012AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1656hr/yr, 24hr/day
SO LOCATION 35012A1 VOLUME 649709.451 3546935.857 0
SO SRCPARAM 35012A1 .0037799 1 .47 .93
** NMED source ID=35012EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1656hr/yr, 24hr/day
SO LOCATION 35012E1 VOLUME 649716.987 3546942.878 0
SO SRCPARAM 35012E1 .00126 7.62 .47 .93
**********END OF 35012: Renegade BPG Fed 1 H Battery
INFO**********************************
************************************************************
** 20.77km away. Facility ID=38407 Name=EOG - Peachtree 24 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.024, -103.526, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.22tons/year
*****************Facility sources: ****************************
** NMED source ID=38407EQPT2 Facility's ID=HTR-1
** Description=Heater 0.75 MM Btu/hr Construction date=19-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38407E2 POINT 639197.672 3544045.579 0
SO SRCPARAM 38407E2 .00126 5.18 588.71 3.41 .3
** NMED source ID=38407EQPT3 Facility's ID=HTR-2
** Description=Heater 1.5 MM Btu/hr Construction date=19-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38407E3 POINT 639205.208 3544052.6 0
SO SRCPARAM 38407E3 .00126 5.18 588.71 6.83 .3
** NMED source ID=38407RPNT2 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=19-MAR-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38407R2 VOLUME 639198.422 3544056.152 0
SO SRCPARAM 38407R2 .0050399 1 .47 .93
**********END OF 38407: EOG - Peachtree 24 Fed Com CTB
INFO**********************************
************************************************************
** 20.83km away. Facility ID=29195 Name=Dinwiddie 23 Federal NO1
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=4186 NOI
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** lat,long,datum=32.119106, -103.330997, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.7tons/year
*****************Facility sources: ****************************
** NMED source ID=29195EQPT5 Facility's ID=Unit 4
** Description=one of 3 gen sets - Cat300, Cat230 or MQ150 Construction
date=14-APR-10
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29195E5 POINT 657451.877 3554857.382 0
SO SRCPARAM 29195E5 .0201345 3.72 733.15 77.42 .08
**********END OF 29195: Dinwiddie 23 Federal NO1
INFO***********************************
************************************************************
** 20.86km away. Facility ID=38418 Name=Sand Dunes CS 11
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.227111, -103.744527, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=3.65tons/year
*****************Facility sources: ****************************
** NMED source ID=38418EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=13-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5669hr/yr, 16hr/day
SO LOCATION 38418E4 POINT 618297.011 3566300.989 0
SO SRCPARAM 38418E4 .0251996 6.1 718.71 25.73 .61
** NMED source ID=38418EQPT5 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=13-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6206hr/yr, 17hr/day
SO LOCATION 38418E5 POINT 618304.547 3566308.01 0
SO SRCPARAM 38418E5 .0251996 6.1 718.71 25.73 .61
** NMED source ID=38418EQPT6 Facility's ID=REB-1
** Description=TEG Reboiler Construction date=13-FEB-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=768hr/yr, 2hr/day
SO LOCATION 38418E6 POINT 618297.761 3566311.562 0
SO SRCPARAM 38418E6 .00126 5.79 533.15 .08 .46
** NMED source ID=38418EQPT12 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38418E12 POINT 618290.164 3566309.47 0
SO SRCPARAM 38418E12 .0163797 6.1 702.04 75.59 .3
** NMED source ID=38418EQPT13 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=28-SEP-21
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38418E13 POINT 618285.923 3566302.57 0
SO SRCPARAM 38418E13 .0163797 6.1 702.04 75.59 .3
** NMED source ID=38418EQPT14 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=13-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38418E14 POINT 618287.575 3566294.416 0
SO SRCPARAM 38418E14 .0251996 6.1 718.71 25.73 .61
**********END OF 38418: Sand Dunes CS 11 INFO************************************
************************************************************
** 20.9km away. Facility ID=40263 Name=Cabra Nino 14 & 14-11 Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.38608, -103.445138, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.21tons/year
*****************Facility sources: ******************************
** NMED source ID=40263AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=16-AUG-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263A1 VOLUME 646253.999 3584294.217 0
SO SRCPARAM 40263A1 .0088199 10 10 9.3
** NMED source ID=40263EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=30-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E1 POINT 646261.535 3584301.238 0
SO SRCPARAM 40263E1 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40263EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=30-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E2 POINT 646254.749 3584304.79 0
SO SRCPARAM 40263E2 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40263EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=30-DEC-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E3 POINT 646247.152 3584302.698 0
SO SRCPARAM 40263E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40263EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=30-DEC-21
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E4 POINT 646242.911 3584295.798 0
SO SRCPARAM 40263E4 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40263EQPT6 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=30-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E6 POINT 646244.563 3584287.644 0
SO SRCPARAM 40263E6 .0075599 6.17 695.37 37.61 .25
** NMED source ID=40263EQPT7 Facility's ID=HT-01
** Description=Heater Treater Construction date=30-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E7 VOLUME 646251.512 3584282.682 0
SO SRCPARAM 40263E7 .00126 4.57 .47 .93
** NMED source ID=40263EQPT8 Facility's ID=HT-02
** Description=Heater Treater Construction date=30-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E8 VOLUME 646260.195 3584283.824 0
SO SRCPARAM 40263E8 .00126 4.57 .47 .93
** NMED source ID=40263EQPT9 Facility's ID=HT-03
** Description=Heater Treater Construction date=30-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E9 VOLUME 646265.905 3584290.752 0
SO SRCPARAM 40263E9 .00126 4.57 .47 .93
** NMED source ID=40263EQPT10 Facility's ID=HT-04
** Description=Heater Treater Construction date=30-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E10 VOLUME 646265.34 3584299.933 0
SO SRCPARAM 40263E10 .00252 4.57 .47 .93
** NMED source ID=40263EQPT30 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=16-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E30 POINT 646258.505 3584306.411 0
SO SRCPARAM 40263E30 .0050399 4.11 894.82 36.52 .13
**********END OF 40263: Cabra Nino 14 & 14-11 Battery
INFO**********************************
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** 20.91km away. Facility ID=39482 Name=Devon- Boundary Raider 7 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.314024, -103.709312, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.1tons/year
*****************Facility sources: ******************************
** NMED source ID=39482AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=09-APR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2568hr/yr, 24hr/day
SO LOCATION 39482A1 VOLUME 621499.482 3575975.437 0
SO SRCPARAM 39482A1 .2771956 10 20 9.3
**********END OF 39482: Devon- Boundary Raider 7 CTB 2
INFO*************************************
************************************************************
** 20.93km away. Facility ID=39001 Name=Bonnyman Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.31725, -103.706917, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.1tons/year
*****************Facility sources: ******************************
** NMED source ID=39001EQPT1 Facility's ID=ENG-1
** Description=Engine CAT G3516B 1,380-hp Construction date=12-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7875hr/yr, 24hr/day
SO LOCATION 39001E1 POINT 621720.637 3576335.79 0
SO SRCPARAM 39001E1 .0138598 7.32 809.82 36.76 .38
** NMED source ID=39001EQPT3 Facility's ID=ENG-2
** Description=Engine CAT G3516B 1,380-hp Construction date=12-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8413hr/yr, 24hr/day
SO LOCATION 39001E3 POINT 621728.173 3576342.811 0
SO SRCPARAM 39001E3 .0138598 7.32 809.82 36.76 .38
** NMED source ID=39001EQPT4 Facility's ID=ENG-3
** Description=Engine CAT G3516B 1,380-hp Construction date=12-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8320hr/yr, 24hr/day
SO LOCATION 39001E4 POINT 621721.387 3576346.363 0
SO SRCPARAM 39001E4 .0138598 7.32 809.82 36.76 .38
** NMED source ID=39001EQPT11 Facility's ID=GEN-1
** Description=Generator CAT G3406 276-hp Construction date=12-JUN-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39001E11 POINT 621713.79 3576344.271 0
SO SRCPARAM 39001E11 .0050399 3.76 835.93 39.68 .13
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** NMED source ID=39001EQPT17 Facility's ID=ENG-4
** Description=Engine CAT G3606 1,875-hp Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39001E17 POINT 621709.549 3576337.371 0
SO SRCPARAM 39001E17 .0176397 7.32 705.37 49.65 .38
** NMED source ID=39001EQPT18 Facility's ID=ENG-5
** Description=Engine CAT G3606 1,875-hp Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39001E18 POINT 621711.201 3576329.217 0
SO SRCPARAM 39001E18 .0176397 7.32 705.37 49.65 .38
** NMED source ID=39001EQPT19 Facility's ID=ENG-6
** Description=Engine CAT G3606 1,875-hp Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39001E19 POINT 621718.15 3576324.255 0
SO SRCPARAM 39001E19 .0176397 7.32 705.37 49.65 .38
** NMED source ID=39001EQPT20 Facility's ID=ENG-7
** Description=Engine CAT G3606 1,875-hp Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39001E20 POINT 621726.833 3576325.397 0
SO SRCPARAM 39001E20 .0176397 7.32 705.37 49.65 .38
**********END OF 39001: Bonnyman Compressor Station
INFO**********************************
************************************************************
** 20.94km away. Facility ID=6178 Name=Nitro Compressor Station
** Company ID=901 Name=Versado Gas Processors, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.398534, -103.516093, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=6.68tons/year
*****************Facility sources: ****************************
** NMED source ID=6178EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E3 POINT 639559.986 3585580.103 0
SO SRCPARAM 6178E3 .0289795 7.32 904.26 35.97 .41
** NMED source ID=6178EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E4 POINT 639567.522 3585587.124 0
```

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SO SRCPARAM 6178E4 .0289795 7.32 904.26 35.97 .41
** NMED source ID=6178EQPT6 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E6 POINT 639560.736 3585590.676 0
SO SRCPARAM 6178E6 .0340195 7.92 867.59 32.25 .51
** NMED source ID=6178EQPT7 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E7 POINT 639553.139 3585588.584 0
SO SRCPARAM 6178E7 .0340195 7.92 867.59 32.25 .51
** NMED source ID=6178EQPT8 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E8 POINT 639548.898 3585581.684 0
SO SRCPARAM 6178E8 .0163797 8.84 707.04 46.51 .51
** NMED source ID=6178EQPT9 Facility's ID=ENG-9
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E9 POINT 639550.55 3585573.53 0
SO SRCPARAM 6178E9 .0163797 8.84 707.04 46.51 .51
** NMED source ID=6178EQPT15 Facility's ID=ENG-10
** Description=Compressor Engine Construction date=24-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E15 POINT 639557.499 3585568.568 0
SO SRCPARAM 6178E15 .0163797 8.84 707.04 46.51 .51
** NMED source ID=6178EQPT16 Facility's ID=ENG-11
** Description=Compressor Engine Construction date=24-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E16 POINT 639566.182 3585569.71 0
SO SRCPARAM 6178E16 .0163797 8.84 707.04 46.51 .51
**********END OF 6178: Nitro Compressor Station
INFO**********************************
************************************************************
** 20.99km away. Facility ID=36430 Name=Enterprise - Devon Cotton Draw Compressor
Station
** Company ID=1477 Name=Enterprise Field Services, LLC
** SIC=1311 NAIC=21113    Permit=unknown
```

```
** lat,long,datum=32.15561, -103.737017, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.31tons/year
*****************Facility sources: ****************************
** NMED source ID=36430EQPT1 Facility's ID=ENG-1
** Description=1863-hp Caterpillar G3606 LE Construction date=09-MAY-16
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7618hr/yr, 21hr/day
SO LOCATION 36430E1 POINT 619097.79 3558382.859 0
SO SRCPARAM 36430E1 .0176397 8.84 699.26 76.41 .3
** NMED source ID=36430EQPT2 Facility's ID=ENG-2
** Description=1863-hp Caterpillar G3606 LE Construction date=09-MAY-16
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7706hr/yr, 21hr/day
SO LOCATION 36430E2 POINT 619105.326 3558389.88 0
SO SRCPARAM 36430E2 .0176397 8.84 699.26 76.41 .3
** NMED source ID=36430EQPT3 Facility's ID=GEN-1
** Description=50.6-hp Capstone/C200 Microturbine Construction date=09-MAY-16
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2208hr/yr, 6hr/day
SO LOCATION 36430E3 POINT 619098.54 3558393.432 0
SO SRCPARAM 36430E3 .00126 3.66 552.59 74.46 .08
** NMED source ID=36430EQPT5 Facility's ID=Htr-1
** Description=1.0 MMBtu/hr Heater Construction date=27-JUL-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4609hr/yr, 13hr/day
SO LOCATION 36430E5 POINT 619090.943 3558391.34 0
SO SRCPARAM 36430E5 .00126 4.57 588.71 4.85 .2
** NMED source ID=36430EQPT7 Facility's ID=GEN-3
** Description=146-hp PSI /8.1 LNA Construction date=27-JUL-19
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36430E7 POINT 619086.702 3558384.44 0
SO SRCPARAM 36430E7 .00126 1.83 922.04 68.31 .08
**********END OF 36430: Enterprise - Devon Cotton Draw Compressor Station
INFO************************************
************************************************************
** 21km away. Facility ID=35492 Name=Cotton Draw Unit 1-12 Bone Spring Central Tank
Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6274 NOI
** lat,long,datum=32.144164, -103.732467, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=35492AREA2 Facility's ID=31
** Description=Haul Roads_Road0 Construction date=01-JAN-20
```

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** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35492A2 VOLUME 619541.82 3557119.035 0
SO SRCPARAM 35492A2 .0277196 10 20 9.3
** NMED source ID=35492EQPT28 Facility's ID=9
** Description=Heater_EQ000055016 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35492E28 VOLUME 619549.356 3557126.056 0
SO SRCPARAM 35492E28 .0005796 9.14 .47 .93
** NMED source ID=35492EQPT44 Facility's ID=10
** Description=Heater_EQ000055022 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35492E44 VOLUME 619542.57 3557129.608 0
SO SRCPARAM 35492E44 .0005796 9.14 .47 .93
**********END OF 35492: Cotton Draw Unit 1-12 Bone Spring Central Tank Battery
INFO**********************************
************************************************************
** 21.01km away. Facility ID=40179 Name=Red Tank 26 BOO Station
** Company ID=13962 Name=USA Compression Partners LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.365751, -103.650989, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=6.13tons/year
*****************Facility sources: ****************************
** NMED source ID=40179AREA1 Facility's ID=ROAD
** Description=Unpaved road emissions Construction date=28-SEP-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179A1 VOLUME 626917.931 3581777.603 0
SO SRCPARAM 40179A1 .00126 1 .47 .93
** NMED source ID=40179EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E1 POINT 626925.467 3581784.624 0
SO SRCPARAM 40179E1 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E2 POINT 626918.681 3581788.176 0
```

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SO SRCPARAM 40179E2 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E3 POINT 626911.084 3581786.084 0
SO SRCPARAM 40179E3 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E4 POINT 626906.843 3581779.184 0
SO SRCPARAM 40179E4 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT10 Facility's ID=REB-1
** Description=Reboiler, 0.875 MMBtu/hr Construction date=28-SEP-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E10 POINT 626908.495 3581771.03 0
SO SRCPARAM 40179E10 .00126 3.05 533.15 .16 .24
** NMED source ID=40179EQPT14 Facility's ID=REB-2
** Description=Reboiler, 0.875 MMBtu/hr Construction date=28-SEP-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E14 POINT 626915.444 3581766.068 0
SO SRCPARAM 40179E14 .00126 3.05 533.15 .16 .24
** NMED source ID=40179EQPT16 Facility's ID=ENG-5
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=23-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E16 POINT 626924.127 3581767.21 0
SO SRCPARAM 40179E16 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT17 Facility's ID=ENG-6
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=23-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E17 POINT 626929.837 3581774.138 0
SO SRCPARAM 40179E17 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT18 Facility's ID=ENG-7
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=23-SEP-22
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E18 POINT 626929.272 3581783.319 0
SO SRCPARAM 40179E18 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT19 Facility's ID=ENG-8
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=23-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E19 POINT 626922.437 3581789.797 0
SO SRCPARAM 40179E19 .0214197 4.57 704.82 105.46 .3
** NMED source ID=40179RPNT2 Facility's ID=Site-SSM
** Description=SSM emissions Construction date=28-SEP-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179R2 VOLUME 626912.801 3581789.874 0
SO SRCPARAM 40179R2 .0002898 1 .47 .93
**********END OF 40179: Red Tank 26 BOO Station
INFO**********************************
************************************************************
** 21.02km away. Facility ID=7170 Name=Speyside CTB
** Company ID=14056 Name=Avant Natural Resources
** SIC=1311 NAIC=21112    Permit=10054 NOI
** lat,long,datum=32.398611, -103.503889, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=7170EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=25-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7170E3 VOLUME 640707.752 3585604.638 0
SO SRCPARAM 7170E3 .00126 4.57 .47 .93
**********END OF 7170: Speyside CTB INFO************************************
************************************************************
** 21.02km away. Facility ID=40046 Name=Crunch Berry CTB
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.399237, -103.51646, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.43tons/year
*****************Facility sources: ******************************
** NMED source ID=40046EQPT4 Facility's ID=H-1
** Description=Heater Treater Construction date=24-JUN-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40046E4 POINT 639524.385 3585657.563 0
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SO SRCPARAM 40046E4 .00126 6.1 588.71 5.19 .2
** NMED source ID=40046EQPT7 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=16-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40046E7 POINT 639531.921 3585664.584 0
SO SRCPARAM 40046E7 .0100798 4.57 863.15 24.17 .2
** NMED source ID=40046EQPT8 Facility's ID=H-2
** Description=Heater Treater Construction date=16-NOV-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40046E8 VOLUME 639525.135 3585668.136 0
SO SRCPARAM 40046E8 .00126 6.1 .47 .93
**********END OF 40046: Crunch Berry CTB INFO************************************
************************************************************
** 21.02km away. Facility ID=33319 Name=Ragin Cajun Central Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5481 NOI
** lat,long,datum=32.037, -103.436, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=33319AREA1 Facility's ID=22
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8616hr/yr, 24hr/day
SO LOCATION 33319A1 VOLUME 647676.886 3545606.301 0
SO SRCPARAM 33319A1 .0277196 10 20 9.3
** NMED source ID=33319EQPT1 Facility's ID=7
** Description=Heater_EQ000152292 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8664hr/yr, 24hr/day
SO LOCATION 33319E1 VOLUME 647684.422 3545613.322 0
SO SRCPARAM 33319E1 .0005796 9.14 .47 .93
** NMED source ID=33319EQPT9 Facility's ID=8
** Description=Heater_EQ000152310 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8664hr/yr, 24hr/day
SO LOCATION 33319E9 VOLUME 647677.636 3545616.874 0
SO SRCPARAM 33319E9 .0005796 9.14 .47 .93
**********END OF 33319: Ragin Cajun Central Battery
INFO************************************
************************************************************
** 21.05km away. Facility ID=38200 Name=Cotton Draw Unit 118 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=7609 NOI
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** lat,long,datum=32.194658, -103.746547, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.78tons/year
*****************Facility sources: ****************************
** NMED source ID=38200AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38200A1 VOLUME 618148.623 3562701.102 0
SO SRCPARAM 38200A1 1.0898827 10 90 9.3
** NMED source ID=38200EQPT6 Facility's ID=Heater_5371
** Description=Heater_EQ000155371 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38200E6 VOLUME 618156.159 3562708.123 0
SO SRCPARAM 38200E6 .0005796 9.14 .47 .93
** NMED source ID=38200EQPT9 Facility's ID=Heater_5348
** Description=Heater_EQ000155348 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38200E9 VOLUME 618149.373 3562711.675 0
SO SRCPARAM 38200E9 .0005796 9.14 .47 .93
**********END OF 38200: Cotton Draw Unit 118 Battery
INFO*************************************
************************************************************
** 21.05km away. Facility ID=31090 Name=Green Wave 20 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4670 NOI
** lat,long,datum=32.022586, -103.49935, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.23tons/year
*****************Facility sources: ****************************
** NMED source ID=31090AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 31090A1 VOLUME 641716.803 3543923.478 0
SO SRCPARAM 31090A1 .0277196 10 20 9.3
** NMED source ID=31090EQPT4 Facility's ID=ENG 1
** Description=Engine_EQ000073143 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 31090E4 POINT 641724.339 3543930.499 0
SO SRCPARAM 31090E4 .0037799 2.5 949.82 64.8 .1
** NMED source ID=31090EQPT9 Facility's ID=HT-1
** Description=Heater_EQ000072971 Construction date=01-JAN-20
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31090E9 VOLUME 641717.553 3543934.051 0
SO SRCPARAM 31090E9 .00126 9.14 .47 .93
** NMED source ID=31090EQPT17 Facility's ID=HT-2
** Description=Heater_EQ000118259 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31090E17 VOLUME 641709.956 3543931.959 0
SO SRCPARAM 31090E17 .0005796 9.14 .47 .93
**********END OF 31090: Green Wave 20 CTB 1
INFO**********************************
************************************************************
** 21.06km away. Facility ID=40396 Name=Cotton Draw Unit 12 CTB 12
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.140607, -103.731556, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.27tons/year
*****************Facility sources: ******************************
** NMED source ID=40396AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=08-APR-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40396A1 VOLUME 619632.389 3556725.729 0
SO SRCPARAM 40396A1 .0277196 10 20 9.3
** NMED source ID=40396EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516B, 1380 hp Construction date=08-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40396E1 POINT 619639.925 3556732.75 0
SO SRCPARAM 40396E1 .0125998 7.32 715.37 37.76 .38
** NMED source ID=40396EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516B, 1380 hp Construction date=08-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40396E2 POINT 619633.139 3556736.302 0
SO SRCPARAM 40396E2 .0125998 7.32 715.37 37.76 .38
** NMED source ID=40396EQPT4 Facility's ID=HT-1
** Description=3 MMBtu/h Heater Treater Construction date=08-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40396E4 VOLUME 619625.542 3556734.21 0
SO SRCPARAM 40396E4 .00252 9.14 .47 .93
** NMED source ID=40396EQPT5 Facility's ID=HT-2
** Description=3 MMBtu/h Heater Treater Construction date=08-APR-22
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40396E5 VOLUME 619621.301 3556727.31 0
SO SRCPARAM 40396E5 .00252 9.14 .47 .93
**********END OF 40396: Cotton Draw Unit 12 CTB 12
INFO**********************************
************************************************************
** 21.12km away. Facility ID=32464 Name=EOG - Endurance 25 Fed Com No1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0208, -103.5236, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.92tons/year
*****************Facility sources: ****************************
** NMED source ID=32464AREA1 Facility's ID=ROAD
** Description=Haul Roads (Fugitives) Construction date=26-AUG-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32464A1 VOLUME 639429.187 3543693.926 0
SO SRCPARAM 32464A1 .0214197 1 .47 .93
** NMED source ID=32464EQPT3 Facility's ID=Heater-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32464E3 VOLUME 639436.723 3543700.947 0
SO SRCPARAM 32464E3 .0005796 4.88 .47 .93
** NMED source ID=32464EQPT7 Facility's ID=ENG-1
** Description=Gas Lift Engine (203hp) Construction date=26-AUG-21
** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32464E7 POINT 639429.937 3543704.499 0
SO SRCPARAM 32464E7 .0037799 4.88 846.48 33.83 .13
**********END OF 32464: EOG - Endurance 25 Fed Com No1H
INFO**********************************
************************************************************
** 21.18km away. Facility ID=39840 Name=Cimarex - West Grama Ridge 7-6 Fed 1H, 3H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.400133, -103.50458, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.45tons/year
*****************Facility sources: ****************************
** NMED source ID=39840AREA1 Facility's ID=HR
** Description=Haul Road Emissions Construction date=11-JAN-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39840A1 VOLUME 640640.398 3585772.467 0
```

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SO SRCPARAM 39840A1 .0113398 10 10 9.3
** NMED source ID=39840EQPT3 Facility's ID=GEN-1
** Description=Generator Engine 4SRB Construction date=01-JAN-11
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39840E3 POINT 640647.934 3585779.488 0
SO SRCPARAM 39840E3 .0100798 2.29 1023.15 215.25 .09
** NMED source ID=39840EQPT4 Facility's ID=H-1
** Description=Heater Treater 1 (2MM Btu/h) Construction date=11-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39840E4 VOLUME 640641.148 3585783.04 0
SO SRCPARAM 39840E4 .00126 4.57 .47 .93
**********END OF 39840: Cimarex - West Grama Ridge 7-6 Fed 1H, 3H
INFO**********************************
************************************************************
** 21.23km away. Facility ID=41026 Name=Songbird Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.107066, -103.71317, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.98tons/year
*****************Facility sources: ******************************
** NMED source ID=41026EQPT4 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E4 POINT 621410.992 3553028.055 0
SO SRCPARAM 41026E4 .0239396 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT5 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E5 POINT 621418.528 3553035.076 0
SO SRCPARAM 41026E5 .0239396 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT6 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E6 POINT 621411.742 3553038.628 0
SO SRCPARAM 41026E6 .0239396 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT7 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 41026E7 POINT 621404.145 3553036.536 0
SO SRCPARAM 41026E7 .0239396 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT8 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E8 POINT 621399.904 3553029.636 0
SO SRCPARAM 41026E8 .0239396 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT9 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E9 POINT 621401.556 3553021.482 0
SO SRCPARAM 41026E9 .0239396 7.01 710.93 58.98 .41
**********END OF 41026: Songbird Compressor Station
INFO**********************************
************************************************************
** 21.24km away. Facility ID=40511 Name=Cotton Draw Unit 26 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9653 NOI
** lat,long,datum=32.194366, -103.748606, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.79tons/year
*****************Facility sources: ****************************
** NMED source ID=40511EQPT1 Facility's ID=ENG 1
** Description=Engine 1 Construction date=24-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40511E1 POINT 617954.908 3562666.47 0
SO SRCPARAM 40511E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=40511EQPT2 Facility's ID=ENG 2
** Description=Engine 2 Construction date=24-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40511E2 POINT 617962.444 3562673.491 0
SO SRCPARAM 40511E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40511: Cotton Draw Unit 26 Wellpad 2
INFO**********************************
************************************************************
** 21.24km away. Facility ID=40849 Name=Colossus 18 19 Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.049509, -103.403121, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.17tons/year
*****************Facility sources: ****************************
** NMED source ID=40849ACT 1 Facility's ID=ROAD
** Description=Unpaved Haul Road Construction date=20-JAN-23
```

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** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849@1 VOLUME 650761.244 3547038.519 0
SO SRCPARAM 40849@1 .00252 1 .47 .93
** NMED source ID=40849EQPT3 Facility's ID=GEN-01
** Description=Generator Engine 1 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E3 POINT 650768.78 3547045.54 0
SO SRCPARAM 40849E3 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT4 Facility's ID=GEN-02
** Description=Generator Engine 2 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E4 POINT 650761.994 3547049.092 0
SO SRCPARAM 40849E4 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT5 Facility's ID=GEN-03
** Description=Generator Engine 3 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E5 POINT 650754.397 3547047 0
SO SRCPARAM 40849E5 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT6 Facility's ID=GEN-04
** Description=Generator Engine 4 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E6 POINT 650750.156 3547040.1 0
SO SRCPARAM 40849E6 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT7 Facility's ID=GEN-05
** Description=Generator Engine 5 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E7 POINT 650751.808 3547031.946 0
SO SRCPARAM 40849E7 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT8 Facility's ID=GEN-06
** Description=Generator Engine 6 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E8 POINT 650758.757 3547026.984 0
SO SRCPARAM 40849E8 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT9 Facility's ID=GEN-07
** Description=Generator Engine 7 Construction date=20-JAN-23
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E9 POINT 650767.44 3547028.126 0
SO SRCPARAM 40849E9 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT10 Facility's ID=GEN-08
** Description=Generator Engine 8 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E10 POINT 650773.15 3547035.054 0
SO SRCPARAM 40849E10 .0037799 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT12 Facility's ID=HTR-01
** Description=Heater Treater Heater-01 Construction date=20-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E12 VOLUME 650772.585 3547044.235 0
SO SRCPARAM 40849E12 .00126 4.88 .47 .93
**********END OF 40849: Colossus 18 19 Fed Com CTB
INFO**********************************
************************************************************
** 21.27km away. Facility ID=40247 Name=Cotton Draw Unit 26 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.192735, -103.74874, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.32tons/year
*****************Facility sources: ******************************
** NMED source ID=40247AREA1 Facility's ID=ROAD-1
** Description=Unpaved haul roads Construction date=14-DEC-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247A1 VOLUME 617944.381 3562485.515 0
SO SRCPARAM 40247A1 .0138598 10 10 9.3
** NMED source ID=40247EQPT3 Facility's ID=HT-1
** Description=3.0 MM Btu/hr heater treater EQ000889383 Construction date=14-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247E3 VOLUME 617951.917 3562492.536 0
SO SRCPARAM 40247E3 .0037799 9.14 .47 .93
** NMED source ID=40247EQPT4 Facility's ID=HT-2
** Description=3.0 MM Btu/hr heater treater EQ000891675 Construction date=14-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247E4 VOLUME 617945.131 3562496.088 0
SO SRCPARAM 40247E4 .0037799 9.14 .47 .93
** NMED source ID=40247EQPT14 Facility's ID=ENG 1
** Description=Gas Lift Engine Construction date=25-MAY-23
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247E14 POINT 617937.534 3562493.996 0
SO SRCPARAM 40247E14 .0138598 5.85 772.59 37.4 .27
** NMED source ID=40247EQPT15 Facility's ID=ENG 2
** Description=Gas Lift Engine Construction date=25-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247E15 POINT 617933.293 3562487.096 0
SO SRCPARAM 40247E15 .0138598 5.85 772.59 37.4 .27
** NMED source ID=40247EQPT16 Facility's ID=LPC-5
** Description=LPC-5 Low Pressure Compressor EQ000184523 Construction date=25-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247E16 POINT 617934.945 3562478.942 0
SO SRCPARAM 40247E16 .0037799 2.5 919.82 51.42 .1
**********END OF 40247: Cotton Draw Unit 26 CTB 2
INFO************************************
************************************************************
** 21.29km away. Facility ID=38275 Name=Grama Ridge 8 State 2H-3H-5H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.399667, -103.489889, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=38275EQPT2 Facility's ID=HTR-1
** Description=Heater Treater 1 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38275E2 VOLUME 642022.915 3585740.227 0
SO SRCPARAM 38275E2 .00126 6.1 .47 .93
** NMED source ID=38275RPNT2 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38275R2 VOLUME 642030.451 3585747.248 0
SO SRCPARAM 38275R2 .0002898 1 .47 .93
**********END OF 38275: Grama Ridge 8 State 2H-3H-5H
INFO************************************
************************************************************
** 21.31km away. Facility ID=35680 Name=Thor 21 CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0234, -103.5715, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.09tons/year
```

**********Facility sources: **********
** NMED source ID=35680EQPT12 Facility's ID=F-HTR-1
** Description=Heater Treater Construction date=16-APR-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35680E12 VOLUME 634901.345 3543921.335 0
SO SRCPARAM 35680E12 .00126 4.88 .47 .93
** NMED source ID=35680EQPT17 Facility's ID=HTR-1
** Description=Heater Treater Construction date=16-APR-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35680E17 VOLUME 634908.881 3543928.356 0
SO SRCPARAM 35680E17 .00126 4.88 .47 .93
** NMED source ID=35680EQPT18 Facility's ID=HTR-2
** Description=Heater Treater Construction date=16-APR-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35680E18 VOLUME 634902.095 3543931.908 0
SO SRCPARAM 35680E18 .00126 4.88 .47 .93
**********END OF 35680: Thor 21 CTB INFO**********
**********
** 21.34km away. Facility ID=9498 Name=Red Tank 27 Compressor Station
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.361872, -103.663167, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
**********Facility sources: **********
** NMED source ID=9498EQPT2 Facility's ID=REB-1
** Description=Glycol Reboiler Construction date=19-JAN-24
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9498E2 POINT 625777.48 3581333.19 0
SO SRCPARAM 9498E2 .00126 3.05 533.15 .16 .24
** NMED source ID=9498RPNT3 Facility's ID=SITE-SSM
** Description=Startup, Shutdown, and Maintenance (SSM) Emissions Construction
date=19-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9498R3 VOLUME 625785.016 3581340.211 0
SO SRCPARAM 9498R3 .0002898 1 .47 .93
**********END OF 9498: Red Tank 27 Compressor Station
INFO**********
**********
** 21.36km away. Facility ID=40508 Name=Muskie 23 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP

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** SIC=1311 NAIC=21112    Permit=9651 NOI
** lat,long,datum=32.029826, -103.447881, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.79tons/year
*****************Facility sources: ****************************
** NMED source ID=40508EQPT1 Facility's ID=ENG 1
** Description=Combustion Engine Construction date=19-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40508E1 POINT 646566.36 3544794.796 0
SO SRCPARAM 40508E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=40508EQPT2 Facility's ID=ENG 2
** Description=Combustion Engine Construction date=19-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40508E2 POINT 646573.896 3544801.817 0
SO SRCPARAM 40508E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40508: Muskie 23 Wellpad 3
INFO***********************************
************************************************************
** 21.38km away. Facility ID=722 Name=Bootleg Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.388889, -103.608333, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1tons/year
*****************Facility sources: ****************************
** NMED source ID=722EQPT6 Facility's ID=002
** Description=Waukesha L 7042 GSI Construction date=20-MAY-10
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8451hr/yr, 24hr/day
SO LOCATION 722E6 POINT 630931.986 3554367.831 0
SO SRCPARAM 722E6 .014389 6.1 841.48 34.75 .3
** NMED source ID=722EQPT13 Facility's ID=001a
** Description=Waukesha L 7042 GSI Construction date=20-MAY-10
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8240hr/yr, 24hr/day
SO LOCATION 722E13 POINT 630932.101 3584366.983 0
SO SRCPARAM 722E13 .014389 6.1 841.48 34.75 .3
**********END OF 722: Bootleg Compressor Station
INFO***********************************
************************************************************
** 21.41km away. Facility ID=35139 Name=Salado Draw 19 CTB and CS
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=6109 NSR
** lat,long,datum=32.034917, -103.616556, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=3.52tons/year
*****************Facility sources: ****************************
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** NMED source ID=35139EQPT2 Facility's ID=ENG-1
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6600hr/yr, 18hr/day
SO LOCATION 35139E2 POINT 630629.729 3545142.696 0
SO SRCPARAM 35139E2 .0125998 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT3 Facility's ID=ENG-2
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6402hr/yr, 17hr/day
SO LOCATION 35139E3 POINT 630637.265 3545149.717 0
SO SRCPARAM 35139E3 .0125998 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT4 Facility's ID=ENG-3
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3738hr/yr, 10hr/day
SO LOCATION 35139E4 POINT 630630.479 3545153.269 0
SO SRCPARAM 35139E4 .0125998 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT6 Facility's ID=REB-1
** Description=Glycol Dehydration-Reboiler (1MMBtu/hr) Construction date=07-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35139E6 POINT 630622.882 3545151.177 0
SO SRCPARAM 35139E6 .00126 6.1 533.15 2.5 .3
** NMED source ID=35139EQPT7 Facility's ID=HTR-1
** Description=Heater-Treater (4 MMBtu/hr) Construction date=07-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E7 VOLUME 630618.641 3545144.277 0
SO SRCPARAM 35139E7 .0037799 6.1 .47 .93
** NMED source ID=35139EQPT10 Facility's ID=HTR-3
** Description=Heater-Treater (4 MMBtu/hr) Construction date=07-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E10 VOLUME 630620.293 3545136.123 0
SO SRCPARAM 35139E10 .0037799 6.1 .47 .93
** NMED source ID=35139EQPT14 Facility's ID=ENG-4
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=7385hr/yr, 20hr/day
SO LOCATION 35139E14 POINT 630627.242 3545131.161 0
SO SRCPARAM 35139E14 .0125998 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT21 Facility's ID=SEP-1
** Description=Heated Separator (4 MMBtu/hr) Construction date=12-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E21 VOLUME 630635.925 3545132.303 0
SO SRCPARAM 35139E21 .0037799 6.1 .47 .93
** NMED source ID=35139EQPT22 Facility's ID=SEP-2
** Description=Heated Separator (4 MMBtu/hr) Construction date=12-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E22 VOLUME 630641.635 3545139.231 0
SO SRCPARAM 35139E22 .0037799 6.1 .47 .93
** NMED source ID=35139EQPT23 Facility's ID=SEP-3
** Description=Heated Separator (4 MMBtu/hr) Construction date=12-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E23 VOLUME 630641.07 3545148.412 0
SO SRCPARAM 35139E23 .0037799 6.1 .47 .93
** NMED source ID=35139EQPT24 Facility's ID=ENG-5
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7398hr/yr, 20hr/day
SO LOCATION 35139E24 POINT 630634.235 3545154.89 0
SO SRCPARAM 35139E24 .0125998 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT25 Facility's ID=ENG-6
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35139E25 POINT 630624.599 3545154.967 0
SO SRCPARAM 35139E25 .0125998 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT9 Facility's ID=HTR-2
** Description=Heater-Treater (4 MMBtu/hr) Construction date=07-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E9 VOLUME 630617.338 3545148.301 0
SO SRCPARAM 35139E9 .0037799 6.1 .47 .93
**********END OF 35139: Salado Draw 19 CTB and CS
INFO**********************************
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** 21.42km away. Facility ID=40315 Name=Muskie 23 CTB 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.031495, -103.44083, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.65tons/year
*****************Facility sources: ******************************
** NMED source ID=40315AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=30-MAR-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40315A1 VOLUME 647229.586 3544989.414 0
SO SRCPARAM 40315A1 .0277196 10 20 9.3
** NMED source ID=40315EQPT3 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=30-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40315E3 VOLUME 647237.122 3544996.435 0
SO SRCPARAM 40315E3 .0037799 9.14 .47 .93
** NMED source ID=40315EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=30-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40315E4 VOLUME 647230.336 3544999.987 0
SO SRCPARAM 40315E4 .0037799 9.14 .47 .93
**********END OF 40315: Muskie 23 CTB 4 INFO**********************************
************************************************************
** 21.45km away. Facility ID=6933 Name=Cronus Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.347435, -103.684247, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=6.85tons/year
*****************Facility sources: ******************************
** NMED source ID=6933EQPT2 Facility's ID=ENG-1
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E2 POINT 623813.666 3579708.106 0
SO SRCPARAM 6933E2 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT3 Facility's ID=ENG-2
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E3 POINT 623821.202 3579715.127 0
SO SRCPARAM 6933E3 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT4 Facility's ID=ENG-3
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** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E4 POINT 623814.416 3579718.679 0
SO SRCPARAM 6933E4 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT5 Facility's ID=ENG-4
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E5 POINT 623806.819 3579716.587 0
SO SRCPARAM 6933E5 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT6 Facility's ID=ENG-5
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E6 POINT 623802.578 3579709.687 0
SO SRCPARAM 6933E6 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT7 Facility's ID=ENG-6
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E7 POINT 623804.23 3579701.533 0
SO SRCPARAM 6933E7 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT8 Facility's ID=ENG-7
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E8 POINT 623811.179 3579696.571 0
SO SRCPARAM 6933E8 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT9 Facility's ID=ENG-8
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E9 POINT 623819.862 3579697.713 0
SO SRCPARAM 6933E9 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT10 Facility's ID=ENG-9
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E10 POINT 623825.572 3579704.641 0
SO SRCPARAM 6933E10 .0214197 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT13 Facility's ID=Heater-1
** Description=0.75 MMbtu/h Seperator Heater Construction date=21-NOV-23
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E13 VOLUME 623825.007 3579713.822 0
SO SRCPARAM 6933E13 .00126 3.96 .47 .93
** NMED source ID=6933EQPT15 Facility's ID=Reboiler-1
** Description=2 MMbtu/hr Dehydrator Reboiler Construction date=21-NOV-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E15 POINT 623818.172 3579720.3 0
SO SRCPARAM 6933E15 .00252 3.96 588.71 5.3 .3
**********END OF 6933: Cronus Compressor Station
INFO**********************************
************************************************************
** 21.45km away. Facility ID=40509 Name=Muskie 23 Wellpad 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9652 NOI
** lat,long,datum=32.030144, -103.444057, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.79tons/year
*****************Facility sources: ****************************
** NMED source ID=40509EQPT1 Facility's ID=ENG 1
** Description=Engine 1 Construction date=20-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40509E1 POINT 646926.991 3544835.246 0
SO SRCPARAM 40509E1 .0151198 5.85 256.07 31.94 .27
** NMED source ID=40509EQPT2 Facility's ID=ENG 2
** Description=Engine 2 Construction date=20-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40509E2 POINT 646934.527 3544842.267 0
SO SRCPARAM 40509E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40509: Muskie 23 Wellpad 4
INFO**********************************
************************************************************
** 21.45km away. Facility ID=40747 Name=Muskie 23 CTB 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.032987, -103.435491, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.68tons/year
*****************Facility sources: ****************************
** NMED source ID=40747AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=13-OCT-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40747A1 VOLUME 647731.397 3545162.111 0
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SO SRCPARAM 40747A1 .0277196 10 20 9.3
** NMED source ID=40747EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=13-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40747E2 VOLUME 647738.933 3545169.132 0
SO SRCPARAM 40747E2 .0037799 9.14 .47 .93
** NMED source ID=40747EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=13-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40747E3 VOLUME 647732.147 3545172.684 0
SO SRCPARAM 40747E3 .0037799 9.14 .47 .93
**********END OF 40747: Muskie 23 CTB 5 INFO************************************
************************************************************
** 21.47km away. Facility ID=8508 Name=Purrito 18 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.308076, -103.720666, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.43tons/year
*****************Facility sources: ****************************
** NMED source ID=8508AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=05-DEC-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508A1 VOLUME 620438.462 3575303.226 0
SO SRCPARAM 8508A1 .0277196 10 20 9.3
** NMED source ID=8508EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E1 POINT 620445.998 3575310.247 0
SO SRCPARAM 8508E1 .0125998 5.85 772.59 37.4 .27
** NMED source ID=8508EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Gas Lift Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E2 POINT 620439.212 3575313.799 0
SO SRCPARAM 8508E2 .0037799 3.6 853.15 19.96 .17
** NMED source ID=8508EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E3 POINT 620431.615 3575311.707 0
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SO SRCPARAM 8508E3 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8508EQPT4 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E4 POINT 620427.374 3575304.807 0
SO SRCPARAM 8508E4 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8508EQPT5 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E5 POINT 620429.026 3575296.653 0
SO SRCPARAM 8508E5 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8508EQPT6 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E6 POINT 620435.975 3575291.691 0
SO SRCPARAM 8508E6 .0100798 3.17 1005.37 77.48 .15
** NMED source ID=8508EQPT11 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=05-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E11 VOLUME 620444.658 3575292.833 0
SO SRCPARAM 8508E11 .00252 9.14 .47 .93
** NMED source ID=8508EQPT12 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=05-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E12 VOLUME 620450.368 3575299.761 0
SO SRCPARAM 8508E12 .00252 9.14 .47 .93
**********END OF 8508: Purrito 18 CTB 1 INFO**********************************
************************************************************
** 21.49km away. Facility ID=36830 Name=Rattlesnake 21 East CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0218, -103.5717, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=36830EQPT4 Facility's ID=Heater-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8616hr/yr, 24hr/day
SO LOCATION 36830E4 VOLUME 634884.801 3543743.712 0
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SO SRCPARAM 36830E4 .00126 4.88 .47 .93
**********END OF 36830: Rattlesnake 21 East CTB
INFO**********************************
************************************************************
** 21.52km away. Facility ID=38694 Name=Picante Compressor Station
** Company ID=12729 Name=Delaware Basin Midstream, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.037986, -103.626833, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.5tons/year
*****************Facility sources: ****************************
** NMED source ID=38694EQPT1 Facility's ID=CE-1
** Description=1875 hp Cat G3606 A4 Construction date=21-NOV-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8213hr/yr, 24hr/day
SO LOCATION 38694E1 POINT 629654.929 3545470.531 0
SO SRCPARAM 38694E1 .0188997 7.62 691.48 47.58 .3
** NMED source ID=38694EQPT2 Facility's ID=CE-2
** Description=1875 hp Cat 3606 A4 Construction date=21-NOV-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8286hr/yr, 24hr/day
SO LOCATION 38694E2 POINT 629662.465 3545477.552 0
SO SRCPARAM 38694E2 .0188997 7.62 691.48 47.58 .3
** NMED source ID=38694EQPT3 Facility's ID=CE-3
** Description=1875 hp Cat 3606 A4 Construction date=21-NOV-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7150hr/yr, 24hr/day
SO LOCATION 38694E3 POINT 629655.679 3545481.104 0
SO SRCPARAM 38694E3 .0188997 7.62 691.48 47.58 .3
** NMED source ID=38694EQPT4 Facility's ID=CE-4
** Description=1875 hp Cat 3606 A4 Construction date=21-NOV-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8436hr/yr, 24hr/day
SO LOCATION 38694E4 POINT 629648.082 3545479.012 0
SO SRCPARAM 38694E4 .0188997 7.62 691.48 47.58 .3
** NMED source ID=38694EQPT5 Facility's ID=DHR-1
** Description=0.25 MMBtu/hr glycol regen heater Construction date=21-NOV-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8697hr/yr, 24hr/day
SO LOCATION 38694E5 POINT 629643.841 3545472.112 0
SO SRCPARAM 38694E5 .0002898 5.18 477.59 .98 .24
** NMED source ID=38694EQPT6 Facility's ID=DHR-2
** Description=0.25 MMBtu/hr glycol regen heater Construction date=21-NOV-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8697hr/yr, 24hr/day
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SO LOCATION 38694E6 POINT 629645.493 3545463.958 0
SO SRCPARAM 38694E6 .0002898 5.18 477.59 .98 .24
** NMED source ID=38694EQPT7 Facility's ID=GEN-1
** Description=Office Diesel Generator Construction date=21-NOV-18
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5986hr/yr, 16hr/day
SO LOCATION 38694E7 POINT 629652.442 3545458.996 0
SO SRCPARAM 38694E7 .0002898 1.83 655.37 33.71 .09
** NMED source ID=38694EQPT13 Facility's ID=EC-1
** Description=Enclosed Vapor Combustor Construction date=21-NOV-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8713hr/yr, 24hr/day
SO LOCATION 38694E13 POINT 629661.125 3545460.138 0
SO SRCPARAM 38694E13 .0113398 7.01 1273 20 1.22
** NMED source ID=38694EQPT14 Facility's ID=CE-5
** Description=1875 hp Cat 3606 A4 Construction date=22-JUL-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38694E14 POINT 629666.835 3545467.066 0
SO SRCPARAM 38694E14 .0188997 7.62 691.48 47.58 .3
** NMED source ID=38694EQPT15 Facility's ID=GEN-2
** Description=Hot Start Diesel Generator Construction date=22-JUL-20
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38694E15 POINT 629666.27 3545476.247 0
SO SRCPARAM 38694E15 .0002898 1.83 655.37 33.71 .09
** NMED source ID=38694EQPT16 Facility's ID=FL-1 SSM
** Description=SSM Flare Construction date=15-JUL-22
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38694E16 POINT 629659.435 3545482.725 0
SO SRCPARAM 38694E16 .002016 9.14 1273 20 .67
** NMED source ID=38694EQPT18 Facility's ID=GEN-3
** Description=Heat Trace Diesel Generator Construction date=15-JUL-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2781hr/yr, 24hr/day
SO LOCATION 38694E18 POINT 629649.799 3545482.802 0
SO SRCPARAM 38694E18 .0002898 1.83 588.71 37.03 .06
** NMED source ID=38694EQPT19 Facility's ID=GEN-4
** Description=Light Tower Diesel Generator Construction date=15-JUL-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38694E19 POINT 629642.538 3545476.136 0
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SO SRCPARAM 38694E19 .00126 1.83 572.59 20.75 .03
** NMED source ID=38694EQPT20 Facility's ID=GEN-5
** Description=Light Tower Diesel Generator Construction date=15-JUL-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38694E20 POINT 629641.758 3545466.09 0
SO SRCPARAM 38694E20 .00126 1.83 572.59 20.75 .03
**********END OF 38694: Picante Compressor Station
INFO**********************************
************************************************************
** 21.56km away. Facility ID=30051 Name=CDU Booster Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1431, -103.7384, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=6.04tons/year
*****************Facility sources: ******************************
** NMED source ID=30051EQPT1 Facility's ID=ENG-1
** Description=Waukesha L-7042GSI 1465 hp w/compressor Construction date=07-SEP-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4701hr/yr, 24hr/day
SO LOCATION 30051E1 POINT 618983.618 3556994.511 0
SO SRCPARAM 30051E1 .0352794 4.57 917.59 32.92 .38
** NMED source ID=30051EQPT2 Facility's ID=ENG-2
** Description=Waukesha L-7042GSI 1465 hp w/compressor Construction date=07-SEP-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2540hr/yr, 24hr/day
SO LOCATION 30051E2 POINT 618991.154 3557001.532 0
SO SRCPARAM 30051E2 .0352794 4.57 917.59 32.92 .38
** NMED source ID=30051EQPT3 Facility's ID=ENG-3
** Description=Waukesha L-7042GSI 1465 hp w/compressor Construction date=07-SEP-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3857hr/yr, 24hr/day
SO LOCATION 30051E3 POINT 618984.368 3557005.084 0
SO SRCPARAM 30051E3 .0352794 4.57 917.59 32.92 .38
** NMED source ID=30051EQPT4 Facility's ID=ENG-4
** Description=Waukesha L-7042GSI 1465 hp w/compressor Construction date=07-SEP-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2544hr/yr, 24hr/day
SO LOCATION 30051E4 POINT 618976.771 3557002.992 0
SO SRCPARAM 30051E4 .0352794 4.57 917.59 32.92 .38
** NMED source ID=30051EQPT7 Facility's ID=ENG-5
** Description=Caterpillar G3516B LE, 1380 hp w/compressor Construction
date=17-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8325hr/yr, 24hr/day
SO LOCATION 30051E7 POINT 671488.299 3592698.753 1063.1
SO SRCPARAM 30051E7 .0151198 4.57 880.93 38.1 .38
** NMED source ID=30051EQPT8 Facility's ID=ENG-6
** Description=Caterpillar G3516B LE, 1380 hp w/compressor Construction
date=17-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 30051E8 POINT 671488.299 3592698.753 1063.1
SO SRCPARAM 30051E8 .0151198 4.57 880.93 38.1 .38
** NMED source ID=30051EQPT10 Facility's ID=RBL-1
** Description=0.75 MMBtu/hr TEG Dehydrator Reboiler Construction date=22-AUG-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 30051E10 POINT 618981.131 3556982.976 0
SO SRCPARAM 30051E10 .00126 7.01 588.71 1.5 .32
** NMED source ID=30051EQPT13 Facility's ID=ECD-2
** Description=11 MSCFD Enclosed Combustion Device Construction date=14-JAN-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 30051E13 POINT 618989.814 3556984.118 0
SO SRCPARAM 30051E13 .0005796 4.57 1273 20 .76
**********END OF 30051: CDU Booster Station
INFO**********************************
************************************************************
** 21.6km away. Facility ID=40799 Name=Exotic Cat 5 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.336131, -103.698909, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.42tons/year
*****************Facility sources: ****************************
** NMED source ID=40799AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=28-OCT-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40799A1 VOLUME 622449.081 3578438.073 0
SO SRCPARAM 40799A1 .0277196 10 20 9.3
** NMED source ID=40799EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=28-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40799E2 VOLUME 622456.617 3578445.094 0
SO SRCPARAM 40799E2 .0037799 9.14 .47 .93
** NMED source ID=40799EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=28-OCT-22
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40799E3 VOLUME 622449.831 3578448.646 0
SO SRCPARAM 40799E3 .0037799 9.14 .47 .93
**********END OF 40799: Exotic Cat 5 CTB 2 INFO************************************
************************************************************
** 21.6km away. Facility ID=39310 Name=Queso Blanco CTB
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.387722, -103.430306, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.57tons/year
*****************Facility sources: ******************************
** NMED source ID=39310EQPT11 Facility's ID=ENG-1
** Description=Caterpillar 690 hp compressor engine Construction date=01-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39310E11 POINT 647646.609 3584496.644 0
SO SRCPARAM 39310E11 .0062999 7.32 799.82 41.86 .1
** NMED source ID=39310EQPT12 Facility's ID=ENG-2
** Description=Caterpillar 203 hp compressor engine Construction date=01-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39310E12 POINT 647654.145 3584503.665 0
SO SRCPARAM 39310E12 .0037799 4.27 858.71 55.6 .1
** NMED source ID=39310EQPT13 Facility's ID=ENG-3
** Description=Caterpillar 203 hp compressor engine Construction date=01-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39310E13 POINT 647647.359 3584507.217 0
SO SRCPARAM 39310E13 .0037799 4.27 858.71 55.6 .1
** NMED source ID=39310EQPT14 Facility's ID=H-1
** Description=1 MMbtu/h Heater Treater Construction date=01-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39310E14 VOLUME 647639.762 3584505.125 0
SO SRCPARAM 39310E14 .00126 3.96 .47 .93
** NMED source ID=39310EQPT15 Facility's ID=H-2
** Description=1 MMbtu/h Heater Treater Construction date=01-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39310E15 VOLUME 647635.521 3584498.225 0
SO SRCPARAM 39310E15 .00126 3.96 .47 .93
**********END OF 39310: Queso Blanco CTB INFO************************************
************************************************************
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** 21.64km away. Facility ID=40510 Name=Cotton Draw Unit 26 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9654 NOI
** lat,long,datum=32.194398, -103.752865, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.79tons/year
*****************Facility sources: ******************************
** NMED source ID=40510EQPT1 Facility's ID=ENG 1
** Description=Engine 1 Construction date=25-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40510E1 POINT 617553.391 3562665.353 0
SO SRCPARAM 40510E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=40510EQPT2 Facility's ID=ENG 2
** Description=Engine 2 Construction date=25-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40510E2 POINT 617560.927 3562672.374 0
SO SRCPARAM 40510E2 .0075599 4.39 790.93 14.04 .26
**********END OF 40510: Cotton Draw Unit 26 Wellpad 1
INFO**********************************
************************************************************
** 21.66km away. Facility ID=40982 Name=Muskie 23 Wellpad 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9927 NOI
** lat,long,datum=32.030273, -103.437491, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.37tons/year
*****************Facility sources: ******************************
** NMED source ID=40982EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=23-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40982E1 POINT 647546.876 3544858.499 0
SO SRCPARAM 40982E1 .0062999 5.85 723.71 34.47 .27
** NMED source ID=40982EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=23-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40982E2 POINT 647554.412 3544865.52 0
SO SRCPARAM 40982E2 .0037799 3.6 853.15 19.79 .17
**********END OF 40982: Muskie 23 Wellpad 6
INFO**********************************
************************************************************
** 21.67km away. Facility ID=38071 Name=Rocco Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1321 NAIC=21113    Permit=unknown
** lat,long,datum=32.313694, -103.719139, WGS84
```

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** Total Particulate Matter (2.5 microns or less) emissions=4.62tons/year
*****************Facility sources: ******************************
** NMED source ID=38071EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516J Engine Construction date=18-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8456hr/yr, 24hr/day
SO LOCATION 38071E1 POINT 620574.783 3575927.754 0
SO SRCPARAM 38071E1 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38071EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516J Engine Construction date=18-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7764hr/yr, 24hr/day
SO LOCATION 38071E2 POINT 620582.319 3575934.775 0
SO SRCPARAM 38071E2 .0125998 7.32 812.04 38.4 .38
** NMED source ID=38071EQPT6 Facility's ID=ENG-3
** Description=Caterpillar G3516J Engine Construction date=18-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7919hr/yr, 24hr/day
SO LOCATION 38071E6 POINT 620575.533 3575938.327 0
SO SRCPARAM 38071E6 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38071EQPT7 Facility's ID=ENG-4
** Description=Caterpillar G3516J Engine Construction date=18-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8400hr/yr, 24hr/day
SO LOCATION 38071E7 POINT 620567.936 3575936.235 0
SO SRCPARAM 38071E7 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38071EQPT8 Facility's ID=ENG-5
** Description=Caterpillar G3516J Engine Construction date=18-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8447hr/yr, 24hr/day
SO LOCATION 38071E8 POINT 620563.695 3575929.335 0
SO SRCPARAM 38071E8 .0125998 7.32 812.04 38.04 .38
** NMED source ID=38071EQPT14 Facility's ID=GEN-1
** Description=276-hp Caterpillar G3406 Construction date=18-OCT-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38071E14 POINT 620565.347 3575921.181 0
SO SRCPARAM 38071E14 .0050399 5.64 814.82 27.46 .15
** NMED source ID=38071EQPT15 Facility's ID=ENG-6
** Description=Caterpillar G3516TALE+ Engine Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38071E15 POINT 620572.296 3575916.219 0
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SO SRCPARAM 38071E15 .0163797 7.92 821.48 15.67 .61
** NMED source ID=38071EQPT16 Facility's ID=ENG-7
** Description=Caterpillar G3516TALE+ Engine Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38071E16 POINT 620580.979 3575917.361 0
SO SRCPARAM 38071E16 .0163797 7.92 821.48 15.67 .61
** NMED source ID=38071EQPT17 Facility's ID=ENG-8
** Description=Caterpillar G3516TALE+ Engine Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38071E17 POINT 620586.689 3575924.289 0
SO SRCPARAM 38071E17 .0163797 7.92 821.48 15.67 .61
** NMED source ID=38071EQPT18 Facility's ID=ENG-9
** Description=Caterpillar G3516TALE+ Engine Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38071E18 POINT 620586.124 3575933.47 0
SO SRCPARAM 38071E18 .0163797 7.92 821.48 15.67 .61
**********END OF 38071: Rocco Compressor Station
INFO************************************
************************************************************
** 21.67km away. Facility ID=33008 Name=Cotton Draw Unit 219 CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5302 NOI
** lat,long,datum=32.152661, -103.743528, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.32tons/year
*****************Facility sources: ******************************
** NMED source ID=33008AREA1 Facility's ID=22
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33008A1 VOLUME 618487.584 3558048.756 0
SO SRCPARAM 33008A1 .0277196 10 20 9.3
** NMED source ID=33008EQPT6 Facility's ID=7
** Description=Heater_EQ000170196 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33008E6 VOLUME 618495.12 3558055.777 0
SO SRCPARAM 33008E6 .00126 9.14 .47 .93
** NMED source ID=33008EQPT8 Facility's ID=24
** Description=Engine_EQ000183185 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
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SO LOCATION 33008E8 POINT 618488.334 3558059.329 0
SO SRCPARAM 33008E8 .0037799 3.6 853.15 19.79 .17
** NMED source ID=33008EQPT16 Facility's ID=8
** Description=Heater_EQ000170034 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33008E16 VOLUME 618480.737 3558057.237 0
SO SRCPARAM 33008E16 .00126 9.14 .47 .93
** NMED source ID=33008EQPT20 Facility's ID=23
** Description=Heater_EQ000169988 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33008E20 VOLUME 618476.496 3558050.337 0
SO SRCPARAM 33008E20 .0005796 9.14 .47 .93
**********END OF 33008: Cotton Draw Unit 219 CTB
INFO**********************************
************************************************************
** 21.7km away. Facility ID=40983 Name=Muskie 23 Wellpad 7
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9928 NOI
** lat,long,datum=32.031256, -103.433618, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.37tons/year
*****************Facility sources: ****************************
** NMED source ID=40983EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=23-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40983E1 POINT 647911.061 3544972.774 0
SO SRCPARAM 40983E1 .0062999 5.85 723.71 34.44 .27
** NMED source ID=40983EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=23-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40983E2 POINT 647918.597 3544979.795 0
SO SRCPARAM 40983E2 .0037799 3.6 853.15 19.79 .17
**********END OF 40983: Muskie 23 Wellpad 7
INFO**********************************
************************************************************
** 21.7km away. Facility ID=39172 Name=NGL - Red Road Salt Water Disposal
** Company ID=13605 Name=NGL Water Solutions Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.269761, -103.743503, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=4.65tons/year
*****************Facility sources: ****************************
** NMED source ID=39172AREA1 Facility's ID=ROAD-1
** Description=Road Dust Construction date=03-OCT-19
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** SCC=31000199
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5136hr/yr, 24hr/day
SO LOCATION 39172A1 VOLUME 618338.169 3571030.227 0
SO SRCPARAM 39172A1 .0705589 10 60 9.3
** NMED source ID=39172EQPT1 Facility's ID=ENG-1
** Description=Generator Engine CAT G3516 2059-hp Construction date=03-OCT-19
** SCC=20200401
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5136hr/yr, 24hr/day
SO LOCATION 39172E1 POINT 618345.705 3571037.248 0
SO SRCPARAM 39172E1 .0768588 4.51 804.21 79.58 .3
**********END OF 39172: NGL - Red Road Salt Water Disposal
INFO**********************************
************************************************************
** 21.79km away. Facility ID=37713 Name=Medusa LGL
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0183, -103.5671, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.55tons/year
*****************Facility sources: ****************************
** NMED source ID=37713EQPT13 Facility's ID=HTR-1
** Description=0.5 MMBTU/hr Heated Separator Construction date=31-AUG-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37713E13 VOLUME 635324.399 3543361.462 0
SO SRCPARAM 37713E13 .0005796 4.57 .47 .93
** NMED source ID=37713EQPT17 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=12-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37713E17 POINT 635331.935 3543368.483 0
SO SRCPARAM 37713E17 .0176397 7.01 719.26 27.07 .52
** NMED source ID=37713EQPT18 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=12-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8748hr/yr, 24hr/day
SO LOCATION 37713E18 POINT 635325.149 3543372.035 0
SO SRCPARAM 37713E18 .0176397 7.01 719.26 27.07 .52
** NMED source ID=37713EQPT20 Facility's ID=RBL-1
** Description=Dehy Reboiler Construction date=12-OCT-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37713E20 POINT 635317.552 3543369.943 0
SO SRCPARAM 37713E20 .00126 3.96 588.71 .29 .91
** NMED source ID=37713EQPT24 Facility's ID=ENG-2
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** Description=Compressor Engine Construction date=29-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37713E24 POINT 635313.311 3543363.043 0
SO SRCPARAM 37713E24 .0176397 7.01 712.04 27.31 .52
** NMED source ID=37713EQPT25 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=29-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37713E25 POINT 635314.963 3543354.889 0
SO SRCPARAM 37713E25 .0176397 7.01 712.04 27.31 .52
**********END OF 37713: Medusa LGL INFO**********************************
************************************************************
** 21.79km away. Facility ID=38680 Name=COG - Hennin Federal 3B CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8051 NOI
** lat,long,datum=32.0779, -103.353847, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.14tons/year
*****************Facility sources: ****************************
** NMED source ID=38680AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=19-OCT-18
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38680A1 VOLUME 655365.734 3550255.939 0
SO SRCPARAM 38680A1 .0005796 1 .47 .93
** NMED source ID=38680EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38680E4 VOLUME 655373.27 3550262.96 0
SO SRCPARAM 38680E4 .00126 4.57 .47 .93
** NMED source ID=38680EQPT7 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=19-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38680E7 VOLUME 655366.484 3550266.512 0
SO SRCPARAM 38680E7 .00126 4.57 .47 .93
** NMED source ID=38680EQPT8 Facility's ID=HT-03
** Description=Heater Treater Burners Construction date=19-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38680E8 VOLUME 655358.887 3550264.42 0
SO SRCPARAM 38680E8 .00126 4.57 .47 .93
**********END OF 38680: COG - Hennin Federal 3B CTB
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INFO**********************************
************************************************************
** 21.8km away. Facility ID=37266 Name=Rattlesnake 28 West CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0194, -103.5743, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.64tons/year
*****************Facility sources: ****************************
** NMED source ID=37266EQPT2 Facility's ID=HTR-1
** Description=0.75 MMBtu/hr heater treater Construction date=12-MAR-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37266E2 VOLUME 634642.753 3543474.409 0
SO SRCPARAM 37266E2 .00126 4.88 .47 .93
** NMED source ID=37266EQPT19 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=08-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37266E19 POINT 634650.289 3543481.43 0
SO SRCPARAM 37266E19 .0075599 3.96 803.71 59.13 .13
** NMED source ID=37266EQPT20 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=08-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37266E20 POINT 634643.503 3543484.982 0
SO SRCPARAM 37266E20 .0088199 3.96 1003.71 82.6 .13
** NMED source ID=37266EQPT21 Facility's ID=HTR-2
** Description=Heater Treater Construction date=08-DEC-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37266E21 POINT 634635.906 3543482.89 0
SO SRCPARAM 37266E21 .00126 7.32 588.71 .19 1.83
** NMED source ID=37266EQPT22 Facility's ID=HTR-3
** Description=Heater Treater Construction date=08-DEC-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37266E22 VOLUME 634631.665 3543475.99 0
SO SRCPARAM 37266E22 .00126 4.88 .47 .93
**********END OF 37266: Rattlesnake 28 West CTB
INFO**********************************
************************************************************
** 21.83km away. Facility ID=31865 Name=Rattlesnake 13-12 Fed No 1H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4888 NOI
** lat,long,datum=32.036997, -103.416189, NAD83
```

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** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=31865AREA1 Facility's ID=20
** Description=Unpaved Haul Roads Construction date=25-AUG-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31865A1 VOLUME 649547.704 3545633.236 0
SO SRCPARAM 31865A1 .0277196 10 20 9.3
** NMED source ID=31865EQPT8 Facility's ID=8
** Description=Heater_EQ000065377 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5640hr/yr, 24hr/day
SO LOCATION 31865E8 VOLUME 649555.24 3545640.257 0
SO SRCPARAM 31865E8 .0005796 9.14 .47 .93
**********END OF 31865: Rattlesnake 13-12 Fed No 1H
INFO**********************************
************************************************************
** 21.84km away. Facility ID=7689 Name=Maestro Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.10442, -103.32895, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.99tons/year
*****************Facility sources: ******************************
** NMED source ID=7689EQPT14 Facility's ID=RBL-1
** Description=Reboiler Construction date=23-OCT-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E14 POINT 657670.262 3553232.212 0
SO SRCPARAM 7689E14 .00126 3.05 422.04 5 .3
** NMED source ID=7689EQPT15 Facility's ID=RBL-2
** Description=Reboiler Construction date=23-OCT-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E15 POINT 657677.798 3553239.233 0
SO SRCPARAM 7689E15 .00126 3.05 422.04 5 .3
** NMED source ID=7689EQPT19 Facility's ID=ENG-1
** Description=Caterpillar G3516J Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E19 POINT 657671.012 3553242.785 0
SO SRCPARAM 7689E19 .0138598 7.92 707.04 28.93 .41
** NMED source ID=7689EQPT20 Facility's ID=ENG-2
** Description=Caterpillar G3516J Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E20 POINT 657663.415 3553240.693 0
SO SRCPARAM 7689E20 .0138598 7.92 707.04 28.93 .41
** NMED source ID=7689EQPT21 Facility's ID=ENG-3
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E21 POINT 657659.174 3553233.793 0
SO SRCPARAM 7689E21 .0176397 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT22 Facility's ID=ENG-4
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E22 POINT 657660.826 3553225.639 0
SO SRCPARAM 7689E22 .0176397 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT23 Facility's ID=ENG-5
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E23 POINT 657667.775 3553220.677 0
SO SRCPARAM 7689E23 .0176397 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT24 Facility's ID=ENG-6
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E24 POINT 657676.458 3553221.819 0
SO SRCPARAM 7689E24 .0176397 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT25 Facility's ID=ENG-7
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E25 POINT 657682.168 3553228.747 0
SO SRCPARAM 7689E25 .0176397 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT26 Facility's ID=ENG-8
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E26 POINT 657681.603 3553237.928 0
SO SRCPARAM 7689E26 .0176397 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT27 Facility's ID=GEN-1
** Description=Natural Gas Fired Generator Construction date=23-OCT-23
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 7689E27 POINT 657674.768 3553244.406 0
SO SRCPARAM 7689E27 .0050399 1.8 572.59 15 .08
** NMED source ID=7689RPNT3 Facility's ID=SSM
** Description=SSM Construction date=23-OCT-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689R3 VOLUME 657665.132 3553244.483 0
SO SRCPARAM 7689R3 .0005796 1 .47 .93
**********END OF 7689: Maestro Compressor Station
INFO**********************************
************************************************************
** 21.85km away. Facility ID=39173 Name=Airstream 24 State Com CTB 2
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.386306, -103.420503, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.25tons/year
*****************Facility sources: ******************************
** NMED source ID=39173EQPT16 Facility's ID=ENG-2
** Description=Caterpillar G3508BLE Construction date=01-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6456hr/yr, 24hr/day
SO LOCATION 39173E16 POINT 648571.105 3584353.234 0
SO SRCPARAM 39173E16 .0075599 4.57 772.59 64.19 .21
** NMED source ID=39173EQPT19 Facility's ID=HT-1
** Description=1 MMBtu/h Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8520hr/yr, 24hr/day
SO LOCATION 39173E19 POINT 648578.641 3584360.255 0
SO SRCPARAM 39173E19 .00126 3.96 588.71 2.26 .3
** NMED source ID=39173EQPT20 Facility's ID=ENG-1
** Description=Caterpillar G3516TALE Construction date=23-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39173E20 POINT 648571.855 3584363.807 0
SO SRCPARAM 39173E20 .0125998 7.62 771.48 28.62 .41
** NMED source ID=39173EQPT21 Facility's ID=ENG-3
** Description=Caterpillar CG 137-8 Engine, 400 hp Construction date=23-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39173E21 POINT 648564.258 3584361.715 0
SO SRCPARAM 39173E21 .0088199 3.66 802.59 15.1 .25
** NMED source ID=39173EQPT22 Facility's ID=ENG-4
** Description=Caterpillar 3306 B Engine, 145 hp Construction date=23-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39173E22 POINT 648560.017 3584354.815 0
SO SRCPARAM 39173E22 .00252 3.35 909.26 18.32 .15
** NMED source ID=39173EQPT23 Facility's ID=ENG-5
** Description=Caterpillar 3306 B Engine, 145 hp Construction date=23-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39173E23 POINT 648561.669 3584346.661 0
SO SRCPARAM 39173E23 .00252 3.35 909.26 18.32 .15
** NMED source ID=39173EQPT27 Facility's ID=HT-2
** Description=1 MMBtu/h Heater Treater Construction date=23-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39173E27 POINT 648568.618 3584341.699 0
SO SRCPARAM 39173E27 .00126 3.96 588.71 2.26 .3
**********END OF 39173: Airstream 24 State Com CTB 2
INFO**********************************
************************************************************
** 21.86km away. Facility ID=40184 Name=Almost Eddy 30 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0978, -103.7138, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=40184EQPT3 Facility's ID=HTR-1
** Description=Heater Treater Construction date=27-OCT-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40184E3 VOLUME 621363.804 3552000.149 0
SO SRCPARAM 40184E3 .00126 4.88 .47 .93
**********END OF 40184: Almost Eddy 30 Fed Com CTB
INFO**********************************
************************************************************
** 21.88km away. Facility ID=40806 Name=Stray Cat 5 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9790 NOI
** lat,long,datum=32.3402, -103.698576, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.39tons/year
*****************Facility sources: ******************************
** NMED source ID=40806EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=03-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40806E1 POINT 622474.941 3578889.546 0
SO SRCPARAM 40806E1 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40806EQPT3 Facility's ID=ENG 3
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** Description=ENG 3 Combustion Engine Construction date=07-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40806E3 POINT 622482.477 3578896.567 0
SO SRCPARAM 40806E3 .0075599 4.39 790.93 14.04 .26
**********END OF 40806: Stray Cat 5 Wellpad 2
INFO**********************************
************************************************************
** 21.99km away. Facility ID=38447 Name=Red Tank 27-28 CTB
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=7840 NOI
** lat,long,datum=32.364893, -103.669665, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.69tons/year
*****************Facility sources: ******************************
** NMED source ID=38447EQPT4 Facility's ID=HTR-1
** Description=NOI 3.0 MMBtu/h Heater Treater Construction date=13-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38447E4 POINT 625161.898 3581660.485 0
SO SRCPARAM 38447E4 .00252 5.49 533.15 1.27 .15
** NMED source ID=38447EQPT18 Facility's ID=HTR-2
** Description=NOI 3.0 MMBTU/h Heater Treater Construction date=26-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38447E18 VOLUME 625169.434 3581667.506 0
SO SRCPARAM 38447E18 .00252 5.49 .47 .93
** NMED source ID=38447EQPT19 Facility's ID=HTR-3
** Description=NOI 3.0 MMBTU/h Heater Treater Construction date=26-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38447E19 VOLUME 625162.648 3581671.058 0
SO SRCPARAM 38447E19 .00252 5.49 .47 .93
** NMED source ID=38447EQPT23 Facility's ID=CHS-1
** Description=NOI 12 MMBtu/h Heater Treater Construction date=07-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38447E23 POINT 625155.051 3581668.966 0
SO SRCPARAM 38447E23 .0113398 5.49 533.15 5.09 .15
**********END OF 38447: Red Tank 27-28 CTB INFO**********************************
************************************************************
** 22.01km away. Facility ID=37152 Name=EOG - Ophelia 27 East CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.015, -103.558611, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.03tons/year
```

**********Facility sources: **********
** NMED source ID=37152EQPT4 Facility's ID=HTR-1
** Description=Heater Treater (0.75 MMBtu/h) Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37152E4 VOLUME 636131.063 3543006.295 0
SO SRCPARAM 37152E4 .00126 4.88 .47 .93
**********END OF 37152: EOG - Ophelia 27 East CTB
INFO**********
**********
** 22.05km away. Facility ID=40057 Name=Franklin - LOE Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=9278 NSR
** lat,long,datum=32.11235, -103.3207, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.39tons/year
**********Facility sources: **********
** NMED source ID=40057EQPT11 Facility's ID=HT-01
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3576hr/yr, 24hr/day
SO LOCATION 40057E11 VOLUME 658435.08 3554123.474 0
SO SRCPARAM 40057E11 .00126 6.1 .47 .93
** NMED source ID=40057EQPT12 Facility's ID=HT-02
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3576hr/yr, 24hr/day
SO LOCATION 40057E12 VOLUME 658442.616 3554130.495 0
SO SRCPARAM 40057E12 .00126 6.1 .47 .93
** NMED source ID=40057EQPT13 Facility's ID=HT-03
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E13 VOLUME 658435.83 3554134.047 0
SO SRCPARAM 40057E13 .00126 6.1 .47 .93
** NMED source ID=40057EQPT14 Facility's ID=HT-04
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E14 VOLUME 658428.233 3554131.955 0
SO SRCPARAM 40057E14 .00126 6.1 .47 .93
** NMED source ID=40057EQPT15 Facility's ID=HT-05
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day

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SO LOCATION 40057E15 VOLUME 658423.992 3554125.055 0
SO SRCPARAM 40057E15 .00126 6.1 .47 .93
** NMED source ID=40057EQPT16 Facility's ID=HT-06
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E16 VOLUME 658425.644 3554116.901 0
SO SRCPARAM 40057E16 .00126 6.1 .47 .93
** NMED source ID=40057EQPT17 Facility's ID=HT-07
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E17 VOLUME 658432.593 3554111.939 0
SO SRCPARAM 40057E17 .00126 6.1 .47 .93
** NMED source ID=40057EQPT18 Facility's ID=HT-08
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E18 VOLUME 658441.276 3554113.081 0
SO SRCPARAM 40057E18 .00126 6.1 .47 .93
** NMED source ID=40057EQPT19 Facility's ID=HT-09
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E19 VOLUME 658446.986 3554120.009 0
SO SRCPARAM 40057E19 .00126 6.1 .47 .93
** NMED source ID=40057EQPT20 Facility's ID=HT-10
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E20 VOLUME 658446.421 3554129.19 0
SO SRCPARAM 40057E20 .00126 6.1 .47 .93
** NMED source ID=40057EQPT21 Facility's ID=HT-11
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E21 VOLUME 658439.586 3554135.668 0
SO SRCPARAM 40057E21 .00126 6.1 .47 .93
** NMED source ID=40057EQPT22 Facility's ID=HT-12
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E22 VOLUME 658429.95 3554135.745 0
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SO SRCPARAM 40057E22 .00126 6.1 .47 .93
** NMED source ID=40057EQPT23 Facility's ID=HT-13
** Description=750,000 Btu/hr Heater Construction date=11-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40057E23 VOLUME 658422.689 3554129.079 0
SO SRCPARAM 40057E23 .00126 6.1 .47 .93
**********END OF 40057: Franklin - LOE Central Tank Battery
INFO**********************************
************************************************************
** 22.08km away. Facility ID=35495 Name=Cotton Draw Unit 11 Bone Spring Central Tank
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6281 NOI
** lat,long,datum=32.149364, -103.746792, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=35495AREA1 Facility's ID=29
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35495A1 VOLUME 618184.016 3557679.674 0
SO SRCPARAM 35495A1 .0277196 10 20 9.3
** NMED source ID=35495EQPT4 Facility's ID=9
** Description=Heater_EQ000054624 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35495E4 VOLUME 618191.552 3557686.695 0
SO SRCPARAM 35495E4 .0005796 9.14 .47 .93
** NMED source ID=35495EQPT12 Facility's ID=10
** Description=Heater_EQ000054628 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35495E12 VOLUME 618184.766 3557690.247 0
SO SRCPARAM 35495E12 .0005796 9.14 .47 .93
**********END OF 35495: Cotton Draw Unit 11 Bone Spring Central Tank
INFO**********************************
************************************************************
** 22.08km away. Facility ID=31350 Name=Cotton Draw Unit 158 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4751 NOI
** lat,long,datum=32.1385, -103.74225, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=31350AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31350A1 VOLUME 618626.449 3556480.322 0
SO SRCPARAM 31350A1 .0277196 10 20 9.3
** NMED source ID=31350EQPT7 Facility's ID=HT-1
** Description=Heater_EQ000128970 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 31350E7 VOLUME 618633.985 3556487.343 0
SO SRCPARAM 31350E7 .0005796 9.14 .47 .93
** NMED source ID=31350EQPT8 Facility's ID=HT-2
** Description=Heater_EQ000128805 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 31350E8 VOLUME 618627.199 3556490.895 0
SO SRCPARAM 31350E8 .0005796 9.14 .47 .93
**********END OF 31350: Cotton Draw Unit 158 Battery
INFO**********************************
**************************************************************
** 22.09km away. Facility ID=38845 Name=Tomb Raider 12-1 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.309223, -103.727492, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.66tons/year
*****************Facility sources: ******************************
** NMED source ID=38845AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=08-MAR-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 38845A1 VOLUME 619794.296 3575422.732 0
SO SRCPARAM 38845A1 .0277196 10 20 9.3
** NMED source ID=38845EQPT2 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater Construction date=08-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38845E2 VOLUME 619801.832 3575429.753 0
SO SRCPARAM 38845E2 .00252 9.14 .47 .93
** NMED source ID=38845EQPT10 Facility's ID=LPC-1
** Description=188 hp Cummins G855 w/ NSCR Construction date=08-MAR-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38845E10 POINT 619795.046 3575433.305 0
SO SRCPARAM 38845E10 .0037799 2.99 919.82 51.42 .1
** NMED source ID=38845EQPT16 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater Treater Construction date=29-MAR-23
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38845E16 VOLUME 619787.449 3575431.213 0
SO SRCPARAM 38845E16 .00252 9.14 .47 .93
** NMED source ID=38845EQPT17 Facility's ID=LPC-3
** Description=188 hp Cummins G855 w/ NSCR Construction date=29-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38845E17 POINT 619783.208 3575424.313 0
SO SRCPARAM 38845E17 .0037799 2.99 919.82 51.42 .1
**********END OF 38845: Tomb Raider 12-1 CTB 1
INFO**********************************
************************************************************
** 22.1km away. Facility ID=34418 Name=Mean Green 27 Fed 1H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5922 NOI
** lat,long,datum=32.021942, -103.450797, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.21tons/year
*****************Facility sources: ****************************
** NMED source ID=34418AREA1 Facility's ID=25
** Description=Unpaved Haul Roads Construction date=18-AUG-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34418A1 VOLUME 646303.509 3543916.816 0
SO SRCPARAM 34418A1 .0277196 10 20 9.3
** NMED source ID=34418EQPT7 Facility's ID=9
** Description=Heater_EQ000146716 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 34418E7 VOLUME 646311.045 3543923.837 0
SO SRCPARAM 34418E7 .0005796 9.14 .47 .93
** NMED source ID=34418EQPT8 Facility's ID=10
** Description=Heater_EQ000146547 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 34418E8 VOLUME 646304.259 3543927.389 0
SO SRCPARAM 34418E8 .0005796 9.14 .47 .93
** NMED source ID=34418EQPT17 Facility's ID=27
** Description=Combustion Engine EQ000062033 Construction date=18-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34418E17 POINT 646296.662 3543925.297 0
SO SRCPARAM 34418E17 .0037799 3.6 853.15 19.79 .17
**********END OF 34418: Mean Green 27 Fed 1H
```

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INFO**********************************
************************************************************
** 22.14km away. Facility ID=37265 Name=Orrtanna 20 Federal No 701H and 702H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.02235, -103.599694, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.3tons/year
*****************Facility sources: ******************************
** NMED source ID=37265AREA1 Facility's ID=HAUL
** Description=haul roads Construction date=11-AUG-16
** SCC=30588801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37265A1 VOLUME 632240.099 3543770.071 0
SO SRCPARAM 37265A1 .2267964 10 20 9.3
**********END OF 37265: Orrtanna 20 Federal No 701H and 702H
INFO**********************************
************************************************************
** 22.15km away. Facility ID=8516 Name=Dagger Lake South TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.401148, -103.591571, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.71tons/year
*****************Facility sources: ******************************
** NMED source ID=8516EQPT2 Facility's ID=ENG-1
** Description=188-hp Cummins G855 engine Construction date=27-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E2 POINT 632456.907 3585773.871 0
SO SRCPARAM 8516E2 .0037799 6.1 919.82 11.43 .21
** NMED source ID=8516EQPT3 Facility's ID=ENG-2
** Description=188-hp Cummins G855 engine Construction date=27-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E3 POINT 632464.443 3585780.892 0
SO SRCPARAM 8516E3 .0037799 6.1 919.82 11.43 .21
** NMED source ID=8516EQPT4 Facility's ID=ENG-3
** Description=188-hp Cummins G855 engine Construction date=27-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E4 POINT 632457.657 3585784.444 0
SO SRCPARAM 8516E4 .0037799 6.1 919.82 11.43 .21
** NMED source ID=8516EQPT5 Facility's ID=ENG-4
** Description=188-hp Cummins G855 engine Construction date=27-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 8516E5 POINT 632450.06 3585782.352 0
SO SRCPARAM 8516E5 .0037799 6.1 919.82 11.43 .21
** NMED source ID=8516EQPT8 Facility's ID=HT-1
** Description=Heater Treater Construction date=27-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E8 VOLUME 632445.819 3585775.452 0
SO SRCPARAM 8516E8 .00126 6.1 .47 .93
** NMED source ID=8516EQPT9 Facility's ID=HT-2
** Description=Heater Treater Construction date=27-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E9 VOLUME 632447.471 3585767.298 0
SO SRCPARAM 8516E9 .00126 6.1 .47 .93
** NMED source ID=8516EQPT10 Facility's ID=HT-3
** Description=Heater Treater Construction date=27-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E10 VOLUME 632454.42 3585762.336 0
SO SRCPARAM 8516E10 .00126 6.1 .47 .93
** NMED source ID=8516EQPT11 Facility's ID=HT-4
** Description=Heater Treater Construction date=27-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E11 VOLUME 632463.103 3585763.478 0
SO SRCPARAM 8516E11 .00126 6.1 .47 .93
** NMED source ID=8516EQPT30 Facility's ID=REB-1
** Description=Dehy Reboiler Construction date=27-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516E30 POINT 632468.813 3585770.406 0
SO SRCPARAM 8516E30 .00126 6.1 644.26 2.09 .2
** NMED source ID=8516RPNT2 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=27-DEC-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8516R2 VOLUME 632468.248 3585779.587 0
SO SRCPARAM 8516R2 .0062999 10 10 9.3
**********END OF 8516: Dagger Lake South TB
INFO**********************************
************************************************************
** 22.16km away. Facility ID=39684 Name=Tomb Raider 12 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
```

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** lat,long,datum=32.311422, -103.726875, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.08tons/year
**********Facility sources: ****************************
** NMED source ID=39684EQPT1 Facility's ID=ENG 2
** Description=Engine 2_EQ000476103 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1944hr/yr, 24hr/day
SO LOCATION 39684E1 POINT 619849.489 3575667.202 0
SO SRCPARAM 39684E1 .0100798 5.58 812.59 35.45 .2
** NMED source ID=39684EQPT2 Facility's ID=ENG 1
** Description=Engine 1 EQ000476103 Construction date=01-JUN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39684E2 POINT 619857.025 3575674.223 0
SO SRCPARAM 39684E2 .0075599 4.39 790.93 14.04 .26
** NMED source ID=39684EQPT3 Facility's ID=ENG 3
** Description=Engine 3 Construction date=28-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39684E3 POINT 619850.239 3575677.775 0
SO SRCPARAM 39684E3 .0075599 4.39 790.93 14.04 .26
** NMED source ID=39684EQPT4 Facility's ID=ENG 4
** Description=Engine 4 Construction date=28-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39684E4 POINT 619842.642 3575675.683 0
SO SRCPARAM 39684E4 .0075599 4.39 790.93 14.04 .26
**********END OF 39684: Tomb Raider 12 Wellpad 1
INFO*************************************
************************************************************
** 22.18km away. Facility ID=38781 Name=Devon - Mean Green 23 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.025583, -103.436314, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.27tons/year
**********Facility sources: ****************************
** NMED source ID=38781EQPT8 Facility's ID=HT-1
** Description=Heater Treater 1, 3 MMBtu/hr Construction date=14-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38781E8 POINT 647665.559 3544340.169 0
SO SRCPARAM 38781E8 .0037799 9.14 708.71 2.82 .34
** NMED source ID=38781RPNT3 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=14-JAN-19
** SCC=31088811
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38781R3 VOLUME 647673.095 3544347.19 0
SO SRCPARAM 38781R3 .0277196 10 20 9.3
**********END OF 38781: Devon - Mean Green 23 CTB 2
INFO*********************************
************************************************************
** 22.26km away. Facility ID=307 Name=Cal-Mon Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=4922 NAIC=48621    Permit=unknown
** lat,long,datum=32.26374, -103.75183, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.96tons/year
*****************Facility sources: ******************************
** NMED source ID=307EQPT4 Facility's ID=002
** Description=Waukesha L7042GSI Construction date=22-AUG-05
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6513hr/yr, 24hr/day
SO LOCATION 307E4 POINT 617577.451 3570289.582 0
SO SRCPARAM 307E4 .0281858 7.01 841.48 34.75 .36
** NMED source ID=307EQPT18 Facility's ID=001B
** Description=Waukesha L7042GSI Construction date=16-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 307E18 POINT 617577.451 3570289.582 0
SO SRCPARAM 307E18 .0281858 6.1 841.48 34.75 .36
**********END OF 307: Cal-Mon Compressor Station
INFO*********************************
************************************************************
** 22.29km away. Facility ID=39783 Name=Caza - Sioux 25-36 State Fed Com 8H 9H 10H
11H 12H and 13H Production Facility
** Company ID=13636 Name=Caza Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.108575, -103.320298, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=39783AREA1 Facility's ID=HR-1
** Description=Haul Road -water Construction date=30-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783A1 VOLUME 658479.535 3553705.548 0
SO SRCPARAM 39783A1 .0075599 1 .47 .93
** NMED source ID=39783EQPT3 Facility's ID=HT-1
** Description=Heater Treater Construction date=30-DEC-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E3 VOLUME 658487.071 3553712.569 0
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SO SRCPARAM 39783E3 .00126 4.57 .47 .93
** NMED source ID=39783EQPT4 Facility's ID=HT-2
** Description=Heater Treater Construction date=30-DEC-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E4 VOLUME 658480.285 3553716.121 0
SO SRCPARAM 39783E4 .00126 4.57 .47 .93
** NMED source ID=39783EQPT5 Facility's ID=HT-3
** Description=Heater Treater Construction date=30-DEC-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E5 VOLUME 658472.688 3553714.029 0
SO SRCPARAM 39783E5 .00126 4.57 .47 .93
** NMED source ID=39783EQPT6 Facility's ID=HT-4
** Description=Heater Treater Construction date=30-DEC-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E6 VOLUME 658468.447 3553707.129 0
SO SRCPARAM 39783E6 .00126 4.57 .47 .93
**********END OF 39783: Caza - Sioux 25-36 State Fed Com 8H 9H 10H 11H 12H and 13H
Production Facility INFO************************************
************************************************************
** 22.32km away. Facility ID=39500 Name=Uncle Don 35 State Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=8784 NOI
** lat,long,datum=32.341966, -103.344776, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.3tons/year
*****************Facility sources: ******************************
** NMED source ID=39500AREA1 Facility's ID=HR
** Description=Unpaved Haul Roads Construction date=18-APR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39500A1 VOLUME 655771.035 3579545.054 0
SO SRCPARAM 39500A1 .0002898 1 .47 .93
** NMED source ID=39500EQPT9 Facility's ID=GEN-2
** Description=Generator Perkins  216 HP Construction date=16-JUN-21
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39500E9 POINT 655771.785 3579555.627 0
SO SRCPARAM 39500E9 .065519 6.1 857.59 14.31 .21
**********END OF 39500: Uncle Don 35 State Facility
INFO************************************
************************************************************
** 22.34km away. Facility ID=38674 Name=Talco 9 26 35  Federal 3H Battery
** Company ID=11135 Name=COG Operating LLC
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** SIC=1311 NAIC=21112    Permit=8046 NOI
** lat,long,datum=32.058686, -103.3689, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=38674AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=29-NOV-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38674A1 VOLUME 653977.051 3548104.223 0
SO SRCPARAM 38674A1 .00126 1 .47 .93
** NMED source ID=38674EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38674E4 VOLUME 653984.587 3548111.244 0
SO SRCPARAM 38674E4 .00126 4.57 .47 .93
**********END OF 38674: Talco 9 26 35  Federal 3H Battery
INFO*********************************
************************************************************
** 22.37km away. Facility ID=31258 Name=Cotton Draw Unit 13 Fed 1H CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4730 NOI
** lat,long,datum=32.123954, -103.738091, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=31258AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=04-APR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31258A1 VOLUME 619037.63 3554872.393 0
SO SRCPARAM 31258A1 .0277196 10 20 9.3
** NMED source ID=31258EQPT3 Facility's ID=HT-1
** Description=HT-1 EQ000062102 Construction date=04-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31258E3 VOLUME 619045.166 3554879.414 0
SO SRCPARAM 31258E3 .0005796 9.14 .47 .93
** NMED source ID=31258EQPT4 Facility's ID=HT-2
** Description=HT-2 EQ000062104 Construction date=04-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31258E4 VOLUME 619038.38 3554882.966 0
SO SRCPARAM 31258E4 .0005796 9.14 .47 .93
**********END OF 31258: Cotton Draw Unit 13 Fed 1H CTB
INFO*********************************
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** 22.4km away. Facility ID=40118 Name=El Campeon CTB 17N
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.044334, -103.38996, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.04tons/year
*****************Facility sources: ******************************
** NMED source ID=40118AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=30-NOV-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118A1 VOLUME 652012.473 3546483.264 0
SO SRCPARAM 40118A1 .0138598 10 10 9.3
** NMED source ID=40118EQPT5 Facility's ID=HT-1
** Description=Heater Treater 0.75 MMBtu/h Construction date=04-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E5 VOLUME 652020.009 3546490.285 0
SO SRCPARAM 40118E5 .00126 4.57 .47 .93
** NMED source ID=40118EQPT6 Facility's ID=HT-4
** Description=Heater Treater 1 MMBtu/h Dual Burner Construction date=04-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E6 VOLUME 652013.223 3546493.837 0
SO SRCPARAM 40118E6 .00252 4.57 .47 .93
** NMED source ID=40118EQPT22 Facility's ID=HT-2
** Description=Heater Treater 0.75 MMBtu/h Construction date=04-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E22 VOLUME 652005.626 3546491.745 0
SO SRCPARAM 40118E22 .00126 4.57 .47 .93
** NMED source ID=40118EQPT23 Facility's ID=HT-3
** Description=Heater Treater 0.75 MMBtu/h Construction date=04-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E23 VOLUME 652001.385 3546484.845 0
SO SRCPARAM 40118E23 .00126 4.57 .47 .93
** NMED source ID=40118EQPT30 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=27-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E30 POINT 652003.037 3546476.691 0
SO SRCPARAM 40118E30 .0075599 4.57 1003.71 28.06 .21
** NMED source ID=40118EQPT31 Facility's ID=ENG-5
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** Description=Compressor Engine Construction date=27-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E31 POINT 652009.986 3546471.729 0
SO SRCPARAM 40118E31 .0075599 4.57 1003.71 28.06 .21
** NMED source ID=40118EQPT32 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=27-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E32 POINT 652018.669 3546472.871 0
SO SRCPARAM 40118E32 .0125998 4.57 805.37 74.49 .27
** NMED source ID=40118EQPT35 Facility's ID=HT-5
** Description=Heater Treater 1 MMBtu/h Dual Burner Construction date=27-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E35 VOLUME 652024.379 3546479.799 0
SO SRCPARAM 40118E35 .00252 4.57 .47 .93
** NMED source ID=40118EQPT36 Facility's ID=HT-6
** Description=Heater Treater 1 MMBtu/h Dual Burner Construction date=27-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E36 VOLUME 652023.814 3546488.98 0
SO SRCPARAM 40118E36 .00252 4.57 .47 .93
** NMED source ID=40118EQPT37 Facility's ID=HT-7
** Description=Heater Treater 1 MMBtu/h Dual Burner Construction date=27-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E37 VOLUME 652016.979 3546495.458 0
SO SRCPARAM 40118E37 .00252 4.57 .47 .93
** NMED source ID=40118EQPT38 Facility's ID=HT-8
** Description=Heater Treater 0.75 MMBtu/h Construction date=27-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E38 VOLUME 652007.343 3546495.535 0
SO SRCPARAM 40118E38 .00126 4.57 .47 .93
** NMED source ID=40118EQPT48 Facility's ID=ENG-1A
** Description=Compressor Engine Construction date=30-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E48 POINT 652000.082 3546488.869 0
SO SRCPARAM 40118E48 .0037799 4.57 846.48 25.1 .15
** NMED source ID=40118EQPT49 Facility's ID=ENG-2A
** Description=Compressor Engine Construction date=30-NOV-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E49 POINT 651999.302 3546478.823 0
SO SRCPARAM 40118E49 .0037799 4.57 846.48 25.1 .15
** NMED source ID=40118EQPT50 Facility's ID=ENG-3A
** Description=Compressor Engine Construction date=30-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E50 POINT 652005.72 3546470.772 0
SO SRCPARAM 40118E50 .0075599 4.57 1003.71 28.06 .21
** NMED source ID=40118EQPT51 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=30-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E51 POINT 652016.122 3546469.231 0
SO SRCPARAM 40118E51 .0125998 4.57 740.37 65.47 .27
** NMED source ID=40118EQPT54 Facility's ID=HT-9
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E54 VOLUME 652024.962 3546475.323 0
SO SRCPARAM 40118E54 .00126 4.57 .47 .93
** NMED source ID=40118EQPT55 Facility's ID=HT-10
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E55 VOLUME 652027.319 3546486.021 0
SO SRCPARAM 40118E55 .00126 4.57 .47 .93
** NMED source ID=40118EQPT56 Facility's ID=HT-11
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E56 VOLUME 652021.635 3546495.642 0
SO SRCPARAM 40118E56 .00126 4.57 .47 .93
** NMED source ID=40118EQPT57 Facility's ID=HT-12
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E57 VOLUME 652010.705 3546498.864 0
SO SRCPARAM 40118E57 .00126 4.57 .47 .93
** NMED source ID=40118EQPT58 Facility's ID=HT-13
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E58 VOLUME 652000.318 3546493.669 0
SO SRCPARAM 40118E58 .00126 4.57 .47 .93
** NMED source ID=40118EQPT59 Facility's ID=HT-14
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E59 VOLUME 651996.187 3546482.579 0
SO SRCPARAM 40118E59 .00126 4.57 .47 .93
** NMED source ID=40118EQPT60 Facility's ID=HT-15
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E60 VOLUME 652000.813 3546471.448 0
SO SRCPARAM 40118E60 .00126 4.57 .47 .93
** NMED source ID=40118EQPT61 Facility's ID=HT-16
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E61 VOLUME 652011.987 3546466.371 0
SO SRCPARAM 40118E61 .00126 4.57 .47 .93
** NMED source ID=40118EQPT62 Facility's ID=HT-17
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E62 VOLUME 652023.83 3546470.347 0
SO SRCPARAM 40118E62 .00126 4.57 .47 .93
** NMED source ID=40118EQPT63 Facility's ID=HT-18
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E63 VOLUME 652029.886 3546481.525 0
SO SRCPARAM 40118E63 .00126 4.57 .47 .93
** NMED source ID=40118EQPT64 Facility's ID=HT-19
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E64 VOLUME 652026.639 3546494.043 0
SO SRCPARAM 40118E64 .00126 4.57 .47 .93
** NMED source ID=40118EQPT65 Facility's ID=HT-20
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E65 VOLUME 652015.541 3546501.102 0
SO SRCPARAM 40118E65 .00126 4.57 .47 .93
** NMED source ID=40118EQPT66 Facility's ID=HT-21
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E66 VOLUME 652002.395 3546498.658 0
SO SRCPARAM 40118E66 .00126 4.57 .47 .93
** NMED source ID=40118EQPT67 Facility's ID=HT-22
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E67 VOLUME 651994.314 3546487.73 0
SO SRCPARAM 40118E67 .00126 4.57 .47 .93
** NMED source ID=40118EQPT68 Facility's ID=HT-23
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E68 VOLUME 651995.88 3546474.008 0
SO SRCPARAM 40118E68 .00126 4.57 .47 .93
** NMED source ID=40118EQPT69 Facility's ID=HT-24
** Description=Heater Treater 0.75 MMBtu/h Construction date=30-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E69 VOLUME 652006.55 3546464.895 0
SO SRCPARAM 40118E69 .00126 4.57 .47 .93
** NMED source ID=40118EQPT74 Facility's ID=ENG-7A
** Description=Compressor Engine Construction date=30-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E74 POINT 652020.787 3546465.515 0
SO SRCPARAM 40118E74 .0037799 4.57 846.48 25.1 .15
**********END OF 40118: El Campeon CTB 17N INFO************************************
************************************************************
** 22.42km away. Facility ID=40175 Name=Sand Dunes 10 CS
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.229764, -103.760867, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=4.05tons/year
*****************Facility sources: ****************************
** NMED source ID=40175EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine CAT G3608A4 2500-hp Construction date=12-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E1 POINT 616753.876 3566577.217 0
SO SRCPARAM 40175E1 .0214197 6.1 718.71 26.21 .61
** NMED source ID=40175EQPT4 Facility's ID=REB-1
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=12-OCT-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E4 POINT 616761.412 3566584.238 0
SO SRCPARAM 40175E4 .00126 5.79 533.15 .07 .46
** NMED source ID=40175EQPT8 Facility's ID=ENG-2
** Description=Compressor Engine CAT G3608A4 2500-hp Construction date=10-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E8 POINT 616754.626 3566587.79 0
SO SRCPARAM 40175E8 .0214197 6.1 718.71 26.21 .61
** NMED source ID=40175EQPT9 Facility's ID=ENG-3
** Description=Compressor Engine CAT G3608A4 2500-hp Construction date=10-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E9 POINT 616747.029 3566585.698 0
SO SRCPARAM 40175E9 .0214197 6.1 718.71 26.21 .61
** NMED source ID=40175EQPT10 Facility's ID=ENG-4
** Description=Compressor Engine CAT G3608A4 2500-hp Construction date=10-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E10 POINT 616742.788 3566578.798 0
SO SRCPARAM 40175E10 .0214197 6.1 718.71 26.21 .61
** NMED source ID=40175EQPT11 Facility's ID=REB-2
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=10-JUN-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E11 POINT 616744.44 3566570.644 0
SO SRCPARAM 40175E11 .00126 5.79 533.15 .07 .46
** NMED source ID=40175EQPT12 Facility's ID=REB-3
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=10-JUN-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E12 POINT 616751.389 3566565.682 0
SO SRCPARAM 40175E12 .00126 5.79 533.15 .07 .46
** NMED source ID=40175EQPT13 Facility's ID=REB-4
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=10-JUN-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40175E13 POINT 616760.072 3566566.824 0
SO SRCPARAM 40175E13 .00126 5.79 533.15 .07 .46
** NMED source ID=40175EQPT14 Facility's ID=REB-5
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=10-JUN-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E14 POINT 616765.782 3566573.752 0
SO SRCPARAM 40175E14 .00126 5.79 533.15 .07 .46
** NMED source ID=40175EQPT15 Facility's ID=REB-6
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=10-JUN-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E15 POINT 616765.217 3566582.933 0
SO SRCPARAM 40175E15 .00126 5.79 533.15 .07 .46
** NMED source ID=40175EQPT26 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=25-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E26 POINT 616758.382 3566589.411 0
SO SRCPARAM 40175E26 .0214197 6.1 718.71 26.21 .61
**********END OF 40175: Sand Dunes 10 CS INFO**********************************
************************************************************
** 22.44km away. Facility ID=30897 Name=Cotton Draw Unit 135
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4606 NOI
** lat,long,datum=32.152761, -103.752058, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=30897AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8640hr/yr, 24hr/day
SO LOCATION 30897A1 VOLUME 617683.005 3558050.484 0
SO SRCPARAM 30897A1 .0277196 10 20 9.3
** NMED source ID=30897EQPT7 Facility's ID=HT-1
** Description=Heater_EQ000117603 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 30897E7 VOLUME 617690.541 3558057.505 0
SO SRCPARAM 30897E7 .0005796 9.14 .47 .93
**********END OF 30897: Cotton Draw Unit 135
INFO**********************************
************************************************************
** 22.52km away. Facility ID=36802 Name=Salado Draw 23 Compressor Station & Tank
Battery
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** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21113    Permit=6832 NSR
** lat,long,datum=32.036306, -103.645306, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=3.12tons/year
*****************Facility sources: ****************************
** NMED source ID=36802EQPT5 Facility's ID=HTR-1
** Description=Heater/Treater Construction date=30-MAR-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E5 VOLUME 627912.894 3545262.259 0
SO SRCPARAM 36802E5 .0037799 6.1 .47 .93
** NMED source ID=36802EQPT6 Facility's ID=HTR-2
** Description=Heater/Treater Construction date=30-MAR-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E6 VOLUME 627920.43 3545269.28 0
SO SRCPARAM 36802E6 .0037799 6.1 .47 .93
** NMED source ID=36802EQPT7 Facility's ID=HTR-3
** Description=Heater/Treater Construction date=30-MAR-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E7 VOLUME 627913.644 3545272.832 0
SO SRCPARAM 36802E7 .0037799 6.1 .47 .93
** NMED source ID=36802EQPT8 Facility's ID=HTR-4
** Description=Heater/Treater Construction date=30-MAR-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E8 VOLUME 627906.047 3545270.74 0
SO SRCPARAM 36802E8 .0037799 6.1 .47 .93
** NMED source ID=36802EQPT16 Facility's ID=HTR-5
** Description=Heater/Treater Construction date=20-MAR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E16 VOLUME 627901.806 3545263.84 0
SO SRCPARAM 36802E16 .0037799 6.1 .47 .93
** NMED source ID=36802EQPT19 Facility's ID=HTR-6
** Description=Heater/Treater Construction date=20-MAR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E19 VOLUME 627903.458 3545255.686 0
SO SRCPARAM 36802E19 .0037799 6.1 .47 .93
** NMED source ID=36802EQPT20 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7390hr/yr, 20hr/day
SO LOCATION 36802E20 POINT 627910.407 3545250.724 0
SO SRCPARAM 36802E20 .0163797 8.84 717.04 20.97 .5
** NMED source ID=36802EQPT21 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E21 POINT 627919.09 3545251.866 0
SO SRCPARAM 36802E21 .0163797 8.84 717.04 20.97 .5
** NMED source ID=36802EQPT22 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E22 POINT 627924.8 3545258.794 0
SO SRCPARAM 36802E22 .0163797 8.84 717.04 20.97 .5
** NMED source ID=36802EQPT23 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36802E23 POINT 627924.235 3545267.975 0
SO SRCPARAM 36802E23 .0163797 8.84 717.04 20.97 .5
** NMED source ID=36802EQPT27 Facility's ID=REB-1
** Description=Reboiler Construction date=07-JUN-17
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E27 POINT 627917.4 3545274.453 0
SO SRCPARAM 36802E27 .00126 4.88 533.15 2.52 .3
**********END OF 36802: Salado Draw 23 Compressor Station & Tank Battery
INFO**********************************
************************************************************
** 22.53km away. Facility ID=40378 Name=Tatanka North Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.082106, -103.339109, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.7tons/year
*****************Facility sources: ****************************
** NMED source ID=40378EQPT4 Facility's ID=HT-01
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E4 VOLUME 656749.712 3550743.562 0
SO SRCPARAM 40378E4 .00126 6.1 .47 .93
** NMED source ID=40378EQPT5 Facility's ID=HT-02
** Description=Heater Treater Construction date=11-OCT-22
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** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E5 VOLUME 656757.248 3550750.583 0
SO SRCPARAM 40378E5 .00126 6.1 .47 .93
** NMED source ID=40378EQPT6 Facility's ID=HT-03
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E6 VOLUME 656750.462 3550754.135 0
SO SRCPARAM 40378E6 .00126 6.1 .47 .93
** NMED source ID=40378EQPT7 Facility's ID=HT-04
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E7 VOLUME 656742.865 3550752.043 0
SO SRCPARAM 40378E7 .00126 6.1 .47 .93
** NMED source ID=40378EQPT8 Facility's ID=HT-05
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E8 VOLUME 656738.624 3550745.143 0
SO SRCPARAM 40378E8 .00126 6.1 .47 .93
** NMED source ID=40378EQPT9 Facility's ID=HT-06
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E9 VOLUME 656740.276 3550736.989 0
SO SRCPARAM 40378E9 .00126 6.1 .47 .93
** NMED source ID=40378EQPT10 Facility's ID=HT-07
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E10 VOLUME 656747.225 3550732.027 0
SO SRCPARAM 40378E10 .00126 6.1 .47 .93
** NMED source ID=40378EQPT11 Facility's ID=HT-08
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E11 VOLUME 656755.908 3550733.169 0
SO SRCPARAM 40378E11 .00126 6.1 .47 .93
** NMED source ID=40378EQPT12 Facility's ID=HT-09
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E12 VOLUME 656761.618 3550740.097 0
SO SRCPARAM 40378E12 .00126 6.1 .47 .93
** NMED source ID=40378EQPT13 Facility's ID=HT-10
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E13 VOLUME 656761.053 3550749.278 0
SO SRCPARAM 40378E13 .00126 6.1 .47 .93
** NMED source ID=40378EQPT14 Facility's ID=HT-11
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E14 VOLUME 656754.218 3550755.756 0
SO SRCPARAM 40378E14 .00126 6.1 .47 .93
** NMED source ID=40378EQPT15 Facility's ID=HT-12
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E15 VOLUME 656744.582 3550755.833 0
SO SRCPARAM 40378E15 .00126 6.1 .47 .93
** NMED source ID=40378EQPT16 Facility's ID=HT-13
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E16 VOLUME 656737.321 3550749.167 0
SO SRCPARAM 40378E16 .00126 6.1 .47 .93
** NMED source ID=40378EQPT17 Facility's ID=HT-14
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E17 VOLUME 656736.541 3550739.121 0
SO SRCPARAM 40378E17 .00126 6.1 .47 .93
** NMED source ID=40378EQPT18 Facility's ID=HT-15
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E18 VOLUME 656742.959 3550731.07 0
SO SRCPARAM 40378E18 .00126 6.1 .47 .93
** NMED source ID=40378EQPT19 Facility's ID=HT-16
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E19 VOLUME 656753.361 3550729.529 0
SO SRCPARAM 40378E19 .0062999 6.1 .47 .93
** NMED source ID=40378EQPT20 Facility's ID=HT-17
** Description=Heater Treater Construction date=11-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40378E20 VOLUME 656762.201 3550735.621 0
SO SRCPARAM 40378E20 .0062999 6.1 .47 .93
**********END OF 40378: Tatanka North Central Tank Battery
INFO**********************************
************************************************************
** 22.57km away. Facility ID=40089 Name=El Campeon CTB 17S
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.040487, -103.393626, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.99tons/year
*****************Facility sources: ****************************
** NMED source ID=40089AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=08-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089A1 VOLUME 651672.652 3546051.62 0
SO SRCPARAM 40089A1 .0453593 10 40 9.3
** NMED source ID=40089EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3306TA Construction date=23-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E1 POINT 651680.188 3546058.641 0
SO SRCPARAM 40089E1 .0037799 4.57 853.15 25.05 .15
** NMED source ID=40089EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3306TA Construction date=23-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E2 POINT 651673.402 3546062.193 0
SO SRCPARAM 40089E2 .0037799 4.57 853.15 25.05 .15
** NMED source ID=40089EQPT3 Facility's ID=ENG-3
** Description=Caterpillar G3306TA Construction date=23-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E3 POINT 651665.805 3546060.101 0
SO SRCPARAM 40089E3 .0037799 4.57 853.15 25.05 .15
** NMED source ID=40089EQPT5 Facility's ID=ENG-5
** Description=Caterpillar G3306TA Construction date=23-JUL-21
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E5 POINT 651661.564 3546053.201 0
SO SRCPARAM 40089E5 .0037799 4.57 853.15 25.05 .15
** NMED source ID=40089EQPT6 Facility's ID=ENG-6
** Description=Caterpillar G3306TA Construction date=23-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E6 POINT 651663.216 3546045.047 0
SO SRCPARAM 40089E6 .0037799 4.57 853.15 25.05 .15
** NMED source ID=40089EQPT7 Facility's ID=ENG-7
** Description=Caterpillar G3306TA Construction date=23-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E7 POINT 651670.165 3546040.085 0
SO SRCPARAM 40089E7 .0037799 4.57 853.15 25.05 .15
** NMED source ID=40089EQPT8 Facility's ID=HT-1
** Description=0.75 MMBtu/h Heater Treater Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E8 VOLUME 651678.848 3546041.227 0
SO SRCPARAM 40089E8 .00126 4.57 .47 .93
** NMED source ID=40089EQPT9 Facility's ID=HT-2
** Description=0.75 MMBtu/h Heater Treater Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E9 VOLUME 651684.558 3546048.155 0
SO SRCPARAM 40089E9 .00126 4.57 .47 .93
** NMED source ID=40089EQPT10 Facility's ID=HT-3
** Description=0.75 MMBtu/h Heater Treater Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E10 VOLUME 651683.993 3546057.336 0
SO SRCPARAM 40089E10 .00126 4.57 .47 .93
** NMED source ID=40089EQPT11 Facility's ID=HT-4
** Description=0.75 MMBtu/h Heater Treater Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E11 VOLUME 651677.158 3546063.814 0
SO SRCPARAM 40089E11 .00126 4.57 .47 .93
** NMED source ID=40089EQPT12 Facility's ID=HT-5
** Description=0.75 MMBtu/h Heater Treater Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E12 VOLUME 651667.522 3546063.891 0
SO SRCPARAM 40089E12 .00126 4.57 .47 .93
** NMED source ID=40089EQPT13 Facility's ID=HT-6
** Description=0.75 MMBtu/h Heater Treater Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E13 VOLUME 651660.261 3546057.225 0
SO SRCPARAM 40089E13 .00126 4.57 .47 .93
** NMED source ID=40089EQPT14 Facility's ID=HT-7
** Description=0.75 MMBtu/h Heater Treater Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E14 VOLUME 651659.481 3546047.179 0
SO SRCPARAM 40089E14 .00126 4.57 .47 .93
** NMED source ID=40089EQPT41 Facility's ID=HT-8
** Description=0.75 MMBtu/h Heater Treater Construction date=15-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E41 VOLUME 651665.899 3546039.128 0
SO SRCPARAM 40089E41 .00126 4.57 .47 .93
** NMED source ID=40089EQPT42 Facility's ID=HT-9
** Description=0.75 MMBtu/h Heater Treater Construction date=15-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E42 VOLUME 651676.301 3546037.587 0
SO SRCPARAM 40089E42 .00126 4.57 .47 .93
** NMED source ID=40089EQPT47 Facility's ID=ENG-4A
** Description=Compressor Engine Construction date=08-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E47 POINT 651685.141 3546043.679 0
SO SRCPARAM 40089E47 .0075599 4.57 778.71 40.29 .15
** NMED source ID=40089EQPT48 Facility's ID=ENG-8A
** Description=Compressor Engine Construction date=08-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E48 POINT 651687.498 3546054.377 0
SO SRCPARAM 40089E48 .0075599 4.57 778.71 40.36 .15
** NMED source ID=40089EQPT50 Facility's ID=GEN-1
** Description=Electric Generator Construction date=08-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40089E50 POINT 651681.814 3546063.998 0
SO SRCPARAM 40089E50 .0088199 4.57 1005.37 49.04 .15
** NMED source ID=40089EQPT51 Facility's ID=GEN-2
** Description=Electric Generator Construction date=08-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E51 POINT 651670.884 3546067.22 0
SO SRCPARAM 40089E51 .0088199 4.57 1005.37 49.04 .15
** NMED source ID=40089EQPT52 Facility's ID=GEN-3
** Description=Electric Generator Construction date=08-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E52 POINT 651660.497 3546062.025 0
SO SRCPARAM 40089E52 .0088199 4.57 1005.37 49.04 .15
** NMED source ID=40089EQPT53 Facility's ID=GEN-4
** Description=Electric Generator Construction date=08-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40089E53 POINT 651656.366 3546050.935 0
SO SRCPARAM 40089E53 .0088199 4.57 1005.37 49.04 .15
**********END OF 40089: El Campeon CTB 17S INFO************************************
************************************************************
** 22.58km away. Facility ID=38375 Name=Calmon 35 Fed CTB No2
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=7788 NOI
** lat,long,datum=32.268667, -103.753639, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.2tons/year
*****************Facility sources: ******************************
** NMED source ID=38375EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000128
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38375E1 VOLUME 617384.893 3570897.813 0
SO SRCPARAM 38375E1 .00252 3.66 .47 .93
** NMED source ID=38375EQPT2 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000128
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38375E2 VOLUME 617392.429 3570904.834 0
SO SRCPARAM 38375E2 .00252 3.66 .47 .93
**********END OF 38375: Calmon 35 Fed CTB No2
INFO***********************************
************************************************************
** 22.58km away. Facility ID=6157 Name=Tomb Raider 12 Wellpad 4
** Company ID=1516 Name=Devon Energy Production Company LP
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** SIC=1311 NAIC=21112    Permit=10010 NOI
** lat,long,datum=32.312679, -103.731125, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.37tons/year
*****************Facility sources: ******************************
** NMED source ID=6157EQPT1 Facility's ID=ENG 1
** Description=Combustion Engine Construction date=28-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6157E1 POINT 619447.724 3575801.807 0
SO SRCPARAM 6157E1 .0075599 4.39 790.93 14.04 .26
** NMED source ID=6157EQPT2 Facility's ID=ENG 2
** Description=Combustion Engine Construction date=28-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6157E2 POINT 619455.26 3575808.828 0
SO SRCPARAM 6157E2 .0037799 3.6 853.15 19.96 .17
**********END OF 6157: Tomb Raider 12 Wellpad 4
INFO*************************************
************************************************************
** 22.61km away. Facility ID=40926 Name=Bora Bora 13 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.309025, -103.734012, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.46tons/year
*****************Facility sources: ******************************
** NMED source ID=40926AREA1 Facility's ID=ROAD-1
** Description=ROAD-1 Unpaved Haul Roads Construction date=13-MAR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40926A1 VOLUME 619180.718 3575393.512 0
SO SRCPARAM 40926A1 .0277196 10 20 9.3
** NMED source ID=40926EQPT2 Facility's ID=HT-1
** Description=HT-1 Heater Treater Construction date=13-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40926E2 VOLUME 619188.254 3575400.533 0
SO SRCPARAM 40926E2 .00252 9.14 .47 .93
** NMED source ID=40926EQPT3 Facility's ID=HT-2
** Description=HT-2 Heater Treater Construction date=13-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40926E3 VOLUME 619181.468 3575404.085 0
SO SRCPARAM 40926E3 .00252 9.14 .47 .93
**********END OF 40926: Bora Bora 13 CTB 2 INFO*************************************
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** 22.61km away. Facility ID=40908 Name=Boundary Raider 6 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9860 NOI
** lat,long,datum=32.339804, -103.709229, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.24tons/year
*****************Facility sources: ******************************
** NMED source ID=40908EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Compressor Engine Construction date=31-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40908E1 POINT 621472.86 3578833.511 0
SO SRCPARAM 40908E1 .0062999 5.85 772.59 21.02 .27
**********END OF 40908: Boundary Raider 6 Wellpad 3
INFO*************************************
************************************************************
** 22.64km away. Facility ID=31985 Name= Livestock Federal 2-9 Pad
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=4938 NOI
** lat,long,datum=32.40937, -103.57472, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=31985EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31985E1 POINT 634029.659 3586706.403 0
SO SRCPARAM 31985E1 .0005796 3.05 310.93 .23 .15
**********END OF 31985:  Livestock Federal 2-9 Pad
INFO*************************************
************************************************************
** 22.66km away. Facility ID=5906 Name=Bora Bora 13 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10003 NOI
** lat,long,datum=32.310983, -103.733303, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.41tons/year
*****************Facility sources: ******************************
** NMED source ID=5906EQPT1 Facility's ID=ENG-1
** Description=Combustion Engine Construction date=14-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5906E1 POINT 619244.902 3575611.364 0
SO SRCPARAM 5906E1 .0088199 3.51 1000.37 71.17 .13
** NMED source ID=5906EQPT2 Facility's ID=ENG-2
** Description=Combustion Engine Construction date=14-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 5906E2 POINT 619252.438 3575618.385 0
SO SRCPARAM 5906E2 .0037799 3.6 853.15 19.96 .17
**********END OF 5906: Bora Bora 13 Wellpad 2
INFO**********************************
************************************************************
** 22.67km away. Facility ID=39591 Name=Black Marlin A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.135789, -103.300103, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1tons/year
*****************Facility sources: ******************************
** NMED source ID=39591EQPT14 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=11-FEB-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591E14 POINT 660337.562 3556752.536 0
SO SRCPARAM 39591E14 .0113398 4.57 724.26 110.64 .2
** NMED source ID=39591EQPT15 Facility's ID=HT-2
** Description=Heater Treater 1, 1.0 MMBtu/hr Construction date=04-FEB-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591E15 POINT 660345.098 3556759.557 0
SO SRCPARAM 39591E15 .00252 4.57 510.93 .4 .3
** NMED source ID=39591EQPT16 Facility's ID=TRB-1
** Description=Elec Generating Turbine Construction date=11-FEB-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591E16 POINT 660338.312 3556763.109 0
SO SRCPARAM 39591E16 .0037799 4.57 537.04 11.49 .08
** NMED source ID=39591EQPT17 Facility's ID=TRB-2
** Description=Elec Generating Turbine Construction date=11-FEB-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591E17 POINT 660330.715 3556761.017 0
SO SRCPARAM 39591E17 .0037799 4.57 537.04 11.49 .08
** NMED source ID=39591EQPT18 Facility's ID=TRB-3
** Description=Elec Generating Turbine Construction date=11-FEB-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591E18 POINT 660326.474 3556754.117 0
SO SRCPARAM 39591E18 .0037799 4.57 537.04 11.49 .08
** NMED source ID=39591RPNT2 Facility's ID=HR-1
** Description=Unpaved Haul Road-1 Construction date=07-JUL-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591R2 VOLUME 660328.126 3556745.963 0
SO SRCPARAM 39591R2 .0138598 10 10 9.3
**********END OF 39591: Black Marlin A CTB INFO************************************
************************************************************
** 22.68km away. Facility ID=38146 Name=XTO - PLU Twin Wells East Tank Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=7563 NSR
** lat,long,datum=32.208611, -103.764722, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.36tons/year
*****************Facility sources: ******************************
** NMED source ID=38146AREA2 Facility's ID=ROAD
** Description=Haul Road Emissions Construction date=15-NOV-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38146A2 VOLUME 616417.584 3564228.064 0
SO SRCPARAM 38146A2 .0345235 1 .47 .93
** NMED source ID=38146EQPT8 Facility's ID=LPF1
** Description=Low Pressure Flare  Construction date=15-NOV-18
** SCC=31000216
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38146E8 POINT 616425.12 3564235.085 0
SO SRCPARAM 38146E8 .0327595 12.19 1273 20 9.535
**********END OF 38146: XTO - PLU Twin Wells East Tank Battery
INFO*********************************
************************************************************
** 22.7km away. Facility ID=41035 Name=FME Forge Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.07712, -103.3418, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.38tons/year
*****************Facility sources: ******************************
** NMED source ID=41035EQPT2 Facility's ID=HT-01
** Description=Heater #1 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E2 POINT 656504.212 3550186.884 0
SO SRCPARAM 41035E2 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT3 Facility's ID=HT-02
** Description=Heater #2 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E3 POINT 656511.748 3550193.905 0
SO SRCPARAM 41035E3 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT4 Facility's ID=HT-03
** Description=Heater #3 Construction date=23-MAY-23
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E4 POINT 656504.962 3550197.457 0
SO SRCPARAM 41035E4 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT5 Facility's ID=HT-04
** Description=Heater #4 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E5 POINT 656497.365 3550195.365 0
SO SRCPARAM 41035E5 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT6 Facility's ID=HT-05
** Description=Heater #5 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E6 POINT 656493.124 3550188.465 0
SO SRCPARAM 41035E6 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT7 Facility's ID=HT-06
** Description=Heater #6 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E7 POINT 656494.776 3550180.311 0
SO SRCPARAM 41035E7 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT8 Facility's ID=HT-07
** Description=Heater #7 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E8 POINT 656501.725 3550175.349 0
SO SRCPARAM 41035E8 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT9 Facility's ID=HT-08
** Description=Heater #8 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E9 POINT 656510.408 3550176.491 0
SO SRCPARAM 41035E9 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT10 Facility's ID=HT-09
** Description=Heater #9 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E10 POINT 656516.118 3550183.419 0
SO SRCPARAM 41035E10 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT11 Facility's ID=HT-10
** Description=Heater #10 Construction date=23-MAY-23
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E11 POINT 656515.553 3550192.6 0
SO SRCPARAM 41035E11 .00126 4.57 810.93 .3 .3
** NMED source ID=41035EQPT12 Facility's ID=HT-11
** Description=Heater #11 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E12 POINT 656508.718 3550199.078 0
SO SRCPARAM 41035E12 .00252 6.1 810.93 .3 .3
** NMED source ID=41035EQPT13 Facility's ID=HT-12
** Description=Heater #12 Construction date=23-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41035E13 POINT 656499.082 3550199.155 0
SO SRCPARAM 41035E13 .00252 6.1 810.93 .3 .3
**********END OF 41035: FME Forge Central Tank Battery
INFO**********************************
************************************************************
** 22.7km away. Facility ID=34629 Name=Mean Green 23 Fed 1H Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5970 NOI
** lat,long,datum=32.021667, -103.433222, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.78tons/year
*****************Facility sources: ******************************
** NMED source ID=34629AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 34629A1 VOLUME 647963.879 3543910.268 0
SO SRCPARAM 34629A1 1.0898827 10 90 9.3
** NMED source ID=34629EQPT5 Facility's ID=Heater_0762
** Description=Heater_EQ000160762 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 34629E5 VOLUME 647971.415 3543917.289 0
SO SRCPARAM 34629E5 .0005796 9.14 .47 .93
** NMED source ID=34629EQPT8 Facility's ID=Heater_0759
** Description=Heater_EQ000160759 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 34629E8 VOLUME 647964.629 3543920.841 0
SO SRCPARAM 34629E8 .0005796 9.14 .47 .93
**********END OF 34629: Mean Green 23 Fed 1H Battery
INFO**********************************
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**********************************************************
** 22.73km away. Facility ID=40341 Name=Red Hills West Unit 027H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.052591, -103.676682, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.89tons/year
*****************Facility sources: ******************************
** NMED source ID=40341EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=10-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E2 POINT 624927.948 3547030.817 0
SO SRCPARAM 40341E2 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40341EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=10-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E3 POINT 624935.484 3547037.838 0
SO SRCPARAM 40341E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40341EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=10-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E4 POINT 624928.698 3547041.39 0
SO SRCPARAM 40341E4 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40341EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=10-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E5 POINT 624921.101 3547039.298 0
SO SRCPARAM 40341E5 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40341EQPT10 Facility's ID=HT-1
** Description=Heater Treater Construction date=10-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E10 VOLUME 624916.86 3547032.398 0
SO SRCPARAM 40341E10 .00126 4.57 .47 .93
** NMED source ID=40341EQPT11 Facility's ID=HT-02
** Description=Heater Treater Construction date=10-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E11 VOLUME 624918.512 3547024.244 0
SO SRCPARAM 40341E11 .00126 4.57 .47 .93
** NMED source ID=40341EQPT12 Facility's ID=HT-03
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** Description=Heater Treater Construction date=10-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E12 VOLUME 624925.461 3547019.282 0
SO SRCPARAM 40341E12 .00126 4.57 .47 .93
** NMED source ID=40341EQPT36 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=29-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40341E36 POINT 624934.144 3547020.424 0
SO SRCPARAM 40341E36 .0050399 4.11 894.82 36.52 .13
**********END OF 40341: Red Hills West Unit 027H Battery
INFO**********************************
************************************************************
** 22.74km away. Facility ID=39848 Name=Devon - Boundary Raider 6 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.338269, -103.7124, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.45tons/year
*****************Facility sources: ******************************
** NMED source ID=39848AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=21-JAN-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39848A1 VOLUME 621176.465 3578659.747 0
SO SRCPARAM 39848A1 .0277196 10 20 9.3
** NMED source ID=39848EQPT6 Facility's ID=HTR-1
** Description=Heater Treater 3 MMBTU/hr Construction date=21-JAN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39848E6 VOLUME 621184.001 3578666.768 0
SO SRCPARAM 39848E6 .0037799 9.14 .47 .93
** NMED source ID=39848EQPT7 Facility's ID=HTR-2
** Description=Heater Treater 3 MMBTU/hr Construction date=21-JAN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39848E7 VOLUME 621177.215 3578670.32 0
SO SRCPARAM 39848E7 .0037799 9.14 .47 .93
** NMED source ID=39848EQPT12 Facility's ID=LPC 1
** Description=Low Pressure Compressor 92 hp Construction date=21-JAN-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39848E12 POINT 621169.618 3578668.228 0
SO SRCPARAM 39848E12 .00252 2.68 922.04 67.27 .08
```

**********END OF 39848: Devon - Boundary Raider 6 CTB 3
INFO***********************************
************************************************************
** 22.78km away. Facility ID=39267 Name=Ghost Compressor Station
** Company ID=12729 Name=Delaware Basin Midstream, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.034, -103.6461, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.49tons/year
*****************Facility sources: ******************************
** NMED source ID=39267EQPT1 Facility's ID=CE-1
** Description=1875 hp Caterpillar G3606 A4 Engine Construction date=17-DEC-19
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1101hr/yr, 24hr/day
SO LOCATION 39267E1 POINT 627841.121 3545005.683 0
SO SRCPARAM 39267E1 .0188997 7.62 691.48 47.61 .3
** NMED source ID=39267EQPT2 Facility's ID=CE-2
** Description=1875 hp Caterpillar G3606 A4 Engine Construction date=17-DEC-19
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1188hr/yr, 24hr/day
SO LOCATION 39267E2 POINT 627848.657 3545012.704 0
SO SRCPARAM 39267E2 .0188997 7.62 691.48 47.61 .3
** NMED source ID=39267EQPT3 Facility's ID=CE-3
** Description=1875 hp Caterpillar G3606 A4 Engine Construction date=17-DEC-19
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1141hr/yr, 24hr/day
SO LOCATION 39267E3 POINT 627841.871 3545016.256 0
SO SRCPARAM 39267E3 .0188997 7.62 691.48 47.61 .3
** NMED source ID=39267EQPT4 Facility's ID=CE-4
** Description=1875 hp Caterpillar G3606 A4 Engine Construction date=17-DEC-19
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=973hr/yr, 24hr/day
SO LOCATION 39267E4 POINT 627834.274 3545014.164 0
SO SRCPARAM 39267E4 .0188997 7.62 691.48 47.61 .3
** NMED source ID=39267EQPT5 Facility's ID=DHR-1
** Description=.25 MM Btu/hr Dehydrator Reboiler Construction date=17-DEC-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1139hr/yr, 24hr/day
SO LOCATION 39267E5 POINT 627830.033 3545007.264 0
SO SRCPARAM 39267E5 .0002898 5.18 477.59 .98 .24
** NMED source ID=39267EQPT6 Facility's ID=DHR-2
** Description=.25 MM Btu/hr Dehydrator Reboiler Construction date=17-DEC-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1139hr/yr, 24hr/day
SO LOCATION 39267E6 POINT 627831.685 3544999.11 0

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SO SRCPARAM 39267E6 .0002898 5.18 477.59 .98 .24
** NMED source ID=39267EQPT7 Facility's ID=GEN-1
** Description=63 hp Kohler KDI 2504 Diesel Generator Construction date=17-DEC-19
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=940hr/yr, 24hr/day
SO LOCATION 39267E7 POINT 627838.634 3544994.148 0
SO SRCPARAM 39267E7 .0002898 1.83 854.26 16.18 .08
** NMED source ID=39267EQPT11 Facility's ID=EC-1
** Description=12.2 MM Btu/hr Enclosed Vapor Combustor Construction date=17-DEC-19
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1240hr/yr, 24hr/day
SO LOCATION 39267E11 POINT 627847.317 3544995.29 0
SO SRCPARAM 39267E11 .0113398 7.01 1273 20 1.22
** NMED source ID=39267EQPT12 Facility's ID=CE-5
** Description=1875 hp Caterpillar G3606 A4 Engine Construction date=14-AUG-20
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39267E12 POINT 627853.027 3545002.218 0
SO SRCPARAM 39267E12 .0188997 7.62 691.48 47.61 .3
** NMED source ID=39267EQPT15 Facility's ID=FL-1
** Description=10 MMSCFD SSM Flare Construction date=08-JUN-22
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39267E15 POINT 627852.462 3545011.399 0
SO SRCPARAM 39267E15 .0002898 12.19 1273 20 .67
** NMED source ID=39267EQPT16 Facility's ID=GEN-2
** Description=134 hp Caterpillar Diesel Generator Construction date=08-JUN-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39267E16 POINT 627845.627 3545017.877 0
SO SRCPARAM 39267E16 .00126 2.13 620.93 29.81 .09
** NMED source ID=39267EQPT17 Facility's ID=GEN-3
** Description=11.6 hp Allmand Night Lite Kubota Generator Construction
date=08-JUN-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39267E17 POINT 627835.991 3545017.954 0
SO SRCPARAM 39267E17 .00126 1.83 572.59 27.52 .03
** NMED source ID=39267EQPT18 Facility's ID=GEN-4
** Description=11.3 hp Allmand Night Lite Mitsubishi Generator Construction
date=08-JUN-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39267E18 POINT 627828.73 3545011.288 0
SO SRCPARAM 39267E18 .00126 1.83 572.59 25.53 .03
** NMED source ID=39267EQPT21 Facility's ID=FL-1 SSM
** Description=10 MMSCFD SSM Flare Construction date=08-JUN-22
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39267E21 POINT 627827.95 3545001.242 0
SO SRCPARAM 39267E21 .0008568 12.19 1273 20 .67
**********END OF 39267: Ghost Compressor Station
INFO**********************************
************************************************************
** 22.79km away. Facility ID=38835 Name=Cal Mon CGL
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.26998, -103.755572, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.26tons/year
*****************Facility sources: ******************************
** NMED source ID=38835AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Road Emissions Construction date=31-OCT-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38835A1 VOLUME 617201.139 3571041.257 0
SO SRCPARAM 38835A1 .00126 1 .47 .93
** NMED source ID=38835EQPT1 Facility's ID=REB-1
** Description=Reboiler Construction date=26-FEB-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38835E1 POINT 617208.675 3571048.278 0
SO SRCPARAM 38835E1 .00126 4.57 533.15 .14 .24
** NMED source ID=38835EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=26-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8665hr/yr, 24hr/day
SO LOCATION 38835E2 POINT 617201.889 3571051.83 0
SO SRCPARAM 38835E2 .0125998 4.57 816.48 26.79 .46
** NMED source ID=38835EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=26-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8565hr/yr, 24hr/day
SO LOCATION 38835E3 POINT 617194.292 3571049.738 0
SO SRCPARAM 38835E3 .0125998 4.57 816.48 26.79 .46
** NMED source ID=38835EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=26-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38835E4 POINT 617190.051 3571042.838 0
SO SRCPARAM 38835E4 .0125998 4.57 816.48 26.79 .46
** NMED source ID=38835EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=26-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38835E5 POINT 617191.703 3571034.684 0
SO SRCPARAM 38835E5 .0125998 4.57 816.48 26.79 .46
** NMED source ID=38835EQPT8 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=06-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38835E8 POINT 617198.652 3571029.722 0
SO SRCPARAM 38835E8 .0125998 4.57 816.48 26.79 .46
** NMED source ID=38835RPNT4 Facility's ID=SITE-SSM
** Description=Startup Shutdown Maintenance Activities Construction date=26-FEB-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38835R4 VOLUME 617207.335 3571030.864 0
SO SRCPARAM 38835R4 .0002898 1 .47 .93
**********END OF 38835: Cal Mon CGL INFO************************************
************************************************************
** 22.82km away. Facility ID=38863 Name=Pinestraw CTB
** Company ID=13544 Name=Ameredev II LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.165108, -103.287681, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.13tons/year
*****************Facility sources: ****************************
** NMED source ID=38863AREA1 Facility's ID=HAUL
** Description=Unpaved Haul Road Construction date=25-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=276hr/yr, 24hr/day
SO LOCATION 38863A1 VOLUME 661457.671 3560021.604 0
SO SRCPARAM 38863A1 .0062999 10 10 9.3
** NMED source ID=38863EQPT27 Facility's ID=HT-1
** Description=1.5 MMBTU/hr Heater Construction date=16-MAR-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38863E27 VOLUME 661465.207 3560028.625 0
SO SRCPARAM 38863E27 .00126 4.72 .47 .93
** NMED source ID=38863EQPT28 Facility's ID=HT-2
** Description=1.5 MMBTU/hr Heater Construction date=16-MAR-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38863E28 VOLUME 661458.421 3560032.177 0
SO SRCPARAM 38863E28 .00126 4.72 .47 .93
**********END OF 38863: Pinestraw CTB INFO**********************************
************************************************************
** 22.91km away. Facility ID=37746 Name=Paduca Breaks Central Gathering Facility
** Company ID=12729 Name=Delaware Basin Midstream, LLC
** SIC=1311 NAIC=211111   Permit=unknown
** lat,long,datum=32.06243, -103.69265, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.99tons/year
*****************Facility sources: ******************************
** NMED source ID=37746EQPT1 Facility's ID=CE-1
** Description=1380hp Caterpillar G3516J Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7991hr/yr, 24hr/day
SO LOCATION 37746E1 POINT 623407.16 3548103.16 0
SO SRCPARAM 37746E1 .0151198 7.01 717.04 29.47 .41
** NMED source ID=37746EQPT2 Facility's ID=CE-2
** Description=1380hp Caterpillar G3516J Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8230hr/yr, 21hr/day
SO LOCATION 37746E2 POINT 623414.696 3548110.181 0
SO SRCPARAM 37746E2 .0151198 7.01 717.04 29.47 .41
** NMED source ID=37746EQPT3 Facility's ID=CE-3
** Description=1380hp Caterpillar G3516J Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8237hr/yr, 24hr/day
SO LOCATION 37746E3 POINT 623407.91 3548113.733 0
SO SRCPARAM 37746E3 .0151198 7.01 717.04 29.47 .41
** NMED source ID=37746EQPT4 Facility's ID=CE-4
** Description=1380hp Caterpillar G3516J Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8356hr/yr, 24hr/day
SO LOCATION 37746E4 POINT 623400.313 3548111.641 0
SO SRCPARAM 37746E4 .0151198 7.01 717.04 29.47 .41
** NMED source ID=37746EQPT5 Facility's ID=CE-5
** Description=1380hp Caterpillar G3516B Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8124hr/yr, 24hr/day
SO LOCATION 37746E5 POINT 623396.072 3548104.741 0
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SO SRCPARAM 37746E5 .0138598 7.01 805.93 33.86 .41
** NMED source ID=37746EQPT6 Facility's ID=CE-6
** Description=1380hp Caterpillar G3516B Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8057hr/yr, 24hr/day
SO LOCATION 37746E6 POINT 623397.724 3548096.587 0
SO SRCPARAM 37746E6 .0138598 7.01 805.93 33.86 .41
** NMED source ID=37746EQPT7 Facility's ID=CE-7
** Description=1380hp Caterpillar G3516B Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8275hr/yr, 24hr/day
SO LOCATION 37746E7 POINT 623404.673 3548091.625 0
SO SRCPARAM 37746E7 .0138598 7.01 717.04 29.47 .41
** NMED source ID=37746EQPT8 Facility's ID=CE-8
** Description=1380hp Caterpillar G3516B Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7630hr/yr, 24hr/day
SO LOCATION 37746E8 POINT 623413.356 3548092.767 0
SO SRCPARAM 37746E8 .0138598 7.01 805.93 33.86 .41
** NMED source ID=37746EQPT9 Facility's ID=EC-1
** Description=10 MMBTtu/h Enclosed Vapor Combustor (Tanks) Construction
date=18-APR-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8713hr/yr, 24hr/day
SO LOCATION 37746E9 POINT 623419.066 3548099.695 0
SO SRCPARAM 37746E9 .0088199 6.1 1273 20 1.22
** NMED source ID=37746EQPT10 Facility's ID=EC-2
** Description=10 MMBtu/h Enclosed Vapor Combustor (Dehydrator) Construction
date=18-APR-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8697hr/yr, 24hr/day
SO LOCATION 37746E10 POINT 623418.501 3548108.876 0
SO SRCPARAM 37746E10 .0088199 7.62 1273 20 1.37
** NMED source ID=37746EQPT11 Facility's ID=LH-1
** Description=1.5 MMBTU/h Line Heater Construction date=18-APR-17
** SCC=31000406
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8643hr/yr, 24hr/day
SO LOCATION 37746E11 POINT 623411.666 3548115.354 0
SO SRCPARAM 37746E11 .00252 3.66 478.15 3.26 .3
** NMED source ID=37746EQPT12 Facility's ID=DHR-1
** Description=1.5 MMBTU/h Dehydrator Reboiler Construction date=18-APR-17
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** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8678hr/yr, 24hr/day
SO LOCATION 37746E12 POINT 623402.03 3548115.431 0
SO SRCPARAM 37746E12 .00252 3.66 478.15 3.26 .3
** NMED source ID=37746EQPT18 Facility's ID=CE-9
** Description=1775hp Caterpillar G3606A3 Compressor Engine Construction
date=18-APR-17
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8312hr/yr, 24hr/day
SO LOCATION 37746E18 POINT 623394.769 3548108.765 0
SO SRCPARAM 37746E18 .0176397 7.01 742.59 70.71 .3
** NMED source ID=37746RPNT8 Facility's ID=FL-PILOT
** Description=Flare for SSM Activities Construction date=25-JUL-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37746R8 POINT 623393.989 3548098.719 0
SO SRCPARAM 37746R8 .0002898 9.14 1273.15 19.99 .67
** NMED source ID=37746RPNT9 Facility's ID=FL-1 SSM
** Description=Flare for SSM Activities Construction date=25-JUL-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37746R9 POINT 623400.407 3548090.668 0
SO SRCPARAM 37746R9 .0017262 9.14 1273.15 19.99 .67
**********END OF 37746: Paduca Breaks Central Gathering Facility
INFO************************************
************************************************************
** 22.92km away. Facility ID=38894 Name=Antler 17 State 2BS and 3H Production
Facility
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.384881, -103.394253, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.11tons/year
*****************Facility sources: ****************************
** NMED source ID=38894AREA1 Facility's ID=HR-1 (Oil)
** Description=Unpaved Haul Road Construction date=13-APR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38894A1 VOLUME 651042.888 3584232.023 0
SO SRCPARAM 38894A1 .0113398 10 10 9.3
** NMED source ID=38894AREA2 Facility's ID=HR-2 (PW)
** Description=Unpaved Haul Road Construction date=13-APR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38894A2 VOLUME 651050.424 3584239.044 0
```

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SO SRCPARAM 38894A2 .0113398 10 10 9.3
** NMED source ID=38894EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 MMBtu/hr Construction date=02-JUN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38894E1 POINT 651043.638 3584242.596 0
SO SRCPARAM 38894E1 .00126 4.57 422.04 11.75 .2
** NMED source ID=38894EQPT2 Facility's ID=HT-2
** Description=Heater Treater 1 MMBtu/hr Construction date=02-JUN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38894E2 POINT 651036.041 3584240.504 0
SO SRCPARAM 38894E2 .00126 4.57 422.04 11.75 .2
**********END OF 38894: Antler 17 State 2BS and 3H Production Facility
INFO***********************************
************************************************************
** 22.92km away. Facility ID=39668 Name=Talco A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.047219, -103.375839, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.46tons/year
*****************Facility sources: ******************************
** NMED source ID=39668AREA2 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39668A2 VOLUME 653341.057 3546823.077 0
SO SRCPARAM 39668A2 .0113398 10 10 9.3
** NMED source ID=39668EQPT1 Facility's ID=HT-1
** Description=2.0 MMBtu/hr Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=312hr/yr, 24hr/day
SO LOCATION 39668E1 VOLUME 653348.593 3546830.098 0
SO SRCPARAM 39668E1 .00252 4.57 .47 .93
** NMED source ID=39668EQPT9 Facility's ID=ENG-1
** Description=1380 HP Compressor Engine Construction date=13-JAN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39668E9 POINT 653341.807 3546833.65 0
SO SRCPARAM 39668E9 .0125998 4.57 730.37 38.25 .36
** NMED source ID=39668EQPT21 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=25-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 39668E21 POINT 653334.21 3546831.558 0
SO SRCPARAM 39668E21 .0113398 4.57 812.59 35.36 .2
**********END OF 39668: Talco A CTB INFO************************************
************************************************************
** 22.97km away. Facility ID=40783 Name=Uncle Richard TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.167285, -103.285446, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.98tons/year
*****************Facility sources: ****************************
** NMED source ID=40783AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Roads Construction date=30-NOV-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783A1 VOLUME 661664.595 3560266.318 0
SO SRCPARAM 40783A1 .0100798 10 10 9.3
** NMED source ID=40783EQPT1 Facility's ID=ENG-1
** Description=4-Stroke Rich Burn Compressor Engine Construction date=30-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E1 POINT 661672.131 3560273.339 0
SO SRCPARAM 40783E1 .00126 6.1 1005.37 9.44 .15
** NMED source ID=40783EQPT2 Facility's ID=ENG-2
** Description=4-Stroke Rich Burn Compressor Engine Construction date=30-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E2 POINT 661665.345 3560276.891 0
SO SRCPARAM 40783E2 .00126 6.1 1005.37 9.44 .15
** NMED source ID=40783EQPT5 Facility's ID=GEN-1
** Description=4-Stroke Rich Burn Generator Construction date=30-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E5 POINT 661657.748 3560274.799 0
SO SRCPARAM 40783E5 .0113398 6.1 1023.15 39.53 .21
** NMED source ID=40783EQPT6 Facility's ID=GEN-2
** Description=4-Stroke Rich Burn Generator Construction date=30-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E6 POINT 661653.507 3560267.899 0
SO SRCPARAM 40783E6 .0113398 6.1 1023.15 39.53 .21
** NMED source ID=40783EQPT7 Facility's ID=GEN-3
** Description=4-Stroke Rich Burn Generator Construction date=30-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 40783E7 POINT 661655.159 3560259.745 0
SO SRCPARAM 40783E7 .0113398 6.1 1023.15 39.53 .21
** NMED source ID=40783EQPT9 Facility's ID=HT-1
** Description=Heater Treater Construction date=30-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E9 VOLUME 661662.108 3560254.783 0
SO SRCPARAM 40783E9 .00126 6.1 .47 .93
** NMED source ID=40783EQPT19 Facility's ID=ENG-3
** Description=384-hp Ajax DPC 2802 LE engine Construction date=17-JAN-24
** SCC=20200252
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E19 POINT 661670.791 3560255.925 0
SO SRCPARAM 40783E19 .0176397 6.61 513.71 15.92 .34
**********END OF 40783: Uncle Richard TB INFO**************************************
************************************************************
** 23.02km away. Facility ID=33076 Name=Aldabra 26 and 27 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5335 NOI
** lat,long,datum=32.269714, -103.758175, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.22tons/year
*****************Facility sources: ****************************
** NMED source ID=33076AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33076A1 VOLUME 616956.311 3571008.928 0
SO SRCPARAM 33076A1 1.0898827 10 90 9.3
** NMED source ID=33076EQPT11 Facility's ID=Heater_0726
** Description=Heater_EQ000170726 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33076E11 VOLUME 616963.847 3571015.949 0
SO SRCPARAM 33076E11 .0005796 9.14 .47 .93
** NMED source ID=33076EQPT12 Facility's ID=Heater_0705
** Description=Heater_EQ000170705 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33076E12 VOLUME 616957.061 3571019.501 0
SO SRCPARAM 33076E12 .0005796 9.14 .47 .93
**********END OF 33076: Aldabra 26 and 27 Battery
INFO**********************************
************************************************************
** 23.02km away. Facility ID=40538 Name=Red Stag 5 32 Battery No1
** Company ID=537 Name=Mewbourne Oil Company
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.414995, -103.48726, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.91tons/year
*****************Facility sources: ****************************
** NMED source ID=40538AREA1 Facility's ID=HR-01
** Description=Hauling Roads Construction date=08-NOV-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538A1 VOLUME 642246.14 3587443.08 0
SO SRCPARAM 40538A1 .0088199 10 10 9.3
** NMED source ID=40538EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E1 POINT 642253.676 3587450.101 0
SO SRCPARAM 40538E1 .0075599 6.17 695.37 37.61 .25
** NMED source ID=40538EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E2 POINT 642246.89 3587453.653 0
SO SRCPARAM 40538E2 .0075599 4.57 778.71 13.94 .26
** NMED source ID=40538EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E4 POINT 642239.293 3587451.561 0
SO SRCPARAM 40538E4 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40538EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E5 POINT 642235.052 3587444.661 0
SO SRCPARAM 40538E5 .0037799 4.11 894.82 36.52 .13
** NMED source ID=40538EQPT6 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E6 POINT 642236.704 3587436.507 0
SO SRCPARAM 40538E6 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40538EQPT7 Facility's ID=ENG-07
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E7 POINT 642243.653 3587431.545 0
SO SRCPARAM 40538E7 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40538EQPT11 Facility's ID=GEN-01
** Description=Generator Engine Construction date=08-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E11 POINT 642252.336 3587432.687 0
SO SRCPARAM 40538E11 .0100798 4.51 840.37 179.41 .09
** NMED source ID=40538EQPT12 Facility's ID=HT-01
** Description=Heater Treater Construction date=08-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E12 POINT 642258.046 3587439.615 0
SO SRCPARAM 40538E12 .00126 4.57 533.15 3.93 .46
** NMED source ID=40538EQPT13 Facility's ID=HT-02
** Description=Heater Treater Construction date=08-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E13 POINT 642257.481 3587448.796 0
SO SRCPARAM 40538E13 .00252 4.57 533.15 7.86 .46
** NMED source ID=40538EQPT39 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=16-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E39 POINT 642250.646 3587455.274 0
SO SRCPARAM 40538E39 .0088199 4.42 989.82 70.41 .13
**********END OF 40538: Red Stag 5 32 Battery No1
INFO**********************************
************************************************************
** 23.1km away. Facility ID=35661 Name=ConocoPhillips - Red Hills West 16 State No2
** Company ID=198 Name=ConocoPhillips Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.047424, -103.675312, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.57tons/year
*****************Facility sources: ******************************
** NMED source ID=35661EQPT13 Facility's ID=ENG-1
** Description=1340hp Caterpillar 3516TA 4SULB Compressor Engine Construction
date=09-DEC-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5095hr/yr, 24hr/day
SO LOCATION 35661E13 POINT 625064.322 3546459.608 0
SO SRCPARAM 35661E13 .0151198 6.52 740.37 49.56 .3
** NMED source ID=35661RPNT2 Facility's ID=ROAD
** Description=Haul Roads Construction date=30-JAN-19
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** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35661R2 VOLUME 625071.858 3546466.629 0
SO SRCPARAM 35661R2 .0088199 10 10 9.3
**********END OF 35661: ConocoPhillips - Red Hills West 16 State No2
INFO**********************************
************************************************************
** 23.1km away. Facility ID=39502 Name=Matador- Grevey Com Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.033733, -103.395678, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.28tons/year
*****************Facility sources: ****************************
** NMED source ID=39502AREA1 Facility's ID=HR-1
** Description=Unpaved Road Emissions Construction date=10-JUN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39502A1 VOLUME 651490.006 3545299.976 0
SO SRCPARAM 39502A1 .00126 1 .47 .93
** NMED source ID=39502EQPT1 Facility's ID=HT-1
** Description=Heater Treater Construction date=10-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39502E1 VOLUME 651497.542 3545306.997 0
SO SRCPARAM 39502E1 .00126 6.1 .47 .93
** NMED source ID=39502EQPT2 Facility's ID=ENG-1
** Description=Engine drives flash gas compressor Construction date=10-JUN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8614hr/yr, 24hr/day
SO LOCATION 39502E2 POINT 651490.756 3545310.549 0
SO SRCPARAM 39502E2 .0037799 3.4 816.48 49.87 .1
** NMED source ID=39502EQPT3 Facility's ID=GEN-1
** Description=Generator provides electric power Construction date=10-JUN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8614hr/yr, 24hr/day
SO LOCATION 39502E3 POINT 651483.159 3545308.457 0
SO SRCPARAM 39502E3 .00252 2.64 1023.15 46.6 .09
**********END OF 39502: Matador- Grevey Com Tank Battery
INFO**********************************
************************************************************
** 23.11km away. Facility ID=31720 Name=Bootleg Ridge Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.3087, -103.7402, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=3.28tons/year
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*****************Facility sources: ****************************
** NMED source ID=31720EQPT3 Facility's ID=REB-1
** Description=1.0 MMBtu/hr dehy reboiler Construction date=20-FEB-14
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8708hr/yr, 24hr/day
SO LOCATION 31720E3 POINT 618598.559 3575350.618 0
SO SRCPARAM 31720E3 .00126 3.05 588.71 2.65 .3
** NMED source ID=31720EQPT6 Facility's ID=17-0536
** Description=Cat G3516B, 1380 hp 4SLB Construction date=20-FEB-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8127hr/yr, 22hr/day
SO LOCATION 31720E6 POINT 618606.095 3575357.639 0
SO SRCPARAM 31720E6 .0138598 7.01 699.82 26.24 .46
** NMED source ID=31720EQPT11 Facility's ID=17-0641
** Description=Cat G3516B, 1380 hp 4SLB Construction date=19-OCT-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8064hr/yr, 22hr/day
SO LOCATION 31720E11 POINT 618599.309 3575361.191 0
SO SRCPARAM 31720E11 .0138598 7.01 699.82 26.24 .46
** NMED source ID=31720EQPT12 Facility's ID=17-0644
** Description=Cat G3516B, 1380 hp 4SLB Construction date=19-OCT-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8233hr/yr, 23hr/day
SO LOCATION 31720E12 POINT 618591.712 3575359.099 0
SO SRCPARAM 31720E12 .0138598 7.01 699.82 26.24 .46
** NMED source ID=31720EQPT13 Facility's ID=17-0535
** Description=Cat G3516B, 1380 hp 4SLB Construction date=15-NOV-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7842hr/yr, 21hr/day
SO LOCATION 31720E13 POINT 618587.471 3575352.199 0
SO SRCPARAM 31720E13 .0138598 7.01 699.82 26.24 .46
** NMED source ID=31720EQPT14 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=06-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31720E14 POINT 618589.123 3575344.045 0
SO SRCPARAM 31720E14 .0176397 7.01 718.15 34.32 .46
** NMED source ID=31720EQPT15 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=06-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31720E15 POINT 618596.072 3575339.083 0
SO SRCPARAM 31720E15 .0176397 7.01 718.15 34.32 .46
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**********END OF 31720: Bootleg Ridge Compressor Station
INFO**********************************
************************************************************
** 23.11km away. Facility ID=30873 Name=Cotton Draw Unit 153
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4597 NOI
** lat,long,datum=32.166339, -103.763583, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.52tons/year
*****************Facility sources: ******************************
** NMED source ID=30873AREA1 Facility's ID=Haul Roads
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 30873A1 VOLUME 616578.812 3559543.152 0
SO SRCPARAM 30873A1 1.0898827 10 90 9.3
** NMED source ID=30873EQPT4 Facility's ID=Heater_5083
** Description=Heater_EQ000115083 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 30873E4 VOLUME 616586.348 3559550.173 0
SO SRCPARAM 30873E4 .0005796 9.14 .47 .93
** NMED source ID=30873EQPT5 Facility's ID=Heater_4900
** Description=Heater_EQ000114900 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 30873E5 VOLUME 616579.562 3559553.725 0
SO SRCPARAM 30873E5 .0005796 9.14 .47 .93
**********END OF 30873: Cotton Draw Unit 153
INFO**********************************
************************************************************
** 23.13km away. Facility ID=38058 Name=Hallertau 5 Federal 7-11H, 16H Facility
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.067439, -103.7018, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.04tons/year
*****************Facility sources: ******************************
** NMED source ID=38058AREA1 Facility's ID=HR
** Description=Haul Road Emissions Construction date=18-NOV-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38058A1 VOLUME 622536.701 3548648.011 0
SO SRCPARAM 38058A1 .0113398 10 10 9.3
** NMED source ID=38058EQPT18 Facility's ID=H-1
** Description=Heater treater 1; 2.0 MMBtu/h Construction date=18-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8563hr/yr, 23hr/day
SO LOCATION 38058E18 POINT 568241.173 3595198.763 0
SO SRCPARAM 38058E18 .00126 4.57 477.59 4.05 .15
** NMED source ID=38058EQPT19 Facility's ID=H-2
** Description=Heater treater 2; 2.0 MMBtu/hr Construction date=18-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8563hr/yr, 23hr/day
SO LOCATION 38058E19 POINT 568241.173 3595198.763 0
SO SRCPARAM 38058E19 .00126 4.57 477.59 4.05 .15
** NMED source ID=38058EQPT25 Facility's ID=ENG-3
** Description=Caterpillar G3516 TALE; 1340 hp Construction date=10-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38058E25 POINT 622529.854 3548656.492 0
SO SRCPARAM 38058E25 .0151198 6.22 819.26 59.31 .3
** NMED source ID=38058EQPT28 Facility's ID=ENG-4
** Description=Caterpillar G3306TA Compressor Engine Construction date=19-AUG-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38058E28 POINT 622525.613 3548649.592 0
SO SRCPARAM 38058E28 .0037799 3.51 846.48 25.09 .15
** NMED source ID=38058EQPT29 Facility's ID=ENG-5
** Description=Caterpillar G3306TA Compressor Engine Construction date=19-AUG-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38058E29 POINT 622527.265 3548641.438 0
SO SRCPARAM 38058E29 .0037799 3.66 846.48 25.09 .15
**********END OF 38058: Hallertau 5 Federal 7-11H, 16H Facility
INFO************************************
************************************************************
** 23.13km away. Facility ID=5881 Name=Bora Bora 13 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10002 NOI
** lat,long,datum=32.311067, -103.738924, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.41tons/year
*****************Facility sources: ******************************
** NMED source ID=5881EQPT1 Facility's ID=ENG-1
** Description=Combustion Engine Construction date=14-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5881E1 POINT 618715.604 3575614.436 0
SO SRCPARAM 5881E1 .0088199 3.51 1000.37 71.17 .13
** NMED source ID=5881EQPT2 Facility's ID=ENG-2
** Description=Combustion Engine Construction date=14-JUL-23
** SCC=20200253
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5881E2 POINT 618723.14 3575621.457 0
SO SRCPARAM 5881E2 .0037799 3.6 853.15 19.96 .17
**********END OF 5881: Bora Bora 13 Wellpad 1
INFO**********************************
************************************************************
** 23.14km away. Facility ID=37521 Name=EOG - Endurance 36 South CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.002772, -103.529239, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=37521AREA1 Facility's ID=HAUL
** Description=Haul Roads Construction date=19-OCT-16
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37521A1 VOLUME 638923.797 3541688.099 0
SO SRCPARAM 37521A1 .00126 1 .47 .93
** NMED source ID=37521EQPT4 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37521E4 VOLUME 638931.333 3541695.12 0
SO SRCPARAM 37521E4 .0005796 4.57 .47 .93
** NMED source ID=37521EQPT17 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37521E17 VOLUME 638924.547 3541698.672 0
SO SRCPARAM 37521E17 .00126 4.88 .47 .93
**********END OF 37521: EOG - Endurance 36 South CTB
INFO**********************************
************************************************************
** 23.14km away. Facility ID=30899 Name=Cotton Draw 10 Fed 2H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4608 NOI
** lat,long,datum=32.151361, -103.759361, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=30899AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 30899A1 VOLUME 616996.061 3557887.324 0
SO SRCPARAM 30899A1 .0277196 10 20 9.3
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** NMED source ID=30899EQPT5 Facility's ID=HT-2
** Description=Heater_EQ000113089 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 30899E5 VOLUME 617003.597 3557894.345 0
SO SRCPARAM 30899E5 .0005796 9.14 .47 .93
** NMED source ID=30899EQPT12 Facility's ID=HT-1
** Description=Heater_EQ000112920 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 30899E12 VOLUME 616996.811 3557897.897 0
SO SRCPARAM 30899E12 .0005796 9.14 .47 .93
**********END OF 30899: Cotton Draw 10 Fed 2H
INFO***********************************
************************************************************
** 23.21km away. Facility ID=39798 Name=Black Sheep 4 33 B3OB Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.414586, -103.472886, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.04tons/year
*****************Facility sources: ****************************
** NMED source ID=39798EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=25-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E1 POINT 643598.543 3587416.962 0
SO SRCPARAM 39798E1 .0075599 6.17 695.37 37.61 .25
** NMED source ID=39798EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=25-OCT-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E2 POINT 643606.079 3587423.983 0
SO SRCPARAM 39798E2 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39798EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=25-OCT-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E3 POINT 643599.293 3587427.535 0
SO SRCPARAM 39798E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39798EQPT6 Facility's ID=HT-01
** Description=Heater Treater Construction date=25-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E6 POINT 643591.696 3587425.443 0
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SO SRCPARAM 39798E6 .00126 4.57 533.15 3.93 .46
** NMED source ID=39798EQPT7 Facility's ID=HT-02
** Description=Heater Treater Construction date=25-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E7 POINT 643587.455 3587418.543 0
SO SRCPARAM 39798E7 .00126 4.57 533.15 3.93 .46
** NMED source ID=39798EQPT8 Facility's ID=HT-03
** Description=Heater Treater Construction date=25-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E8 POINT 643589.107 3587410.389 0
SO SRCPARAM 39798E8 .00126 4.57 533.15 3.93 .46
** NMED source ID=39798EQPT9 Facility's ID=HT-04
** Description=Heater Treater Construction date=25-OCT-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E9 POINT 643596.056 3587405.427 0
SO SRCPARAM 39798E9 .00126 4.57 533.15 3.93 .46
** NMED source ID=39798EQPT13 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=23-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E13 POINT 643604.739 3587406.569 0
SO SRCPARAM 39798E13 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39798EQPT14 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=23-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E14 POINT 643610.449 3587413.497 0
SO SRCPARAM 39798E14 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39798EQPT17 Facility's ID=HT-05
** Description=Heater Treater Construction date=23-MAR-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E17 POINT 643609.884 3587422.678 0
SO SRCPARAM 39798E17 .00126 4.57 533.15 3.93 .46
**********END OF 39798: Black Sheep 4 33 B3OB Fed Com 1H Battery
INFO**********************************
************************************************************
** 23.22km away. Facility ID=37766 Name=Endurance Localized Gas Lift
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0022, -103.5352, WGS84
```

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** Total Particulate Matter (2.5 microns or less) emissions=2.56tons/year
*****************Facility sources: ****************************
** NMED source ID=37766EQPT13 Facility's ID=Heater-1
** Description=0.5 MMBtu/hr Heater Separator Construction date=01-NOV-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37766E13 VOLUME 638361.543 3541617.041 0
SO SRCPARAM 37766E13 .0005796 4.57 .47 .93
** NMED source ID=37766EQPT20 Facility's ID=RBL-1
** Description=Reboiler Construction date=04-APR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37766E20 POINT 638369.079 3541624.062 0
SO SRCPARAM 37766E20 .0005796 3.96 588.71 .15 .91
** NMED source ID=37766EQPT23 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=30-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37766E23 POINT 638362.293 3541627.614 0
SO SRCPARAM 37766E23 .0176397 7.01 699.26 26.64 .52
** NMED source ID=37766EQPT24 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=30-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37766E24 POINT 638354.696 3541625.522 0
SO SRCPARAM 37766E24 .0176397 7.01 699.26 26.64 .52
** NMED source ID=37766EQPT25 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=30-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37766E25 POINT 638350.455 3541618.622 0
SO SRCPARAM 37766E25 .0176397 7.01 699.26 26.64 .52
** NMED source ID=37766EQPT26 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=30-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37766E26 POINT 638352.107 3541610.468 0
SO SRCPARAM 37766E26 .0176397 7.01 699.26 26.64 .52
**********END OF 37766: Endurance Localized Gas Lift
INFO*************************************
************************************************************
** 23.24km away. Facility ID=40769 Name=Mule 23 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
```

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** lat,long,datum=32.121818, -103.747189, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.13tons/year
*****************Facility sources: ****************************
** NMED source ID=40769AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=16-NOV-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40769A1 VOLUME 618182.097 3554625.587 0
SO SRCPARAM 40769A1 .0277196 10 20 9.3
** NMED source ID=40769EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=16-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40769E2 VOLUME 618189.633 3554632.608 0
SO SRCPARAM 40769E2 .0037799 9.14 .47 .93
** NMED source ID=40769EQPT11 Facility's ID=ENG-1
** Description=ENG-1 Combustion Engine Construction date=16-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40769E11 POINT 618182.847 3554636.16 0
SO SRCPARAM 40769E11 .0138598 7.01 809.26 57.36 .3
**********END OF 40769: Mule 23 CTB 2 INFO************************************
************************************************************
** 23.25km away. Facility ID=40178 Name=Sand Dunes 10 CTB
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=9386 GCP6
** lat,long,datum=32.235589, -103.769003, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.05tons/year
*****************Facility sources: ****************************
** NMED source ID=40178AREA1 Facility's ID=HAUL
** Description=Haul Road Fugitives Construction date=12-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178A1 VOLUME 615979.832 3567214.148 0
SO SRCPARAM 40178A1 .0062999 1 .47 .93
** NMED source ID=40178EQPT9 Facility's ID=HPS-1
** Description=Heated Production Separator Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E9 POINT 615987.368 3567221.169 0
SO SRCPARAM 40178E9 .0037799 6.71 533.15 .21 .46
** NMED source ID=40178EQPT10 Facility's ID=HPS-2
** Description=Heated Production Separator Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E10 POINT 615980.582 3567224.721 0
SO SRCPARAM 40178E10 .0037799 6.71 533.15 .21 .46
** NMED source ID=40178EQPT11 Facility's ID=HPS-3
** Description=Heated Production Separator Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E11 POINT 615972.985 3567222.629 0
SO SRCPARAM 40178E11 .0037799 6.71 533.15 .21 .46
** NMED source ID=40178EQPT12 Facility's ID=HTR-1
** Description=Heater Treater Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E12 POINT 615968.744 3567215.729 0
SO SRCPARAM 40178E12 .0037799 6.71 533.15 .21 .46
** NMED source ID=40178EQPT13 Facility's ID=HTR-2
** Description=Heater Treater Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E13 POINT 615970.396 3567207.575 0
SO SRCPARAM 40178E13 .0037799 6.71 533.15 .21 .46
** NMED source ID=40178EQPT14 Facility's ID=HTR-3
** Description=Heater Treater Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E14 POINT 615977.345 3567202.613 0
SO SRCPARAM 40178E14 .0037799 6.71 533.15 .21 .46
**********END OF 40178: Sand Dunes 10 CTB INFO**********************************
************************************************************
** 23.26km away. Facility ID=38147 Name=XTO - Poker Lake Unit Twin Wells West Tank
Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=7562 NSR
** lat,long,datum=32.208333, -103.770833, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.2tons/year
*****************Facility sources: ******************************
** NMED source ID=38147AREA2 Facility's ID=ROAD
** Description=Haul Road Emissions Construction date=04-DEC-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38147A2 VOLUME 615841.973 3564190.642 0
SO SRCPARAM 38147A2 .0377994 1 .47 .93
**********END OF 38147: XTO - Poker Lake Unit Twin Wells West Tank Battery
INFO**********************************
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** 23.26km away. Facility ID=7571 Name=Yeah Yeah Federal 10C CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=10078 NOI
** lat,long,datum=32.412269, -103.459339, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=7571AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=20-SEP-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7571A1 VOLUME 644876.237 3587178.37 0
SO SRCPARAM 7571A1 .00126 1 .47 .93
** NMED source ID=7571EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=20-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7571E3 VOLUME 644883.773 3587185.391 0
SO SRCPARAM 7571E3 .00126 6.71 .47 .93
**********END OF 7571: Yeah Yeah Federal 10C CTB
INFO*************************************
************************************************************
** 23.27km away. Facility ID=39715 Name=Big Sinks Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.103717, -103.736182, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.55tons/year
*****************Facility sources: ******************************
** NMED source ID=39715EQPT1 Facility's ID=ENG-1
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E1 POINT 619244.032 3552631.106 0
SO SRCPARAM 39715E1 .0214197 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT5 Facility's ID=ECD-1
** Description=ECD-1 (176.5 MSCF/d) Construction date=18-OCT-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E5 POINT 619251.568 3552638.127 0
SO SRCPARAM 39715E5 .00126 8.23 1273 20 1.52
** NMED source ID=39715EQPT6 Facility's ID=RBL-1
** Description=Reboiler 1 MMBTU/hr Construction date=18-OCT-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E6 POINT 619244.782 3552641.679 0
SO SRCPARAM 39715E6 .00126 3.66 588.71 2.34 .32
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** NMED source ID=39715EQPT8 Facility's ID=ENG-2
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E8 POINT 619237.185 3552639.587 0
SO SRCPARAM 39715E8 .0214197 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT9 Facility's ID=ENG-3
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E9 POINT 619232.944 3552632.687 0
SO SRCPARAM 39715E9 .0214197 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT10 Facility's ID=ENG-4
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E10 POINT 619234.596 3552624.533 0
SO SRCPARAM 39715E10 .0214197 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT11 Facility's ID=ENG-5
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E11 POINT 619241.545 3552619.571 0
SO SRCPARAM 39715E11 .0214197 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT12 Facility's ID=ENG-6
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E12 POINT 619250.228 3552620.713 0
SO SRCPARAM 39715E12 .0214197 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT16 Facility's ID=ECD-2
** Description=ECD-1 (106.2 MSCF/d) Construction date=18-OCT-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E16 POINT 619255.938 3552627.641 0
SO SRCPARAM 39715E16 .0002898 8.23 1273 20 1.22
**********END OF 39715: Big Sinks Compressor Station
INFO**********************************
************************************************************
** 23.29km away. Facility ID=34299 Name=Ridge Runner 7-1H Battery
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=5889 NOI
** lat,long,datum=32.403694, -103.619, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.01tons/year
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*****************Facility sources: ****************************
** NMED source ID=34299EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 34299E1 VOLUME 629873.46 3586022.472 0
SO SRCPARAM 34299E1 .0002898 3.66 .47 .93
**********END OF 34299: Ridge Runner 7-1H Battery
INFO*********************************
************************************************************
** 23.33km away. Facility ID=40192 Name=Blue Marlin CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.113114, -103.304683, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.41tons/year
*****************Facility sources: ****************************
** NMED source ID=40192AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=28-OCT-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192A1 VOLUME 659945.078 3554231.841 0
SO SRCPARAM 40192A1 .0138598 10 10 9.3
** NMED source ID=40192EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516J, 1308 hp Construction date=28-OCT-21
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E1 POINT 659952.614 3554238.862 0
SO SRCPARAM 40192E1 .0113398 4.57 724.26 110.64 .2
** NMED source ID=40192EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516J, 1308 hp Construction date=28-OCT-21
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E2 POINT 659945.828 3554242.414 0
SO SRCPARAM 40192E2 .0113398 4.57 724.26 110.64 .2
** NMED source ID=40192EQPT7 Facility's ID=HT-1
** Description=2 MMBtu/h Heater Treater Construction date=28-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E7 VOLUME 659938.231 3554240.322 0
SO SRCPARAM 40192E7 .00126 4.57 .47 .93
** NMED source ID=40192EQPT20 Facility's ID=TRB-1
** Description=Elec Generating Turbine 244 kW Construction date=28-OCT-21
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40192E20 POINT 659933.99 3554233.422 0
SO SRCPARAM 40192E20 .0037799 7 588 10 .7
** NMED source ID=40192EQPT21 Facility's ID=TRB-2
** Description=Elec Generating Turbine 244 kW Construction date=28-OCT-21
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E21 POINT 659935.642 3554225.268 0
SO SRCPARAM 40192E21 .0037799 7 588 10 .7
** NMED source ID=40192EQPT22 Facility's ID=TRB-3
** Description=Elec Generating Turbine 244 kW Construction date=28-OCT-21
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E22 POINT 659942.591 3554220.306 0
SO SRCPARAM 40192E22 .0037799 7 588 10 .7
**********END OF 40192: Blue Marlin CTB INFO************************************
************************************************************
** 23.34km away. Facility ID=38008 Name=Todd-Apache 6 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=7526 NOI
** lat,long,datum=32.338263, -103.720513, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.41tons/year
*****************Facility sources: ****************************
** NMED source ID=38008AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=07-NOV-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38008A1 VOLUME 620412.901 3578649.93 0
SO SRCPARAM 38008A1 .0277196 10 20 9.3
** NMED source ID=38008EQPT18 Facility's ID=17(dup)
** Description=Removed - 1 MMBtu/hr Heater Treater 2 Construction date=29-JUN-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38008E18 VOLUME 620420.437 3578656.951 0
SO SRCPARAM 38008E18 .00126 9.14 .47 .93
** NMED source ID=38008EQPT35 Facility's ID=ENG 1
** Description=ENG 1 EQ000070978 Construction date=21-SEP-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38008E35 POINT 620413.651 3578660.503 0
SO SRCPARAM 38008E35 .0037799 2.5 919.82 51.44 .1
** NMED source ID=38008EQPT36 Facility's ID=HT-1
** Description=Heater Treater 1 EQ000070979 Construction date=21-SEP-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
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SO LOCATION 38008E36 VOLUME 620406.054 3578658.411 0
SO SRCPARAM 38008E36 .00126 9.14 .47 .93
** NMED source ID=38008EQPT37 Facility's ID=HT-2
** Description=Heater Treater 2 EQ000070962 Construction date=21-SEP-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38008E37 VOLUME 620401.813 3578651.511 0
SO SRCPARAM 38008E37 .00126 9.14 .47 .93
** NMED source ID=38008EQPT41 Facility's ID=ENG 2
** Description=ENG 2 EQ000875201 Construction date=21-SEP-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38008E41 POINT 620403.465 3578643.357 0
SO SRCPARAM 38008E41 .0037799 3.6 853.15 19.96 .17
**********END OF 38008: Todd-Apache 6 CTB 1
INFO**********************************
************************************************************
** 23.45km away. Facility ID=39498 Name=Chevron - Dagger Lake Section 4 CS
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.41645, -103.57656, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=4.19tons/year
*****************Facility sources: ****************************
** NMED source ID=39498EQPT1 Facility's ID=REB-1
** Description=1.5 MMBtu/hr TEG Reboiler Construction date=16-APR-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E1 POINT 633846.16 3587489.016 0
SO SRCPARAM 39498E1 .00126 5.41 533.15 1.69 .46
** NMED source ID=39498EQPT2 Facility's ID=ENG-1
** Description=1875 hp Caterpillar G3606 compressor engine Construction
date=16-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E2 POINT 633853.696 3587496.037 0
SO SRCPARAM 39498E2 .0176397 8.84 708.71 28.65 .5
** NMED source ID=39498EQPT3 Facility's ID=ENG-2
** Description=1875 hp Caterpillar G3606 compressor engine Construction
date=16-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E3 POINT 633846.91 3587499.589 0
SO SRCPARAM 39498E3 .0176397 8.84 708.71 28.65 .5
** NMED source ID=39498EQPT4 Facility's ID=ENG-3
** Description=1875 hp Caterpillar G3606 compressor engine Construction
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date=16-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E4 POINT 633839.313 3587497.497 0
SO SRCPARAM 39498E4 .0176397 8.84 708.71 28.65 .5
** NMED source ID=39498EQPT5 Facility's ID=ENG-4
** Description=1875 hp Caterpillar G3606 compressor engine Construction
date=16-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E5 POINT 633835.072 3587490.597 0
SO SRCPARAM 39498E5 .0176397 8.84 708.71 28.65 .5
** NMED source ID=39498EQPT7 Facility's ID=ENG-6
** Description=2500 hp Caterpillar G3608 compressor engine Construction
date=16-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E7 POINT 633836.724 3587482.443 0
SO SRCPARAM 39498E7 .0239396 8.84 718.71 26.21 .61
** NMED source ID=39498EQPT12 Facility's ID=ENG-5
** Description=2500 hp Caterpillar G3608 compressor engine Construction
date=03-NOV-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E12 POINT 633843.673 3587477.481 0
SO SRCPARAM 39498E12 .0239396 8.84 718.71 26.21 .61
**********END OF 39498: Chevron - Dagger Lake Section 4 CS
INFO**********************************
************************************************************
** 23.46km away. Facility ID=38939 Name=ConocoPhillips - Zia Hill 25E
** Company ID=1455 Name=ConocoPhillips - Midland Office
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.018611, -103.626667, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.54tons/year
*****************Facility sources: ****************************
** NMED source ID=38939AREA1 Facility's ID=ROAD
** Description=Haul Roads Construction date=03-MAY-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38939A1 VOLUME 629697.913 3543322.876 0
SO SRCPARAM 38939A1 .0037799 1 .47 .93
** NMED source ID=38939EQPT1 Facility's ID=ENG1
** Description=690 hp Caterpillar 3508ULB Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=4831hr/yr, 24hr/day
SO LOCATION 38939E1 POINT 629705.449 3543329.897 0
SO SRCPARAM 38939E1 .0062999 6.1 785.93 27.49 .3
** NMED source ID=38939EQPT2 Facility's ID=AUXH1
** Description=2 MMBTU/hr heater Construction date=03-MAY-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6216hr/yr, 24hr/day
SO LOCATION 38939E2 POINT 629698.663 3543333.449 0
SO SRCPARAM 38939E2 .00252 4.57 672.04 4.45 .3
** NMED source ID=38939EQPT3 Facility's ID=AUXH2
** Description=2 MMBTU/hr heater Construction date=03-MAY-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38939E3 POINT 629691.066 3543331.357 0
SO SRCPARAM 38939E3 .00252 4.57 672.04 4.45 .3
** NMED source ID=38939EQPT4 Facility's ID=FL1
** Description=8.4 MMscfd Dual Tip Flare Construction date=03-MAY-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6696hr/yr, 24hr/day
SO LOCATION 38939E4 POINT 629686.825 3543324.457 0
SO SRCPARAM 38939E4 .0453593 9.14 1273 20 20.806
**********END OF 38939: ConocoPhillips - Zia Hill 25E
INFO***********************************
************************************************************
** 23.49km away. Facility ID=38740 Name=Madera 19 Fed Com 1H 2H 6H CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.022528, -103.410695, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.46tons/year
*****************Facility sources: ******************************
** NMED source ID=38740AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=08-JUL-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38740A1 VOLUME 650090.125 3544036.8 0
SO SRCPARAM 38740A1 .0002898 1 .47 .93
** NMED source ID=38740EQPT1 Facility's ID=HTR-01
** Description=Heater Treater-01 Construction date=08-JUL-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38740E1 VOLUME 650097.661 3544043.821 0
SO SRCPARAM 38740E1 .00126 4.6 .47 .93
** NMED source ID=38740EQPT4 Facility's ID=ENG-02
** Description=VRU Engine Construction date=08-JUL-19
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5448hr/yr, 24hr/day
SO LOCATION 38740E4 POINT 650090.875 3544047.373 0
SO SRCPARAM 38740E4 .0037799 3.51 919.82 62.24 .09
** NMED source ID=38740EQPT33 Facility's ID=ENG-1
** Description=Gas Lift Compressor Construction date=18-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38740E33 POINT 650083.278 3544045.281 0
SO SRCPARAM 38740E33 .0037799 4.51 846.48 25.05 .15
** NMED source ID=38740EQPT34 Facility's ID=ENG-3
** Description=Gas Lift Compressor Construction date=18-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38740E34 POINT 650079.037 3544038.381 0
SO SRCPARAM 38740E34 .0037799 4.51 846.48 25.05 .15
**********END OF 38740: Madera 19 Fed Com 1H 2H 6H CTB
INFO**********************************
************************************************************
** 23.58km away. Facility ID=33016 Name=Big Sinks Draw 25 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5305 NOI
** lat,long,datum=32.101822, -103.738581, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.18tons/year
*****************Facility sources: ******************************
** NMED source ID=33016AREA1 Facility's ID=22
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33016A1 VOLUME 619020.123 3552418.382 0
SO SRCPARAM 33016A1 .0277196 10 20 9.3
** NMED source ID=33016EQPT2 Facility's ID=6
** Description=Heater_EQ000002549 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33016E2 VOLUME 619027.659 3552425.403 0
SO SRCPARAM 33016E2 .0005796 9.14 .47 .93
** NMED source ID=33016EQPT6 Facility's ID=7
** Description=Heater_EQ000002519 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33016E6 VOLUME 619020.873 3552428.955 0
SO SRCPARAM 33016E6 .0005796 9.14 .47 .93
** NMED source ID=33016EQPT8 Facility's ID=23
** Description=Heater_EQ000002531 Construction date=01-JAN-20
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33016E8 VOLUME 619013.276 3552426.863 0
SO SRCPARAM 33016E8 .0005796 9.14 .47 .93
** NMED source ID=33016EQPT16 Facility's ID=30
** Description=LPC_EQ000166150 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33016E16 POINT 619009.035 3552419.963 0
SO SRCPARAM 33016E16 .00252 2.68 922.04 67.27 .08
**********END OF 33016: Big Sinks Draw 25 Battery
INFO**********************************
************************************************************
** 23.58km away. Facility ID=40762 Name=Mule 23 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.121859, -103.751118, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.11tons/year
*****************Facility sources: ****************************
** NMED source ID=40762AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=01-NOV-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40762A1 VOLUME 617811.382 3554625.828 0
SO SRCPARAM 40762A1 .0277196 10 20 9.3
** NMED source ID=40762EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=01-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40762E2 VOLUME 617818.918 3554632.849 0
SO SRCPARAM 40762E2 .0037799 9.14 .47 .93
** NMED source ID=40762EQPT11 Facility's ID=ENG-1
** Description=ENG-1 Combustion Engine Construction date=01-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40762E11 POINT 617812.132 3554636.401 0
SO SRCPARAM 40762E11 .0138598 7.01 809.26 57.36 .3
** NMED source ID=40762EQPT12 Facility's ID=ENG-2
** Description=ENG-2 Combustion Engine Construction date=01-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40762E12 POINT 617804.535 3554634.309 0
SO SRCPARAM 40762E12 .0037799 3.6 813.15 19.72 .17
**********END OF 40762: Mule 23 CTB 1 INFO**********************************
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** 23.61km away. Facility ID=39859 Name=Franklin - Paul Foster CTB
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.082102, -103.324553, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.13tons/year
*****************Facility sources: ******************************
** NMED source ID=39859EQPT1 Facility's ID=GEN-01
** Description=Diesel Generator  1675 hp Construction date=19-FEB-21
** SCC=20100102
** Potential operating rate=480hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39859E1 POINT 658123.64 3550764.371 0
SO SRCPARAM 39859E1 .0692989 5.49 777.59 971.4 .3
SO EMISFACT 39859E1 HROFDY 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
**********END OF 39859: Franklin - Paul Foster CTB
INFO*************************************
************************************************************
** 23.63km away. Facility ID=38796 Name=Ram 3 Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.413757, -103.45107, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.62tons/year
*****************Facility sources: ******************************
** NMED source ID=38796EQPT2 Facility's ID=HT-01
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38796E2 VOLUME 645651.503 3587354.582 0
SO SRCPARAM 38796E2 .00126 4.57 .47 .93
** NMED source ID=38796EQPT3 Facility's ID=HT-02
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38796E3 VOLUME 645659.039 3587361.603 0
SO SRCPARAM 38796E3 .00126 4.57 .47 .93
** NMED source ID=38796EQPT16 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=08-NOV-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E16 POINT 645652.253 3587365.155 0
SO SRCPARAM 38796E16 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38796EQPT17 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=25-SEP-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38796E17 POINT 645644.656 3587363.063 0
SO SRCPARAM 38796E17 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38796EQPT18 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=09-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E18 POINT 645640.415 3587356.163 0
SO SRCPARAM 38796E18 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38796EQPT19 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=09-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E19 POINT 645642.067 3587348.009 0
SO SRCPARAM 38796E19 .0050399 4.11 894.82 36.52 .13
** NMED source ID=38796EQPT20 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=09-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E20 POINT 645649.016 3587343.047 0
SO SRCPARAM 38796E20 .0075599 6.17 695.37 37.61 .25
** NMED source ID=38796EQPT23 Facility's ID=HT-03
** Description=Heater Treater Construction date=17-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E23 VOLUME 645657.699 3587344.189 0
SO SRCPARAM 38796E23 .00126 4.57 .47 .93
** NMED source ID=38796EQPT24 Facility's ID=HT-04
** Description=Heater Treater Construction date=17-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E24 VOLUME 645663.409 3587351.117 0
SO SRCPARAM 38796E24 .00126 4.57 .47 .93
** NMED source ID=38796EQPT38 Facility's ID=HT-05
** Description=Heater Treater Construction date=17-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E38 VOLUME 645662.844 3587360.298 0
SO SRCPARAM 38796E38 .00126 4.57 .47 .93
** NMED source ID=38796EQPT39 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=28-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E39 POINT 645656.009 3587366.776 0
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SO SRCPARAM 38796E39 .0075599 6.17 695.37 37.61 .25
** NMED source ID=38796EQPT40 Facility's ID=ENG-07
** Description=Compressor Engine Construction date=28-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E40 POINT 645646.373 3587366.853 0
SO SRCPARAM 38796E40 .0075599 6.17 695.37 37.61 .25
** NMED source ID=38796EQPT41 Facility's ID=GEN-01
** Description=Generator Engine Construction date=28-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E41 POINT 645639.112 3587360.187 0
SO SRCPARAM 38796E41 .0050399 4.51 930.37 87.13 .09
** NMED source ID=38796EQPT42 Facility's ID=GEN-02
** Description=Generator Engine Construction date=28-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E42 POINT 645638.332 3587350.141 0
SO SRCPARAM 38796E42 .0050399 4.51 840.37 177.38 .09
**********END OF 38796: Ram 3 Battery INFO**********************************
************************************************************
** 23.64km away. Facility ID=40264 Name=E Livingston 31 Fed 6H TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.341106, -103.721932, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40264AREA1 Facility's ID=HR
** Description=Unpaved Roads Construction date=05-JAN-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40264A1 VOLUME 620275.587 3578963.511 0
SO SRCPARAM 40264A1 .0005796 1 .47 .93
** NMED source ID=40264EQPT1 Facility's ID=HT-1
** Description=0.5 MMBTU/hr, Heater Treater Construction date=05-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40264E1 VOLUME 620283.123 3578970.532 0
SO SRCPARAM 40264E1 .0005796 6.1 .47 .93
** NMED source ID=40264EQPT12 Facility's ID=HT-2
** Description=0.5 MMBTU/hr, Heater Treater Construction date=28-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40264E12 VOLUME 620276.337 3578974.084 0
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SO SRCPARAM 40264E12 .0005796 6.1 .47 .93
**********END OF 40264: E Livingston 31 Fed 6H TB
INFO**********************************
************************************************************
** 23.65km away. Facility ID=5127 Name=Exmoor 15 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.134797, -103.758413, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.56tons/year
*****************Facility sources: ****************************
** NMED source ID=5127AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=19-JUN-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5127A1 VOLUME 617106.64 3556052.13 0
SO SRCPARAM 5127A1 .0277196 10 20 9.3
** NMED source ID=5127EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=19-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5127E1 POINT 617114.176 3556059.151 0
SO SRCPARAM 5127E1 .0302395 6.28 873.71 25.31 .41
** NMED source ID=5127EQPT6 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=19-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5127E6 VOLUME 617107.39 3556062.703 0
SO SRCPARAM 5127E6 .0037799 9.14 .47 .93
** NMED source ID=5127EQPT7 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=19-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5127E7 VOLUME 617099.793 3556060.611 0
SO SRCPARAM 5127E7 .0037799 9.14 .47 .93
**********END OF 5127: Exmoor 15 CTB 2 INFO**********************************
************************************************************
** 23.7km away. Facility ID=37912 Name=ConocoPhillips - War Hammer 25 WF1
** Company ID=198 Name=ConocoPhillips Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.015556, -103.624722, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.61tons/year
*****************Facility sources: ****************************
** NMED source ID=37912EQPT1 Facility's ID=ENG1
** Description=690 hp Caterpillar G3508ULB Construction date=04-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=4831hr/yr, 24hr/day
SO LOCATION 37912E1 POINT 629885.925 3542986.545 0
SO SRCPARAM 37912E1 .0075599 7.1 725.93 34.78 .25
** NMED source ID=37912EQPT2 Facility's ID=FL1
** Description=Flare 15 MMscfd Construction date=04-SEP-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5664hr/yr, 24hr/day
SO LOCATION 37912E2 POINT 629893.461 3542993.566 0
SO SRCPARAM 37912E2 .0037799 12.19 1273 20 2.632
** NMED source ID=37912EQPT3 Facility's ID=HT1
** Description=Heater Treater 2.5 MMBtu/hr Construction date=04-SEP-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5208hr/yr, 24hr/day
SO LOCATION 37912E3 VOLUME 629886.675 3542997.118 0
SO SRCPARAM 37912E3 .00252 4.57 .47 .93
** NMED source ID=37912EQPT6 Facility's ID=HT2
** Description=Heater Treater 2.5 MMBtu/hr Construction date=04-SEP-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5208hr/yr, 24hr/day
SO LOCATION 37912E6 VOLUME 629879.078 3542995.026 0
SO SRCPARAM 37912E6 .00252 4.57 .47 .93
** NMED source ID=37912RPNT2 Facility's ID=ROAD
** Description=Haul Road Emissions Construction date=04-SEP-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37912R2 VOLUME 629874.837 3542988.126 0
SO SRCPARAM 37912R2 .0088199 10 10 9.3
**********END OF 37912: ConocoPhillips - War Hammer 25 WF1
INFO************************************
************************************************************
** 23.72km away. Facility ID=35048 Name=Salado Draw Compressor Station
** Company ID=12729 Name=Delaware Basin Midstream, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.037364, -103.670419, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.34tons/year
*****************Facility sources: ******************************
** NMED source ID=35048EQPT13 Facility's ID=CE-1
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7091hr/yr, 24hr/day
SO LOCATION 35048E13 POINT 625540.041 3545350.073 0
SO SRCPARAM 35048E13 .0138598 7.01 805.93 32.31 .41
** NMED source ID=35048EQPT14 Facility's ID=CE-2
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6776hr/yr, 24hr/day
SO LOCATION 35048E14 POINT 625547.577 3545357.094 0
SO SRCPARAM 35048E14 .0138598 7.01 805.93 32.31 .41
** NMED source ID=35048EQPT15 Facility's ID=CE-3
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6817hr/yr, 24hr/day
SO LOCATION 35048E15 POINT 625540.791 3545360.646 0
SO SRCPARAM 35048E15 .0138598 7.01 805.93 32.31 .41
** NMED source ID=35048EQPT16 Facility's ID=CE-4
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7031hr/yr, 24hr/day
SO LOCATION 35048E16 POINT 625533.194 3545358.554 0
SO SRCPARAM 35048E16 .0138598 7.01 761.48 32.31 .41
** NMED source ID=35048EQPT17 Facility's ID=FL-1
** Description=Flare Pilot Construction date=23-NOV-15
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35048E17 POINT 625528.953 3545351.654 0
SO SRCPARAM 35048E17 .0002898 12.19 1273 20 20.806
** NMED source ID=35048EQPT18 Facility's ID=CE-5
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7401hr/yr, 24hr/day
SO LOCATION 35048E18 POINT 625530.605 3545343.5 0
SO SRCPARAM 35048E18 .0138598 7.01 761.48 32.31 .41
** NMED source ID=35048EQPT19 Facility's ID=CE-6
** Description=1380 hp Caterpillar G3516B Construction date=23-NOV-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7594hr/yr, 24hr/day
SO LOCATION 35048E19 POINT 625537.554 3545338.538 0
SO SRCPARAM 35048E19 .0138598 7.01 761.48 32.31 .41
** NMED source ID=35048EQPT20 Facility's ID=CE-7
** Description=1380 hp Caterpillar G3516B Construction date=23-NOV-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8011hr/yr, 24hr/day
SO LOCATION 35048E20 POINT 625546.237 3545339.68 0
SO SRCPARAM 35048E20 .0138598 7.01 805.93 32.31 .41
** NMED source ID=35048EQPT21 Facility's ID=CE-8
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8392hr/yr, 24hr/day
SO LOCATION 35048E21 POINT 625551.947 3545346.608 0
SO SRCPARAM 35048E21 .0138598 7.01 761.48 32.31 .41
** NMED source ID=35048EQPT22 Facility's ID=DHR-1
** Description=Dehydrator Reboiler Construction date=20-JAN-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4622hr/yr, 24hr/day
SO LOCATION 35048E22 POINT 625551.382 3545355.789 0
SO SRCPARAM 35048E22 .00126 6.1 477.59 .98 .46
** NMED source ID=35048EQPT24 Facility's ID=EC-1
** Description=Enclosed Vapor Combustor - Tanks Construction date=31-DEC-15
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8742hr/yr, 24hr/day
SO LOCATION 35048E24 POINT 625544.547 3545362.267 0
SO SRCPARAM 35048E24 .0088199 7.62 922.04 1.97 1.37
** NMED source ID=35048EQPT25 Facility's ID=TO-1
** Description=Thermal Oxidizer Construction date=20-JAN-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5051hr/yr, 24hr/day
SO LOCATION 35048E25 POINT 625534.911 3545362.344 0
SO SRCPARAM 35048E25 .0088199 10.67 1172.04 4.13 1.07
** NMED source ID=35048EQPT29 Facility's ID=SSM-FL1
** Description=Flare for SSM Activities Construction date=07-SEP-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35048E29 POINT 625527.65 3545355.678 0
SO SRCPARAM 35048E29 .0011466 12.19 1273 20 20.806
**********END OF 35048: Salado Draw Compressor Station
INFO************************************
************************************************************
** 23.72km away. Facility ID=40403 Name=Red Hills West Unit #023H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.05045, -103.689887, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.28tons/year
*****************Facility sources: ******************************
** NMED source ID=40403EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=23-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E1 POINT 623684.113 3546778.266 0
SO SRCPARAM 40403E1 .0075599 6.17 695.37 37.61 .25
** NMED source ID=40403EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=23-OCT-22
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E2 POINT 623691.649 3546785.287 0
SO SRCPARAM 40403E2 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40403EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=23-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E3 POINT 623684.863 3546788.839 0
SO SRCPARAM 40403E3 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40403EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=23-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E4 POINT 623677.266 3546786.747 0
SO SRCPARAM 40403E4 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40403EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=23-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E5 POINT 623673.025 3546779.847 0
SO SRCPARAM 40403E5 .0050399 4.11 894.82 36.52 .13
** NMED source ID=40403EQPT6 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=21-MAY-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E6 POINT 623674.677 3546771.693 0
SO SRCPARAM 40403E6 .00252 6.61 499.82 11.19 .3
** NMED source ID=40403EQPT10 Facility's ID=HT-01
** Description=Heater Treater Construction date=23-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E10 POINT 623681.626 3546766.731 0
SO SRCPARAM 40403E10 .00126 4.57 533.15 3.96 .46
** NMED source ID=40403EQPT11 Facility's ID=HT-02
** Description=Heater Treater Construction date=23-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E11 POINT 623690.309 3546767.873 0
SO SRCPARAM 40403E11 .00126 4.57 533.15 3.93 .46
** NMED source ID=40403EQPT12 Facility's ID=HT-03
** Description=Heater Treater Construction date=23-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E12 POINT 623696.019 3546774.801 0
SO SRCPARAM 40403E12 .00126 4.57 533.15 3.93 .46
** NMED source ID=40403EQPT13 Facility's ID=HT-04
** Description=Heater Treater Construction date=23-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E13 POINT 623695.454 3546783.982 0
SO SRCPARAM 40403E13 .00126 4.57 533.15 3.93 .46
**********END OF 40403: Red Hills West Unit #023H Battery
INFO**********************************
************************************************************
** 23.73km away. Facility ID=38744 Name=Moon Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.0929, -103.7339, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.46tons/year
*****************Facility sources: ****************************
** NMED source ID=38744EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8238hr/yr, 24hr/day
SO LOCATION 38744E1 POINT 619473.442 3551434.503 0
SO SRCPARAM 38744E1 .0113398 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT4 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7814hr/yr, 24hr/day
SO LOCATION 38744E4 POINT 619480.978 3551441.524 0
SO SRCPARAM 38744E4 .0113398 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT5 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7896hr/yr, 24hr/day
SO LOCATION 38744E5 POINT 619474.192 3551445.076 0
SO SRCPARAM 38744E5 .0113398 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT6 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7968hr/yr, 24hr/day
SO LOCATION 38744E6 POINT 619466.595 3551442.984 0
SO SRCPARAM 38744E6 .0113398 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT7 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8234hr/yr, 24hr/day
SO LOCATION 38744E7 POINT 619462.354 3551436.084 0
SO SRCPARAM 38744E7 .0113398 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT8 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8446hr/yr, 24hr/day
SO LOCATION 38744E8 POINT 619464.006 3551427.93 0
SO SRCPARAM 38744E8 .0113398 7.32 806.48 37.76 .38
**********END OF 38744: Moon Compressor Station
INFO**********************************
************************************************************
** 23.74km away. Facility ID=40306 Name=El Campeon CTB 30
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.018875, -103.413464, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.03tons/year
*****************Facility sources: ******************************
** NMED source ID=40306AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=12-JUL-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306A1 VOLUME 649834.546 3543627.978 0
SO SRCPARAM 40306A1 .0340195 10 30 9.3
** NMED source ID=40306EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3306TA 203 hp engine Construction date=28-JAN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E1 POINT 649842.082 3543634.999 0
SO SRCPARAM 40306E1 .0037799 4.57 853.15 36.27 .15
** NMED source ID=40306EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3306TA 203 hp engine Construction date=28-JAN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E2 POINT 649835.296 3543638.551 0
SO SRCPARAM 40306E2 .0037799 4.57 853.15 36.27 .15
** NMED source ID=40306EQPT3 Facility's ID=ENG-3
** Description=Caterpillar G3306TA 203 hp engine Construction date=28-JAN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E3 POINT 649827.699 3543636.459 0
SO SRCPARAM 40306E3 .0037799 4.57 853.15 36.27 .15
** NMED source ID=40306EQPT4 Facility's ID=ENG-4
** Description=Caterpillar G3306TA 203 hp engine Construction date=28-JAN-22
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E4 POINT 649823.458 3543629.559 0
SO SRCPARAM 40306E4 .0037799 4.57 853.15 36.27 .15
** NMED source ID=40306EQPT5 Facility's ID=HT-1
** Description=0.75 MMbtu/h Heater Treater Construction date=28-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E5 VOLUME 649825.11 3543621.405 0
SO SRCPARAM 40306E5 .00126 4.57 .47 .93
** NMED source ID=40306EQPT6 Facility's ID=HT-2
** Description=0.75 MMbtu/h Heater Treater Construction date=28-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E6 VOLUME 649832.059 3543616.443 0
SO SRCPARAM 40306E6 .00126 4.57 .47 .93
** NMED source ID=40306EQPT7 Facility's ID=HT-3
** Description=0.75 MMbtu/h Heater Treater Construction date=28-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E7 VOLUME 649840.742 3543617.585 0
SO SRCPARAM 40306E7 .00126 4.57 .47 .93
** NMED source ID=40306EQPT8 Facility's ID=HT-4
** Description=0.75 MMbtu/h Heater Treater Construction date=28-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E8 VOLUME 649846.452 3543624.513 0
SO SRCPARAM 40306E8 .00126 4.57 .47 .93
** NMED source ID=40306EQPT23 Facility's ID=GEN-1
** Description=Generator Construction date=12-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E23 POINT 649845.887 3543633.694 0
SO SRCPARAM 40306E23 .0088199 4.57 1005.37 49.01 .15
** NMED source ID=40306EQPT24 Facility's ID=GEN-2
** Description=Generator Construction date=12-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E24 POINT 649839.052 3543640.172 0
SO SRCPARAM 40306E24 .0088199 4.57 1005.37 49.01 .15
** NMED source ID=40306EQPT25 Facility's ID=GEN-3
** Description=Generator Construction date=12-JUL-23
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E25 POINT 649829.416 3543640.249 0
SO SRCPARAM 40306E25 .0088199 4.57 1005.37 49.01 .15
** NMED source ID=40306EQPT26 Facility's ID=GEN-4
** Description=Generator Construction date=12-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40306E26 POINT 649822.155 3543633.583 0
SO SRCPARAM 40306E26 .0088199 4.57 1005.37 49.01 .15
**********END OF 40306: El Campeon CTB 30 INFO************************************
************************************************************
** 23.76km away. Facility ID=38506 Name=Tomb Raider 1 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.339961, -103.724672, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.46tons/year
*****************Facility sources: ****************************
** NMED source ID=38506EQPT3 Facility's ID=ENG-1
** Description=Caterpillar CG137-8 400 hp Construction date=09-JUL-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38506E3 POINT 620019.227 3578833.502 0
SO SRCPARAM 38506E3 .0075599 4.39 778.71 15 .26
** NMED source ID=38506EQPT7 Facility's ID=HT-1
** Description=Heater Treater 1, 1.0 mm btu/h Construction date=19-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E7 VOLUME 620026.763 3578840.523 0
SO SRCPARAM 38506E7 .00126 9.14 .47 .93
** NMED source ID=38506EQPT8 Facility's ID=HT-2
** Description=Heater Treater 2, 1.0 mm btu/h Construction date=19-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E8 VOLUME 620019.977 3578844.075 0
SO SRCPARAM 38506E8 .00126 9.14 .47 .93
** NMED source ID=38506EQPT9 Facility's ID=HT-3
** Description=Heater Treater 3, 1.0 mm btu/h Construction date=19-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E9 VOLUME 620012.38 3578841.983 0
SO SRCPARAM 38506E9 .00126 9.14 .47 .93
** NMED source ID=38506EQPT10 Facility's ID=HT-4
** Description=Heater Treater 4, 1.0 mm btu/h Construction date=19-JUL-18
** SCC=31000404
```

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E10 VOLUME 620008.139 3578835.083 0
SO SRCPARAM 38506E10 .0011466 9.14 .47 .93
** NMED source ID=38506EQPT11 Facility's ID=HT-5
** Description=Heater Treater 5, 1.0 mm btu/h Construction date=19-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E11 VOLUME 620009.791 3578826.929 0
SO SRCPARAM 38506E11 .00126 9.14 .47 .93
** NMED source ID=38506EQPT12 Facility's ID=HT-6
** Description=Heater Treater 6, 1.0 mm btu/h Construction date=09-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E12 VOLUME 620016.74 3578821.967 0
SO SRCPARAM 38506E12 .00126 9.14 .47 .93
** NMED source ID=38506EQPT14 Facility's ID=LPC-1
** Description=Cummins G855 (LPC), 188 hp Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38506E14 POINT 620025.423 3578823.109 0
SO SRCPARAM 38506E14 .0037799 3.51 919.82 51.44 .21
** NMED source ID=38506EQPT15 Facility's ID=LPC-2
** Description=Cummins G855 (LPC), 188 hp Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38506E15 POINT 620031.133 3578830.037 0
SO SRCPARAM 38506E15 .0037799 3.51 919.82 51.44 .21
** NMED source ID=38506EQPT16 Facility's ID=LPC-3
** Description=GM Vortex 5.7L (LPC), 92 hp Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38506E16 POINT 620030.568 3578839.218 0
SO SRCPARAM 38506E16 .00126 3.51 922.04 89.62 .21
** NMED source ID=38506EQPT17 Facility's ID=LPC-4
** Description=GM Vortex 5.7L (LPC), 92 hp Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38506E17 POINT 620023.733 3578845.696 0
SO SRCPARAM 38506E17 .00126 3.51 922.04 89.62 .21
** NMED source ID=38506EQPT20 Facility's ID=ENG-2
** Description=Caterpillar CG137-8 400 hp
 Construction date=19-JUL-18
** SCC=20200253
```

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38506E20 POINT 620014.097 3578845.773 0
SO SRCPARAM 38506E20 .0075599 4.39 778.71 15 .26
** NMED source ID=38506RPNT1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=19-JUL-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506R1 VOLUME 620006.836 3578839.107 0
SO SRCPARAM 38506R1 .0302395 10 30 9.3
**********END OF 38506: Tomb Raider 1 CTB 3
INFO**********************************
************************************************************
** 23.81km away. Facility ID=39793 Name=Devon - Galapagos 14 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.308785, -103.748574, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.63tons/year
*****************Facility sources: ******************************
** NMED source ID=39793AREA1 Facility's ID=ROAD-1
** Description=Unpaved Haul Roads Construction date=18-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793A1 VOLUME 617810.06 3575350.806 0
SO SRCPARAM 39793A1 .0277196 10 20 9.3
** NMED source ID=39793EQPT3 Facility's ID=GEN-1
** Description=Generator 1 (550 hp) 4SRB Construction date=18-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E3 POINT 617817.596 3575357.827 0
SO SRCPARAM 39793E3 .0100798 3.51 1005.37 215.22 .09
** NMED source ID=39793EQPT4 Facility's ID=GEN-2
** Description=Generator 1 (550 hp) 4SRB Construction date=18-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E4 POINT 617810.81 3575361.379 0
SO SRCPARAM 39793E4 .0100798 3.51 1005.37 215.22 .09
** NMED source ID=39793EQPT5 Facility's ID=HT-1
** Description=Heater Treater (3 MM BTU/hr) Construction date=18-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E5 VOLUME 617803.213 3575359.287 0
SO SRCPARAM 39793E5 .0037799 9.14 .47 .93
** NMED source ID=39793EQPT6 Facility's ID=HT-2
** Description=Heater Treater (3 MM BTU/hr) Construction date=18-DEC-20
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E6 VOLUME 617798.972 3575352.387 0
SO SRCPARAM 39793E6 .0037799 9.14 .47 .93
** NMED source ID=39793EQPT7 Facility's ID=LPC-1
** Description=Low Pressure Compressor (188 hp) Construction date=18-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E7 POINT 617800.624 3575344.233 0
SO SRCPARAM 39793E7 .0037799 3.51 919.82 51.42 .1
** NMED source ID=39793EQPT8 Facility's ID=LPC-2
** Description=Low Pressure Compressor (188 hp) Construction date=18-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E8 POINT 617807.573 3575339.271 0
SO SRCPARAM 39793E8 .0037799 3.51 919.82 51.42 .1
** NMED source ID=39793EQPT9 Facility's ID=LPC-3
** Description=Low Pressure Compressor (188 hp) Construction date=18-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E9 POINT 617816.256 3575340.413 0
SO SRCPARAM 39793E9 .0037799 3.51 919.82 51.42 .1
**********END OF 39793: Devon - Galapagos 14 CTB 2
INFO**********************************
************************************************************
** 23.82km away. Facility ID=31536 Name=Kiehne Ranch 15-26-32 USA 1H
** Company ID=14099 Name=Chevron USA Inc. - Houston
** SIC=1311 NAIC=21112    Permit=4794 NOI
** lat,long,datum=32.03572, -103.66963, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=31536EQPT8 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31536E8 VOLUME 625616.79 3545168.743 0
SO SRCPARAM 31536E8 .0005796 3.05 .47 .93
**********END OF 31536: Kiehne Ranch 15-26-32 USA 1H
INFO**********************************
************************************************************
** 23.82km away. Facility ID=40298 Name=El Campeon CTB 20
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.02862, -103.390899, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.5tons/year
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*****************Facility sources: ****************************
** NMED source ID=40298AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=22-SEP-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298A1 VOLUME 651949.766 3544739.851 0
SO SRCPARAM 40298A1 .0453593 10 40 9.3
** NMED source ID=40298EQPT5 Facility's ID=HT-1
** Description=2.0 MMbtu/h Heater Treater Construction date=28-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298E5 VOLUME 651957.302 3544746.872 0
SO SRCPARAM 40298E5 .00252 4.57 .47 .93
** NMED source ID=40298EQPT7 Facility's ID=HT-3
** Description=0.75 MMbtu/h Heater Treater Construction date=28-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298E7 VOLUME 651950.516 3544750.424 0
SO SRCPARAM 40298E7 .00126 4.57 .47 .93
** NMED source ID=40298EQPT25 Facility's ID=GEN-1
** Description=Generator Engine Construction date=22-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298E25 POINT 651942.919 3544748.332 0
SO SRCPARAM 40298E25 .0088199 4.57 1005.37 49.04 .15
** NMED source ID=40298EQPT26 Facility's ID=GEN-2
** Description=Generator Engine Construction date=22-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298E26 POINT 651938.678 3544741.432 0
SO SRCPARAM 40298E26 .0088199 4.57 1005.37 49.04 .15
** NMED source ID=40298EQPT27 Facility's ID=GEN-3
** Description=Generator Engine Construction date=22-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298E27 POINT 651940.33 3544733.278 0
SO SRCPARAM 40298E27 .0088199 4.57 1005.37 49.04 .15
** NMED source ID=40298EQPT28 Facility's ID=GEN-4
** Description=Generator Engine Construction date=22-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298E28 POINT 651947.279 3544728.316 0
SO SRCPARAM 40298E28 .0088199 4.57 1005.37 49.04 .15
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** NMED source ID=40298EQPT29 Facility's ID=HT-2A
** Description=2.0 MMbtu/h Heater Treater Construction date=22-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40298E29 VOLUME 651955.962 3544729.458 0
SO SRCPARAM 40298E29 .00252 4.57 .47 .93
**********END OF 40298: El Campeon CTB 20 INFO**********************************
************************************************************
** 23.84km away. Facility ID=39205 Name=Mewbourne - Armstrong 26 25 W1IP Fed Com 1H
Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.101567, -103.741636, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.68tons/year
*****************Facility sources: ******************************
** NMED source ID=39205EQPT1 Facility's ID=ENG-01
** Description=202 HP Compressor Engine (Caterpillar 3306TA) Construction
date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39205E1 POINT 618732.181 3552386.744 0
SO SRCPARAM 39205E1 .0037799 4.57 834.82 25.24 .15
** NMED source ID=39205EQPT2 Facility's ID=ENG-02
** Description=202 HP Compressor Engine (Caterpillar 3306TA) Construction
date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39205E2 POINT 618739.717 3552393.765 0
SO SRCPARAM 39205E2 .0037799 4.57 834.82 25.24 .15
** NMED source ID=39205EQPT7 Facility's ID=HT-01
** Description=0.75 MMBtu/hr Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39205E7 VOLUME 618732.931 3552397.317 0
SO SRCPARAM 39205E7 .00126 4.57 .47 .93
** NMED source ID=39205EQPT8 Facility's ID=HT-02
** Description=0.75 MMBtu/hr Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39205E8 VOLUME 618725.334 3552395.225 0
SO SRCPARAM 39205E8 .00126 4.57 .47 .93
** NMED source ID=39205EQPT9 Facility's ID=HT-03
** Description=1.5 MMBtu/hr Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39205E9 VOLUME 618721.093 3552388.325 0
SO SRCPARAM 39205E9 .00126 4.57 .47 .93
** NMED source ID=39205EQPT25 Facility's ID=ENG-03
** Description=690 HP Compressor Engine Construction date=09-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39205E25 POINT 618722.745 3552380.171 0
SO SRCPARAM 39205E25 .0062999 5.49 694.82 25.77 .3
** NMED source ID=39205EQPT27 Facility's ID=HT-04
** Description=1.5 MMBtu/hr Heater Treater Construction date=09-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39205E27 VOLUME 618729.694 3552375.209 0
SO SRCPARAM 39205E27 .00126 4.57 .47 .93
**********END OF 39205: Mewbourne - Armstrong 26 25 W1IP Fed Com 1H Battery
INFO**********************************
************************************************************
** 23.86km away. Facility ID=40190 Name=Squeeze 2 State Com Battery
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.414301, -103.445185, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=40190AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road 1 Construction date=08-MAR-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40190A1 VOLUME 646204.072 3587422.931 0
SO SRCPARAM 40190A1 .0100798 10 10 9.3
** NMED source ID=40190EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 MMBtu/hr Construction date=27-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40190E1 VOLUME 646211.608 3587429.952 0
SO SRCPARAM 40190E1 .00126 7.62 .47 .93
**********END OF 40190: Squeeze 2 State Com Battery
INFO**********************************
************************************************************
** 23.93km away. Facility ID=39861 Name=Red Hills West 22 Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=9090 NOI
** lat,long,datum=32.034905, -103.670274, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.09tons/year
*****************Facility sources: ******************************
** NMED source ID=39861AREA1 Facility's ID=HR-01
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** Description=Haul Road Emissions Construction date=11-JAN-24
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39861A1 VOLUME 625557.09 3545077.646 0
SO SRCPARAM 39861A1 .0088199 10 10 9.3
** NMED source ID=39861EQPT3 Facility's ID=HT-01
** Description=Heater Treater Construction date=11-JAN-24
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39861E3 VOLUME 625564.626 3545084.667 0
SO SRCPARAM 39861E3 .00126 4.57 .47 .93
** NMED source ID=39861EQPT4 Facility's ID=HT-02
** Description=Heater Treater Construction date=11-JAN-24
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39861E4 VOLUME 625557.84 3545088.219 0
SO SRCPARAM 39861E4 .00126 4.57 .47 .93
** NMED source ID=39861EQPT5 Facility's ID=HT-03
** Description=Heater Treater Construction date=11-JAN-24
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39861E5 VOLUME 625550.243 3545086.127 0
SO SRCPARAM 39861E5 .00126 4.57 .47 .93
**********END OF 39861: Red Hills West 22 Fed Com 1H Battery
INFO**********************************
************************************************************
** 23.93km away. Facility ID=38056 Name=Wildcat Compressor Station
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=7474 Title V
** lat,long,datum=32.201944, -103.777778, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=16.34tons/year
*****************Facility sources: ******************************
** NMED source ID=38056EQPT5 Facility's ID=ENG1
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8476hr/yr, 24hr/day
SO LOCATION 38056E5 POINT 615195.456 3563474.912 0
SO SRCPARAM 38056E5 .0297305 7.62 704.82 90.17 .46
** NMED source ID=38056EQPT6 Facility's ID=ENG2
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8045hr/yr, 24hr/day
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SO LOCATION 38056E6 POINT 615202.992 3563481.933 0
SO SRCPARAM 38056E6 .0313231 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT7 Facility's ID=ENG3
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8432hr/yr, 24hr/day
SO LOCATION 38056E7 POINT 615196.206 3563485.485 0
SO SRCPARAM 38056E7 .0298855 7.62 704.82 90.17 .46
** NMED source ID=38056EQPT8 Facility's ID=ENG4
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7003hr/yr, 24hr/day
SO LOCATION 38056E8 POINT 615188.609 3563483.393 0
SO SRCPARAM 38056E8 .0503992 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT9 Facility's ID=ENG5
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6682hr/yr, 24hr/day
SO LOCATION 38056E9 POINT 615184.368 3563476.493 0
SO SRCPARAM 38056E9 .0503992 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT10 Facility's ID=ENG6
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7009hr/yr, 24hr/day
SO LOCATION 38056E10 POINT 615186.02 3563468.339 0
SO SRCPARAM 38056E10 .0503992 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT11 Facility's ID=ENG7
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38056E11 POINT 615192.969 3563463.377 0
SO SRCPARAM 38056E11 .0503992 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT12 Facility's ID=ENG8
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38056E12 POINT 615201.652 3563464.519 0
SO SRCPARAM 38056E12 .0503992 7.62 704.82 90.2 .46
```

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** NMED source ID=38056EQPT21 Facility's ID=ENG9
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38056E21 POINT 615207.362 3563471.447 0
SO SRCPARAM 38056E21 .0503992 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT23 Facility's ID=ENG11
** Description=Caterpillar 3516TA Natural Gas Engine-1380hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4693hr/yr, 24hr/day
SO LOCATION 38056E23 POINT 615206.797 3563480.628 0
SO SRCPARAM 38056E23 .014389 6.1 809.26 59.28 .3
** NMED source ID=38056EQPT24 Facility's ID=ENG12
** Description=Caterpillar 3516TA Natural Gas Engine-1380hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5475hr/yr, 24hr/day
SO LOCATION 38056E24 POINT 615199.962 3563487.106 0
SO SRCPARAM 38056E24 .014389 6.1 809.26 59.28 .3
** NMED source ID=38056EQPT35 Facility's ID=HTR1
** Description=Fuel Line Heater-0.75 MMBtu/hr Construction date=10-SEP-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38056E35 POINT 615190.326 3563487.183 0
SO SRCPARAM 38056E35 .0011466 4.57 699.82 1.96 .23
**********END OF 38056: Wildcat Compressor Station
INFO************************************
************************************************************
** 23.96km away. Facility ID=40119 Name=Red Hills West 22 W0AP Fed Com No2H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.033583, -103.668553, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.99tons/year
*****************Facility sources: ******************************
** NMED source ID=40119EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine (Caterpillar G3306TA) Construction date=02-SEP-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E1 POINT 625721.412 3544933.096 0
SO SRCPARAM 40119E1 .0037799 4.11 834.82 35.72 .13
** NMED source ID=40119EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine (Caterpillar G3306TA) Construction date=02-SEP-21
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E2 POINT 625728.948 3544940.117 0
SO SRCPARAM 40119E2 .0037799 4.11 834.82 35.72 .13
** NMED source ID=40119EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine (Caterpillar G3516J) Construction date=02-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E3 POINT 625722.162 3544943.669 0
SO SRCPARAM 40119E3 .0138598 6.27 774.82 50.87 .3
** NMED source ID=40119EQPT7 Facility's ID=HT-1
** Description=Heater Treater Construction date=02-SEP-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E7 VOLUME 625714.565 3544941.577 0
SO SRCPARAM 40119E7 .00126 4.57 .47 .93
** NMED source ID=40119EQPT8 Facility's ID=HT-2
** Description=Heater Treater Construction date=02-SEP-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E8 VOLUME 625710.324 3544934.677 0
SO SRCPARAM 40119E8 .00126 4.57 .47 .93
** NMED source ID=40119EQPT11 Facility's ID=HT-3
** Description=Heater Treater Construction date=15-SEP-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E11 VOLUME 625711.976 3544926.523 0
SO SRCPARAM 40119E11 .00126 4.57 .47 .93
** NMED source ID=40119EQPT12 Facility's ID=HT-4
** Description=Heater Treater Construction date=02-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E12 VOLUME 625718.925 3544921.561 0
SO SRCPARAM 40119E12 .00126 4.57 .47 .93
** NMED source ID=40119EQPT13 Facility's ID=HT-5
** Description=Heater Treater Construction date=02-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E13 VOLUME 625727.608 3544922.703 0
SO SRCPARAM 40119E13 .00126 4.57 .47 .93
**********END OF 40119: Red Hills West 22 W0AP Fed Com No2H Battery
INFO**********************************
************************************************************
** 23.99km away. Facility ID=40035 Name=Tenderloin Federal 1 B CTB
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** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9257 NOI
** lat,long,datum=32.42602, -103.52262, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.81tons/year
*****************Facility sources: ****************************
** NMED source ID=40035AREA2 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=02-MAR-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40035A2 VOLUME 638903.944 3588618.85 0
SO SRCPARAM 40035A2 .0005796 1 .47 .93
** NMED source ID=40035EQPT4 Facility's ID=ENG-01
** Description=Compressor engine Construction date=29-OCT-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40035E4 POINT 638911.48 3588625.871 0
SO SRCPARAM 40035E4 .0075599 5.49 1000.37 50.23 .15
** NMED source ID=40035EQPT5 Facility's ID=ENG-02
** Description=Compressor engine Construction date=29-OCT-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40035E5 POINT 638904.694 3588629.423 0
SO SRCPARAM 40035E5 .0075599 5.49 1000.37 50.23 .15
** NMED source ID=40035EQPT6 Facility's ID=ENG-03
** Description=Compressor engine Construction date=29-OCT-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40035E6 POINT 638897.097 3588627.331 0
SO SRCPARAM 40035E6 .0075599 5.49 1000.37 50.23 .15
** NMED source ID=40035EQPT9 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=29-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40035E9 VOLUME 638892.856 3588620.431 0
SO SRCPARAM 40035E9 .00126 6.71 .47 .93
**********END OF 40035: Tenderloin Federal 1 B CTB
INFO************************************
************************************************************
** 24.01km away. Facility ID=40506 Name=Belloq 11 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.31475, -103.74722, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.46tons/year
*****************Facility sources: ****************************
** NMED source ID=40506ACT 1 Facility's ID=ROAD-1
```

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** Description=Unpaved Haul Roads Construction date=01-JUL-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40506@1 VOLUME 617929.805 3576013.571 0
SO SRCPARAM 40506@1 .0277196 10 20 9.3
** NMED source ID=40506EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=01-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40506E2 VOLUME 617937.341 3576020.592 0
SO SRCPARAM 40506E2 .0037799 9.14 .47 .93
** NMED source ID=40506EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=01-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40506E3 VOLUME 617930.555 3576024.144 0
SO SRCPARAM 40506E3 .0037799 9.14 .47 .93
**********END OF 40506: Belloq 11 CTB 2 INFO**********************************
************************************************************
** 24.03km away. Facility ID=38508 Name=OXY - North Corridor East Central Gas Lift
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.264425, -103.770981, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.2tons/year
*****************Facility sources: ****************************
** NMED source ID=38508EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine G3516B Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7693hr/yr, 24hr/day
SO LOCATION 38508E1 POINT 615756.864 3570408.712 0
SO SRCPARAM 38508E1 .0125998 4.57 816.48 26.27 .46
** NMED source ID=38508EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine G3516B Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7687hr/yr, 24hr/day
SO LOCATION 38508E2 POINT 615764.4 3570415.733 0
SO SRCPARAM 38508E2 .0125998 4.57 816.48 26.27 .46
** NMED source ID=38508EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine G3516B Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7701hr/yr, 24hr/day
SO LOCATION 38508E3 POINT 615757.614 3570419.285 0
SO SRCPARAM 38508E3 .0125998 4.57 816.48 26.27 .46
** NMED source ID=38508EQPT4 Facility's ID=ENG-4
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** Description=Compressor Engine G3516B Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7665hr/yr, 24hr/day
SO LOCATION 38508E4 POINT 615750.017 3570417.193 0
SO SRCPARAM 38508E4 .0125998 4.57 816.48 26.27 .46
** NMED source ID=38508EQPT7 Facility's ID=REB-1
** Description=Glycol Dehydrator Reboiler Construction date=19-JUL-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38508E7 POINT 615745.776 3570410.293 0
SO SRCPARAM 38508E7 .00126 3.05 533.15 .12 .24
** NMED source ID=38508EQPT9 Facility's ID=ENG-5
** Description=Compressor Engine G3516B Construction date=01-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38508E9 POINT 615747.428 3570402.139 0
SO SRCPARAM 38508E9 .0125998 4.57 816.48 26.27 .46
** NMED source ID=38508RPNT2 Facility's ID=ROAD
** Description=Road Emissions Construction date=19-JUL-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38508R2 VOLUME 615754.377 3570397.177 0
SO SRCPARAM 38508R2 .0002898 1 .47 .93
** NMED source ID=38508RPNT5 Facility's ID=SSM
** Description=Startup, Shutdown, and Maintenance Construction date=11-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38508R5 VOLUME 615763.06 3570398.319 0
SO SRCPARAM 38508R5 .0002898 1 .47 .93
**********END OF 38508: OXY - North Corridor East Central Gas Lift
INFO**********************************
************************************************************
** 24.04km away. Facility ID=39691 Name=AO6 Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.415813, -103.603433, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.35tons/year
*****************Facility sources: ****************************
** NMED source ID=39691EQPT1 Facility's ID=ENG-1
** Description=Ajax DPC 2802LE 301 hp engine Construction date=16-OCT-20
** SCC=20200252
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8008hr/yr, 24hr/day
SO LOCATION 39691E1 POINT 631319.996 3587385.051 0
SO SRCPARAM 39691E1 .0062999 6.61 588.71 16.5 .34
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** NMED source ID=39691EQPT16 Facility's ID=HT-1
** Description=1.0 MMBtu/h Heater Treater Construction date=30-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39691E16 POINT 631327.532 3587392.072 0
SO SRCPARAM 39691E16 .00126 6.1 644.26 2.09 .2
** NMED source ID=39691RPNT3 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=16-OCT-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39691R3 VOLUME 631320.746 3587395.624 0
SO SRCPARAM 39691R3 .0088199 10 10 9.3
**********END OF 39691: AO6 Battery INFO**********************************
************************************************************
** 24.05km away. Facility ID=32643 Name=Cotton Draw Unit 15 Fed Com 2 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5158 NOI
** lat,long,datum=32.136778, -103.763778, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=32643AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32643A1 VOLUME 616598.057 3556265.915 0
SO SRCPARAM 32643A1 .0277196 10 20 9.3
** NMED source ID=32643EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1_EQ000063765 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32643E1 VOLUME 616605.593 3556272.936 0
SO SRCPARAM 32643E1 .0005796 9.14 .47 .93
**********END OF 32643: Cotton Draw Unit 15 Fed Com 2 Battery
INFO**********************************
************************************************************
** 24.15km away. Facility ID=40838 Name=Belloq 11 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9829 NOI
** lat,long,datum=32.312163, -103.750552, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.37tons/year
*****************Facility sources: ******************************
** NMED source ID=40838EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=12-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40838E1 POINT 617619.471 3575723.116 0
SO SRCPARAM 40838E1 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40838EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=12-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40838E2 POINT 617627.007 3575730.137 0
SO SRCPARAM 40838E2 .0062999 5.85 772.59 21.02 .27
**********END OF 40838: Belloq 11 Wellpad 1
INFO**********************************
************************************************************
** 24.23km away. Facility ID=32209 Name=XTO - PLU No411 Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.192768, -103.780229, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.64tons/year
*****************Facility sources: ******************************
** NMED source ID=32209AREA1 Facility's ID=ROAD
** Description=Road Emissions Construction date=21-AUG-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3hr/yr, 24hr/day
SO LOCATION 32209A1 VOLUME 614975.973 3562455.066 0
SO SRCPARAM 32209A1 .0037799 1 .47 .93
** NMED source ID=32209EQPT1 Facility's ID=AUXH1
** Description=0.5 MMBttu/hr Heater Treater Construction date=21-AUG-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32209E1 POINT 614983.509 3562462.087 0
SO SRCPARAM 32209E1 .0005796 6.1 810.93 1.34 .3
** NMED source ID=32209EQPT2 Facility's ID=AUXH2
** Description=0.5 MMBttu/hr Heater Treater Construction date=21-AUG-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32209E2 POINT 614976.723 3562465.639 0
SO SRCPARAM 32209E2 .0005796 6.1 810.93 1.34 .3
** NMED source ID=32209EQPT21 Facility's ID=HPF
** Description=5 MMscfd High Pressure Flare-SSM Construction date=21-AUG-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32209E21 POINT 614969.126 3562463.547 0
SO SRCPARAM 32209E21 .0057581 6.1 1273 20 20.806
** NMED source ID=32209EQPT22 Facility's ID=LPF
** Description=1 MMscfd Low Pressure Flare Construction date=21-AUG-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32209E22 POINT 614964.885 3562456.647 0
SO SRCPARAM 32209E22 .00126 6.1 1273 20 2.632
**********END OF 32209: XTO - PLU No411 Battery
INFO**********************************
************************************************************
** 24.26km away. Facility ID=39823 Name=Dark Horse Treating Facility
** Company ID=13928 Name=Pinon Midstream LLC
** SIC=4932 NAIC=22121    Permit=9058 NSR
** lat,long,datum=32.120112, -103.289663, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=3.4tons/year
*****************Facility sources: ****************************
** NMED source ID=39823EQPT1 Facility's ID=C-1200
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=28-DEC-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E1 POINT 661350.011 3555030.08 0
SO SRCPARAM 39823E1 .0251996 9.6 718.15 26 .61
** NMED source ID=39823EQPT10 Facility's ID=C-1210
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=28-DEC-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E10 POINT 661357.547 3555037.101 0
SO SRCPARAM 39823E10 .0251996 9.6 718.15 26 .61
** NMED source ID=39823EQPT11 Facility's ID=C-1220
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=28-DEC-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E11 POINT 661350.761 3555040.653 0
SO SRCPARAM 39823E11 .0251996 9.6 718.15 26 .61
** NMED source ID=39823EQPT12 Facility's ID=C-1230
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=28-DEC-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E12 POINT 661343.164 3555038.561 0
SO SRCPARAM 39823E12 .0251996 9.6 718.15 26 .61
** NMED source ID=39823RPNT4 Facility's ID=HAUL
** Description=Condensate and NGL Truck Haul Construction date=28-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823R4 VOLUME 661338.923 3555031.661 0
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SO SRCPARAM 39823R4 .0163797 10 10 9.3
**********END OF 39823: Dark Horse Treating Facility
INFO**********************************
************************************************************
** 24.26km away. Facility ID=39663 Name=Coltrane-Bebop and Big Sinks 1 12 W1BO Fed
Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.078278, -103.728501, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=2.53tons/year
*****************Facility sources: ******************************
** NMED source ID=39663AREA1 Facility's ID=HR-02
** Description=Haul Road Emissions Construction date=01-FEB-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663A1 VOLUME 620002.057 3549819.563 0
SO SRCPARAM 39663A1 .0088199 10 10 9.3
** NMED source ID=39663AREA2 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=13-JUL-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663A2 VOLUME 620009.593 3549826.584 0
SO SRCPARAM 39663A2 .0088199 10 10 9.3
** NMED source ID=39663EQPT7 Facility's ID=HT-01
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E7 VOLUME 620002.807 3549830.136 0
SO SRCPARAM 39663E7 .00126 4.57 .47 .93
** NMED source ID=39663EQPT8 Facility's ID=HT-02
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E8 VOLUME 619995.21 3549828.044 0
SO SRCPARAM 39663E8 .00252 4.57 .47 .93
** NMED source ID=39663EQPT9 Facility's ID=HT-03
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E9 VOLUME 619990.969 3549821.144 0
SO SRCPARAM 39663E9 .00126 4.57 .47 .93
** NMED source ID=39663EQPT10 Facility's ID=HT-04
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E10 VOLUME 619992.621 3549812.99 0
SO SRCPARAM 39663E10 .00126 4.57 .47 .93
** NMED source ID=39663EQPT11 Facility's ID=HT-05
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E11 VOLUME 619999.57 3549808.028 0
SO SRCPARAM 39663E11 .00126 4.57 .47 .93
** NMED source ID=39663EQPT12 Facility's ID=HT-06
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E12 VOLUME 620008.253 3549809.17 0
SO SRCPARAM 39663E12 .00252 4.57 .47 .93
** NMED source ID=39663EQPT13 Facility's ID=HT-07
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E13 VOLUME 620013.963 3549816.098 0
SO SRCPARAM 39663E13 .00252 4.57 .47 .93
** NMED source ID=39663EQPT44 Facility's ID=ENG-04
** Description=Removed-690 hp Compressor Engine Construction date=01-FEB-23
** SCC=20200254
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 39663E44 POINT 620013.398 3549825.279 0
SO SRCPARAM 39663E44 -.0163797 6.1 695.37 37.61 .25
** NMED source ID=39663EQPT45 Facility's ID=ENG-05
** Description=Removed-1380 hp Compressor Engine Construction date=01-FEB-23
** SCC=20200254
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 39663E45 POINT 620006.563 3549831.757 0
SO SRCPARAM 39663E45 -.0314995 7.32 707.04 29.1 .41
** NMED source ID=39663EQPT59 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=01-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E59 POINT 619996.927 3549831.834 0
SO SRCPARAM 39663E59 .0138598 7.16 819.82 33.86 .41
** NMED source ID=39663EQPT60 Facility's ID=ENG-02
```

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** Description=Compressor Engine Construction date=01-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E60 POINT 619989.666 3549825.168 0
SO SRCPARAM 39663E60 .0075599 6.17 695.37 37.61 .25
** NMED source ID=39663EQPT61 Facility's ID=GEN-01
** Description=Generator Engine Construction date=01-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E61 POINT 619988.886 3549815.122 0
SO SRCPARAM 39663E61 .0100798 4.51 840.37 179.41 .09
** NMED source ID=39663EQPT62 Facility's ID=GEN-02
** Description=Generator Engine Construction date=01-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E62 POINT 619995.304 3549807.071 0
SO SRCPARAM 39663E62 .0050399 4.51 930.37 88.12 .09
** NMED source ID=39663EQPT63 Facility's ID=GEN-03
** Description=Generator Engine Construction date=01-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E63 POINT 620005.706 3549805.53 0
SO SRCPARAM 39663E63 .0050399 4.51 930.37 88.12 .09
** NMED source ID=39663EQPT66 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=13-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E66 POINT 620014.546 3549811.622 0
SO SRCPARAM 39663E66 .0088199 4.57 989.82 70.41 .13
** NMED source ID=39663EQPT67 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=13-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E67 POINT 620016.903 3549822.32 0
SO SRCPARAM 39663E67 .0050399 4.11 894.82 36.52 .13
** NMED source ID=39663EQPT73 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=08-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E73 POINT 620011.219 3549831.941 0
SO SRCPARAM 39663E73 .0088199 4.57 989.82 70.41 .13
**********END OF 39663: Coltrane-Bebop and Big Sinks 1 12 W1BO Fed Com 1H Battery
INFO**********************************
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************************************************************
** 24.27km away. Facility ID=38846 Name=Tomb Raider 1 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.337958, -103.733158, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.22tons/year
*****************Facility sources: ******************************
** NMED source ID=38846EQPT1 Facility's ID=HT-1
** Description=Heater Treater Construction date=27-NOV-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38846E1 POINT 619223.192 3578601.969 0
SO SRCPARAM 38846E1 .0037799 9.14 888.71 9.07 .31
** NMED source ID=38846RPNT2 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=27-NOV-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38846R2 VOLUME 619230.728 3578608.99 0
SO SRCPARAM 38846R2 .0277196 10 20 9.3
**********END OF 38846: Tomb Raider 1 CTB 1
INFO**********************************
************************************************************
** 24.3km away. Facility ID=39634 Name=Chimichangas 12 State Com CTB 1
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.410174, -103.41928, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.4tons/year
*****************Facility sources: ******************************
** NMED source ID=39634EQPT2 Facility's ID=HT-1
** Description=1 MMBtu/h Heater Treater Construction date=26-AUG-20
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3072hr/yr, 24hr/day
SO LOCATION 39634E2 VOLUME 648647.03 3587001.121 0
SO SRCPARAM 39634E2 .00126 3.96 .47 .93
** NMED source ID=39634EQPT11 Facility's ID=ENG-1
** Description=Caterpillar 3408 Compressor Engine, 400 hp Construction
date=23-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39634E11 POINT 648654.566 3587008.142 0
SO SRCPARAM 39634E11 .0100798 3.66 802.59 15.1 .25
** NMED source ID=39634EQPT14 Facility's ID=HT-2
** Description=1 MMBtu/h Heater Treater Construction date=23-JUN-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39634E14 VOLUME 648647.78 3587011.694 0
SO SRCPARAM 39634E14 .00126 10 .47 .93
**********END OF 39634: Chimichangas 12 State Com CTB 1
INFO**********************************
************************************************************
** 24.3km away. Facility ID=660 Name=Grama Ridge Gas Storage Facility
** Company ID=8891 Name=Enstor Operating Company LLC
** SIC=4922 NAIC=48621    Permit=unknown
** lat,long,datum=32.42265, -103.462956, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.5tons/year
*****************Facility sources: ******************************
** NMED source ID=660EQPT16 Facility's ID=5
** Description=Line Heater Construction date=08-APR-10
** SCC=31000404
** Potential operating rate=5256hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 660E16 POINT 644519.522 3588324.381 0
SO SRCPARAM 660E16 .0125998 9.14 449.82 14.63 .52
SO EMISFACT 660E16 HROFDY 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0
**********END OF 660: Grama Ridge Gas Storage Facility
INFO**********************************
************************************************************
** 24.31km away. Facility ID=39692 Name=Dagger Lake North TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.418668, -103.602166, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.57tons/year
*****************Facility sources: ******************************
** NMED source ID=39692AREA1 Facility's ID=HR-1
** Description=Unpaved Haul Road Construction date=14-OCT-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39692A1 VOLUME 631435.003 3587703.126 0
SO SRCPARAM 39692A1 .0365394 10 30 9.3
** NMED source ID=39692EQPT18 Facility's ID=ENG-1
** Description=Caterpillar 3516J  1380 hp Construction date=20-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7208hr/yr, 24hr/day
SO LOCATION 39692E18 POINT 631442.539 3587710.147 0
SO SRCPARAM 39692E18 .0125998 6.1 707.04 205.89 .15
** NMED source ID=39692EQPT24 Facility's ID=HT-1
** Description=Heater Treater Construction date=03-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39692E24 POINT 631435.753 3587713.699 0
SO SRCPARAM 39692E24 .0005796 9.14 422.04 2.09 .2
**********END OF 39692: Dagger Lake North TB
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INFO**********************************
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** 24.39km away. Facility ID=31539 Name=ConocoPhillips - Golden Spur Fed Production
Location
** Company ID=198 Name=ConocoPhillips Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.003126, -103.4406, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.26tons/year
*****************Facility sources: ******************************
** NMED source ID=31539AREA1 Facility's ID=HR
** Description=Haul Road Emissions Construction date=23-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31539A1 VOLUME 647296.7 3541844.716 0
SO SRCPARAM 31539A1 .0062999 10 10 9.3
** NMED source ID=31539EQPT6 Facility's ID=FL1
** Description=Flare Construction date=23-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3000hr/yr, 24hr/day
SO LOCATION 31539E6 POINT 647304.236 3541851.737 0
SO SRCPARAM 31539E6 .060479 7.62 1273 20 9.069
** NMED source ID=31539EQPT8 Facility's ID=ENG1
** Description=276 hp Caterpillar 3406TA Engine Construction date=23-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2372hr/yr, 24hr/day
SO LOCATION 31539E8 POINT 647297.45 3541855.289 0
SO SRCPARAM 31539E8 .00252 4.15 836.48 27.46 .15
** NMED source ID=31539EQPT10 Facility's ID=HT1
** Description=0.5 MMBtu/hr Heater Treater Construction date=23-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2424hr/yr, 24hr/day
SO LOCATION 31539E10 VOLUME 647289.853 3541853.197 0
SO SRCPARAM 31539E10 .00126 6.1 .47 .93
**********END OF 31539: ConocoPhillips - Golden Spur Fed Production Location
INFO**********************************
************************************************************
** 24.41km away. Facility ID=34038 Name=PLU Big Sinks 3-25-31 Tank Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.16455, -103.77727, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.88tons/year
*****************Facility sources: ******************************
** NMED source ID=34038EQPT1 Facility's ID=HPF
** Description=High Pressure Flare Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 34038E1 POINT 615290.465 3559330.082 0
SO SRCPARAM 34038E1 .0005796 8.84 1273 20 20.806
** NMED source ID=34038EQPT3 Facility's ID=HT-1
** Description=Heater Treater Construction date=04-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34038E3 VOLUME 615298.001 3559337.103 0
SO SRCPARAM 34038E3 .00126 6.1 .47 .93
** NMED source ID=34038EQPT12 Facility's ID=LPF
** Description=Low Pressure Flare Construction date=30-SEP-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34038E12 POINT 615291.215 3559340.655 0
SO SRCPARAM 34038E12 .0005796 8.84 1273 20 20.806
** NMED source ID=34038EQPT13 Facility's ID=HPF SSM
** Description=High Pressure Flare Construction date=03-SEP-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34038E13 POINT 615283.618 3559338.563 0
SO SRCPARAM 34038E13 .0230072 8.84 1273 20 5.505
** NMED source ID=34038EQPT14 Facility's ID=LPF SSM
** Description=Low Pressure Flare Construction date=30-SEP-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34038E14 POINT 615279.377 3559331.663 0
SO SRCPARAM 34038E14 .0005796 8.84 1273 20 20.806
**********END OF 34038: PLU Big Sinks 3-25-31 Tank Battery
INFO************************************
************************************************************
** 24.42km away. Facility ID=36735 Name=Belgian Shire CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6805 NOI
** lat,long,datum=32.116667, -103.758056, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=36735AREA1 Facility's ID=ROAD-1
** Description=Haul Roads_Road0 Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36735A1 VOLUME 617163.485 3554042.698 0
SO SRCPARAM 36735A1 .0277196 10 20 9.3
** NMED source ID=36735EQPT13 Facility's ID=HT-2
** Description=HT-2_EQ000057078 Construction date=01-JAN-20
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36735E13 VOLUME 617171.021 3554049.719 0
SO SRCPARAM 36735E13 .0005796 9.14 .47 .93
** NMED source ID=36735EQPT14 Facility's ID=HT-1
** Description=HT-1_EQ000056908 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36735E14 VOLUME 617164.235 3554053.271 0
SO SRCPARAM 36735E14 .0005796 9.14 .47 .93
**********END OF 36735: Belgian Shire CTB INFO************************************
************************************************************
** 24.52km away. Facility ID=40839 Name=Belloq 11 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9827 NOI
** lat,long,datum=32.31229, -103.754908, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.5tons/year
*****************Facility sources: ****************************
** NMED source ID=40839EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=06-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40839E1 POINT 617209.218 3575732.422 0
SO SRCPARAM 40839E1 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40839EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=06-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40839E2 POINT 617216.754 3575739.443 0
SO SRCPARAM 40839E2 .0037799 3.6 853.15 19.79 .17
** NMED source ID=40839EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=06-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40839E3 POINT 617209.968 3575742.995 0
SO SRCPARAM 40839E3 .0062999 5.85 772.59 21.02 .27
**********END OF 40839: Belloq 11 Wellpad 2
INFO************************************
************************************************************
** 24.52km away. Facility ID=38848 Name=Devon - Belloq 11 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.314692, -103.753403, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.57tons/year
*****************Facility sources: ****************************
** NMED source ID=38848EQPT3 Facility's ID=HT-1
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** Description=Heater Treater Construction date=03-MAY-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38848E3 POINT 617347.807 3576000.353 0
SO SRCPARAM 38848E3 .0037799 9.14 708.71 2.82 .34
** NMED source ID=38848EQPT11 Facility's ID=LPC-1
** Description=Low Pressure Compressor Construction date=03-MAY-19
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38848E11 POINT 617355.343 3576007.374 0
SO SRCPARAM 38848E11 .0037799 3.51 919.82 22.41 .15
** NMED source ID=38848EQPT15 Facility's ID=GEN-1
** Description=Generator 550 hp Construction date=03-MAY-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6072hr/yr, 24hr/day
SO LOCATION 38848E15 POINT 617348.557 3576010.926 0
SO SRCPARAM 38848E15 .0100798 3.51 1005.37 77.49 .15
** NMED source ID=38848EQPT16 Facility's ID=GEN-2
** Description=Generator 362 hp Construction date=03-MAY-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6072hr/yr, 24hr/day
SO LOCATION 38848E16 POINT 617340.96 3576008.834 0
SO SRCPARAM 38848E16 .0075599 3.51 1005.37 49.03 .15
** NMED source ID=38848EQPT19 Facility's ID=LPC-3
** Description=Low Pressure Compressor Construction date=24-APR-20
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2712hr/yr, 24hr/day
SO LOCATION 38848E19 POINT 617336.719 3576001.934 0
SO SRCPARAM 38848E19 .0037799 3.51 919.82 22.41 .15
** NMED source ID=38848EQPT20 Facility's ID=GEN-4
** Description=Generator 550 hp Construction date=24-APR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2712hr/yr, 24hr/day
SO LOCATION 38848E20 POINT 617338.371 3575993.78 0
SO SRCPARAM 38848E20 .0100798 3.51 1005.37 77.49 .15
** NMED source ID=38848RPNT2 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=03-MAY-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38848R2 VOLUME 617345.32 3575988.818 0
SO SRCPARAM 38848R2 .0277196 10 20 9.3
**********END OF 38848: Devon - Belloq 11 CTB 1
INFO**********************************
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** 24.66km away. Facility ID=39393 Name=Armstrong 26 23 W1EE Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.100586, -103.751058, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.49tons/year
*****************Facility sources: ******************************
** NMED source ID=39393AREA1 Facility's ID=HR-01
** Description=Haul Road Emissions Construction date=08-DEC-23
** SCC=30688901
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39393A1 VOLUME 617844.372 3552267.655 0
SO SRCPARAM 39393A1 .0088199 10 10 9.3
** NMED source ID=39393EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=28-JUN-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39393E1 POINT 617851.908 3552274.676 0
SO SRCPARAM 39393E1 .0138598 7.16 819.82 33.86 .41
** NMED source ID=39393EQPT5 Facility's ID=HT-01
** Description=Heater Treater Construction date=28-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39393E5 VOLUME 617845.122 3552278.228 0
SO SRCPARAM 39393E5 .00252 4.57 .47 .93
** NMED source ID=39393EQPT6 Facility's ID=HT-02
** Description=Heater Treater Construction date=28-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39393E6 VOLUME 617837.525 3552276.136 0
SO SRCPARAM 39393E6 .00252 4.57 .47 .93
** NMED source ID=39393EQPT7 Facility's ID=HT-03
** Description=Heater Treater Construction date=28-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39393E7 VOLUME 617833.284 3552269.236 0
SO SRCPARAM 39393E7 .00126 4.57 .47 .93
** NMED source ID=39393EQPT8 Facility's ID=HT-04
** Description=Heater Treater Construction date=28-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39393E8 VOLUME 617834.936 3552261.082 0
SO SRCPARAM 39393E8 .00126 4.57 .47 .93
** NMED source ID=39393EQPT27 Facility's ID=ENG-02
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** Description=Compressor Engine Construction date=03-NOV-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39393E27 POINT 617841.885 3552256.12 0
SO SRCPARAM 39393E27 .0125998 5.49 857.04 38.28 .2
** NMED source ID=39393EQPT29 Facility's ID=HT-05
** Description=Heater Treater Construction date=03-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39393E29 VOLUME 617850.568 3552257.262 0
SO SRCPARAM 39393E29 .00126 4.57 .47 .93
** NMED source ID=39393EQPT30 Facility's ID=HT-06
** Description=Heater Treater Construction date=03-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39393E30 VOLUME 617856.278 3552264.19 0
SO SRCPARAM 39393E30 .00252 4.57 .47 .93
** NMED source ID=39393EQPT35 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=08-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39393E35 POINT 617855.713 3552273.371 0
SO SRCPARAM 39393E35 .0088199 4.57 989.82 70.41 .13
**********END OF 39393: Armstrong 26 23 W1EE Fed Com 1H Battery
INFO***********************************
************************************************************
** 24.66km away. Facility ID=40735 Name=Ranger Peak Compressor Station
** Company ID=13928 Name=Pinon Midstream LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.114295, -103.288249, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=5.96tons/year
*****************Facility sources: ******************************
** NMED source ID=40735EQPT1 Facility's ID=ENG-1
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E1 POINT 661493.669 3554387.29 0
SO SRCPARAM 40735E1 .0239396 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT2 Facility's ID=ENG-2
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E2 POINT 661501.205 3554394.311 0
SO SRCPARAM 40735E2 .0239396 9.14 729.26 25.29 .61
```

```
** NMED source ID=40735EQPT3 Facility's ID=ENG-3
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E3 POINT 661494.419 3554397.863 0
SO SRCPARAM 40735E3 .0239396 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT4 Facility's ID=ENG-4
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E4 POINT 661486.822 3554395.771 0
SO SRCPARAM 40735E4 .0239396 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT5 Facility's ID=ENG-5
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E5 POINT 661482.581 3554388.871 0
SO SRCPARAM 40735E5 .0239396 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT6 Facility's ID=ENG-6
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E6 POINT 661484.233 3554380.717 0
SO SRCPARAM 40735E6 .0239396 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT9 Facility's ID=GEN-1
** Description=Generator Engine Construction date=06-OCT-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E9 POINT 661491.182 3554375.755 0
SO SRCPARAM 40735E9 .0005796 6.1 540.37 45.29 .61
** NMED source ID=40735EQPT10 Facility's ID=GEN-2
** Description=Generator Engine Construction date=06-OCT-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E10 POINT 661499.865 3554376.897 0
SO SRCPARAM 40735E10 .0005796 6.1 540.37 45.29 .61
** NMED source ID=40735EQPT11 Facility's ID=GEN-3
** Description=Generator Engine Construction date=06-OCT-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E11 POINT 661505.575 3554383.825 0
SO SRCPARAM 40735E11 .0005796 6.1 540.37 45.29 .61
** NMED source ID=40735EQPT14 Facility's ID=ENG-8
```

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** Description=Engine Construction date=07-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E14 POINT 661505.01 3554393.006 0
SO SRCPARAM 40735E14 .0264596 9.14 868.15 19.6 .46
**********END OF 40735: Ranger Peak Compressor Station
INFO**********************************
************************************************************
** 24.68km away. Facility ID=27650 Name=Concrete Mobility -  GCP5-3802
** Company ID=10457 Name=Concrete Mobility
** SIC=3273 NAIC=32732    Permit=3802 GCP5
** lat,long,datum=32.06515, -103.7215, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=95tons/year
*****************Facility sources: ******************************
** NMED source ID=27650ACT 1 Facility's ID=GCP-5
** Description=200 YPD Concrete Batch Plant Construction date=15-AUG-08
** SCC=30501199
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 27650@1 VOLUME 620680.094 3548372.058 0
SO SRCPARAM 27650@1 2.7328336 10 220 9.3
**********END OF 27650: Concrete Mobility -  GCP5-3802
INFO**********************************
************************************************************
** 24.74km away. Facility ID=41074 Name=El Campeon EC1a CTB20 Satellite
** Company ID= Name=
** SIC=1311 NAIC=21112    Permit=9978 NOI
** lat,long,datum=32.023042, -103.383104, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.99tons/year
*****************Facility sources: ******************************
** NMED source ID=41074EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine 1 Construction date=18-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E1 POINT 652695.202 3544132.455 0
SO SRCPARAM 41074E1 .0037799 4.57 846.48 35.54 .13
** NMED source ID=41074EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine 2 Construction date=18-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E2 POINT 652702.738 3544139.476 0
SO SRCPARAM 41074E2 .0037799 4.57 846.48 35.54 .13
** NMED source ID=41074EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine 3 Construction date=18-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 41074E3 POINT 652695.952 3544143.028 0
SO SRCPARAM 41074E3 .0037799 4.57 846.48 35.54 .13
** NMED source ID=41074EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine 4 Construction date=18-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E4 POINT 652688.355 3544140.936 0
SO SRCPARAM 41074E4 .0037799 4.57 846.48 35.54 .13
** NMED source ID=41074EQPT5 Facility's ID=GEN-1
** Description=Generator Engine 1 Construction date=18-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E5 POINT 652684.114 3544134.036 0
SO SRCPARAM 41074E5 .0075599 3.66 1005.37 43.59 .2
** NMED source ID=41074EQPT6 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=18-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E6 VOLUME 652685.766 3544125.882 0
SO SRCPARAM 41074E6 .00126 1 .47 .93
** NMED source ID=41074EQPT7 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=18-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E7 VOLUME 652692.715 3544120.92 0
SO SRCPARAM 41074E7 .00126 1 .47 .93
** NMED source ID=41074EQPT8 Facility's ID=HT-3
** Description=Heater Treater 3 Construction date=18-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E8 VOLUME 652701.398 3544122.062 0
SO SRCPARAM 41074E8 .00126 1 .47 .93
** NMED source ID=41074EQPT9 Facility's ID=HT-4
** Description=Heater Treater 4 Construction date=18-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E9 VOLUME 652707.108 3544128.99 0
SO SRCPARAM 41074E9 .00126 1 .47 .93
**********END OF 41074: El Campeon EC1a CTB20 Satellite
INFO**********************************
************************************************************
** 24.75km away. Facility ID=37883 Name=Battle Axe 27 WF1
** Company ID=1455 Name=ConocoPhillips - Midland Office
** SIC=1311 NAIC=21112    Permit=7308 NOI
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** lat,long,datum=32.018542, -103.656269, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=.13tons/year
*****************Facility sources: ****************************
** NMED source ID=37883AREA1 Facility's ID=HR-01
** Description=Roads or Unpaved Haul Roads Construction date=25-SEP-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37883A1 VOLUME 626902.159 3543280.072 0
SO SRCPARAM 37883A1 .00126 1 .47 .93
** NMED source ID=37883EQPT17 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=25-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37883E17 VOLUME 626909.695 3543287.093 0
SO SRCPARAM 37883E17 .00126 4.57 .47 .93
** NMED source ID=37883EQPT18 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=25-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37883E18 VOLUME 626902.909 3543290.645 0
SO SRCPARAM 37883E18 .00126 4.57 .47 .93
**********END OF 37883: Battle Axe 27 WF1 INFO************************************
*************************************************************
** 24.79km away. Facility ID=40356 Name=PLU 16 Twin Wells Ranch West Tank Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.208522, -103.787086, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=1.27tons/year
*****************Facility sources: ****************************
** NMED source ID=40356AREA1 Facility's ID=ROAD
** Description=ROAD EMISSIONS Construction date=07-APR-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356A1 VOLUME 614309.884 3564194.192 0
SO SRCPARAM 40356A1 .0037799 1 .47 .93
** NMED source ID=40356EQPT1 Facility's ID=HPF
** Description=HIGH PRESSURE FLARE Construction date=07-APR-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E1 POINT 614317.42 3564201.213 0
SO SRCPARAM 40356E1 .00126 30.48 1273 20 20.806
** NMED source ID=40356EQPT3 Facility's ID=HTR1
** Description=HEATER TREATER BURNER: 4.0 MMBTU/HR Construction date=07-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E3 POINT 614310.634 3564204.765 0
SO SRCPARAM 40356E3 .0037799 12.19 810.93 10.15 .3
** NMED source ID=40356EQPT4 Facility's ID=HTR2
** Description=HEATER TREATER BURNER: 4.0 MMBTU/HR Construction date=07-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E4 POINT 614303.037 3564202.673 0
SO SRCPARAM 40356E4 .0037799 12.19 810.93 10.15 .3
** NMED source ID=40356EQPT5 Facility's ID=LPF
** Description=LOW PRESSURE FLARE Construction date=07-APR-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E5 POINT 614298.796 3564195.773 0
SO SRCPARAM 40356E5 .00252 12.19 1273 20 2.632
** NMED source ID=40356EQPT12 Facility's ID=HPF SSM
** Description=HIGH PRESSURE FLARE Construction date=07-APR-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E12 POINT 614300.448 3564187.619 0
SO SRCPARAM 40356E12 .0117934 30.48 1273 20 3.604
** NMED source ID=40356EQPT13 Facility's ID=LPF SSM
** Description=LOW PRESSURE FLARE Construction date=07-APR-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E13 POINT 614307.397 3564182.657 0
SO SRCPARAM 40356E13 .0069047 12.19 1273 20 3.604
**********END OF 40356: PLU 16 Twin Wells Ranch West Tank Battery
INFO************************************
************************************************************
** 24.87km away. Facility ID=38575 Name=Lusitano 27 Wellpad 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.107913, -103.758301, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.48tons/year
*****************Facility sources: ******************************
** NMED source ID=38575EQPT3 Facility's ID=ENG 3
** Description=COMPRESSOR ENGINE Construction date=09-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38575E3 POINT 617151.552 3553072 0
SO SRCPARAM 38575E3 .0138598 7.01 809.26 57.36 .3
**********END OF 38575: Lusitano 27 Wellpad 6
INFO************************************
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** 24.88km away. Facility ID=39820 Name=Aleutian 10 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3123, -103.759228, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=1.08tons/year
*****************Facility sources: ****************************
** NMED source ID=39820EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=01-FEB-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39820E1 POINT 616802.506 3575728.814 0
SO SRCPARAM 39820E1 .0151198 5.85 952.59 31.94 .27
** NMED source ID=39820EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=19-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39820E2 POINT 616810.042 3575735.835 0
SO SRCPARAM 39820E2 .0125998 5.85 772.59 38.07 .27
** NMED source ID=39820EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=19-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39820E3 POINT 616803.256 3575739.387 0
SO SRCPARAM 39820E3 .0037799 3.6 846.48 20.01 .17
**********END OF 39820: Aleutian 10 Wellpad 1
INFO**********************************
************************************************************
** 24.93km away. Facility ID=39043 Name=Frizzle Fry 15 Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3982, -103.66847, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.78tons/year
*****************Facility sources: ****************************
** NMED source ID=39043AREA1 Facility's ID=ROAD
** Description=Unpaved Haul Roads Construction date=03-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39043A1 VOLUME 625228.37 3585354.364 0
SO SRCPARAM 39043A1 .0002898 1 .47 .93
** NMED source ID=39043EQPT1 Facility's ID=HTR-1
** Description=Heater Treater-01 Construction date=03-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39043E1 POINT 625235.906 3585361.385 0
SO SRCPARAM 39043E1 .00126 4.57 533.15 3.79 .09
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** NMED source ID=39043EQPT3 Facility's ID=ENG-1
** Description=VRU Engine Construction date=03-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39043E3 POINT 625229.12 3585364.937 0
SO SRCPARAM 39043E3 .0037799 2.99 919.82 51.45 .1
** NMED source ID=39043EQPT4 Facility's ID=ENG-2
** Description=Combustion Engine Construction date=03-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39043E4 POINT 625221.523 3585362.845 0
SO SRCPARAM 39043E4 .0075599 4.51 1000.37 50.23 .15
** NMED source ID=39043EQPT5 Facility's ID=ENG-3
** Description=Combustion Engine Construction date=03-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39043E5 POINT 625217.282 3585355.945 0
SO SRCPARAM 39043E5 .0050399 3.84 846.48 39.23 .12
** NMED source ID=39043EQPT6 Facility's ID=GEN-1
** Description=Generator-1 Construction date=03-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39043E6 POINT 625218.934 3585347.791 0
SO SRCPARAM 39043E6 .0050399 2.99 794.26 96.56 .09
**********END OF 39043: Frizzle Fry 15 Fed Com CTB
INFO**********************************
************************************************************
** 24.96km away. Facility ID=40120 Name=Nina Cortell South TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.399713, -103.66639, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=2.4tons/year
*****************Facility sources: ****************************
** NMED source ID=40120AREA1 Facility's ID=HR
** Description=Unpaved Haul Road Emissions Construction date=01-SEP-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6912hr/yr, 24hr/day
SO LOCATION 40120A1 VOLUME 625421.914 3585524.537 0
SO SRCPARAM 40120A1 .0062999 10 10 9.3
** NMED source ID=40120EQPT1 Facility's ID=GEN-1
** Description=PSI Generator, 581hp Construction date=01-SEP-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5447hr/yr, 24hr/day
SO LOCATION 40120E1 POINT 625429.45 3585531.558 0
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SO SRCPARAM 40120E1 .0113398 6.1 1023.15 19.37 .3
** NMED source ID=40120EQPT3 Facility's ID=HT-1
** Description=1 MMBtu/hr Heater Treater Construction date=01-SEP-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6912hr/yr, 24hr/day
SO LOCATION 40120E3 VOLUME 625422.664 3585535.11 0
SO SRCPARAM 40120E3 .00126 6.1 .47 .93
** NMED source ID=40120EQPT14 Facility's ID=ENG-2
** Description=GM 5.7L Compressor, 94hp Construction date=01-SEP-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6912hr/yr, 24hr/day
SO LOCATION 40120E14 POINT 625415.067 3585533.018 0
SO SRCPARAM 40120E14 .00126 6.1 1005.37 8.58 .21
** NMED source ID=40120EQPT23 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=06-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E23 POINT 625410.826 3585526.118 0
SO SRCPARAM 40120E23 .00126 6.1 1005.37 8.58 .21
** NMED source ID=40120EQPT24 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=06-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E24 POINT 625412.478 3585517.964 0
SO SRCPARAM 40120E24 .00252 2.99 898.71 34.72 .13
** NMED source ID=40120EQPT28 Facility's ID=HT-2
** Description=1 MMBtu/hr Heater Treater Construction date=06-DEC-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E28 VOLUME 625419.427 3585513.002 0
SO SRCPARAM 40120E28 .00126 6.1 .47 .93
** NMED source ID=40120EQPT29 Facility's ID=HT-3
** Description=1 MMBtu/hr Heater Treater Construction date=06-DEC-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E29 VOLUME 625428.11 3585514.144 0
SO SRCPARAM 40120E29 .00126 6.1 .47 .93
** NMED source ID=40120EQPT37 Facility's ID=HT-4
** Description=1 MMBtu/hr Heater Treater Construction date=07-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E37 VOLUME 625433.82 3585521.072 0
SO SRCPARAM 40120E37 .00126 6.1 .47 .93
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** NMED source ID=40120EQPT39 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E39 POINT 625433.255 3585530.253 0
SO SRCPARAM 40120E39 .0037799 6.1 919.82 11.43 .21
** NMED source ID=40120EQPT40 Facility's ID=ENG-9
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E40 POINT 625426.42 3585536.731 0
SO SRCPARAM 40120E40 .0138598 6.1 804.82 50.99 .3
** NMED source ID=40120EQPT41 Facility's ID=ENG-10
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E41 POINT 625416.784 3585536.808 0
SO SRCPARAM 40120E41 .0302395 6.1 701.48 77.75 .3
** NMED source ID=40120EQPT42 Facility's ID=HT-5
** Description=1 MMBtu/hr Heater Treater Construction date=13-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E42 VOLUME 625409.523 3585530.142 0
SO SRCPARAM 40120E42 .00126 6.1 .47 .93
**********END OF 40120: Nina Cortell South TB
INFO**********************************
************************************************************
** 24.96km away. Facility ID=39770 Name=Island Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.31525, -103.758347, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=4.12tons/year
*****************Facility sources: ****************************
** NMED source ID=39770EQPT5 Facility's ID=GEN-1
** Description=Moser DRG250 Generator Construction date=25-NOV-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E5 POINT 616881.657 3576056.809 0
SO SRCPARAM 39770E5 .0088199 3.15 1023.15 102.72 .1
** NMED source ID=39770EQPT11 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=10-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E11 POINT 616889.193 3576063.83 0
```

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SO SRCPARAM 39770E11 .0125998 7.32 724.26 32 .38
** NMED source ID=39770EQPT12 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=10-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E12 POINT 616882.407 3576067.382 0
SO SRCPARAM 39770E12 .0125998 7.32 724.26 32 .38
** NMED source ID=39770EQPT13 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=10-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E13 POINT 616874.81 3576065.29 0
SO SRCPARAM 39770E13 .0125998 7.32 724.26 32 .38
** NMED source ID=39770EQPT17 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=30-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E17 POINT 616870.569 3576058.39 0
SO SRCPARAM 39770E17 .0239396 7.92 702.59 26.01 .61
** NMED source ID=39770EQPT18 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=30-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E18 POINT 616872.221 3576050.236 0
SO SRCPARAM 39770E18 .0239396 7.92 702.59 26.01 .61
** NMED source ID=39770EQPT19 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=30-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E19 POINT 616879.17 3576045.274 0
SO SRCPARAM 39770E19 .0239396 7.92 702.59 26.01 .61
**********END OF 39770: Island Booster Station
INFO***********************************
************************************************************
** 24.99km away. Facility ID=40887 Name=Flight Compressor Station
** Company ID=14143 Name=Northwind Midstream Partners LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.425808, -103.448452, WGS84
** Total Particulate Matter (2.5 microns or less) emissions=4.54tons/year
*****************Facility sources: ******************************
** NMED source ID=40887EQPT15 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40887E15 POINT 645878.308 3588694.214 0
SO SRCPARAM 40887E15 .0428393 7.62 682.04 90.5 .46
** NMED source ID=40887EQPT16 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E16 POINT 645885.844 3588701.235 0
SO SRCPARAM 40887E16 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40887EQPT17 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E17 POINT 645879.058 3588704.787 0
SO SRCPARAM 40887E17 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40887EQPT18 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=05-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E18 POINT 645871.461 3588702.695 0
SO SRCPARAM 40887E18 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40887EQPT19 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=05-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E19 POINT 645867.22 3588695.795 0
SO SRCPARAM 40887E19 .0214197 7.62 714.82 103.97 .3
** NMED source ID=40887EQPT22 Facility's ID=RBL-1
** Description=TEG Glycol Regen Heater Construction date=05-SEP-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E22 POINT 645868.872 3588687.641 0
SO SRCPARAM 40887E22 .00126 5.18 588.71 6.83 .3
**********END OF 40887: Flight Compressor Station
INFO**********************************
************************************************************
** 25km away. Facility ID=38039 Name=Lusitano 27 CTB 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=7458 NOI
** lat,long,datum=32.106058, -103.758672, NAD83
** Total Particulate Matter (2.5 microns or less) emissions=.23tons/year
*****************Facility sources: ****************************
** NMED source ID=38039AREA1 Facility's ID=ROAD-1
** Description=Haul Roads Construction date=18-SEP-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38039A1 VOLUME 617118.915 3552865.959 0
SO SRCPARAM 38039A1 .0277196 10 20 9.3
** NMED source ID=38039EQPT9 Facility's ID=HT-1
** Description=Heater Treater 1 EQ000070240 Construction date=18-SEP-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38039E9 VOLUME 617126.451 3552872.98 0
SO SRCPARAM 38039E9 .00126 9.14 .47 .93
** NMED source ID=38039EQPT10 Facility's ID=HT-2
** Description=Heater Treater 2 EQ000070245 Construction date=18-SEP-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38039E10 VOLUME 617119.665 3552876.532 0
SO SRCPARAM 38039E10 .00126 9.14 .47 .93
** NMED source ID=38039EQPT15 Facility's ID=ENG 1
** Description=Compressor Engine EQ000068200 Construction date=15-SEP-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38039E15 POINT 617112.068 3552874.44 0
SO SRCPARAM 38039E15 .00252 2.68 922.04 46.73 .09
**********END OF 38039: Lusitano 27 CTB 6 INFO**********************************
SO SRCGROUP NAAQS 29885E1 29885E24 29885E28
SO SRCGROUP NAAQS 29885E32 29885E34 29885E37
SO SRCGROUP NAAQS 29885E38 29885E39 29885E40
SO SRCGROUP NAAQS 29885E44 29885E46 29885E47
SO SRCGROUP NAAQS 29885E55 29885E57 29885E58
SO SRCGROUP NAAQS 29885E59 29885E60 29885E63
SO SRCGROUP NAAQS 29885E64 29885E65 29885E66
SO SRCGROUP NAAQS 29885E67 29885E71 29885E72
SO SRCGROUP NAAQS 29885E73 29885E74 29885E77
SO SRCGROUP NAAQS 29885E78 29885E85 33152A3 33152A5 33152A8 33152E63
SO SRCGROUP NAAQS 33152E71 3152E103 3152E120 3152E143 3152E216 3152E218
SO SRCGROUP NAAQS 33152R10 33152R11 33152R12 33152R13 33152R14 33152R15
SO SRCGROUP NAAQS 33152R16 33152R17 33152R18 39982E5 39982E6 38504A1
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SO SRCGROUP NAAQS 35483E18 35483R1 38491E1 38491E2 38491E3 38491E4
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SO SRCGROUP PSD 36735E13 36735E14 40839E1 40839E2 40839E3 38848E3
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SO SRCGROUP PSD 39393A1 39393E1 39393E5 39393E6 39393E7 39393E8 39393E27
SO SRCGROUP PSD 39393E29 39393E30 39393E35 40735E1 40735E2 40735E3
SO SRCGROUP PSD 40735E4 40735E5 40735E6 40735E9 40735E10 40735E11
SO SRCGROUP PSD 40735E14 41074E1 41074E2 41074E3 41074E4 41074E5 41074E6
SO SRCGROUP PSD 41074E7 41074E8 41074E9 37883A1 37883E17 37883E18
SO SRCGROUP PSD 40356A1 40356E1 40356E3 40356E4 40356E5 40356E12 40356E13
SO SRCGROUP PSD 38575E3 39820E1 39820E2 39820E3 39043A1 39043E1 39043E3
SO SRCGROUP PSD 39043E4 39043E5 39043E6 40120A1 40120E1 40120E3 40120E14
SO SRCGROUP PSD 40120E23 40120E24 40120E28 40120E29 40120E37 40120E39
SO SRCGROUP PSD 40120E40 40120E41 40120E42 39770E5 39770E11 39770E12
SO SRCGROUP PSD 39770E13 39770E17 39770E18 39770E19 40887E15 40887E16
SO SRCGROUP PSD 40887E17 40887E18 40887E19 40887E22 38039A1 38039E9
SO SRCGROUP PSD 38039E10 38039E15
SO FINISHED
** Receptor near center of domain added to aid import into GUI programs.
RE STARTING
RE ELEVUNIT METERS
RE DISCCART 639114, 3565730 3000 3000
RE Finished

** Meteorolgy options. May not be the actual met file used for this model.
ME STARTING
ME SURFFILE 'C:\MET\AERMET\HOBBS_Artesia-NWS_Midland-ua_2015.SFC' FREE
ME PROFFILE 'C:\MET\AERMET\HOBBS_Artesia-NWS_Midland-ua_2015.PFL'
ME SURFDATA  722676 2015
ME UAIRDATA  23023 2015 'MIDLAND INTERNATIONAL AP, TX'
ME PROFBASE 1110 METERS
ME FINISHED

OU STARTING
OU PLOTFILE 24, PERIOD NAAQS 'C:\Models\DELETEME_2015_PM2.5.GRF' 31
OU PLOTFILE 24, PERIOD PSD 'C:\Models\DELETEME_2015_PM2.5.GRF' 31
OU SUMMFILE 'C:\Models\DELETEME_2015_PM2.5.SUM'
OU Finished
```

# APPENDIX D. $H_2S$ SURROUNDING SOURCE INVENTORY

```
** Surrounding sources generated by New Mexico Environment Department, Air Quality
Bureau
** Hydrogen sulfide (NMAAQ) sources generated 27-JAN-24
CO STARTING
CO TITLEONE Sources within 25km  of Lat/lon=32.21055556, -103.52388889 UTM=639113.7,
3564730, Zone=13
CO TITLETWO (plus very large sources within 50km).
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO RUNORNOT RUN
CO AVERTIME 1
CO POLLUTID H2S
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
************************************************************
** 0km away. Facility ID=29885 Name=Red Hills Gas Processing Plant
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21112    Permit=4310 Title V
** lat,long,datum=32.210556, -103.523889, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=2.04tons/year
*****************Facility sources: ****************************
** NMED source ID=29885EQPT53 Facility's ID=EP-9
** Description=Flare - Sour Slop Tank Control & Pilot Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885E53 POINT 639113.704 3564730.017 0
SO SRCPARAM 29885E53 .0002898 6.1 1273 20 .52
** NMED source ID=29885EQPT87 Facility's ID=EP-13
** Description=Flare - Sour Water Tanks Control Construction date=20-FEB-20
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E87 POINT 639121.24 3564737.038 0
SO SRCPARAM 29885E87 .00252 18 1273 20 20.806
** NMED source ID=29885EQPT88 Facility's ID=2.5-EP-5
** Description=Flare - AGI System 1 SSM & Pilot (High H2S Handling #1) Construction
date=20-FEB-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885E88 POINT 639114.454 3564740.59 0
SO SRCPARAM 29885E88 0 45.42 1273 20 3.64
** NMED source ID=29885EQPT89 Facility's ID=5.5-EP-1b
** Description=Flare - AGI System 2 SSM & Pilot (High H2S Handling #1) Construction
date=20-FEB-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 29885E89 POINT 639106.857 3564738.498 0
SO SRCPARAM 29885E89 .0488998 45.42 1273 20 3.64
** NMED source ID=29885RPNT11 Facility's ID=EP-11
** Description=SSM Venting during SSM of Thermal Oxidizer Construction
date=20-FEB-20
** SCC=30600402
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885R11 POINT 639102.616 3564731.598 0
SO SRCPARAM 29885R11 .0094876 7 730 28 .3
**********END OF 29885: Red Hills Gas Processing Plant
INFO**********************************
************************************************************
** 1.48km away. Facility ID=33152 Name=PolyNatura - Ochoa Mine Project
** Company ID=12322 Name=PolyNatura Corp
** SIC=1474 NAIC=212391   Permit=5384 NSR
** lat,long,datum=32.19975, -103.533111, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=7.1tons/year
*****************Facility sources: ****************************
** NMED source ID=33152EQPT219 Facility's ID=S200
** Description=Water Treatment Air Strippers Construction date=10-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 3152E219 POINT 638260.858 3563520.142 0
SO SRCPARAM 3152E219 .2015968 11.28 288.15 16.17 2.44
**********END OF 33152: PolyNatura - Ochoa Mine Project
INFO**********************************
************************************************************
** 2.76km away. Facility ID=34645 Name=Abu Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19, -103.5075, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=4.09tons/year
*****************Facility sources: ****************************
** NMED source ID=34645RPNT1 Facility's ID=FUG
** Description=Sitewide Fugitives Construction date=15-DEC-14
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 34645R1 VOLUME 640690.05 3562472.466 0
SO SRCPARAM 34645R1 .00252 1 .47 .93
** NMED source ID=34645RPNT2 Facility's ID=SSM
** Description=Startup, Shutdown and Maintenance Construction date=15-DEC-14
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 34645R2 VOLUME 640697.586 3562479.487 0
SO SRCPARAM 34645R2 .0575307 1 .47 .93
** NMED source ID=34645RPNT3 Facility's ID=M
```

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** Description=Malfunction Construction date=19-JUN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 34645R3 VOLUME 640690.8 3562483.039 0
SO SRCPARAM 34645R3 .0575307 1 .47 .93
**********END OF 34645: Abu Compressor Station
INFO**********************************
************************************************************
** 2.76km away. Facility ID=38952 Name=Carl Mottek Fed Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.22393, -103.49917, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=38952EQPT6 Facility's ID=FL-1 HP
** Description=10 MMSCFD Flare Construction date=28-OCT-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38952E6 POINT 641422.826 3566244.965 0
SO SRCPARAM 38952E6 .0002898 15.09 1273 20 4.652
**********END OF 38952: Carl Mottek Fed Tank Battery
INFO**********************************
************************************************************
** 3.1km away. Facility ID=39998 Name=Yukon 20 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2071, -103.4912, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.7tons/year
*****************Facility sources: ******************************
** NMED source ID=39998EQPT3 Facility's ID=FL-2
** Description=Emergency Flare Construction date=04-JUN-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E3 POINT 642200.111 3564389.663 0
SO SRCPARAM 39998E3 .00126 18.29 1273 20 2.632
** NMED source ID=39998EQPT4 Facility's ID=HTR-3
** Description=Heater Treater Construction date=04-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E4 VOLUME 642207.647 3564396.684 0
SO SRCPARAM 39998E4 .0002898 4.88 .47 .93
** NMED source ID=39998EQPT12 Facility's ID=HTR-1
** Description=Heater Treater Construction date=08-DEC-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

```
SO LOCATION 39998E12 VOLUME 642200.861 3564400.236 0
SO SRCPARAM 39998E12 .0002898 4.88 .47 .93
** NMED source ID=39998EQPT13 Facility's ID=HTR-2
** Description=Heater Treater Construction date=08-DEC-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E13 VOLUME 642193.264 3564398.144 0
SO SRCPARAM 39998E13 .0002898 4.88 .47 .93
** NMED source ID=39998EQPT15 Facility's ID=FL-1 SSM
** Description=Process Flare SSM Construction date=08-DEC-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E15 POINT 642189.023 3564391.244 0
SO SRCPARAM 39998E15 .0126628 12.19 1273 20 .51
** NMED source ID=39998RPNT1 Facility's ID=FUG
** Description=Fugutives Construction date=04-JUN-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998R1 VOLUME 642190.675 3564383.09 0
SO SRCPARAM 39998R1 .0050399 1 .47 .93
**********END OF 39998: Yukon 20 Fed Com CTB
INFO**********************************
************************************************************
** 3.74km away. Facility ID=38310 Name=Targa - Blu Compressor Station
** Company ID=901 Name=Versado Gas Processors, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.209103, -103.484219, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.36tons/year
*****************Facility sources: ****************************
** NMED source ID=38310EQPT7 Facility's ID=Flare
** Description=Process Flare 80 MMSCFD Construction date=12-FEB-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38310E7 POINT 642854.986 3564620.98 0
SO SRCPARAM 38310E7 .0100798 12.19 1273 20 11.77
**********END OF 38310: Targa - Blu Compressor Station
INFO**********************************
************************************************************
** 3.95km away. Facility ID=38949 Name=Charles Ling West Fed Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.23838, -103.54995, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.56tons/year
*****************Facility sources: ****************************
** NMED source ID=38949EQPT16 Facility's ID=FL-1 HP
** Description=Standard Flare Construction date=16-MAY-19
```

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** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38949E16 POINT 636615.76 3567781.195 0
SO SRCPARAM 38949E16 .0692989 12.19 1273 20 20.806
**********END OF 38949: Charles Ling West Fed Tank Battery
INFO**********************************
************************************************************
** 4.29km away. Facility ID=39997 Name=Galleon 21 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.198, -103.4808, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.47tons/year
*****************Facility sources: ****************************
** NMED source ID=39997EQPT4 Facility's ID=HTR-1
** Description=Heater Construction date=04-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E4 VOLUME 643194.64 3563394.619 0
SO SRCPARAM 39997E4 .0002898 4.88 .47 .93
** NMED source ID=39997EQPT14 Facility's ID=HTR-2
** Description=Heater Construction date=15-JUN-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E14 VOLUME 643202.176 3563401.64 0
SO SRCPARAM 39997E14 .0002898 4.88 .47 .93
** NMED source ID=39997EQPT15 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=20-MAY-21
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E15 POINT 643195.39 3563405.192 0
SO SRCPARAM 39997E15 .0106468 12.19 1273 20 3.604
** NMED source ID=39997RPNT1 Facility's ID=FUG
** Description=Fugutives Construction date=04-JUN-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997R1 VOLUME 643187.793 3563403.1 0
SO SRCPARAM 39997R1 .00252 1 .47 .93
**********END OF 39997: Galleon 21 Fed Com CTB
INFO**********************************
************************************************************
** 4.56km away. Facility ID=38567 Name=Diamond 31 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.17, -103.516703, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
```

**********Facility sources: **********
** NMED source ID=38567RPNT2 Facility's ID=FUG
** Description=Equipment Fugitives Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8766hr/yr, 24hr/day
SO LOCATION 38567R2 VOLUME 639853.025 3560243.224 0
SO SRCPARAM 38567R2 .0002898 1 .47 .93
**********END OF 38567: Diamond 31 Fed Com CTB
INFO**********
**********
** 4.73km away. Facility ID=38830 Name=Zeus CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.225585, -103.570904, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
**********Facility sources: **********
** NMED source ID=38830EQPT51 Facility's ID=FL-1 HP SSM
** Description=High Pressure Flare 1, intermittent; SSM Construction date=17-MAR-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E51 POINT 634660.284 3566336.254 0
SO SRCPARAM 38830E51 .0002898 12.19 1273 20 4.652
**********END OF 38830: Zeus CTB INFO**********
**********
** 4.73km away. Facility ID=39577 Name=The Contest CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.229897, -103.479136, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=1.07tons/year
**********Facility sources: **********
** NMED source ID=39577EQPT12 Facility's ID=FL-1d
** Description=Flare, High Pressure, 2094 scfm Construction date=25-JUN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2928hr/yr, 24hr/day
SO LOCATION 39577E12 POINT 643301.449 3566933.04 0
SO SRCPARAM 39577E12 .1007984 12.19 1273 20 13.484
**********END OF 39577: The Contest CTB INFO**********
**********
** 4.92km away. Facility ID=38546 Name=Pirate State No1H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.211592, -103.471686, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
**********Facility sources: **********
** NMED source ID=38546EQPT9 Facility's ID=FL-1
** Description=1.5 MMscfd Aeron HP 1500 Flare Construction date=16-DEC-20
** SCC=31000160

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7176hr/yr, 24hr/day
SO LOCATION 38546E9 POINT 644032.357 3564913.65 0
SO SRCPARAM 38546E9 .0002898 7.28 1273 20 20.806
**********END OF 38546: Pirate State No1H INFO**********************************
************************************************************
** 5.06km away. Facility ID=38644 Name=Pirate State No301H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.211333, -103.470208, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=38644EQPT7 Facility's ID=FL-1
** Description=Flare Construction date=11-SEP-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38644E7 POINT 644172.071 3564886.918 0
SO SRCPARAM 38644E7 .00126 15.24 1273 20 3.604
**********END OF 38644: Pirate State No301H
INFO**********************************
************************************************************
** 5.15km away. Facility ID=38141 Name=Pirate State No 101H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.211253, -103.469167, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.21tons/year
*****************Facility sources: ****************************
** NMED source ID=38141EQPT7 Facility's ID=Flare
** Description=high pressure SSM flare for separators: 8.33 Mscf/h Construction
date=06-DEC-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7176hr/yr, 24hr/day
SO LOCATION 38141E7 POINT 644270.314 3564879.446 0
SO SRCPARAM 38141E7 .0062999 12.19 1273 20 2.632
**********END OF 38141: Pirate State No 101H
INFO**********************************
************************************************************
** 5.22km away. Facility ID=38448 Name=Stonewall 28 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.192528, -103.472713, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.37tons/year
*****************Facility sources: ****************************
** NMED source ID=38448EQPT16 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8746hr/yr, 24hr/day
```

```
SO LOCATION 38448E16 VOLUME 643965.59 3562798.778 0
SO SRCPARAM 38448E16 .0002898 4.88 .47 .93
** NMED source ID=38448EQPT19 Facility's ID=FL-1HP
** Description=High Pressure Tip Construction date=06-JUL-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E19 POINT 643973.126 3562805.799 0
SO SRCPARAM 38448E19 .0050399 15.24 1273 20 .86
** NMED source ID=38448EQPT20 Facility's ID=HTR-2
** Description=Heater Treater Construction date=06-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E20 VOLUME 643966.34 3562809.351 0
SO SRCPARAM 38448E20 .0002898 4.88 .47 .93
** NMED source ID=38448EQPT21 Facility's ID=HTR-3
** Description=Heater Treater Construction date=06-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E21 VOLUME 643958.743 3562807.259 0
SO SRCPARAM 38448E21 .0002898 4.88 .47 .93
** NMED source ID=38448EQPT28 Facility's ID=FL-1 SSM
** Description=Flare Construction date=29-JAN-19
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E28 POINT 643954.502 3562800.359 0
SO SRCPARAM 38448E28 .0028728 15.24 1273 20 .86
** NMED source ID=38448RPNT2 Facility's ID=FUG
** Description=Equipment Fugitives Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8746hr/yr, 24hr/day
SO LOCATION 38448R2 VOLUME 643956.154 3562792.205 0
SO SRCPARAM 38448R2 .00252 1 .47 .93
**********END OF 38448: Stonewall 28 Fed Com CTB
INFO***********************************
************************************************************
** 5.24km away. Facility ID=39956 Name=Bald Eagle LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1839, -103.4781, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=4tons/year
*****************Facility sources: ****************************
** NMED source ID=39956RPNT2 Facility's ID=MALF
** Description=Malfunctions Construction date=04-MAY-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956R2 VOLUME 643471.284 3561835.053 0
SO SRCPARAM 39956R2 .377994 1 .47 .93
** NMED source ID=39956RPNT3 Facility's ID=SSM
** Description=Startup, Shutdown, and Maintenance Construction date=04-MAY-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956R3 VOLUME 643478.82 3561842.074 0
SO SRCPARAM 39956R3 .0575307 1 .47 .93
**********END OF 39956: Bald Eagle LGL Station
INFO**********************************
************************************************************
** 5.25km away. Facility ID=38489 Name=Pirate State Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.203228, -103.468788, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.3tons/year
*****************Facility sources: ****************************
** NMED source ID=38489EQPT1 Facility's ID=1
** Description=Compressor Engine CAT G3516 1380 hp w/catalyst Construction
date=29-JUN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7988hr/yr, 22hr/day
SO LOCATION 38489E1 POINT 644318.711 3563990.277 0
SO SRCPARAM 38489E1 .0005796 7.37 725.93 29.93 .41
** NMED source ID=38489EQPT2 Facility's ID=2
** Description=Compressor Engine CAT G3516 1380 hp w/catalyst Construction
date=29-JUN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38489E2 POINT 644326.247 3563997.298 0
SO SRCPARAM 38489E2 .0005796 7.37 725.93 29.93 .41
** NMED source ID=38489EQPT6 Facility's ID=6
** Description=Dehydrator Reboiler 1, 0.75 MMBtu/hr Construction date=29-JUN-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8219hr/yr, 23hr/day
SO LOCATION 38489E6 POINT 644319.461 3564000.85 0
SO SRCPARAM 38489E6 .00126 3.05 588.71 1.34 .3
** NMED source ID=38489EQPT11 Facility's ID=14
** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8298hr/yr, 23hr/day
SO LOCATION 38489E11 POINT 644311.864 3563998.758 0
SO SRCPARAM 38489E11 .00126 7.01 707.59 33.83 .46
** NMED source ID=38489EQPT12 Facility's ID=15
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** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8371hr/yr, 23hr/day
SO LOCATION 38489E12 POINT 644307.623 3563991.858 0
SO SRCPARAM 38489E12 .00126 7.01 707.59 33.83 .46
** NMED source ID=38489EQPT13 Facility's ID=16
** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7262hr/yr, 20hr/day
SO LOCATION 38489E13 POINT 644309.275 3563983.704 0
SO SRCPARAM 38489E13 .00126 7.01 707.59 33.83 .46
** NMED source ID=38489EQPT17 Facility's ID=18
** Description=TEG Dehydrator Construction date=23-MAY-19
** SCC=31000301
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8668hr/yr, 24hr/day
SO LOCATION 38489E17 POINT 644316.224 3563978.742 0
SO SRCPARAM 38489E17 .00252 7 730 28 .3
** NMED source ID=38489EQPT18 Facility's ID=20
** Description=TEG Dehydrator Construction date=23-MAY-19
** SCC=31000301
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8668hr/yr, 24hr/day
SO LOCATION 38489E18 POINT 644324.907 3563979.884 0
SO SRCPARAM 38489E18 .00252 7 730 28 .3
** NMED source ID=38489EQPT20 Facility's ID=22
** Description=Combustor Construction date=26-DEC-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38489E20 POINT 644330.617 3563986.812 0
SO SRCPARAM 38489E20 .00126 7.62 1273 20 20.806
** NMED source ID=38489EQPT21 Facility's ID=23
** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8307hr/yr, 23hr/day
SO LOCATION 38489E21 POINT 644330.052 3563995.993 0
SO SRCPARAM 38489E21 .00126 7.01 707.59 33.83 .46
** NMED source ID=38489RPNT1 Facility's ID=21
** Description=SSM and Malfunction Construction date=23-FEB-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38489R1 VOLUME 644323.217 3564002.471 0
SO SRCPARAM 38489R1 .0239396 1 .47 .93
**********END OF 38489: Pirate State Compressor Station
INFO**********************************
```

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************************************************************
** 5.46km away. Facility ID=39031 Name=Pirate State CTB1
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223875, -103.468111, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=39031EQPT16 Facility's ID=Flare
** Description=FL-1, Dual Tip Flare, 5.2 MMSCFD Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 39031E16 POINT 644349.894 3566280.184 0
SO SRCPARAM 39031E16 .0002898 10.67 1273 20 20.806
** NMED source ID=39031EQPT18 Facility's ID=FL-1-SSM
** Description=FL-1, Dual Tip Flare, 5.2 MMSCFD Construction date=16-JUL-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39031E18 POINT 644357.43 3566287.205 0
SO SRCPARAM 39031E18 .0005796 15.24 1273 20 5.505
** NMED source ID=39031RPNT1 Facility's ID=FUG-1
** Description=Fugitives Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 39031R1 VOLUME 644350.644 3566290.757 0
SO SRCPARAM 39031R1 .00126 1 .47 .93
**********END OF 39031: Pirate State CTB1 INFO************************************
************************************************************
** 5.5km away. Facility ID=39420 Name=EOG - Stonewall Northeast 28 Fe Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.195, -103.4685, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=39420EQPT8 Facility's ID=Fl-1
** Description=5.23 MMscfd Process Flare Construction date=18-MAR-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39420E8 POINT 644358.854 3563078.481 0
SO SRCPARAM 39420E8 .0002898 12.19 1273 20 2.632
** NMED source ID=39420EQPT9 Facility's ID=Fl-2
** Description=5.23 MMscfd Process Flare Construction date=18-MAR-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39420E9 POINT 644366.39 3563085.502 0
SO SRCPARAM 39420E9 .0002898 12.19 1273 20 2.632
```

**********END OF 39420: EOG - Stonewall Northeast 28 Fe Com CTB
INFO***********************************
************************************************************
** 5.56km away. Facility ID=38706 Name=Raider Federal Com No101H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.196067, -103.467442, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=38706EQPT3 Facility's ID=FL-1
** Description=4.5 MMscf/d Flare Process/Stranded Gas Construction date=28-NOV-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8088hr/yr, 24hr/day
SO LOCATION 38706E3 POINT 644456.905 3563198.194 0
SO SRCPARAM 38706E3 .0002898 14.02 1273 20 20.806
**********END OF 38706: Raider Federal Com No101H
INFO***********************************
************************************************************
** 5.57km away. Facility ID=39958 Name=Raider Fed Com CTB No 2
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.197222, -103.466944, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=1.43tons/year
*****************Facility sources: ******************************
** NMED source ID=39958EQPT17 Facility's ID=FL-1
** Description=Flare - Stranded Gas & VRU downtime Construction date=26-JUL-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39958E17 POINT 644502.025 3563326.91 0
SO SRCPARAM 39958E17 .0411383 12.19 1273 20 5.885
**********END OF 39958: Raider Fed Com CTB No 2
INFO***********************************
************************************************************
** 6.59km away. Facility ID=34027 Name=Thistle Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.211978, -103.593828, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.12tons/year
*****************Facility sources: ******************************
** NMED source ID=34027EQPT16 Facility's ID=AU-RB
** Description=Amine Reboiler, Southtex, RW-2100, 20-MMBtu/hr Construction
date=04-JUL-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34027E16 POINT 632519.762 3564799.263 0
SO SRCPARAM 34027E16 .00126 6.1 588.71 17.37 .53
** NMED source ID=34027EQPT26 Facility's ID=FL-1

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** Description=Process Flare- 35 MMscfd Construction date=05-AUG-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34027E26 POINT 632527.298 3564806.284 0
SO SRCPARAM 34027E26 .00126 13.72 1273 20 4.652
** NMED source ID=34027RPNT1 Facility's ID=SSM
** Description=Start-up, Shutdown, & Maintenance Construction date=13-AUG-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34027R1 VOLUME 632520.512 3564809.836 0
SO SRCPARAM 34027R1 .0011466 1 .47 .93
**********END OF 34027: Thistle Compressor Station
INFO************************************
************************************************************
** 6.87km away. Facility ID=38810 Name=Sheba and Solomon CTBs
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19659, -103.452791, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.12tons/year
*****************Facility sources: ******************************
** NMED source ID=38810RPNT3 Facility's ID=FUG
** Description=Fugitives Construction date=28-AUG-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38810R3 VOLUME 645837.2 3563275.958 0
SO SRCPARAM 38810R3 .0340195 1 .47 .93
**********END OF 38810: Sheba and Solomon CTBs
INFO************************************
************************************************************
** 7.25km away. Facility ID=33674 Name=Gramma Ridge Battery
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=5601 NOI
** lat,long,datum=32.223663, -103.448462, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.21tons/year
*****************Facility sources: ******************************
** NMED source ID=33674EQPT1 Facility's ID=TK-1
** Description=Crude Oil Tank 1 Construction date=01-JAN-20
** SCC=31000212
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33674E1 VOLUME 646201.954 3566283.256 0
SO SRCPARAM 33674E1 .00126 1 .47 .93
** NMED source ID=33674EQPT2 Facility's ID=TK-2
** Description=Crude Oil Tank 2 Construction date=01-JAN-20
** SCC=31000212
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
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SO LOCATION 33674E2 VOLUME 646209.49 3566290.277 0
SO SRCPARAM 33674E2 .00126 1 .47 .93
** NMED source ID=33674EQPT3 Facility's ID=TK-3
** Description=Crude Oil Tank 3 Construction date=01-JAN-20
** SCC=31000212
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33674E3 VOLUME 646202.704 3566293.829 0
SO SRCPARAM 33674E3 .00126 1 .47 .93
** NMED source ID=33674EQPT9 Facility's ID=LOAD-OIL
** Description=Oil Truck Loading Construction date=25-OCT-23
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33674E9 VOLUME 646195.107 3566291.737 0
SO SRCPARAM 33674E9 .0125998 1 .47 .93
** NMED source ID=33674EQPT10 Facility's ID=LOAD-PW
** Description=Water Truck Loading Construction date=25-OCT-23
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33674E10 VOLUME 646190.866 3566284.837 0
SO SRCPARAM 33674E10 .0138598 1 .47 .93
**********END OF 33674: Gramma Ridge Battery
INFO**********************************
************************************************************
** 8km away. Facility ID=39664 Name=EOG - Boa Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1864, -103.6039, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=4tons/year
****************Facility sources: ****************************
** NMED source ID=39664RPNT2 Facility's ID=M
** Description=Malfunction Construction date=21-SEP-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664R2 VOLUME 631607.305 3561951.302 0
SO SRCPARAM 39664R2 .377994 1 .47 .93
** NMED source ID=39664RPNT3 Facility's ID=SSM
** Description=Startup, Shutdown, and Maintenance Construction date=21-SEP-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664R3 VOLUME 631614.841 3561958.323 0
SO SRCPARAM 39664R3 .377994 1 .47 .93
**********END OF 39664: EOG - Boa Localized Gas Lift Station
INFO**********************************
************************************************************
** 8.4km away. Facility ID=40265 Name=Honey Buzzard 35 State Com CTB
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** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1714, -103.4477, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=40265EQPT18 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=16-DEC-22
** SCC=30609903
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40265E18 POINT 646357.43 3560490.227 0
SO SRCPARAM 40265E18 .0008568 12.19 1273 20 5.505
** NMED source ID=40265RPNT1 Facility's ID=FUG
** Description=Site Fugitives Construction date=30-DEC-21
** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40265R1 VOLUME 646364.966 3560497.248 0
SO SRCPARAM 40265R1 .0002898 1 .47 .93
**********END OF 40265: Honey Buzzard 35 State Com CTB
INFO*************************************
************************************************************
** 9.36km away. Facility ID=34175 Name=Cimarex Energy - Dos Equis 13 Federal 1H and
2H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223961, -103.621961, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=34175EQPT4 Facility's ID=GLYVNT
** Description=Triethylene Glycol (TEG) Dehydration Unit Construction date=13-NOV-14
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34175E4 POINT 629851.204 3566093.353 0
SO SRCPARAM 34175E4 .00126 7 730 28 .3
** NMED source ID=34175RPNT1 Facility's ID=FUGAREA
** Description=Haul Roads Fugitives Emissions Construction date=13-NOV-14
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8430hr/yr, 23hr/day
SO LOCATION 34175R1 VOLUME 629858.74 3566100.374 0
SO SRCPARAM 34175R1 .00126 10 10 9.3
**********END OF 34175: Cimarex Energy - Dos Equis 13 Federal 1H and 2H
INFO*************************************
************************************************************
** 9.45km away. Facility ID=38309 Name=Copperhead Compressor Station
** Company ID=265 Name=Targa Midstream Services LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.212128, -103.624164, WGS84
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** Total Hydrogen sulfide (NMAAQ) emissions=.21tons/year
*****************Facility sources: ****************************
** NMED source ID=38309EQPT21 Facility's ID=FLARE-Normal
** Description=Flare Construction date=21-NOV-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E21 POINT 629660.397 3564778.884 0
SO SRCPARAM 38309E21 .0062999 6.1 1273 20 2.632
**********END OF 38309: Copperhead Compressor Station
INFO*********************************
************************************************************
** 9.54km away. Facility ID=39575 Name=Bandit Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.1753, -103.6162, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=4tons/year
*****************Facility sources: ****************************
** NMED source ID=39575RPNT2 Facility's ID=SSM
** Description=Start-up, Shutdown, & Maintenance Construction date=25-JUN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575R2 VOLUME 630463.543 3560705.772 0
SO SRCPARAM 39575R2 .0575307 1 .47 .93
** NMED source ID=39575RPNT3 Facility's ID=MALF
** Description=Malfunction Construction date=25-JUN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575R3 VOLUME 630471.079 3560712.793 0
SO SRCPARAM 39575R3 .377994 1 .47 .93
**********END OF 39575: Bandit Compressor Station
INFO*********************************
************************************************************
** 9.69km away. Facility ID=39553 Name=Bull Run Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1564, -103.6044, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=4tons/year
*****************Facility sources: ****************************
** NMED source ID=39553RPNT2 Facility's ID=MALF
** Description=Malfunction Construction date=17-JUN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553R2 VOLUME 631603.309 3558624.896 0
SO SRCPARAM 39553R2 .377994 1 .47 .93
** NMED source ID=39553RPNT3 Facility's ID=SSM
** Description=Startup Shutdown and Maintenance Construction date=17-JUN-20
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** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553R3 VOLUME 631610.845 3558631.917 0
SO SRCPARAM 39553R3 .0575307 1 .47 .93
**********END OF 39553: Bull Run Compressor Station
INFO**********************************
************************************************************
** 9.98km away. Facility ID=40084 Name=EOG - Streetcar Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1284, -103.5662, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=4tons/year
*****************Facility sources: ****************************
** NMED source ID=40084RPNT2 Facility's ID=SSM
** Description=Startup, Shutdown, Maintenance Emissions Construction date=23-JUL-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084R2 VOLUME 635247.18 3555568.165 0
SO SRCPARAM 40084R2 .0575307 1 .47 .93
** NMED source ID=40084RPNT3 Facility's ID=MALF
** Description=Malfunction Emissions Construction date=23-JUL-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084R3 VOLUME 635254.716 3555575.186 0
SO SRCPARAM 40084R3 .0575307 1 .47 .93
**********END OF 40084: EOG - Streetcar Compressor Station
INFO**********************************
************************************************************
** 10.04km away. Facility ID=39298 Name=Dos Equis 12-13 Fed 5H 6H 73H 86H Facility
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.23617, -103.62615, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=39298EQPT4 Facility's ID=TL-W
** Description=Produced Water Truck Loading Construction date=14-JAN-20
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E4 VOLUME 629439.134 3567441.791 0
SO SRCPARAM 39298E4 .00252 1 .47 .93
**********END OF 39298: Dos Equis 12-13 Fed 5H 6H 73H 86H Facility
INFO**********************************
************************************************************
** 10.1km away. Facility ID=35592 Name=Brininstool Compressor Station
** Company ID=265 Name=Targa Midstream Services LLC
** SIC=1311 NAIC=21112    Permit=6317 Title V
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** lat,long,datum=32.300228, -103.540425, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=10.11tons/year
*****************Facility sources: ****************************
** NMED source ID=35592EQPT11 Facility's ID=F-01
** Description=Process Flare Construction date=24-AUG-15
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E11 POINT 637419.961 3574649.994 0
SO SRCPARAM 35592E11 .00252 12.19 1273 20 2.632
** NMED source ID=35592RPNT2 Facility's ID=FUG
** Description=Fugitive Emissions Construction date=24-AUG-15
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35592R2 VOLUME 637427.497 3574657.015 0
SO SRCPARAM 35592R2 .002583 1 .47 .93
** NMED source ID=35592RPNT3 Facility's ID=SSM
** Description=Startup, Shutdown, Maintenance Construction date=24-AUG-15
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35592R3 POINT 637420.711 3574660.567 0
SO SRCPARAM 35592R3 1.007984 2.5 572.6 15 .1
** NMED source ID=35592RPNT4 Facility's ID=M
** Description=malfunction Construction date=07-MAR-16
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592R4 POINT 637413.114 3574658.475 0
SO SRCPARAM 35592R4 1.007984 7 730 28 .3
**********END OF 35592: Brininstool Compressor Station
INFO************************************
************************************************************
** 10.16km away. Facility ID=33093 Name=Double X 25 Federal 4H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=5340 NOI
** lat,long,datum=32.195019, -103.630211, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=33093EQPT18 Facility's ID=SWLOAD
** Description=Water Truck Loading Construction date=24-DEC-15
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33093E18 VOLUME 629114.644 3562874.903 0
SO SRCPARAM 33093E18 .00126 1 .47 .93
** NMED source ID=33093EQPT19 Facility's ID=Flare 1 Normal
** Description=Flare (Normal) Construction date=26-JAN-16
** SCC=31000205
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6338hr/yr, 17hr/day
SO LOCATION 33093E19 POINT 629122.18 3562881.924 0
SO SRCPARAM 33093E19 .0002898 8.23 1273 20 20.806
**********END OF 33093: Double X 25 Federal 4H
INFO*************************************
************************************************************
** 10.93km away. Facility ID=5557 Name=Falcon Ridge CGL
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.247974, -103.416538, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=5.51tons/year
*****************Facility sources: ******************************
** NMED source ID=5557ACT 1 Facility's ID=SITE-SSM
** Description=Startup, Shutdown, and Maintenance (SSM) Emissions Construction
date=10-JUL-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557@1 VOLUME 649170.751 3569022.394 0
SO SRCPARAM 5557@1 .010357 1 .47 .93
** NMED source ID=5557EQPT1 Facility's ID=DEHY-1
** Description=Glycol Dehydrator Construction date=10-JUL-23
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E1 POINT 649178.287 3569029.415 0
SO SRCPARAM 5557E1 .0667789 7 730 28 .3
** NMED source ID=5557EQPT2 Facility's ID=DEHY-2
** Description=Glycol Dehydrator Construction date=10-JUL-23
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E2 POINT 649171.501 3569032.967 0
SO SRCPARAM 5557E2 .0667789 7 730 28 .3
** NMED source ID=5557EQPT10 Facility's ID=FLR-1
** Description=Emergency Flare (pilot only) Construction date=10-JUL-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E10 POINT 649163.904 3569030.875 0
SO SRCPARAM 5557E10 .0002898 7.62 1273 20 20.806
** NMED source ID=5557RPNT1 Facility's ID=FUG
** Description=Process Fugitives Construction date=10-JUL-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557R1 VOLUME 649159.663 3569023.975 0
SO SRCPARAM 5557R1 .0125998 1 .47 .93
**********END OF 5557: Falcon Ridge CGL INFO**************************************
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************************************************************
** 11.06km away. Facility ID=40389 Name=Jeff Hart West
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.269069, -103.428976, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.12tons/year
*****************Facility sources: ******************************
** NMED source ID=40389EQPT8 Facility's ID=FL-1
** Description=Standard Flare Construction date=07-APR-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E8 POINT 647964.661 3571343.875 0
SO SRCPARAM 40389E8 .1650574 6.1 1273 20 16.116
** NMED source ID=40389EQPT9 Facility's ID=FL-2
** Description=Standard Flare Construction date=07-APR-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E9 POINT 647972.197 3571350.896 0
SO SRCPARAM 40389E9 .1650574 6.1 1273 20 16.116
**********END OF 40389: Jeff Hart West INFO************************************
************************************************************
** 11.87km away. Facility ID=41065 Name=Falcon Ridge CPF-OGS
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21113    Permit=9967 NOI
** lat,long,datum=32.247761, -103.405816, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=2.26tons/year
*****************Facility sources: ******************************
** NMED source ID=41065EQPT1 Facility's ID=FLR-1
** Description=Flare Construction date=02-MAY-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065E1 POINT 650181.286 3569013.73 0
SO SRCPARAM 41065E1 .0002898 24.38 1273 20 20.806
** NMED source ID=41065RPNT1 Facility's ID=FUG
** Description=Fugitive Emissions Construction date=02-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065R1 VOLUME 650188.822 3569020.751 0
SO SRCPARAM 41065R1 .0062999 1 .47 .93
** NMED source ID=41065RPNT3 Facility's ID=VRU-FUG
** Description=VRU Downtime Emissions Construction date=02-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065R3 VOLUME 650182.036 3569024.303 0
SO SRCPARAM 41065R3 .0592191 1 .47 .93
```

**********END OF 41065: Falcon Ridge CPF-OGS
INFO**********
**********
** 12.16km away. Facility ID=38051 Name=Triste Draw 25 West Battery
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.27169, -103.63086, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
**********Facility sources: **********
** NMED source ID=38051EQPT9 Facility's ID=TL-W
** Description=Produced Water Loading Construction date=21-SEP-17
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38051E9 VOLUME 628945.111 3571373.893 0
SO SRCPARAM 38051E9 .00252 1 .47 .93
**********END OF 38051: Triste Draw 25 West Battery
INFO**********
**********
** 12.28km away. Facility ID=39183 Name=Bonaid Federal 17 D CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8501 NOI
** lat,long,datum=32.2231, -103.39438, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.09tons/year
**********Facility sources: **********
** NMED source ID=39183EQPT9 Facility's ID=FL-01
** Description=LP Flare Construction date=15-MAY-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39183E9 POINT 651299.623 3566295.734 0
SO SRCPARAM 39183E9 .00126 10.67 1273 20 .61
** NMED source ID=39183RPNT1 Facility's ID=F-01
** Description=Fugitive Components Construction date=01-JAN-20
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39183R1 VOLUME 651307.159 3566302.755 0
SO SRCPARAM 39183R1 .00126 1 .47 .93
**********END OF 39183: Bonaid Federal 17 D CTB
INFO**********
**********
** 12.58km away. Facility ID=39472 Name=Ghost Rider North Satellite and Gas Lift
** Company ID=10730 Name=Apache Corporation
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.215119, -103.657383, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.25tons/year
**********Facility sources: **********
** NMED source ID=39472EQPT11 Facility's ID=AU-1
** Description=Amine Unit 6 MMSCFD Construction date=23-AUG-21

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** SCC=31000201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472E11 VOLUME 626525.405 3565070.865 0
SO SRCPARAM 39472E11 .0075599 1 .47 .93
**********END OF 39472: Ghost Rider North Satellite and Gas Lift
INFO**********************************
************************************************************
** 12.62km away. Facility ID=39451 Name=EOG - Viper Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1327, -103.6212, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=4tons/year
*****************Facility sources: ****************************
** NMED source ID=39451RPNT2 Facility's ID=SSM
** Description=Startup, Shutdown, and Maintenance Construction date=03-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39451R2 VOLUME 630052.602 3555977.117 0
SO SRCPARAM 39451R2 .0575307 1 .47 .93
** NMED source ID=39451RPNT3 Facility's ID=M
** Description=Malfunction Construction date=03-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39451R3 VOLUME 630060.138 3555984.138 0
SO SRCPARAM 39451R3 .377994 1 .47 .93
**********END OF 39451: EOG - Viper Localized Gas Lift Station
INFO**********************************
************************************************************
** 12.71km away. Facility ID=37515 Name=Twisted Sister Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.150834, -103.638889, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=2.11tons/year
*****************Facility sources: ****************************
** NMED source ID=37515EQPT2 Facility's ID=16-0494
** Description=Compressor Engine Cat G3606 1775HP Construction date=12-MAY-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7998hr/yr, 22hr/day
SO LOCATION 37515E2 POINT 628358.572 3557966.203 0
SO SRCPARAM 37515E2 .00126 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT7 Facility's ID=16-0495
** Description=Compressor Engine Cat G3606 1775HP Construction date=12-MAY-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8336hr/yr, 23hr/day
SO LOCATION 37515E7 POINT 628366.108 3557973.224 0
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SO SRCPARAM 37515E7 .00126 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT8 Facility's ID=17-0584
** Description=Compressor Engine Cat G3606 1775HP Construction date=12-MAY-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8207hr/yr, 22hr/day
SO LOCATION 37515E8 POINT 628359.322 3557976.776 0
SO SRCPARAM 37515E8 .00126 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT9 Facility's ID=ENG-4
** Description=Compressor Engine Cat. G3606 1775HP Construction date=12-MAY-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37515E9 POINT 628351.725 3557974.684 0
SO SRCPARAM 37515E9 .00126 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT18 Facility's ID=AU-RB
** Description=Amine Reboiler 12.6 MMBTU/hr Construction date=16-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8630hr/yr, 24hr/day
SO LOCATION 37515E18 POINT 628347.484 3557967.784 0
SO SRCPARAM 37515E18 .0516592 9.14 588.71 9.91 .56
** NMED source ID=37515EQPT21 Facility's ID=RBL-1
** Description=0.75 MMBTU/h Dehydrator Reboiler Construction date=13-SEP-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8630hr/yr, 24hr/day
SO LOCATION 37515E21 POINT 628349.136 3557959.63 0
SO SRCPARAM 37515E21 .00252 4.57 588.71 5.27 .3
** NMED source ID=37515EQPT22 Facility's ID=RBL-2
** Description=0.5 MMBTU/h Dehydrator Reboiler Construction date=13-SEP-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37515E22 POINT 628356.085 3557954.668 0
SO SRCPARAM 37515E22 .00252 4.57 588.71 5.27 .3
** NMED source ID=37515EQPT25 Facility's ID=TO-1
** Description=Control Thermal Oxidizer Construction date=13-SEP-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5208hr/yr, 14hr/day
SO LOCATION 37515E25 POINT 628364.768 3557955.81 0
SO SRCPARAM 37515E25 .00126 6.1 1033.15 12.19 .46
**********END OF 37515: Twisted Sister Compressor Station
INFO**********************************
************************************************************
** 12.87km away. Facility ID=40238 Name=EOG - Tiger Local Gas Lift
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1563, -103.6445, WGS84
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** Total Hydrogen sulfide (NMAAQ) emissions=4tons/year
*****************Facility sources: ****************************
** NMED source ID=40238RPNT3 Facility's ID=MALF
** Description=Malfunction emissions Construction date=07-DEC-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40238R3 VOLUME 627821.757 3558565.479 0
SO SRCPARAM 40238R3 .0575307 1 .47 .93
** NMED source ID=40238RPNT4 Facility's ID=SSM
** Description=SSM Activities Construction date=07-DEC-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40238R4 VOLUME 627829.293 3558572.5 0
SO SRCPARAM 40238R4 .0575307 1 .47 .93
**********END OF 40238: EOG - Tiger Local Gas Lift
INFO***********************************
************************************************************
** 13.1km away. Facility ID=38050 Name=Vaca Draw 20-17 Federal 1H-13H, 29H-31H,
43H-45H, 57H-59H, 61H, 71H-73H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.11182, -103.5995, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.28tons/year
*****************Facility sources: ****************************
** NMED source ID=38050EQPT26 Facility's ID=Flare3
** Description=Process Flare Construction date=05-JUL-18
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38050E26 POINT 632129.68 3553688.791 0
SO SRCPARAM 38050E26 .0005796 18.29 1273 20 20.806
** NMED source ID=38050EQPT36 Facility's ID=TL-O
** Description=Oil/Condensate Loading Construction date=06-AUG-21
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E36 VOLUME 632137.216 3553695.812 0
SO SRCPARAM 38050E36 .0050399 1 .47 .93
** NMED source ID=38050EQPT37 Facility's ID=TL-W
** Description=Water Loading Construction date=06-AUG-21
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E37 VOLUME 632130.43 3553699.364 0
SO SRCPARAM 38050E37 .0541791 1 .47 .93
** NMED source ID=38050EQPT71 Facility's ID=Flare1 SSM
** Description=Process Flare Construction date=02-NOV-17
** SCC=31000215
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** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E71 POINT 632122.833 3553697.272 0
SO SRCPARAM 38050E71 .0005796 18.29 1273 20 2.632
** NMED source ID=38050EQPT72 Facility's ID=Flare3 SSM
** Description=Process Flare Construction date=02-NOV-17
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E72 POINT 632118.592 3553690.372 0
SO SRCPARAM 38050E72 .0028728 18.29 1273 20 2.632
**********END OF 38050: Vaca Draw 20-17 Federal 1H-13H, 29H-31H, 43H-45H, 57H-59H,
61H, 71H-73H INFO**********************************
************************************************************
** 13.17km away. Facility ID=6334 Name=Tweety Bird 17 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.30901, -103.60152, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=6334EQPT17 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=30-JUN-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E17 POINT 631654.619 3575546.9 0
SO SRCPARAM 6334E17 .0008568 12.19 1273 20 4.652
** NMED source ID=6334RPNT1 Facility's ID=FUG
** Description=Fugitive Emissions Construction date=30-JUN-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334R1 VOLUME 631662.155 3575553.921 0
SO SRCPARAM 6334R1 .0002898 1 .47 .93
**********END OF 6334: Tweety Bird 17 Fed Com CTB
INFO**********************************
************************************************************
** 13.86km away. Facility ID=38049 Name=Seawolf Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.086153, -103.529725, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.16tons/year
*****************Facility sources: ****************************
** NMED source ID=38049EQPT1 Facility's ID=17-0723
** Description=Caterpillar G3606 Construction date=29-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7011hr/yr, 19hr/day
SO LOCATION 38049E1 POINT 638752.005 3550931.034 0
SO SRCPARAM 38049E1 .0005796 7.01 707.04 34.02 .46
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** NMED source ID=38049EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516 Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E2 POINT 638759.541 3550938.055 0
SO SRCPARAM 38049E2 .0002898 6.4 717.04 52.18 .3
** NMED source ID=38049EQPT3 Facility's ID=18-238
** Description=Compressor Engine Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8090hr/yr, 22hr/day
SO LOCATION 38049E3 POINT 638752.755 3550941.607 0
SO SRCPARAM 38049E3 .0005796 7.01 707.04 34.02 .46
** NMED source ID=38049EQPT4 Facility's ID=18-337
** Description=Compressor Engine Construction date=29-JUL-18
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E4 POINT 638745.158 3550939.515 0
SO SRCPARAM 38049E4 .00126 7.01 714.26 46.02 .46
** NMED source ID=38049EQPT11 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E11 POINT 638740.917 3550932.615 0
SO SRCPARAM 38049E11 .0002898 6.4 717.04 52.18 .3
** NMED source ID=38049EQPT12 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E12 POINT 638742.569 3550924.461 0
SO SRCPARAM 38049E12 .0005796 7.01 707.04 34.02 .46
** NMED source ID=38049EQPT13 Facility's ID=Rbl-2
** Description=Dehydrator Reboiler 2 Construction date=29-JUL-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1574hr/yr, 4hr/day
SO LOCATION 38049E13 POINT 638749.518 3550919.499 0
SO SRCPARAM 38049E13 .00126 3.05 588.71 1.31 .3
**********END OF 38049: Seawolf Compressor Station
INFO**********************************
************************************************************
** 14km away. Facility ID=41037 Name=Cascade 29 CTB
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.09843, -103.591204, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.03tons/year
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**********Facility sources: ***************************
** NMED source ID=41037EQPT8 Facility's ID=TL-W
** Description=Produced Water Truck Loading Construction date=22-MAY-23
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037E8 VOLUME 632931.835 3552214.592 0
SO SRCPARAM 41037E8 .0037799 1 .47 .93
** NMED source ID=41037EQPT12 Facility's ID=Flare 1 SSM
** Description=Flare Construction date=22-MAY-23
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037E12 POINT 632939.371 3552221.613 0
SO SRCPARAM 41037E12 .0002898 9.14 1273 20 4.652
** NMED source ID=41037RPNT1 Facility's ID=FUG
** Description=Facility Fugitives Construction date=22-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037R1 VOLUME 632932.585 3552225.165 0
SO SRCPARAM 41037R1 .0002898 1 .47 .93
**********END OF 41037: Cascade 29 CTB INFO************************************
************************************************************
** 14.09km away. Facility ID=29590 Name=Big Lizard Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=7960 Title V
** lat,long,datum=32.307633, -103.6199, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=3.66tons/year
**********Facility sources: ***************************
** NMED source ID=29590EQPT20 Facility's ID=AU-Rb 1
** Description=15.0 MMBtu/hr Amine Reboiler Construction date=23-JAN-19
** SCC=10200602
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8640hr/yr, 24hr/day
SO LOCATION 29590E20 POINT 569351.587 3626398.756 1067.1
SO SRCPARAM 29590E20 .052642 9.14 588.71 11.92 .56
** NMED source ID=29590EQPT21 Facility's ID=AU-Rb 2
** Description=15.0 MMBtu/hr Amine Reboiler Construction date=23-JAN-19
** SCC=10200602
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8640hr/yr, 24hr/day
SO LOCATION 29590E21 POINT 569351.587 3626398.756 1067.1
SO SRCPARAM 29590E21 .052642 9.14 588.71 11.92 .56
**********END OF 29590: Big Lizard Compressor Station
INFO************************************
************************************************************
** 14.4km away. Facility ID=39049 Name=Cotton Draw Section 3 Compressor Station
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21113    Permit=unknown
```

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** lat,long,datum=32.153411, -103.660972, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=39049RPNT2 Facility's ID=SSM
** Description=startup, shutdown, maintenance Construction date=21-JUL-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049R2 VOLUME 626272.33 3558225.765 0
SO SRCPARAM 39049R2 .0011466 1 .47 .93
**********END OF 39049: Cotton Draw Section 3 Compressor Station
INFO**********************************
************************************************************
** 14.47km away. Facility ID=38422 Name=Angus Brahman Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7826 NOI
** lat,long,datum=32.22425, -103.371097, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=38422EQPT3 Facility's ID=VCU-01
** Description=Tank Vapor Combustor Construction date=01-JAN-20
** SCC=30609903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38422E3 POINT 653491.931 3566456.264 0
SO SRCPARAM 38422E3 .0002898 7.62 755.37 .3 1.22
** NMED source ID=38422EQPT12 Facility's ID=VCU-02
** Description=Tank Vapor Combustor Construction date=01-OCT-17
** SCC=30609903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38422E12 POINT 653499.467 3566463.285 0
SO SRCPARAM 38422E12 .0002898 7.62 755.37 .3 1.22
**********END OF 38422: Angus Brahman Battery
INFO**********************************
************************************************************
** 14.59km away. Facility ID=40110 Name=FME - Colorado Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.225587, -103.370022, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.11tons/year
*****************Facility sources: ****************************
** NMED source ID=40110EQPT4 Facility's ID=LPF-01
** Description=Low Pressure Flare Construction date=07-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1944hr/yr, 24hr/day
SO LOCATION 40110E4 POINT 653590.992 3566606.029 0
SO SRCPARAM 40110E4 .0037799 9.14 1273 20 4.652
**********END OF 40110: FME - Colorado Central Tank Battery
```

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INFO**********************************
************************************************************
** 14.95km away. Facility ID=38909 Name=Newman Cosmo CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.176439, -103.370396, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.27tons/year
*****************Facility sources: ****************************
** NMED source ID=38909EQPT7 Facility's ID=Flare-1
** Description=High Pressure Flare 79.17 M SCF/d Construction date=17-APR-19
** SCC=30190014
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5832hr/yr, 24hr/day
SO LOCATION 38909E7 POINT 653638.353 3561156.676 0
SO SRCPARAM 38909E7 .0037799 12.19 1273 20 20.806
** NMED source ID=38909EQPT8 Facility's ID=GBT
** Description=Gun Barrel Separator Construction date=17-APR-19
** SCC=40400315
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38909E8 VOLUME 653645.889 3561163.697 0
SO SRCPARAM 38909E8 .00252 1 .47 .93
** NMED source ID=38909RPNT1 Facility's ID=FUG
** Description=Fugitives Construction date=17-APR-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38909R1 VOLUME 653639.103 3561167.249 0
SO SRCPARAM 38909R1 .0002898 1 .47 .93
** NMED source ID=38909TRMT1 Facility's ID=VRU
** Description=Vapor Recovery Unit Construction date=17-APR-19
** SCC=30600401
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38909T1 VOLUME 653631.506 3561165.157 0
SO SRCPARAM 38909T1 .00252 1 .47 .93
**********END OF 38909: Newman Cosmo CTB INFO**********************************
************************************************************
** 15km away. Facility ID=39381 Name=Red Hills 32-5 Fed Com 127H, 130H-131H,
155H-157H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.09157, -103.59848, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=39381EQPT11 Facility's ID=TL-W
** Description=Produced Water Truck Loading Construction date=27-FEB-20
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 39381E11 VOLUME 632255.108 3551445.152 0
SO SRCPARAM 39381E11 .00126 1 .47 .93
** NMED source ID=39381EQPT14 Facility's ID=Flare 1-SSM
** Description=Process Flare - SSM Construction date=15-DEC-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39381E14 POINT 632262.644 3551452.173 0
SO SRCPARAM 39381E14 .0002898 12.19 1273 20 .61
**********END OF 39381: Red Hills 32-5 Fed Com 127H, 130H-131H, 155H-157H
INFO**********************************
**************************************************************
** 15.21km away. Facility ID=38582 Name=EOG - Bodacious Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1121, -103.635833, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=4tons/year
****************Facility sources: ******************************
** NMED source ID=38582RPNT5 Facility's ID=SSM
** Description=Startup, Shutdown, Maintenance Construction date=19-APR-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38582R5 VOLUME 628701.176 3553675.858 0
SO SRCPARAM 38582R5 .0575307 1 .47 .93
** NMED source ID=38582RPNT6 Facility's ID=M
** Description=Malfunction Construction date=19-APR-19
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38582R6 VOLUME 628708.712 3553682.879 0
SO SRCPARAM 38582R6 .377994 1 .47 .93
**********END OF 38582: EOG - Bodacious Localized Gas Lift Station
INFO**********************************
**************************************************************
** 15.45km away. Facility ID=7803 Name=Stranger 34 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.08257, -103.460473, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=1.04tons/year
****************Facility sources: ******************************
** NMED source ID=7803EQPT12 Facility's ID=FL-1 LP SSM
** Description=Flare 1 Low Pressure Side SSM Construction date=17-JAN-24
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E12 POINT 645293.764 3550625.031 0
SO SRCPARAM 7803E12 .002583 12.19 1273 20 20.806
** NMED source ID=7803EQPT13 Facility's ID=FL-1 HP SSM
** Description=Flare 1 High Pressure Side Construction date=17-JAN-24
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** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E13 POINT 645301.3 3550632.052 0
SO SRCPARAM 7803E13 .0017262 12.19 1273 20 20.806
** NMED source ID=7803EQPT14 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=17-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E14 VOLUME 645294.514 3550635.604 0
SO SRCPARAM 7803E14 .00252 9.14 .47 .93
** NMED source ID=7803EQPT15 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=17-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E15 VOLUME 645286.917 3550633.512 0
SO SRCPARAM 7803E15 .00252 9.14 .47 .93
** NMED source ID=7803EQPT16 Facility's ID=OILLOAD-1
** Description=Oil Truck Loading Construction date=17-JAN-24
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E16 VOLUME 645282.676 3550626.612 0
SO SRCPARAM 7803E16 .1121382 1 .47 .93
** NMED source ID=7803EQPT20 Facility's ID=PWLOAD-1
** Description=Water Truck Loading Construction date=17-JAN-24
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E20 VOLUME 645284.328 3550618.458 0
SO SRCPARAM 7803E20 .3364147 1 .47 .93
** NMED source ID=7803RPNT1 Facility's ID=FUG-1
** Description=Sitewide Fugitives Construction date=17-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803R1 VOLUME 645291.277 3550613.496 0
SO SRCPARAM 7803R1 .00252 1 .47 .93
**********END OF 7803: Stranger 34 CTB 2 INFO**********************************
************************************************************
** 15.5km away. Facility ID=40606 Name=Siege Compressor Station
** Company ID=14143 Name=Northwind Midstream Partners LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.2822, -103.3827, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=2.49tons/year
****************Facility sources: ****************************
** NMED source ID=40606EQPT7 Facility's ID=FL-1 SSM
** Description=Flare Construction date=22-SEP-22
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** SCC=30600904
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E7 POINT 652301.645 3572864.43 0
SO SRCPARAM 40606E7 .0601262 22.86 1273 20 2.632
** NMED source ID=40606EQPT14 Facility's ID=TO-1
** Description=Thermal Oxidizer Construction date=22-SEP-22
** SCC=30600904
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E14 POINT 652309.181 3572871.451 0
SO SRCPARAM 40606E14 .00126 7.62 1033.15 .08 1.22
** NMED source ID=40606RPNT1 Facility's ID=FUG
** Description=Fugitive Emissions Construction date=01-DEC-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606R1 VOLUME 652302.395 3572875.003 0
SO SRCPARAM 40606R1 .0113398 1 .47 .93
**********END OF 40606: Siege Compressor Station
INFO**********************************
************************************************************
** 15.55km away. Facility ID=40853 Name=Pelican Compressor Station
** Company ID=14143 Name=Northwind Midstream Partners LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.166191, -103.367421, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=2.24tons/year
*****************Facility sources: ****************************
** NMED source ID=40853EQPT13 Facility's ID=TO-1
** Description=Thermal Oxidizer Construction date=04-JAN-23
** SCC=30600904
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E13 POINT 653936.11 3560024.785 0
SO SRCPARAM 40853E13 .00126 7.62 1033.15 .37 1.22
** NMED source ID=40853EQPT14 Facility's ID=FL-1 SSM
** Description=Flare Construction date=05-SEP-23
** SCC=30600904
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E14 POINT 653943.646 3560031.806 0
SO SRCPARAM 40853E14 .0569637 22.86 1273 20 3.604
** NMED source ID=40853RPNT1 Facility's ID=FUG
** Description=Fugitives Construction date=04-JAN-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853R1 VOLUME 653936.86 3560035.358 0
SO SRCPARAM 40853R1 .0075599 1 .47 .93
**********END OF 40853: Pelican Compressor Station
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INFO**********************************
************************************************************
** 15.57km away. Facility ID=39565 Name=Gipple A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.168744, -103.366131, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.36tons/year
*****************Facility sources: ****************************
** NMED source ID=39565EQPT12 Facility's ID=FL-1a,b,d
** Description=Flare, low-pressure side of dual tip Construction date=18-JUN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2928hr/yr, 24hr/day
SO LOCATION 39565E12 POINT 654053.46 3560309.67 0
SO SRCPARAM 39565E12 .0002898 12.19 1273 20 20.806
** NMED source ID=39565EQPT13 Facility's ID=FL-1c
** Description=Flare, high-pressure side of dual tip Construction date=18-JUN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2928hr/yr, 24hr/day
SO LOCATION 39565E13 POINT 654060.996 3560316.691 0
SO SRCPARAM 39565E13 .0100672 12.19 1273 20 4.652
**********END OF 39565: Gipple A CTB INFO**********************************
************************************************************
** 15.65km away. Facility ID=39694 Name=EOG - Gladiator 3 Fed No301H Facility
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.240261, -103.361397, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=39694EQPT3 Facility's ID=HTR-1
** Description=0.75 MM Btu/hr Heater Treater Construction date=17-NOV-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1609hr/yr, 24hr/day
SO LOCATION 39694E3 VOLUME 654378.99 3568245.246 0
SO SRCPARAM 39694E3 .0017262 5.18 .47 .93
**********END OF 39694: EOG - Gladiator 3 Fed No301H Facility
INFO**********************************
************************************************************
** 15.7km away. Facility ID=39842 Name=EOG - Anaconda LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0961, -103.6212, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=4tons/year
*****************Facility sources: ****************************
** NMED source ID=39842RPNT3 Facility's ID=SSM
** Description=Startup, Shutdown, Maintenance Construction date=03-FEB-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39842R3 VOLUME 630104.519 3551919.695 0
SO SRCPARAM 39842R3 .0575307 1 .47 .93
** NMED source ID=39842RPNT4 Facility's ID=M
** Description=Malfunction emissions Construction date=03-FEB-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39842R4 VOLUME 630112.055 3551926.716 0
SO SRCPARAM 39842R4 .0575307 1 .47 .93
**********END OF 39842: EOG - Anaconda LGL Station
INFO**********************************
************************************************************
** 16.44km away. Facility ID=38392 Name=White Falcon Fed 16 C Central Tank Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7795 NOI
** lat,long,datum=32.135419, -103.373681, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.21tons/year
*****************Facility sources: ****************************
** NMED source ID=38392EQPT3 Facility's ID=VCU-01
** Description=Vapor Combustion Unit Construction date=01-JAN-20
** SCC=30600903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38392E3 POINT 653397.329 3556604.319 0
SO SRCPARAM 38392E3 .00252 7.01 755.37 .3 1.22
** NMED source ID=38392EQPT5 Facility's ID=FL-01
** Description=LP Flare Construction date=01-JAN-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 14hr/day
SO LOCATION 38392E5 POINT 653404.865 3556611.34 0
SO SRCPARAM 38392E5 .0037799 10.67 1273 20 .61
**********END OF 38392: White Falcon Fed 16 C Central Tank Battery
INFO**********************************
************************************************************
** 16.52km away. Facility ID=38457 Name=Hunter 21 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2951, -103.3797, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=38457EQPT2 Facility's ID=FL-1
** Description=Process Flare Construction date=26-JUL-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38457E2 POINT 652562.578 3574298.875 0
SO SRCPARAM 38457E2 .0062999 6.1 1273 20 .61
**********END OF 38457: Hunter 21 State CTB
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INFO************************************
************************************************************
** 16.56km away. Facility ID=40001 Name=Green Beret Federal 20 A CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9226 NOI
** lat,long,datum=32.121008, -103.383572, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=40001EQPT1 Facility's ID=FL-01
** Description=Low Pressure Flare Construction date=02-AUG-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40001E1 POINT 652488.26 3554992.609 0
SO SRCPARAM 40001E1 .0002898 12.19 1273 20 20.806
**********END OF 40001: Green Beret Federal 20 A CTB
INFO************************************
************************************************************
** 16.61km away. Facility ID=39523 Name=Donkey Kong 1 Fed Com CTB 1
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.330985, -103.419713, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.78tons/year
*****************Facility sources: ******************************
** NMED source ID=39523EQPT9 Facility's ID=FL-1 LP
** Description=Tri-Tip Flare LP side Construction date=24-NOV-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3240hr/yr, 24hr/day
SO LOCATION 39523E9 POINT 648735.985 3578221.065 0
SO SRCPARAM 39523E9 .0002898 12.19 1273 20 20.806
** NMED source ID=39523EQPT13 Facility's ID=FL-1 HP
** Description=Tri-Tip Flare HP side-Stranded Gas Construction date=24-NOV-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39523E13 POINT 648743.521 3578228.086 0
SO SRCPARAM 39523E13 .0226796 12.19 1273 20 4.652
**********END OF 39523: Donkey Kong 1 Fed Com CTB 1
INFO************************************
************************************************************
** 16.79km away. Facility ID=38548 Name=Pegasus 23-35-16 Battery
** Company ID=14164 Name=Marlin Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.298433, -103.37894, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.11tons/year
*****************Facility sources: ******************************
** NMED source ID=38548EQPT9 Facility's ID=FL-1
** Description=Flare, 34.9 MMSCF/Y Construction date=04-NOV-22
** SCC=31000160
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38548E9 POINT 652628.558 3574669.476 0
SO SRCPARAM 38548E9 .00126 9.14 1273 20 2.632
** NMED source ID=38548EQPT12 Facility's ID=FL-1S
** Description=Flare, 54.75 MMSCF/Y, Stranded Gas Construction date=03-AUG-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38548E12 POINT 652636.094 3574676.497 0
SO SRCPARAM 38548E12 .00252 9.14 1273 20 2.632
**********END OF 38548: Pegasus 23-35-16 Battery
INFO***********************************
************************************************************
** 16.87km away. Facility ID=40010 Name=Fez Federal 9 P CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9242 NOI
** lat,long,datum=32.139842, -103.365547, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=40010EQPT1 Facility's ID=FL-01
** Description=Low Pressure Flare Construction date=01-NOV-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40010E1 POINT 654157.19 3557106.29 0
SO SRCPARAM 40010E1 .0002898 12.19 1273 20 20.806
**********END OF 40010: Fez Federal 9 P CTB
INFO***********************************
************************************************************
** 16.88km away. Facility ID=38633 Name=Duck Hunt 1 State Com CTB
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.332814, -103.417714, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.72tons/year
*****************Facility sources: ******************************
** NMED source ID=38633EQPT5 Facility's ID=FL-1
** Description=Dual Tip Flare (4.5 MMSCF/d) Construction date=22-MAR-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38633E5 POINT 648921.155 3578426.617 0
SO SRCPARAM 38633E5 .0094876 15.24 1273 20 20.806
** NMED source ID=38633EQPT7 Facility's ID=FL-2
** Description=Dual Tip Flare (4.5 MMSCF/d) Construction date=22-MAR-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38633E7 POINT 648928.691 3578433.638 0
SO SRCPARAM 38633E7 .0088199 15.24 1273 20 4.652
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** NMED source ID=38633RPNT3 Facility's ID=FUG
** Description=Fugitives Construction date=22-MAR-19
** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38633R3 VOLUME 648921.905 3578437.19 0
SO SRCPARAM 38633R3 .00252 1 .47 .93
**********END OF 38633: Duck Hunt 1 State Com CTB
INFO**********************************
************************************************************
** 16.98km away. Facility ID=38691 Name=Mortal Kombat 36 State Com No502H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.341367, -103.431026, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=38691EQPT7 Facility's ID=FL-1
** Description=36.1 MMscf/d Dual tip Flare Construction date=09-SEP-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4872hr/yr, 24hr/day
SO LOCATION 38691E7 POINT 647654.231 3579356.423 0
SO SRCPARAM 38691E7 .00252 15.24 1273 20 3.604
**********END OF 38691: Mortal Kombat 36 State Com No502H
INFO**********************************
************************************************************
** 17.09km away. Facility ID=37593 Name=EOG - Foghorn/Leghorn 32 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.354867, -103.585775, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=1.58tons/year
*****************Facility sources: ****************************
** NMED source ID=37593EQPT4 Facility's ID=Flare-1
** Description=Flare 4.33 MSCFD Construction date=22-NOV-16
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37593E4 POINT 633069.877 3580650.189 0
SO SRCPARAM 37593E4 .00126 12.19 1273 20 20.806
** NMED source ID=37593RPNT1 Facility's ID=FUG
** Description=Sitewide Fugitives Construction date=22-NOV-16
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37593R1 VOLUME 633077.413 3580657.21 0
SO SRCPARAM 37593R1 .0377994 1 .47 .93
**********END OF 37593: EOG - Foghorn/Leghorn 32 State CTB
INFO**********************************
************************************************************
** 17.21km away. Facility ID=39543 Name=Pac Man 36 Fed Com Battery
```

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** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.341629, -103.426965, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=39543RPNT1 Facility's ID=FUG-1
** Description=Fugitives Construction date=21-MAY-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3192hr/yr, 24hr/day
SO LOCATION 39543R1 VOLUME 648036.022 3579391.077 0
SO SRCPARAM 39543R1 .00126 1 .47 .93
**********END OF 39543: Pac Man 36 Fed Com Battery
INFO*********************************
************************************************************
** 17.51km away. Facility ID=38720 Name=Greyhound Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.354722, -103.449586, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=1.24tons/year
*****************Facility sources: ****************************
** NMED source ID=38720EQPT34 Facility's ID=FL-1 HPF SSM
** Description=Dual Tip High and Low Pressure Flare Construction date=04-JAN-24
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E34 POINT 645885.945 3580811.594 0
SO SRCPARAM 38720E34 .0002898 9.14 1273 20 .61
** NMED source ID=38720EQPT35 Facility's ID=FL-1 LPF
** Description=Dual Tip High and Low Pressure Flare Construction date=04-JAN-24
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E35 POINT 645893.481 3580818.615 0
SO SRCPARAM 38720E35 .0818987 9.14 1273 20 .61
** NMED source ID=38720RPNT1 Facility's ID=LOAD
** Description=Truck Loading Construction date=01-APR-20
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38720R1 VOLUME 645886.695 3580822.167 0
SO SRCPARAM 38720R1 .3616143 1 .47 .93
** NMED source ID=38720RPNT2 Facility's ID=FUG-1
** Description=Facility Fugitives Construction date=01-APR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38720R2 VOLUME 645879.098 3580820.075 0
SO SRCPARAM 38720R2 .0075599 1 .47 .93
**********END OF 38720: Greyhound Compressor Station
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INFO**********************************
************************************************************
** 18.14km away. Facility ID=38904 Name=EOG - Red Hills Solar Localized Gas Lift
Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.052297, -103.569805, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=38904EQPT10 Facility's ID=Flare1-LP
** Description=dual pressure 5.23 MMcf/d: LP tip Construction date=30-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38904E10 POINT 635019 3547126.926 0
SO SRCPARAM 38904E10 .0002898 12.19 1273 20 20.806
**********END OF 38904: EOG - Red Hills Solar Localized Gas Lift Station
INFO**********************************
************************************************************
** 18.19km away. Facility ID=39838 Name=MarkWest - Middle Ground Compressor Station
** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.06385, -103.6089, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=39838RPNT1 Facility's ID=Fug-1
** Description=Fugitive emissions Construction date=27-JAN-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838R1 VOLUME 631311.366 3548359.429 0
SO SRCPARAM 39838R1 .0002898 1 .47 .93
**********END OF 39838: MarkWest - Middle Ground Compressor Station
INFO**********************************
************************************************************
** 18.6km away. Facility ID=7723 Name=Red Tank WTF
** Company ID=633 Name=OXY USA Inc
** SIC=1389 NAIC=213112   Permit=10089 NOI
** lat,long,datum=32.360005, -103.612305, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.7tons/year
*****************Facility sources: ******************************
** NMED source ID=7723RPNT1 Facility's ID=FUG
** Description=Process Fugitives Construction date=09-OCT-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7723R1 VOLUME 630565.97 3581187.127 0
SO SRCPARAM 7723R1 .0201597 1 .47 .93
**********END OF 7723: Red Tank WTF INFO************************************
************************************************************
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** 18.82km away. Facility ID=5515 Name=Ragin Cajun 12 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.06152, -103.429692, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=1.23tons/year
*****************Facility sources: ****************************
** NMED source ID=5515EQPT4 Facility's ID=FL-1 HP SSM
** Description=FL-1 Flare - High Pressure Side Construction date=13-JUN-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E4 POINT 648233.025 3548333.273 0
SO SRCPARAM 5515E4 .0074843 12.19 1273 20 2.632
** NMED source ID=5515EQPT7 Facility's ID=OILLOAD-1
** Description=Crude loading Construction date=13-JUN-23
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E7 VOLUME 648240.561 3548340.294 0
SO SRCPARAM 5515E7 .2847555 1 .47 .93
** NMED source ID=5515EQPT11 Facility's ID=PWLOAD-1
** Description=Water Loading Construction date=13-JUN-23
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E11 VOLUME 648233.775 3548343.846 0
SO SRCPARAM 5515E11 .0163797 1 .47 .93
** NMED source ID=5515EQPT18 Facility's ID=FL-1 LP SSM
** Description=FL-1 Flare - Low Pressure Side SSM Construction date=13-JUN-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E18 POINT 648226.178 3548341.754 0
SO SRCPARAM 5515E18 .0017262 12.19 1273 20 20.806
** NMED source ID=5515RPNT1 Facility's ID=FUG-1
** Description=Fugitives Construction date=13-JUN-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515R1 VOLUME 648221.937 3548334.854 0
SO SRCPARAM 5515R1 .00252 1 .47 .93
** NMED source ID=5515RPNT2 Facility's ID=SSM
** Description=Startup Shutdown Maintenance Construction date=13-JUN-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515R2 VOLUME 648223.589 3548326.7 0
SO SRCPARAM 5515R2 .0051785 1 .47 .93
**********END OF 5515: Ragin Cajun 12 CTB 2
INFO**********************************
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************************************************************
** 18.91km away. Facility ID=38474 Name=Marlan Downey 09 State
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.326181, -103.376765, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=1.03tons/year
*****************Facility sources: ****************************
** NMED source ID=38474EQPT12 Facility's ID=FL-1 LP
** Description=Standard Flare Construction date=07-JUN-18
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38474E12 POINT 652786.765 3577748.917 0
SO SRCPARAM 38474E12 .0062999 18.59 1273 20 20.806
** NMED source ID=38474EQPT16 Facility's ID=FL-1 HP
** Description=Standard Flare Construction date=27-OCT-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38474E16 POINT 652794.301 3577755.938 0
SO SRCPARAM 38474E16 .6803892 18.59 1273 20 13.484
**********END OF 38474: Marlan Downey 09 State
INFO**********************************
************************************************************
** 19.31km away. Facility ID=9292 Name=Ragin Cajun 12 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.061393, -103.419267, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=9.59tons/year
*****************Facility sources: ****************************
** NMED source ID=9292EQPT10 Facility's ID=FL-1 HP SSM
** Description=Flare 1 High Pressure Side Construction date=12-JAN-24
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E10 POINT 649217.433 3548333.564 0
SO SRCPARAM 9292E10 .0060353 12.19 1273 20 2.632
** NMED source ID=9292EQPT11 Facility's ID=FL-1 LP SSM
** Description=Flare 1 Low Pressure Side SSM Construction date=12-JAN-24
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E11 POINT 649224.969 3548340.585 0
SO SRCPARAM 9292E11 .0031625 12.19 1273 20 20.806
** NMED source ID=9292EQPT12 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=12-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E12 VOLUME 649218.183 3548344.137 0
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SO SRCPARAM 9292E12 .00252 9.14 .47 .93
** NMED source ID=9292EQPT13 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=12-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E13 VOLUME 649210.586 3548342.045 0
SO SRCPARAM 9292E13 .00252 9.14 .47 .93
** NMED source ID=9292EQPT14 Facility's ID=OILLOAD-1
** Description=Oil Truck Loading Construction date=12-JAN-24
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E14 VOLUME 649206.345 3548335.145 0
SO SRCPARAM 9292E14 .1852171 1 .47 .93
** NMED source ID=9292EQPT18 Facility's ID=PWLOAD-1
** Description=Water Truck Loading Construction date=12-JAN-24
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E18 VOLUME 649207.997 3548326.991 0
SO SRCPARAM 9292E18 .4598927 1 .47 .93
** NMED source ID=9292RPNT1 Facility's ID=FUG-1
** Description=Sitewide Fugitives Construction date=12-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292R1 VOLUME 649214.946 3548322.029 0
SO SRCPARAM 9292R1 .00252 1 .47 .93
**********END OF 9292: Ragin Cajun 12 CTB 3
INFO**********************************
************************************************************
** 19.33km away. Facility ID=40185 Name=Golden Tee CTB
** Company ID=14056 Name=Avant Natural Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.354501, -103.4091, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=1.03tons/year
*****************Facility sources: ******************************
** NMED source ID=40185EQPT3 Facility's ID=FL-1 LP
** Description=Standard Flare Construction date=22-OCT-21
** SCC=unknown
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40185E3 POINT 649696.249 3580842.999 0
SO SRCPARAM 40185E3 .00252 12.19 1273 20 2.632
** NMED source ID=40185EQPT4 Facility's ID=FL-1 HP
** Description=Standard Flare Construction date=22-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40185E4 POINT 649703.785 3580850.02 0
SO SRCPARAM 40185E4 .376734 12.19 1273 20 20.806
**********END OF 40185: Golden Tee CTB INFO************************************
************************************************************
** 19.42km away. Facility ID=39990 Name=Blondie 15 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.046132, -103.454927, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.02tons/year
*****************Facility sources: *****************************
** NMED source ID=39990EQPT8 Facility's ID=PWLOAD-1
** Description=Water Loading Construction date=07-JUN-19
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39990E8 VOLUME 645875.07 3546592.952 0
SO SRCPARAM 39990E8 .00126 1 .47 .93
**********END OF 39990: Blondie 15 CTB 3 INFO************************************
************************************************************
** 19.51km away. Facility ID=39153 Name=Harrier Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.068444, -103.645064, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.12tons/year
*****************Facility sources: *****************************
** NMED source ID=39153EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E2 POINT 627891.026 3548825.268 0
SO SRCPARAM 39153E2 .00126 7.01 714.26 75.65 .36
** NMED source ID=39153EQPT6 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E6 POINT 627898.562 3548832.289 0
SO SRCPARAM 39153E6 .00126 7.01 714.26 75.65 .36
** NMED source ID=39153EQPT7 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8240hr/yr, 23hr/day
SO LOCATION 39153E7 POINT 627891.776 3548835.841 0
SO SRCPARAM 39153E7 .0005796 7.01 707.04 34.02 .46
** NMED source ID=39153EQPT8 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8339hr/yr, 23hr/day
SO LOCATION 39153E8 POINT 627884.179 3548833.749 0
SO SRCPARAM 39153E8 .0005796 7.01 707.04 34.02 .46
** NMED source ID=39153EQPT9 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E9 POINT 627879.938 3548826.849 0
SO SRCPARAM 39153E9 .0005796 7.01 707.04 34.02 .46
** NMED source ID=39153EQPT10 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E10 POINT 627881.59 3548818.695 0
SO SRCPARAM 39153E10 .0005796 7.01 707.04 34.02 .46
**********END OF 39153: Harrier Compressor Station
INFO**********************************
************************************************************
** 19.58km away. Facility ID=39379 Name=Winnebago 30 State Com CTB No1 and No2
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.357364, -103.409222, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.76tons/year
*****************Facility sources: ******************************
** NMED source ID=39379EQPT7 Facility's ID=PW-1
** Description=Produced Water Tank - CTB 1 Construction date=26-FEB-20
** SCC=40400315
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39379E7 VOLUME 649680.05 3581160.241 0
SO SRCPARAM 39379E7 .0365394 1 .47 .93
** NMED source ID=39379EQPT8 Facility's ID=PW-2
** Description=Produced Water Tank - CTB 1 Construction date=26-FEB-20
** SCC=40400315
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39379E8 VOLUME 649687.586 3581167.262 0
SO SRCPARAM 39379E8 .0365394 1 .47 .93
** NMED source ID=39379EQPT9 Facility's ID=PW-3
** Description=Produced Water Tank - CTB 1 Construction date=26-FEB-20
** SCC=40400315
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39379E9 VOLUME 649680.8 3581170.814 0
SO SRCPARAM 39379E9 .0365394 1 .47 .93
** NMED source ID=39379EQPT10 Facility's ID=PW-4
** Description=Produced Water Tank - CTB 1 Construction date=26-FEB-20
** SCC=40400315
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39379E10 VOLUME 649673.203 3581168.722 0
SO SRCPARAM 39379E10 .0365394 1 .47 .93
** NMED source ID=39379EQPT14 Facility's ID=GB-1
** Description=Gunbarrel Separator - CTB 1 Construction date=30-OCT-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7152hr/yr, 24hr/day
SO LOCATION 39379E14 VOLUME 649668.962 3581161.822 0
SO SRCPARAM 39379E14 .00126 1 .47 .93
** NMED source ID=39379EQPT15 Facility's ID=GB-2
** Description=Gunbarrel Separator - CTB 1 Construction date=30-OCT-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7152hr/yr, 24hr/day
SO LOCATION 39379E15 VOLUME 649670.614 3581153.668 0
SO SRCPARAM 39379E15 .00126 1 .47 .93
** NMED source ID=39379EQPT19 Facility's ID=GB-3
** Description=Gunbarrel Separator - CTB 2 Construction date=09-DEC-22
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379E19 VOLUME 649677.563 3581148.706 0
SO SRCPARAM 39379E19 .0075599 1 .47 .93
** NMED source ID=39379EQPT21 Facility's ID=PW-5
** Description=Produced Water Tank - CTB 2 Construction date=09-DEC-22
** SCC=40400315
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379E21 VOLUME 649686.246 3581149.848 0
SO SRCPARAM 39379E21 .0037799 1 .47 .93
** NMED source ID=39379EQPT22 Facility's ID=PW-6
** Description=Produced Water Tank - CTB 2 Construction date=09-DEC-22
** SCC=40400315
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379E22 VOLUME 649691.956 3581156.776 0
SO SRCPARAM 39379E22 .0037799 1 .47 .93
** NMED source ID=39379EQPT23 Facility's ID=PW-7
** Description=Produced Water Tank - CTB 2 Construction date=09-DEC-22
** SCC=40400315
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379E23 VOLUME 649691.391 3581165.957 0
SO SRCPARAM 39379E23 .0037799 1 .47 .93
** NMED source ID=39379RPNT2 Facility's ID=FUG
** Description=Fugitives Construction date=08-DEC-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39379R2 VOLUME 649684.556 3581172.435 0
SO SRCPARAM 39379R2 .00126 1 .47 .93
** NMED source ID=39379RPNT3 Facility's ID=SITE-SSM
** Description=Site SSM Emissions Construction date=16-MAY-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379R3 VOLUME 649674.92 3581172.512 0
SO SRCPARAM 39379R3 .0008568 1 .47 .93
**********END OF 39379: Winnebago 30 State Com CTB No1 and No2
INFO**********************************
************************************************************
** 19.72km away. Facility ID=758 Name=Cotton Draw Treater
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21113    Permit=2188 GCP4
** lat,long,datum=32.136589, -103.714068, Unknown
** Total Hydrogen sulfide (NMAAQ) emissions=.3tons/year
*****************Facility sources: ****************************
** NMED source ID=758EQPT10 Facility's ID=RTO
** Description=RTO controls units Amine 1 Acid Gas and Flash Gas Construction
date=06-MAR-13
** SCC=31000209
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 758E10 POINT 621287.196 3556299.869 0
SO SRCPARAM 758E10 .0086309 7 1116.48 28 .3
**********END OF 758: Cotton Draw Treater INFO**********************************
************************************************************
** 19.88km away. Facility ID=31968 Name=Gaucho Unit 6H CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4928 NOI
** lat,long,datum=32.386111, -103.485261, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=31968EQPT2 Facility's ID=Oil Loading
** Description=Oil Loading_Oil Loading1 Construction date=01-JAN-20
** SCC=40600132
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31968E2 VOLUME 642479.503 3584243.486 0
SO SRCPARAM 31968E2 .00126 1 .47 .93
** NMED source ID=31968EQPT7 Facility's ID=Water Tank_7072
** Description=Water Tank_EQ000067072 Construction date=01-JAN-20
** SCC=40400311
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 31968E7 VOLUME 642487.039 3584250.507 0
SO SRCPARAM 31968E7 .00126 1 .47 .93
** NMED source ID=31968EQPT12 Facility's ID=Flare 1_7070 SSM
```

```
** Description=Flare 1_EQ000067070 Construction date=01-MAY-17
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31968E12 POINT 642480.253 3584254.059 0
SO SRCPARAM 31968E12 .0002898 6.1 1273 20 20.806
**********END OF 31968: Gaucho Unit 6H CTB INFO************************************
************************************************************
** 20.11km away. Facility ID=39427 Name=Marlan East Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3329, -103.366665, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=1.59tons/year
*****************Facility sources: *****************************
** NMED source ID=39427EQPT7 Facility's ID=FL-1 HP
** Description=10 MMSCFD High pressure tip Flare SSM Construction date=24-FEB-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39427E7 POINT 653726.178 3578508.289 0
SO SRCPARAM 39427E7 4.2473926 12.19 1273 20 20.806
** NMED source ID=39427EQPT8 Facility's ID=FL-1 LP
** Description=0.6 MMSCFD low pressure tip Flare Construction date=24-FEB-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39427E8 POINT 653733.714 3578515.31 0
SO SRCPARAM 39427E8 .0390594 34.14 1273 20 5.505
** NMED source ID=39427EQPT23 Facility's ID=FL-2 LP
** Description=1.0 MMSCFD low pressure tip Flare, pilot & SSM Construction
date=23-NOV-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E23 POINT 653726.928 3578518.862 0
SO SRCPARAM 39427E23 .0390594 6.1 1273 20 5.505
** NMED source ID=39427RPNT1 Facility's ID=FUG-1
** Description=Fugitives Construction date=31-MAR-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2702hr/yr, 7hr/day
SO LOCATION 39427R1 VOLUME 653719.331 3578516.77 0
SO SRCPARAM 39427R1 .00126 1 .47 .93
**********END OF 39427: Marlan East Tank Battery
INFO**********************************
************************************************************
** 20.18km away. Facility ID=40112 Name=Bridge State 29 CTB#1
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.356315, -103.396307, WGS84
```

```
** Total Hydrogen sulfide (NMAAQ) emissions=3.02tons/year
**********Facility sources: ****************************
** NMED source ID=40112EQPT11 Facility's ID=FL-1-VRUDOWN
** Description=Process Flare, 21 MMSCFD Construction date=25-AUG-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40112E11 POINT 650897.132 3581062.079 0
SO SRCPARAM 40112E11 .0005796 12.19 1273 20 20.806
** NMED source ID=40112EQPT12 Facility's ID=FL-1-STRAND
** Description=Process Flare, 21 MMSCFD Construction date=25-AUG-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40112E12 POINT 650904.668 3581069.1 0
SO SRCPARAM 40112E12 .0856786 12.19 1273 20 8.579
** NMED source ID=40112RPNT1 Facility's ID=FUG-1
** Description=Fugitives Construction date=25-AUG-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40112R1 VOLUME 650897.882 3581072.652 0
SO SRCPARAM 40112R1 .00126 1 .47 .93
**********END OF 40112: Bridge State 29 CTB#1
INFO**********************************
************************************************************
** 20.37km away. Facility ID=8008 Name=Comanche Peak Compressor Station
** Company ID=13928 Name=Pinon Midstream LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.162344, -103.3153, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=1tons/year
**********Facility sources: ****************************
** NMED source ID=8008RPNT1 Facility's ID=FUG-2
** Description=Facility Fugitives Construction date=18-OCT-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008R1 VOLUME 658857.893 3559674.053 0
SO SRCPARAM 8008R1 .0289795 1 .47 .93
**********END OF 8008: Comanche Peak Compressor Station
INFO**********************************
************************************************************
** 20.56km away. Facility ID=38360 Name=Tour Bus 23 State No301H No502H No601H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.383781, -103.448242, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.13tons/year
**********Facility sources: ****************************
** NMED source ID=38360EQPT6 Facility's ID=FL-1
** Description=Flare Construction date=21-SEP-20
```

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** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38360E6 POINT 645965.697 3584035.094 0
SO SRCPARAM 38360E6 .00252 12.19 1273 20 5.505
** NMED source ID=38360EQPT7 Facility's ID=FL-2
** Description=Flare Construction date=21-SEP-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38360E7 POINT 645973.233 3584042.115 0
SO SRCPARAM 38360E7 .0005796 12.19 1273 20 5.505
** NMED source ID=38360EQPT8 Facility's ID=FL-3
** Description=Flare Construction date=21-SEP-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38360E8 POINT 645966.447 3584045.667 0
SO SRCPARAM 38360E8 .0011466 12.19 1273 20 5.505
**********END OF 38360: Tour Bus 23 State No301H No502H No601H
INFO**********************************
************************************************************
** 20.59km away. Facility ID=39519 Name=Tin Foil Federal 23 N CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8797 NOI
** lat,long,datum=32.1113, -103.3395, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=39519EQPT5 Facility's ID=FL-01
** Description=Low Pressure Flare Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 14hr/day
SO LOCATION 39519E5 POINT 656662.952 3553979.574 0
SO SRCPARAM 39519E5 .0005796 12.19 1273 20 20.806
**********END OF 39519: Tin Foil Federal 23 N CTB
INFO**********************************
************************************************************
** 20.66km away. Facility ID=6934 Name=Bluehound Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.379834, -103.433963, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=3.23tons/year
*****************Facility sources: ****************************
** NMED source ID=6934EQPT13 Facility's ID=FL-LP
** Description=Low Pressure Side of Process Flare Construction date=03-JAN-24
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E13 POINT 647315.397 3583617.082 0
```

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SO SRCPARAM 6934E13 .0390594 9.14 1273 20 4.652
** NMED source ID=6934EQPT15 Facility's ID=LOAD-1
** Description=Condensate Loading Construction date=03-JAN-24
** SCC=40600142
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E15 VOLUME 647322.933 3583624.103 0
SO SRCPARAM 6934E15 .062999 1 .47 .93
** NMED source ID=6934RPNT1 Facility's ID=FUG
** Description=Fugitives Construction date=03-JAN-24
** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934R1 VOLUME 647316.147 3583627.655 0
SO SRCPARAM 6934R1 .0075599 1 .47 .93
** NMED source ID=6934RPNT2 Facility's ID=M
** Description=Malfunction Construction date=03-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934R2 VOLUME 647308.55 3583625.563 0
SO SRCPARAM 6934R2 .0287653 1 .47 .93
** NMED source ID=6934RPNT3 Facility's ID=SSM
** Description=Start-up, Shutdown, and Maintenance Construction date=03-JAN-24
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934R3 VOLUME 647304.309 3583618.663 0
SO SRCPARAM 6934R3 .0287653 1 .47 .93
**********END OF 6934: Bluehound Compressor Station
INFO**********************************
************************************************************
** 20.75km away. Facility ID=37953 Name=EOG - Odin Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.02833, -103.57028, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=4.09tons/year
*****************Facility sources: ******************************
** NMED source ID=37953RPNT2 Facility's ID=SSM
** Description=Startup, Shutdown, Maintenance Construction date=17-JUL-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37953R2 VOLUME 635009.334 3544469.389 0
SO SRCPARAM 37953R2 .0575307 1 .47 .93
** NMED source ID=37953RPNT4 Facility's ID=FUG
** Description=Site Piping Fugitives Construction date=17-JUL-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
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SO LOCATION 37953R4 VOLUME 635016.87 3544476.41 0
SO SRCPARAM 37953R4 .00252 1 .47 .93
** NMED source ID=37953RPNT6 Facility's ID=M
** Description=Malfunction emissions Construction date=17-JUL-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37953R6 VOLUME 635010.084 3544479.962 0
SO SRCPARAM 37953R6 .0575307 1 .47 .93
**********END OF 37953: EOG - Odin Compressor Station
INFO***********************************
************************************************************
** 20.75km away. Facility ID=39717 Name=Caza - Lennox 32 State Nos 9H 10H and 34
State No 1H Facility
** Company ID=13636 Name=Caza Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.355205, -103.384814, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=39717CONT1 Facility's ID=FL-2-NO
** Description=0.25 MSCF/hr, Emergency Flare-NO-pilot only Construction
date=17-DEC-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39717C1 POINT 651980.528 3580955.279 0
SO SRCPARAM 39717C1 .0023058 4.57 1273 20 20.806
**********END OF 39717: Caza - Lennox 32 State Nos 9H 10H and 34 State No 1H
Facility INFO***********************************
************************************************************
** 20.77km away. Facility ID=38151 Name=Tour Bus 23 State 503H and 504H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.383889, -103.442222, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=38151EQPT6 Facility's ID=FL-1
** Description=High Pressure Flare Construction date=16-JAN-18
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38151E6 POINT 646531.852 3584055.3 0
SO SRCPARAM 38151E6 .0002898 7.01 1273 20 5.885
** NMED source ID=38151RPNT2 Facility's ID=FUG-1
** Description=Fugitives Construction date=01-JAN-20
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38151R2 VOLUME 646539.388 3584062.321 0
SO SRCPARAM 38151R2 .0002898 1 .47 .93
```

**********END OF 38151: Tour Bus 23 State 503H and 504H
INFO**********
**********
** 20.94km away. Facility ID=6178 Name=Nitro Compressor Station
** Company ID=901 Name=Versado Gas Processors, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.398534, -103.516093, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=1.62tons/year
**********Facility sources: **********
** NMED source ID=6178ACT 3 Facility's ID=SSM
** Description=Start-up, Shutdown, & Maintenance Construction date=11-AUG-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178@3 VOLUME 639559.986 3585580.103 0
SO SRCPARAM 6178@3 .0135196 1 .47 .93
** NMED source ID=6178EQPT10 Facility's ID=FL-1
** Description=Process flare Construction date=11-AUG-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E10 POINT 639567.522 3585587.124 0
SO SRCPARAM 6178E10 .0806387 9.14 1273 20 4.652
** NMED source ID=6178EQPT17 Facility's ID=FL-1 SSM
** Description=Process flare Construction date=24-OCT-23
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E17 POINT 639560.736 3585590.676 0
SO SRCPARAM 6178E17 .0002898 9.14 1273 20 20.806
** NMED source ID=6178RPNT1 Facility's ID=FUG-1
** Description=Fugitives Construction date=11-AUG-23
** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178R1 VOLUME 639553.139 3585588.584 0
SO SRCPARAM 6178R1 .0327595 1 .47 .93
**********END OF 6178: Nitro Compressor Station
INFO**********
**********
** 21.25km away. Facility ID=40103 Name=EOG - El Jefe LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0956, -103.7039, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=4tons/year
**********Facility sources: **********
** NMED source ID=40103RPNT3 Facility's ID=SSM
** Description=Startup, Shutdown, Maintenance Construction date=17-AUG-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40103R3 VOLUME 622300.954 3551767.453 0
SO SRCPARAM 40103R3 .0575307 1 .47 .93
** NMED source ID=40103RPNT4 Facility's ID=M
** Description=Malfunction emissions Construction date=17-AUG-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40103R4 VOLUME 622308.49 3551774.474 0
SO SRCPARAM 40103R4 .0575307 1 .47 .93
**********END OF 40103: EOG - El Jefe LGL Station
INFO**********************************
************************************************************
** 21.67km away. Facility ID=38071 Name=Rocco Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1321 NAIC=21113    Permit=unknown
** lat,long,datum=32.313694, -103.719139, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=38071RPNT1 Facility's ID=FUG
** Description=Fugitives Construction date=18-OCT-18
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38071R1 VOLUME 620574.783 3575927.754 0
SO SRCPARAM 38071R1 .00126 1 .47 .93
**********END OF 38071: Rocco Compressor Station
INFO**********************************
************************************************************
** 21.84km away. Facility ID=7689 Name=Maestro Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.10442, -103.32895, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=1.89tons/year
*****************Facility sources: ****************************
** NMED source ID=7689EQPT11 Facility's ID=FL-1
** Description=Flare Construction date=23-OCT-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E11 POINT 657670.262 3553232.212 0
SO SRCPARAM 7689E11 .1171781 9.14 1273 20 .61
** NMED source ID=7689EQPT13 Facility's ID=LOAD
** Description=Condensate Loading Construction date=23-OCT-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E13 VOLUME 657677.798 3553239.233 0
SO SRCPARAM 7689E13 .1007984 1 .47 .93
** NMED source ID=7689EQPT36 Facility's ID=FL-1 SSM
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** Description=Flare Construction date=23-OCT-23
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E36 POINT 657671.012 3553242.785 0
SO SRCPARAM 7689E36 .0002898 9.14 1273 20 .61
** NMED source ID=7689RPNT1 Facility's ID=FUG-1
** Description=Fugitives Construction date=23-OCT-23
** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689R1 VOLUME 657663.415 3553240.693 0
SO SRCPARAM 7689R1 .0138598 1 .47 .93
** NMED source ID=7689RPNT2 Facility's ID=M
** Description=Malfunction Construction date=23-OCT-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689R2 VOLUME 657659.174 3553233.793 0
SO SRCPARAM 7689R2 .0028728 1 .47 .93
** NMED source ID=7689RPNT3 Facility's ID=SSM
** Description=SSM Construction date=23-OCT-23
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689R3 VOLUME 657660.826 3553225.639 0
SO SRCPARAM 7689R3 .0097774 1 .47 .93
**********END OF 7689: Maestro Compressor Station
INFO***********************************
************************************************************
** 21.86km away. Facility ID=40184 Name=Almost Eddy 30 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0978, -103.7138, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=40184EQPT12 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=27-OCT-21
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40184E12 POINT 621363.804 3552000.149 0
SO SRCPARAM 40184E12 .0002898 12.19 1273 20 3.604
**********END OF 40184: Almost Eddy 30 Fed Com CTB
INFO***********************************
************************************************************
** 22.05km away. Facility ID=40057 Name=Franklin - LOE Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=9278 NSR
** lat,long,datum=32.11235, -103.3207, NAD83
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** Total Hydrogen sulfide (NMAAQ) emissions=.14tons/year
*****************Facility sources: ******************************
** NMED source ID=40057EQPT25 Facility's ID=LPF-01-Pilot+SSM
** Description=Low Pressure Flare, 0.6 MMSCFD Construction date=11-JUL-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3576hr/yr, 24hr/day
SO LOCATION 40057E25 POINT 658435.08 3554123.474 0
SO SRCPARAM 40057E25 .0037799 9.14 1273 20 5.505
**********END OF 40057: Franklin - LOE Central Tank Battery
INFO***********************************
************************************************************
** 22.29km away. Facility ID=39783 Name=Caza - Sioux 25-36 State Fed Com 8H 9H 10H
11H 12H and 13H Production Facility
** Company ID=13636 Name=Caza Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.108575, -103.320298, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=39783EQPT1 Facility's ID=FL-1
** Description=Flare Construction date=30-DEC-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E1 POINT 658479.535 3553705.548 0
SO SRCPARAM 39783E1 .0037799 7.62 1273 20 4.652
** NMED source ID=39783EQPT24 Facility's ID=TK-10
** Description=Vapor RecoveryTower Construction date=30-DEC-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E24 VOLUME 658487.071 3553712.569 0
SO SRCPARAM 39783E24 .00126 1 .47 .93
** NMED source ID=39783EQPT25 Facility's ID=VRT-1
** Description=Vapor RecoveryTower Construction date=30-DEC-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E25 VOLUME 658480.285 3553716.121 0
SO SRCPARAM 39783E25 .00126 1 .47 .93
** NMED source ID=39783EQPT26 Facility's ID=VRT-2
** Description=Vapor RecoveryTower Construction date=30-DEC-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E26 VOLUME 658472.688 3553714.029 0
SO SRCPARAM 39783E26 .00126 1 .47 .93
**********END OF 39783: Caza - Sioux 25-36 State Fed Com 8H 9H 10H 11H 12H and 13H
Production Facility INFO************************************
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** 22.42km away. Facility ID=40175 Name=Sand Dunes 10 CS
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.229764, -103.760867, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.3tons/year
*****************Facility sources: ****************************
** NMED source ID=40175RPNT3 Facility's ID=SITE-SSM
** Description=SSM Construction date=12-OCT-21
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 40175R3 VOLUME 616753.876 3566577.217 0
SO SRCPARAM 40175R3 .0086309 1 .47 .93
**********END OF 40175: Sand Dunes 10 CS INFO************************************
************************************************************
** 22.67km away. Facility ID=39591 Name=Black Marlin A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.135789, -103.300103, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=39591EQPT9 Facility's ID=FL-1 HP
** Description=Flare, high-pressure side of dual tip, 229.17 Mscf/hr Construction
date=07-JUL-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1464hr/yr, 24hr/day
SO LOCATION 39591E9 POINT 660337.562 3556752.536 0
SO SRCPARAM 39591E9 .1398578 12.19 1273 20 3.604
** NMED source ID=39591EQPT20 Facility's ID=FL-1 HP SSM
** Description=Flare, high-pressure side of dual tip, 229.17 Mscf/hr Construction
date=01-JAN-20
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591E20 POINT 660345.098 3556759.557 0
SO SRCPARAM 39591E20 .0002898 12.19 1273 20 3.604
**********END OF 39591: Black Marlin A CTB INFO************************************
************************************************************
** 22.7km away. Facility ID=41035 Name=FME Forge Central Tank Battery
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.07712, -103.3418, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=41035EQPT14 Facility's ID=LPF
** Description=Low Pressure Flare Construction date=23-MAY-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 41035E14 POINT 656504.212 3550186.884 0
SO SRCPARAM 41035E14 .00126 12.19 1273 20 4.652
**********END OF 41035: FME Forge Central Tank Battery
INFO**********************************
************************************************************
** 22.82km away. Facility ID=38863 Name=Pinestraw CTB
** Company ID=13544 Name=Ameredev II LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.165108, -103.287681, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=2.93tons/year
*****************Facility sources: ******************************
** NMED source ID=38863EQPT3 Facility's ID=LOAD
** Description=Oil Truck Loadout Construction date=18-MAR-19
** SCC=40600142
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=276hr/yr, 24hr/day
SO LOCATION 38863E3 VOLUME 661457.671 3560021.604 0
SO SRCPARAM 38863E3 .0088199 1 .47 .93
** NMED source ID=38863EQPT4 Facility's ID=GB-1
** Description=1,000 bbl Gunbarrel Tank Construction date=18-MAR-19
** SCC=31000503
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38863E4 VOLUME 661465.207 3560028.625 0
SO SRCPARAM 38863E4 .0100798 1 .47 .93
** NMED source ID=38863EQPT5 Facility's ID=OTK-1
** Description=750 bbl Oil Tank Construction date=18-MAR-19
** SCC=40400312
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38863E5 VOLUME 661458.421 3560032.177 0
SO SRCPARAM 38863E5 .0050399 1 .47 .93
** NMED source ID=38863EQPT6 Facility's ID=PWTK-1
** Description=750 bbl Produced Water Tank Construction date=18-MAR-19
** SCC=40400315
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38863E6 VOLUME 661450.824 3560030.085 0
SO SRCPARAM 38863E6 .0062999 1 .47 .93
** NMED source ID=38863EQPT7 Facility's ID=PWTK-2
** Description=750 bbl Produced Water Tank Construction date=18-MAR-19
** SCC=40400315
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38863E7 VOLUME 661446.583 3560023.185 0
SO SRCPARAM 38863E7 .0062999 1 .47 .93
** NMED source ID=38863EQPT8 Facility's ID=PWTK-3
** Description=750 bbl Produced Water Tank Construction date=18-MAR-19
** SCC=40400315
** Potential operating rate=8760hr/yr, 0hr/day
```

```
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38863E8 VOLUME 661448.235 3560015.031 0
SO SRCPARAM 38863E8 .0062999 1 .47 .93
** NMED source ID=38863EQPT9 Facility's ID=OTK-2
** Description=750 bbl Oil Tank Construction date=18-MAR-19
** SCC=40400312
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38863E9 VOLUME 661455.184 3560010.069 0
SO SRCPARAM 38863E9 .0050399 1 .47 .93
** NMED source ID=38863EQPT10 Facility's ID=OTK-3
** Description=750 bbl Oil Tank Construction date=18-MAR-19
** SCC=40400312
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38863E10 VOLUME 661463.867 3560011.211 0
SO SRCPARAM 38863E10 .0050399 1 .47 .93
** NMED source ID=38863EQPT20 Facility's ID=FL-1
** Description=20,000 Mscfd Flare Construction date=25-MAR-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1152hr/yr, 24hr/day
SO LOCATION 38863E20 POINT 661469.577 3560018.139 0
SO SRCPARAM 38863E20 2.959693 18.29 1273 20 20.806
** NMED source ID=38863EQPT29 Facility's ID=TF-1
** Description=700 Mscfd Flare Construction date=16-MAR-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38863E29 POINT 661469.012 3560027.32 0
SO SRCPARAM 38863E29 .064259 9.14 1273 20 7.785
** NMED source ID=38863EQPT33 Facility's ID=TF-1 SSM
** Description=700 Mscfd Flare Construction date=16-MAR-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38863E33 POINT 661462.177 3560033.798 0
SO SRCPARAM 38863E33 .0054683 9.14 1273 20 2.632
** NMED source ID=38863EQPT34 Facility's ID=GB-2
** Description=1,000 bbl Gunbarrel Tank Construction date=09-MAR-23
** SCC=31000503
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38863E34 VOLUME 661452.541 3560033.875 0
SO SRCPARAM 38863E34 .0100798 1 .47 .93
** NMED source ID=38863RPNT1 Facility's ID=FUG
** Description=Fugitive Sources Construction date=18-MAR-19
** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
```

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SO LOCATION 38863R1 VOLUME 661445.28 3560027.209 0
SO SRCPARAM 38863R1 .0088199 1 .47 .93
**********END OF 38863: Pinestraw CTB INFO**********************************
************************************************************
** 23.25km away. Facility ID=40178 Name=Sand Dunes 10 CTB
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=9386 GCP6
** lat,long,datum=32.235589, -103.769003, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=40178EQPT15 Facility's ID=LOAD
** Description=Truck Loading Construction date=12-SEP-23
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E15 VOLUME 615979.832 3567214.148 0
SO SRCPARAM 40178E15 .0002898 1 .47 .93
**********END OF 40178: Sand Dunes 10 CTB INFO**********************************
************************************************************
** 23.33km away. Facility ID=40192 Name=Blue Marlin CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.113114, -103.304683, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=40192EQPT4 Facility's ID=FL-1 HP
** Description=18 MMSCFD HP Flare Construction date=28-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E4 POINT 659945.078 3554231.841 0
SO SRCPARAM 40192E4 .00126 18.29 1273 20 3.604
** NMED source ID=40192EQPT6 Facility's ID=FL-2 HP
** Description=18 MMSCFD HP Flare Construction date=28-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E6 POINT 659952.614 3554238.862 0
SO SRCPARAM 40192E6 .00126 18.29 1273 20 3.604
**********END OF 40192: Blue Marlin CTB INFO**********************************
************************************************************
** 23.61km away. Facility ID=39859 Name=Franklin - Paul Foster CTB
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.082102, -103.324553, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.12tons/year
*****************Facility sources: ****************************
** NMED source ID=39859EQPT14 Facility's ID=LPF-01
** Description=Low Pressure Flare, 600 MSCFD Construction date=19-FEB-21
** SCC=31000205
```

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39859E14 POINT 658123.64 3550764.371 0
SO SRCPARAM 39859E14 .0037799 6.1 1273 20 5.505
**********END OF 39859: Franklin - Paul Foster CTB
INFO**********************************
************************************************************
** 24.3km away. Facility ID=39634 Name=Chimichangas 12 State Com CTB 1
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.410174, -103.41928, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=39634RPNT1 Facility's ID=FUG-1
** Description=Sitewide Fugitives Construction date=26-AUG-20
** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3072hr/yr, 24hr/day
SO LOCATION 39634R1 VOLUME 648647.03 3587001.121 0
SO SRCPARAM 39634R1 .0005796 1 .47 .93
**********END OF 39634: Chimichangas 12 State Com CTB 1
INFO**********************************
************************************************************
** 24.66km away. Facility ID=40735 Name=Ranger Peak Compressor Station
** Company ID=13928 Name=Pinon Midstream LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.114295, -103.288249, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.28tons/year
*****************Facility sources: ******************************
** NMED source ID=40735RPNT1 Facility's ID=FUG-2
** Description=Facility Fugitives Construction date=06-OCT-22
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735R1 VOLUME 661493.669 3554387.29 0
SO SRCPARAM 40735R1 .0075599 1 .47 .93
**********END OF 40735: Ranger Peak Compressor Station
INFO**********************************
************************************************************
** 24.99km away. Facility ID=40887 Name=Flight Compressor Station
** Company ID=14143 Name=Northwind Midstream Partners LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.425808, -103.448452, WGS84
** Total Hydrogen sulfide (NMAAQ) emissions=2.47tons/year
*****************Facility sources: ******************************
** NMED source ID=40887EQPT27 Facility's ID=FL-1 SSM SSM
** Description=Flare Start-Up, Shutdown & Maintenance Construction date=05-SEP-23
** SCC=30600904
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 40887E27 POINT 645878.308 3588694.214 0
SO SRCPARAM 40887E27 .0601262 22.86 1273 20 2.632
** NMED source ID=40887RPNT4 Facility's ID=FUG
** Description=Fugitive Emissions Construction date=05-SEP-23
** SCC=31088801
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887R4 VOLUME 645885.844 3588701.235 0
SO SRCPARAM 40887R4 .0113398 1 .47 .93
**********END OF 40887: Flight Compressor Station
INFO**********************************
************************************************************
** 25km away. Facility ID=38039 Name=Lusitano 27 CTB 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=7458 NOI
** lat,long,datum=32.106058, -103.758672, NAD83
** Total Hydrogen sulfide (NMAAQ) emissions=.03tons/year
****************Facility sources: ****************************
** NMED source ID=38039EQPT8 Facility's ID=PWLOAD-1
** Description=Water Truck Loading Construction date=18-SEP-18
** SCC=40400250
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38039E8 VOLUME 617118.915 3552865.959 0
SO SRCPARAM 38039E8 .00126 1 .47 .93
** NMED source ID=38039EQPT11 Facility's ID=FL-1 LP
** Description=Flare Low Pressure Side EQ000329113 Construction date=18-SEP-18
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38039E11 POINT 617126.451 3552872.98 0
SO SRCPARAM 38039E11 .0002898 12.19 1273 20 .61
** NMED source ID=38039EQPT13 Facility's ID=GBS-1
** Description=Gunbarrel EQ000070236 Construction date=18-SEP-18
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38039E13 VOLUME 617119.665 3552876.532 0
SO SRCPARAM 38039E13 .0002898 1 .47 .93
**********END OF 38039: Lusitano 27 CTB 6 INFO**********************************
SO SRCGROUP NAAQS 29885E53 29885E87 29885E88
SO SRCGROUP NAAQS 29885E89 29885R11 3152E219
SO SRCGROUP NAAQS 34645R1 34645R2 34645R3
SO SRCGROUP NAAQS 38952E6 39998E3 39998E4
SO SRCGROUP NAAQS 39998E12 39998E13 39998E15
SO SRCGROUP NAAQS 39998R1 38310E7 38949E16
SO SRCGROUP NAAQS 39997E4 39997E14 39997E15
SO SRCGROUP NAAQS 39997R1 38567R2 38830E51
SO SRCGROUP NAAQS 39577E12 38546E9 38644E7
SO SRCGROUP NAAQS 38141E7 38448E16 38448E19
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SO SRCGROUP NAAQS 38448E20 38448E21 38448E28
SO SRCGROUP NAAQS 38448R2 39956R2 39956R3
SO SRCGROUP NAAQS 38489E1 38489E2 38489E6
SO SRCGROUP NAAQS 38489E11 38489E12 38489E13
SO SRCGROUP NAAQS 38489E17 38489E18 38489E20
SO SRCGROUP NAAQS 38489E21 38489R1 39031E16
SO SRCGROUP NAAQS 39031E18 39031R1 39420E8
SO SRCGROUP NAAQS 39420E9 38706E3 39958E17
SO SRCGROUP NAAQS 34027E16 34027E26 34027R1
SO SRCGROUP NAAQS 38810R3 33674E1 33674E2
SO SRCGROUP NAAQS 33674E3 33674E9 33674E10
SO SRCGROUP NAAQS 39664R2 39664R3 40265E18
SO SRCGROUP NAAQS 40265R1 34175E4 34175R1
SO SRCGROUP NAAQS 38309E21 39575R2 39575R3
SO SRCGROUP NAAQS 39553R2 39553R3 40084R2
SO SRCGROUP NAAQS 40084R3 39298E4 35592E11
SO SRCGROUP NAAQS 35592R2 35592R3 35592R4
SO SRCGROUP NAAQS 33093E18 33093E19 5557@1
SO SRCGROUP NAAQS 5557E1 5557E2 5557E10 5557R1
SO SRCGROUP NAAQS 40389E8 40389E9 41065E1
SO SRCGROUP NAAQS 41065R1 41065R3 38051E9
SO SRCGROUP NAAQS 39183E9 39183R1 39472E11
SO SRCGROUP NAAQS 39451R2 39451R3 37515E2
SO SRCGROUP NAAQS 37515E7 37515E8 37515E9
SO SRCGROUP NAAQS 37515E18 37515E21 37515E22
SO SRCGROUP NAAQS 37515E25 40238R3 40238R4
SO SRCGROUP NAAQS 38050E26 38050E36 38050E37
SO SRCGROUP NAAQS 38050E71 38050E72 6334E17
SO SRCGROUP NAAQS 6334R1 38049E1 38049E2
SO SRCGROUP NAAQS 38049E3 38049E4 38049E11
SO SRCGROUP NAAQS 38049E12 38049E13 41037E8
SO SRCGROUP NAAQS 41037E12 41037R1 29590E20
SO SRCGROUP NAAQS 29590E21 39049R2 38422E3
SO SRCGROUP NAAQS 38422E12 40110E4 38909E7
SO SRCGROUP NAAQS 38909E8 38909R1 38909T1
SO SRCGROUP NAAQS 39381E11 39381E14 38582R5
SO SRCGROUP NAAQS 38582R6 7803E12 7803E13
SO SRCGROUP NAAQS 7803E14 7803E15 7803E16
SO SRCGROUP NAAQS 7803E20 7803R1 40606E7
SO SRCGROUP NAAQS 40606E14 40606R1 40853E13
SO SRCGROUP NAAQS 40853E14 40853R1 39565E12
SO SRCGROUP NAAQS 39565E13 39694E3 39842R3
SO SRCGROUP NAAQS 39842R4 38392E3 38392E5
SO SRCGROUP NAAQS 38457E2 40001E1 39523E9
SO SRCGROUP NAAQS 39523E13 38548E9 38548E12
SO SRCGROUP NAAQS 40010E1 38633E5 38633E7
SO SRCGROUP NAAQS 38633R3 38691E7 37593E4
SO SRCGROUP NAAQS 37593R1 39543R1 38720E34
SO SRCGROUP NAAQS 38720E35 38720R1 38720R2
SO SRCGROUP NAAQS 38904E10 39838R1 7723R1
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SO SRCGROUP NAAQS 5515E4 5515E7 5515E11 5515E18
SO SRCGROUP NAAQS 5515R1 5515R2 38474E12
SO SRCGROUP NAAQS 38474E16 9292E10 9292E11
SO SRCGROUP NAAQS 9292E12 9292E13 9292E14
SO SRCGROUP NAAQS 9292E18 9292R1 40185E3
SO SRCGROUP NAAQS 40185E4 39990E8 39153E2
SO SRCGROUP NAAQS 39153E6 39153E7 39153E8
SO SRCGROUP NAAQS 39153E9 39153E10 39379E7
SO SRCGROUP NAAQS 39379E8 39379E9 39379E10
SO SRCGROUP NAAQS 39379E14 39379E15 39379E19
SO SRCGROUP NAAQS 39379E21 39379E22 39379E23
SO SRCGROUP NAAQS 39379R2 39379R3 758E10
SO SRCGROUP NAAQS 31968E2 31968E7 31968E12
SO SRCGROUP NAAQS 39427E7 39427E8 39427E23
SO SRCGROUP NAAQS 39427R1 40112E11 40112E12
SO SRCGROUP NAAQS 40112R1 8008R1 38360E6
SO SRCGROUP NAAQS 38360E7 38360E8 39519E5
SO SRCGROUP NAAQS 6934E13 6934E15 6934R1
SO SRCGROUP NAAQS 6934R2 6934R3 37953R2 37953R4
SO SRCGROUP NAAQS 37953R6 39717C1 38151E6
SO SRCGROUP NAAQS 38151R2 6178@3 6178E10
SO SRCGROUP NAAQS 6178E17 6178R1 40103R3
SO SRCGROUP NAAQS 40103R4 38071R1 7689E11
SO SRCGROUP NAAQS 7689E13 7689E36 7689R1
SO SRCGROUP NAAQS 7689R2 7689R3 40184E12
SO SRCGROUP NAAQS 40057E25 39783E1 39783E24
SO SRCGROUP NAAQS 39783E25 39783E26 40175R3
SO SRCGROUP NAAQS 39591E9 39591E20 41035E14
SO SRCGROUP NAAQS 38863E3 38863E4 38863E5
SO SRCGROUP NAAQS 38863E6 38863E7 38863E8
SO SRCGROUP NAAQS 38863E9 38863E10 38863E20
SO SRCGROUP NAAQS 38863E29 38863E33 38863E34
SO SRCGROUP NAAQS 38863R1 40178E15 40192E4
SO SRCGROUP NAAQS 40192E6 39859E14 39634R1
SO SRCGROUP NAAQS 40735R1 40887E27 40887R4
SO SRCGROUP NAAQS 38039E8 38039E11 38039E13
SO FINISHED
** Receptor near center of domain added to aid import into GUI programs.
RE STARTING
RE ELEVUNIT METERS
RE DISCCART 639114, 3565730 3000 3000
RE Finished

** Meteorolgy options. May not be the actual met file used for this model.
ME STARTING
ME SURFFILE 'C:\MET\AERMET\HOBBS_Artesia-NWS_Midland-ua_2015.SFC' FREE
ME PROFFILE 'C:\MET\AERMET\HOBBS_Artesia-NWS_Midland-ua_2015.PFL'
ME SURFDATA  722676 2015
ME UAIRDATA  23023 2015 'MIDLAND INTERNATIONAL AP, TX'
ME PROFBASE 1110 METERS
```

```
ME FINISHED

OU STARTING
OU PLOTFILE 1 NAAQS 'C:\Models\DELETEME_2015_H2S.GRF' 31
OU PLOTFILE 1 PSD 'C:\Models\DELETEME_2015_H2S.GRF' 31
OU SUMMFILE 'C:\Models\DELETEME_2015_H2S.SUM'
OU Finished
```

# APPENDIX E. $SO_2$ SURROUNDING SOURCE INVENTORY

```
** Surrounding sources generated by New Mexico Environment Department, Air Quality
Bureau
** Sulfur Dioxide sources generated 27-JAN-24
CO STARTING
CO TITLEONE Sources within 25km  of Lat/lon=32.21055556, -103.52388889 UTM=639113.7,
3564730, Zone=13
CO TITLETWO (plus very large sources within 50km).
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO RUNORNOT RUN
CO AVERTIME 1, 3, 24, PERIOD
CO POLLUTID SO2
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
************************************************************
** 0km away. Facility ID=29885 Name=Red Hills Gas Processing Plant
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21112    Permit=4310 Title V
** lat,long,datum=32.210556, -103.523889, WGS84
** Total Sulfur Dioxide emissions=735.43tons/year
*****************Facility sources: ******************************
** NMED source ID=29885CONT5 Facility's ID=2.5-EP-5
** Description=Flare - AGI System 1 SSM & Pilot (High H2S Handling #1) Construction
date=20-OCT-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885C5 POINT 639113.704 3564730.017 0
SO SRCPARAM 29885C5 2.1431126 45.42 1273 20 3.64
** NMED source ID=29885EQPT24 Facility's ID=2-EP-1b
** Description=HMO Heater - Cryo 2 Train Construction date=23-MAY-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5180hr/yr, 14hr/day
SO LOCATION 29885E24 POINT 639121.24 3564737.038 0
SO SRCPARAM 29885E24 .014956 6.78 316.48 2.24 1.17
** NMED source ID=29885EQPT28 Facility's ID=EP-5
** Description=Thermal Oxidizer (TO) Construction date=20-JUL-16
** SCC=31000404
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885E28 POINT 639114.454 3564740.59 0
SO SRCPARAM 29885E28 1.6631736 23.16 1088.71 1.38 3.05
** NMED source ID=29885EQPT32 Facility's ID=2-EP-1e
** Description=Glycol Dehydrator Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8634hr/yr, 24hr/day
SO LOCATION 29885E32 POINT 639106.857 3564738.498 0
```

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SO SRCPARAM 29885E32 .0002898 6.1 602.04 15.15 .2
** NMED source ID=29885EQPT34 Facility's ID=2-EP-1h
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8634hr/yr, 24hr/day
SO LOCATION 29885E34 POINT 639102.616 3564731.598 0
SO SRCPARAM 29885E34 .0037421 7.56 491.48 2.28 1.07
** NMED source ID=29885EQPT37 Facility's ID=3-EP-1a
** Description=Mol Sieve Heater - Cryo 3 Train Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2856hr/yr, 8hr/day
SO LOCATION 29885E37 POINT 639104.268 3564723.444 0
SO SRCPARAM 29885E37 .0045989 6.71 560.93 7.11 .41
** NMED source ID=29885EQPT38 Facility's ID=3-EP-1b
** Description=HMO Heater - Cryo 3 Train Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5141hr/yr, 14hr/day
SO LOCATION 29885E38 POINT 639111.217 3564718.482 0
SO SRCPARAM 29885E38 .0109366 7.87 493.71 5.91 .71
** NMED source ID=29885EQPT39 Facility's ID=3-EP-1d
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E39 POINT 639119.9 3564719.624 0
SO SRCPARAM 29885E39 .0037421 4.57 491.48 12.41 .46
** NMED source ID=29885EQPT40 Facility's ID=3-EP-1e
** Description=Glycol Dehydrator Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8569hr/yr, 23hr/day
SO LOCATION 29885E40 POINT 639125.61 3564726.552 0
SO SRCPARAM 29885E40 .0002898 6.1 602.04 16.63 .21
** NMED source ID=29885EQPT44 Facility's ID=EP-6
** Description=Thermal Oxidizer (TO) Construction date=24-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885E44 POINT 639125.045 3564735.733 0
SO SRCPARAM 29885E44 1.196981 15.24 1088.71 2.8 2.13
** NMED source ID=29885EQPT47 Facility's ID=3-EP-1h
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E47 POINT 639118.21 3564742.211 0
SO SRCPARAM 29885E47 .0037421 4.57 491.48 12.41 .46
```

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** NMED source ID=29885EQPT49 Facility's ID=1-EP-2
** Description=Flare - Cryo 1 Train SSM & Pilot Construction date=15-NOV-12
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885E49 POINT 639108.574 3564742.288 0
SO SRCPARAM 29885E49 .0011466 22.86 1273 20 13.84
** NMED source ID=29885EQPT50 Facility's ID=2-EP-2a
** Description=Flare SSM - Cryo 2 Train & Pilot Construction date=20-JUL-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885E50 POINT 639101.313 3564735.622 0
SO SRCPARAM 29885E50 .0028728 22.86 1273 20 21.97
** NMED source ID=29885EQPT51 Facility's ID=3-EP-2a
** Description=Flare SSM - Cryo 3 Train & Pilot Construction date=24-OCT-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885E51 POINT 639100.533 3564725.576 0
SO SRCPARAM 29885E51 .0002898 22.86 1273 20 22.28
** NMED source ID=29885EQPT53 Facility's ID=EP-9
** Description=Flare - Sour Slop Tank Control & Pilot Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885E53 POINT 639106.951 3564717.525 0
SO SRCPARAM 29885E53 .0151198 6.1 1273 20 .52
** NMED source ID=29885EQPT55 Facility's ID=4-EP-1b
** Description=HMO Heater - Cryo 4 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5178hr/yr, 14hr/day
SO LOCATION 29885E55 POINT 639117.353 3564715.984 0
SO SRCPARAM 29885E55 .0109366 7.87 493.71 7.96 .71
** NMED source ID=29885EQPT56 Facility's ID=4-EP-2a
** Description=Flare SSM - Cryo 4 Train & Pilot Construction date=28-DEC-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885E56 POINT 639126.193 3564722.076 0
SO SRCPARAM 29885E56 .0031625 22.86 1273 20 22.28
** NMED source ID=29885EQPT57 Facility's ID=4-EP-1a
** Description=Mol Sieve Heater - Cryo 4 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2877hr/yr, 8hr/day
SO LOCATION 29885E57 POINT 639128.55 3564732.774 0
SO SRCPARAM 29885E57 .0045989 6.71 464.82 8.56 .41
** NMED source ID=29885EQPT58 Facility's ID=4-EP-1d
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** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8631hr/yr, 24hr/day
SO LOCATION 29885E58 POINT 639122.866 3564742.395 0
SO SRCPARAM 29885E58 .0037421 4.57 491.48 12.41 .46
** NMED source ID=29885EQPT59 Facility's ID=4-EP-1e
** Description=Glycol Dehydrator Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8631hr/yr, 24hr/day
SO LOCATION 29885E59 POINT 639111.936 3564745.617 0
SO SRCPARAM 29885E59 .0002898 6.1 602.04 16.63 .21
** NMED source ID=29885EQPT60 Facility's ID=4-EP-1h
** Description=Amine Unit Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8631hr/yr, 24hr/day
SO LOCATION 29885E60 POINT 639101.549 3564740.422 0
SO SRCPARAM 29885E60 .0037421 4.57 491.48 12.41 .46
** NMED source ID=29885EQPT63 Facility's ID=EP-8
** Description=Thermal Oxidizer (TO) Construction date=24-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885E63 POINT 639097.418 3564729.332 0
SO SRCPARAM 29885E63 1.196981 15.24 1088.71 2.8 2.13
** NMED source ID=29885EQPT64 Facility's ID=5-EP-1a
** Description=Amine Unit & Glycol Dehydrator Reboiler  Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8615hr/yr, 24hr/day
SO LOCATION 29885E64 POINT 639102.044 3564718.201 0
SO SRCPARAM 29885E64 .0037421 4.57 491.48 12.41 .46
** NMED source ID=29885EQPT65 Facility's ID=5-EP-1b
** Description=Glycol Dehydrator Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8615hr/yr, 24hr/day
SO LOCATION 29885E65 POINT 639113.218 3564713.124 0
SO SRCPARAM 29885E65 .0002898 6.1 602.04 16.63 .21
** NMED source ID=29885EQPT66 Facility's ID=5-EP-1c
** Description=Mole Sieve Heater - Cryo 5 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2871hr/yr, 8hr/day
SO LOCATION 29885E66 POINT 639125.061 3564717.1 0
SO SRCPARAM 29885E66 .0045989 6.71 464.82 8.56 .41
** NMED source ID=29885EQPT67 Facility's ID=5-EP-1d
** Description=HMO Heater - Cryo 5 Train Construction date=28-DEC-18
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5169hr/yr, 14hr/day
SO LOCATION 29885E67 POINT 639131.117 3564728.278 0
SO SRCPARAM 29885E67 .0109366 7.87 493.71 7.96 .71
** NMED source ID=29885EQPT71 Facility's ID=6-EP-1a
** Description=Amine Unit & Glycol Dehydrator Reboiler  Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2532hr/yr, 7hr/day
SO LOCATION 29885E71 POINT 639127.87 3564740.796 0
SO SRCPARAM 29885E71 .0037421 4.57 491.48 12.41 .46
** NMED source ID=29885EQPT72 Facility's ID=6-EP-1b
** Description=Glycol Dehydrator Reboiler Construction date=20-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E72 POINT 639116.772 3564747.855 0
SO SRCPARAM 29885E72 .0002898 6.1 602.04 16.63 .21
** NMED source ID=29885EQPT73 Facility's ID=6-EP-1c
** Description=Mole Sieve Heater - Cryo 6 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=836hr/yr, 2hr/day
SO LOCATION 29885E73 POINT 639103.626 3564745.411 0
SO SRCPARAM 29885E73 .0045989 6.71 464.82 8.56 .41
** NMED source ID=29885EQPT74 Facility's ID=6-EP-1d
** Description=HMO Heater - Cryo 6 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1519hr/yr, 4hr/day
SO LOCATION 29885E74 POINT 639095.545 3564734.483 0
SO SRCPARAM 29885E74 .0109366 7.87 493.71 7.96 .71
** NMED source ID=29885EQPT77 Facility's ID=7-EP-1c
** Description=Mole Sieve Heater - Cryo 7 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E77 POINT 639097.111 3564720.761 0
SO SRCPARAM 29885E77 .0045989 6.71 464.82 8.56 .41
** NMED source ID=29885EQPT78 Facility's ID=7-EP-1d
** Description=HMO Heater - Cryo 7 Train Construction date=28-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E78 POINT 639107.781 3564711.648 0
SO SRCPARAM 29885E78 .0109366 7.87 493.71 7.96 .71
** NMED source ID=29885EQPT85 Facility's ID=EP-10
** Description=Thermal Oxidizer (TO) Construction date=24-OCT-17
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E85 POINT 639122.018 3564712.268 0
SO SRCPARAM 29885E85 1.196981 15.24 1088.71 2.8 2.13
** NMED source ID=29885EQPT87 Facility's ID=EP-13
** Description=Flare - Sour Water Tanks Control Construction date=20-FEB-20
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E87 POINT 639132.164 3564722.585 0
SO SRCPARAM 29885E87 .0125998 18 1273 20 20.806
** NMED source ID=29885EQPT88 Facility's ID=2.5-EP-5
** Description=Flare - AGI System 1 SSM & Pilot (High H2S Handling #1) Construction
date=20-FEB-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885E88 POINT 639132.557 3564737.27 0
SO SRCPARAM 29885E88 2.1431126 45.42 1273 20 3.64
** NMED source ID=29885EQPT89 Facility's ID=5.5-EP-1b
** Description=Flare - AGI System 2 SSM & Pilot (High H2S Handling #1) Construction
date=20-FEB-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29885E89 POINT 639122.686 3564748.445 0
SO SRCPARAM 29885E89 4.6630726 45.42 1273 20 3.64
** NMED source ID=29885RPNT7 Facility's ID=SSM Venting Total
** Description=Startup Shutdown Maintenance Emissions Construction date=20-JUL-16
** SCC=31000299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29885R7 POINT 639107.628 3564749.91 0
SO SRCPARAM 29885R7 6.816265 4.5 690 15 .2
**********END OF 29885: Red Hills Gas Processing Plant
INFO**********************************
************************************************************
** 1.48km away. Facility ID=33152 Name=PolyNatura - Ochoa Mine Project
** Company ID=12322 Name=PolyNatura Corp
** SIC=1474 NAIC=212391   Permit=5384 NSR
** lat,long,datum=32.19975, -103.533111, NAD83
** Total Sulfur Dioxide emissions=12.7tons/year
*****************Facility sources: ****************************
** NMED source ID=33152EQPT63 Facility's ID=S18 A
** Description=Polyhalite Dryer Calciner (stack 3A) (S19A; S21A; S22A; S30A)
Construction date=10-DEC-13
** SCC=30502201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33152E63 POINT 638260.858 3563520.142 0
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SO SRCPARAM 33152E63 .2393962 76.81 519.26 28 3
** NMED source ID=33152EQPT216 Facility's ID=S196
** Description=Boiler 1 (Stack 12) Construction date=10-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 3152E216 POINT 638268.394 3563527.163 0
SO SRCPARAM 3152E216 .060416 15.24 455.37 25.19 1.22
** NMED source ID=33152EQPT218 Facility's ID=S197
** Description=Boiler 2 (Stack 13) Construction date=10-DEC-13
** SCC=30502299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 3152E218 POINT 638261.608 3563530.715 0
SO SRCPARAM 3152E218 .060416 15.24 455.37 25.19 1.22
**********END OF 33152: PolyNatura - Ochoa Mine Project
INFO**********************************
************************************************************
** 1.69km away. Facility ID=39982 Name=EOG - Jupiter 19 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2056, -103.5069, WGS84
** Total Sulfur Dioxide emissions=.12tons/year
*****************Facility sources: ****************************
** NMED source ID=39982EQPT1 Facility's ID=FL-1W
** Description=Flare (3 MM SCFD) Construction date=18-MAY-21
** SCC=30609903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39982E1 POINT 640722.595 3564202.703 0
SO SRCPARAM 39982E1 .0011466 12.19 1273 20 20.806
** NMED source ID=39982EQPT2 Facility's ID=FL-1 E
** Description=Flare (3 MM SCFD) Construction date=18-MAY-21
** SCC=30609903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39982E2 POINT 640730.131 3564209.724 0
SO SRCPARAM 39982E2 .0011466 12.19 1273 20 20.806
** NMED source ID=39982EQPT5 Facility's ID=HTR-1E
** Description=Heater Treater (1.5 MMBtu/h) Construction date=18-MAY-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39982E5 VOLUME 640723.345 3564213.276 0
SO SRCPARAM 39982E5 .00126 4.88 .47 .93
** NMED source ID=39982EQPT6 Facility's ID=HTR-1W
** Description=Heater Treater (1.5 MMBtu/h) Construction date=18-MAY-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39982E6 VOLUME 640715.748 3564211.184 0
SO SRCPARAM 39982E6 .00126 4.88 .47 .93
**********END OF 39982: EOG - Jupiter 19 Fed Com CTB
INFO************************************
************************************************************
** 1.71km away. Facility ID=38504 Name=Leo Thorsness Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223267, -103.534069, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=38504EQPT5 Facility's ID=GEN-1
** Description=PSI 390 HP generator Construction date=28-AUG-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3841hr/yr, 10hr/day
SO LOCATION 38504E5 POINT 638134.989 3566126.05 0
SO SRCPARAM 38504E5 .0002898 3.05 1005.37 112.55 .1
**********END OF 38504: Leo Thorsness Facility
INFO************************************
************************************************************
** 1.72km away. Facility ID=39913 Name=Broadside 12 Facility 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9134 NOI
** lat,long,datum=32.225803, -103.527072, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=39913EQPT1 Facility's ID=ECD-1
** Description=ECD-1 EQ000743118 Construction date=01-JAN-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39913E1 POINT 638790.526 3566416.216 0
SO SRCPARAM 39913E1 .0002898 6.1 1422.04 .41 .61
**********END OF 39913: Broadside 12 Facility 1
INFO************************************
************************************************************
** 1.75km away. Facility ID=40312 Name=Broadside 12 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9510 NOI
** lat,long,datum=32.225971, -103.520534, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=40312EQPT1 Facility's ID=ENG-1
** Description=Combustion Engine Construction date=27-JAN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40312E1 POINT 639406.389 3566443.308 0
SO SRCPARAM 40312E1 .0005796 5.18 710.93 52.3 .25
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**********END OF 40312: Broadside 12 Wellpad 2
INFO**********
**********
** 1.76km away. Facility ID=39788 Name=EOG - Falcon 25 Fed 1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.195, -103.5274, WGS84
** Total Sulfur Dioxide emissions=.04tons/year
**********Facility sources: **********
** NMED source ID=39788EQPT2 Facility's ID=Heater-1
** Description=0.5 MM Btu/hr heater treater Construction date=15-JAN-21
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39788E2 VOLUME 638806.41 3563000.908 0
SO SRCPARAM 39788E2 .00126 5.18 .47 .93
**********END OF 39788: EOG - Falcon 25 Fed 1H
INFO**********
**********
** 1.79km away. Facility ID=40140 Name=Devon - Broadside 12 Facility 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.225931, -103.518415, NAD83
** Total Sulfur Dioxide emissions=.24tons/year
**********Facility sources: **********
** NMED source ID=40140EQPT9 Facility's ID=HT-1
** Description=Heater Treater 1  3.0 MMBtu/hr Construction date=15-SEP-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40140E9 VOLUME 639606.138 3566441.626 0
SO SRCPARAM 40140E9 .00126 9.14 .47 .93
** NMED source ID=40140EQPT10 Facility's ID=FL-1
** Description=Process Flare -LP 15.5 MMscfd Construction date=15-SEP-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40140E10 POINT 639613.674 3566448.647 0
SO SRCPARAM 40140E10 .0214197 12.19 1273 20 12.826
**********END OF 40140: Devon - Broadside 12 Facility 2
INFO**********
**********
** 2.04km away. Facility ID=39685 Name=Blue Krait 23 Wellpad 7
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=8945 NOI
** lat,long,datum=32.195933, -103.536886, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
**********Facility sources: **********
** NMED source ID=39685EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=29-APR-21
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39685E1 POINT 637910.773 3563092.133 0
SO SRCPARAM 39685E1 .0002898 4.39 790.93 14.04 .26
** NMED source ID=39685EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=02-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39685E3 POINT 637918.309 3563099.154 0
SO SRCPARAM 39685E3 .0002898 4.39 778.71 13.8 .26
**********END OF 39685: Blue Krait 23 Wellpad 7
INFO**********************************
************************************************************
** 2.24km away. Facility ID=40063 Name=Concrete Batch Plant, GCP5-9285
** Company ID=719 Name=Roswell Ready Mix Company
** SIC=3273 NAIC=32732    Permit=9285 GCP5
** lat,long,datum=32.22806, -103.51224, NAD83
** Total Sulfur Dioxide emissions=50tons/year
*****************Facility sources: ******************************
** NMED source ID=40063ACT 1 Facility's ID=GCP-5
** Description=Concrete Batch Plant Construction date=17-JUL-21
** SCC=30501199
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40063@1 VOLUME 640184.781 3566685.695 0
SO SRCPARAM 40063@1 1.4383302 10 220 9.3
**********END OF 40063: Concrete Batch Plant, GCP5-9285
INFO**********************************
************************************************************
** 2.39km away. Facility ID=40875 Name=Blue Krait 23 Wellpad 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9847 NOI
** lat,long,datum=32.196517, -103.543112, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=40875EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=09-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40875E1 POINT 637322.987 3563148.906 0
SO SRCPARAM 40875E1 .0002898 4.39 778.71 13.8 .26
**********END OF 40875: Blue Krait 23 Wellpad 6
INFO**********************************
************************************************************
** 2.76km away. Facility ID=38952 Name=Carl Mottek Fed Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
```

```
** lat,long,datum=32.22393, -103.49917, NAD83
** Total Sulfur Dioxide emissions=.18tons/year
*****************Facility sources: ******************************
** NMED source ID=38952EQPT3 Facility's ID=ENG-01
** Description=400 hp Caterpillar CG137-8 Construction date=28-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8689hr/yr, 24hr/day
SO LOCATION 38952E3 POINT 641422.826 3566244.965 0
SO SRCPARAM 38952E3 .0002898 6.1 804.26 13.5 .27
** NMED source ID=38952EQPT6 Facility's ID=FL-1 HP
** Description=10 MMSCFD Flare Construction date=28-OCT-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38952E6 POINT 641430.362 3566251.986 0
SO SRCPARAM 38952E6 .0037799 15.09 1273 20 4.652
** NMED source ID=38952EQPT11 Facility's ID=FL-1 LP
** Description=Standard Flare Low Pressure Construction date=28-OCT-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38952E11 POINT 641423.576 3566255.538 0
SO SRCPARAM 38952E11 .00126 15.09 1273 20 2.632
**********END OF 38952: Carl Mottek Fed Tank Battery
INFO***********************************
************************************************************
** 2.76km away. Facility ID=34645 Name=Abu Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19, -103.5075, NAD83
** Total Sulfur Dioxide emissions=5.22tons/year
*****************Facility sources: ******************************
** NMED source ID=34645EQPT1 Facility's ID=ENG-1
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8759hr/yr, 24hr/day
SO LOCATION 34645E1 POINT 640690.05 3562472.466 0
SO SRCPARAM 34645E1 .0239396 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT2 Facility's ID=ENG-2
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8746hr/yr, 24hr/day
SO LOCATION 34645E2 POINT 640697.586 3562479.487 0
SO SRCPARAM 34645E2 .0239396 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT3 Facility's ID=ENG-3
```

```
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8745hr/yr, 24hr/day
SO LOCATION 34645E3 POINT 640690.8 3562483.039 0
SO SRCPARAM 34645E3 .0239396 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT4 Facility's ID=ENG-4
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8544hr/yr, 24hr/day
SO LOCATION 34645E4 POINT 640683.203 3562480.947 0
SO SRCPARAM 34645E4 .0239396 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT5 Facility's ID=ENG-5
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8781hr/yr, 24hr/day
SO LOCATION 34645E5 POINT 640678.962 3562474.047 0
SO SRCPARAM 34645E5 .0239396 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT6 Facility's ID=ENG-6
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=15-DEC-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8437hr/yr, 23hr/day
SO LOCATION 34645E6 POINT 640680.614 3562465.893 0
SO SRCPARAM 34645E6 .0239396 5.52 685.93 46.6 .46
** NMED source ID=34645EQPT7 Facility's ID=HTR-1
** Description=1.5 MMBtu/hr Heater Construction date=15-DEC-14
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 34645E7 VOLUME 640687.563 3562460.931 0
SO SRCPARAM 34645E7 .0037799 2.44 .47 .93
** NMED source ID=34645EQPT8 Facility's ID=REB-1
** Description=0.75 MMBtu/hr TEG Reboiler Construction date=15-DEC-14
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 34645E8 POINT 640696.246 3562462.073 0
SO SRCPARAM 34645E8 .00126 2.44 588.71 7.22 .15
** NMED source ID=34645EQPT19 Facility's ID=FL-1
** Description=FL-1; Flare Construction date=15-DEC-14
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
```

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SO LOCATION 34645E19 POINT 640701.956 3562469.001 0
SO SRCPARAM 34645E19 .0002898 7.62 1273 20 20.806
**********END OF 34645: Abu Compressor Station
INFO**********************************
************************************************************
** 2.96km away. Facility ID=39951 Name=EOG - Falcon 25 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1841, -103.527, WGS84
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=39951EQPT3 Facility's ID=FL-1
** Description=Process Flare 3 MMSCFD Construction date=09-JUN-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39951E3 POINT 638860.671 3561793.032 0
SO SRCPARAM 39951E3 .00126 12.19 1273 20 2.632
**********END OF 39951: EOG - Falcon 25 Fed Com CTB
INFO**********************************
************************************************************
** 3.1km away. Facility ID=39998 Name=Yukon 20 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2071, -103.4912, NAD83
** Total Sulfur Dioxide emissions=52.64tons/year
*****************Facility sources: ******************************
** NMED source ID=39998EQPT2 Facility's ID=FL-1
** Description=Process Flare Construction date=04-JUN-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E2 POINT 642200.111 3564389.663 0
SO SRCPARAM 39998E2 .0037799 12.19 1273 20 .51
** NMED source ID=39998EQPT3 Facility's ID=FL-2
** Description=Emergency Flare Construction date=04-JUN-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E3 POINT 642207.647 3564396.684 0
SO SRCPARAM 39998E3 .1474177 18.29 1273 20 2.632
** NMED source ID=39998EQPT4 Facility's ID=HTR-3
** Description=Heater Treater Construction date=04-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E4 VOLUME 642200.861 3564400.236 0
SO SRCPARAM 39998E4 .0239396 4.88 .47 .93
** NMED source ID=39998EQPT12 Facility's ID=HTR-1
** Description=Heater Treater Construction date=08-DEC-22
```

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** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E12 VOLUME 642193.264 3564398.144 0
SO SRCPARAM 39998E12 .0239396 4.88 .47 .93
** NMED source ID=39998EQPT13 Facility's ID=HTR-2
** Description=Heater Treater Construction date=08-DEC-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E13 VOLUME 642189.023 3564391.244 0
SO SRCPARAM 39998E13 .0239396 4.88 .47 .93
** NMED source ID=39998EQPT15 Facility's ID=FL-1 SSM
** Description=Process Flare SSM Construction date=08-DEC-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E15 POINT 642190.675 3564383.09 0
SO SRCPARAM 39998E15 1.2571072 12.19 1273 20 .51
** NMED source ID=39998EQPT19 Facility's ID=ENG-4
** Description=Gas Lift Engine Construction date=07-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39998E19 POINT 642197.624 3564378.128 0
SO SRCPARAM 39998E19 .0327595 3.96 899.82 25.12 .13
**********END OF 39998: Yukon 20 Fed Com CTB
INFO**********************************
************************************************************
** 3.22km away. Facility ID=38910 Name=Mark West - Bell Lake South Compressor
Station
** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.237897, -103.512808, WGS84
** Total Sulfur Dioxide emissions=.42tons/year
****************Facility sources: ****************************
** NMED source ID=38910EQPT1 Facility's ID=Reboil-1
** Description=TEG Reboiler 1.5 MMscfd Construction date=05-APR-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38910E1 POINT 640116.154 3567775.511 0
SO SRCPARAM 38910E1 .00126 4.88 588.71 2.35 .4
** NMED source ID=38910EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine CAT 3608, 2500HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7125hr/yr, 24hr/day
SO LOCATION 38910E2 POINT 640123.69 3567782.532 0
SO SRCPARAM 38910E2 .00126 7.01 718.71 57.49 .41
```

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** NMED source ID=38910EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine CAT 3608, 2500HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7225hr/yr, 24hr/day
SO LOCATION 38910E3 POINT 640116.904 3567786.084 0
SO SRCPARAM 38910E3 .00126 7.01 708.15 57.94 .41
** NMED source ID=38910EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine CAT 3516J, 1380HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6863hr/yr, 24hr/day
SO LOCATION 38910E4 POINT 640109.307 3567783.992 0
SO SRCPARAM 38910E4 .00126 7.01 713.71 52 .3
** NMED source ID=38910EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7400hr/yr, 24hr/day
SO LOCATION 38910E5 POINT 640105.066 3567777.092 0
SO SRCPARAM 38910E5 .00126 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7192hr/yr, 24hr/day
SO LOCATION 38910E6 POINT 640106.718 3567768.938 0
SO SRCPARAM 38910E6 .00126 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6892hr/yr, 24hr/day
SO LOCATION 38910E7 POINT 640113.667 3567763.976 0
SO SRCPARAM 38910E7 .00126 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT8 Facility's ID=ENG-7
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=05-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6988hr/yr, 24hr/day
SO LOCATION 38910E8 POINT 640122.35 3567765.118 0
SO SRCPARAM 38910E8 .00126 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT15 Facility's ID=ENG-8
** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=12-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6027hr/yr, 24hr/day
SO LOCATION 38910E15 POINT 640128.06 3567772.046 0
SO SRCPARAM 38910E15 .00126 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT16 Facility's ID=ENG-9
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** Description=Compressor Engine CAT 3516LE, 1340 HP Construction date=12-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38910E16 POINT 640127.495 3567781.227 0
SO SRCPARAM 38910E16 .00126 7.01 805.93 62.15 .3
** NMED source ID=38910EQPT19 Facility's ID=ECD-1
** Description=Enclosed Combustion Device 500 m scf/d Construction date=29-NOV-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=500hr/yr, 24hr/day
SO LOCATION 38910E19 POINT 640120.66 3567787.705 0
SO SRCPARAM 38910E19 .0037799 9.75 1273 20 2.13
** NMED source ID=38910EQPT20 Facility's ID=ECD-2
** Description=Enclosed Combustion Device 30 M scf/d Construction date=29-NOV-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38910E20 POINT 640111.024 3567787.782 0
SO SRCPARAM 38910E20 .0037799 3.66 1273 20 1.22
**********END OF 38910: Mark West - Bell Lake South Compressor Station
INFO************************************
************************************************************
** 3.25km away. Facility ID=32699 Name=EOG - Hawk 25 Fed No 1H and Falcon 25 Fed No
2H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.182, -103.5311, WGS84
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=32699EQPT3 Facility's ID=HT-1
** Description=Heater Treater (0.5 MM BTU/hr) Construction date=31-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7332hr/yr, 24hr/day
SO LOCATION 32699E3 VOLUME 638477.304 3561554.935 0
SO SRCPARAM 32699E3 .0002898 5.18 .47 .93
** NMED source ID=32699EQPT4 Facility's ID=HT-2
** Description=Heater Treater (0.5 MM BTU/hr) Construction date=31-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8773hr/yr, 24hr/day
SO LOCATION 32699E4 VOLUME 638484.84 3561561.956 0
SO SRCPARAM 32699E4 .0002898 5.18 .47 .93
** NMED source ID=32699EQPT5 Facility's ID=HT-3
** Description=Heater Treater (0.5 MM BTU/hr) Construction date=31-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32699E5 VOLUME 638478.054 3561565.508 0
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SO SRCPARAM 32699E5 .0002898 5.18 .47 .93
**********END OF 32699: EOG - Hawk 25 Fed No 1H and Falcon 25 Fed No 2H
INFO**********************************
************************************************************
** 3.3km away. Facility ID=40279 Name=Tap Rock - Prometheus D CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199421, -103.556337, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=40279EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3606 1875 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40279E1 POINT 636071.99 3563454.03 0
SO SRCPARAM 40279E1 .00126 4.57 725.93 174.96 .2
**********END OF 40279: Tap Rock - Prometheus D CTB
INFO**********************************
************************************************************
** 3.3km away. Facility ID=40266 Name=EOG - Denali Local Gas Lift
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2017, -103.4905, WGS84
** Total Sulfur Dioxide emissions=.9tons/year
*****************Facility sources: ****************************
** NMED source ID=40266EQPT2 Facility's ID=ENG -1
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E2 POINT 642274.499 3563791.931 0
SO SRCPARAM 40266E2 .00252 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E3 POINT 642282.035 3563798.952 0
SO SRCPARAM 40266E3 .00252 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E4 POINT 642275.249 3563802.504 0
SO SRCPARAM 40266E4 .00252 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E5 POINT 642267.652 3563800.412 0
SO SRCPARAM 40266E5 .00252 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E6 POINT 642263.411 3563793.512 0
SO SRCPARAM 40266E6 .00252 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=17-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E7 POINT 642265.063 3563785.358 0
SO SRCPARAM 40266E7 .00252 6.1 688.15 25.24 .61
** NMED source ID=40266EQPT8 Facility's ID=FL-1
** Description=Flare Construction date=17-DEC-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E8 POINT 642272.012 3563780.396 0
SO SRCPARAM 40266E8 .0075599 6.1 1273 20 20.806
** NMED source ID=40266EQPT9 Facility's ID=HTR-1
** Description=Separator Heater Construction date=17-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E9 POINT 642280.695 3563781.538 0
SO SRCPARAM 40266E9 .0002898 3.05 588.71 .95 .52
** NMED source ID=40266EQPT11 Facility's ID=RBL-1
** Description=Dehy Reboiler Construction date=17-DEC-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40266E11 POINT 642286.405 3563788.466 0
SO SRCPARAM 40266E11 .0002898 6.1 588.71 .11 1.83
**********END OF 40266: EOG - Denali Local Gas Lift
INFO**********************************
************************************************************
** 3.42km away. Facility ID=38948 Name=Charles Ling East Fed Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.237744, -103.540898, NAD83
** Total Sulfur Dioxide emissions=.33tons/year
****************Facility sources: ****************************
** NMED source ID=38948EQPT15 Facility's ID=HT-01
** Description=Heater Treater Global Vessels 0.5 MMbtu/hr Construction
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date=08-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38948E15 POINT 637469.627 3567722.24 0
SO SRCPARAM 38948E15 .00252 10.67 422.04 135.85 .2
** NMED source ID=38948EQPT17 Facility's ID=FL-1-LP-NO
** Description=Flare 0.1 MMscfd Construction date=08-AUG-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38948E17 POINT 637477.163 3567729.261 0
SO SRCPARAM 38948E17 .00126 12.19 1273 20 20.806
** NMED source ID=38948EQPT25 Facility's ID=FL-1-HP-SSM
** Description=Flare 8.6 MMscfd Construction date=05-AUG-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38948E25 POINT 637470.377 3567732.813 0
SO SRCPARAM 38948E25 .0002898 12.19 1273 20 5.885
** NMED source ID=38948EQPT26 Facility's ID=FL-1-HP-Pilot
** Description=Flare, pilot Construction date=05-AUG-20
** SCC=31000199
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38948E26 POINT 637462.78 3567730.721 0
SO SRCPARAM 38948E26 .0050399 12.19 1273 20 20.806
** NMED source ID=38948EQPT27 Facility's ID=FL-1-LP-Pilot
** Description=Flare Construction date=05-AUG-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38948E27 POINT 637458.539 3567723.821 0
SO SRCPARAM 38948E27 .0002898 12.19 1273 20 20.806
** NMED source ID=38948EQPT29 Facility's ID=ENG-2
** Description=Engine 2 Construction date=12-MAR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38948E29 POINT 637460.191 3567715.667 0
SO SRCPARAM 38948E29 .00126 6.1 1005.37 4.2 .3
** NMED source ID=38948EQPT30 Facility's ID=ENG-1
** Description=Engine 1 Construction date=09-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38948E30 POINT 637467.14 3567710.705 0
SO SRCPARAM 38948E30 .00126 6.1 810.37 10.52 .3
**********END OF 38948: Charles Ling East Fed Tank Battery
INFO**********************************
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************************************************************
** 3.43km away. Facility ID=35483 Name=Dragon 36 State Nos 501H, 502H, 701H, 706H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.17971, -103.52411, WGS84
** Total Sulfur Dioxide emissions=.64tons/year
*****************Facility sources: ****************************
** NMED source ID=35483EQPT17 Facility's ID=HEATER-1
** Description=0.75 MM Btu/hr Heater Treater Construction date=10-JUL-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35483E17 VOLUME 639139.818 3561310.084 0
SO SRCPARAM 35483E17 .0002898 5.18 .47 .93
** NMED source ID=35483EQPT18 Facility's ID=HEATER-2
** Description=0.75 MM Btu/hr Heater Treater Construction date=10-JUL-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35483E18 VOLUME 639147.354 3561317.105 0
SO SRCPARAM 35483E18 .0002898 5.18 .47 .93
** NMED source ID=35483EQPT21 Facility's ID=Flare-1
** Description=5 MMscfd process Flare Construction date=10-JUL-20
** SCC=30600903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35483E21 POINT 639140.568 3561320.657 0
SO SRCPARAM 35483E21 .0178413 12.19 1273 20 .7
**********END OF 35483: Dragon 36 State Nos 501H, 502H, 701H, 706H
INFO**********************************
************************************************************
** 3.48km away. Facility ID=38491 Name=EOG - Dragon Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.179322, -103.526394, WGS84
** Total Sulfur Dioxide emissions=25.24tons/year
*****************Facility sources: ****************************
** NMED source ID=38491EQPT1 Facility's ID=ENG-2
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8437hr/yr, 23hr/day
SO LOCATION 38491E1 POINT 638925.062 3561264.118 0
SO SRCPARAM 38491E1 .0597357 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT2 Facility's ID=ENG-4
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8097hr/yr, 22hr/day
SO LOCATION 38491E2 POINT 638932.598 3561271.139 0
```

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SO SRCPARAM 38491E2 .0622443 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT3 Facility's ID=ENG-5
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8034hr/yr, 22hr/day
SO LOCATION 38491E3 POINT 638925.812 3561274.691 0
SO SRCPARAM 38491E3 .0627319 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT4 Facility's ID=ENG-6
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8643hr/yr, 24hr/day
SO LOCATION 38491E4 POINT 638918.215 3561272.599 0
SO SRCPARAM 38491E4 .0583119 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT5 Facility's ID=ENG-7
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38491E5 POINT 638913.974 3561265.699 0
SO SRCPARAM 38491E5 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT6 Facility's ID=ENG-9
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38491E6 POINT 638915.626 3561257.545 0
SO SRCPARAM 38491E6 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT8 Facility's ID=Heater-1
** Description=Separator Heater Construction date=01-AUG-18
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38491E8 POINT 638922.575 3561252.583 0
SO SRCPARAM 38491E8 .0037799 7 730 28 .3
** NMED source ID=38491EQPT9 Facility's ID=Flare-1
** Description=Process Flare Construction date=01-AUG-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38491E9 POINT 638931.258 3561253.725 0
SO SRCPARAM 38491E9 .0251996 6 1273 20 2.632
** NMED source ID=38491EQPT10 Facility's ID=ENG-3
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8680hr/yr, 24hr/day
SO LOCATION 38491E10 POINT 638936.968 3561260.653 0
SO SRCPARAM 38491E10 .0580637 8.53 719.26 27.43 .51
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** NMED source ID=38491EQPT11 Facility's ID=ENG-8
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38491E11 POINT 638936.403 3561269.834 0
SO SRCPARAM 38491E11 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38491EQPT16 Facility's ID=Reboiler-1
** Description=Reboiler Dehydrator Construction date=01-AUG-18
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38491E16 POINT 638929.568 3561276.312 0
SO SRCPARAM 38491E16 .0062999 7 730 28 .3
** NMED source ID=38491EQPT17 Facility's ID=ENG-1
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8106hr/yr, 22hr/day
SO LOCATION 38491E17 POINT 638919.932 3561276.389 0
SO SRCPARAM 38491E17 .062175 8.53 719.26 27.43 .51
**********END OF 38491: EOG - Dragon Localized Gas Lift Station
INFO***********************************
************************************************************
** 3.57km away. Facility ID=40277 Name=Prometheus C CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199493, -103.559476, NAD83
** Total Sulfur Dioxide emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=40277EQPT24 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=09-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40277E24 POINT 635775.99 3563458.042 0
SO SRCPARAM 40277E24 .00126 6.1 700.93 76.78 .3
** NMED source ID=40277EQPT25 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=09-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40277E25 POINT 635783.526 3563465.063 0
SO SRCPARAM 40277E25 .0005796 4.57 719.26 52.3 .3
**********END OF 40277: Prometheus C CTB INFO************************************
************************************************************
** 3.6km away. Facility ID=33901 Name=Hawk 35 Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1801, -103.5367, WGS84
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** Total Sulfur Dioxide emissions=.3tons/year
**********Facility sources: ****************************
** NMED source ID=33901EQPT6 Facility's ID=HTR-1
** Description=Heater Treater,  0.75-mmBTU/hr Construction date=18-JUN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 33901E6 POINT 637952.192 3561337.102 0
SO SRCPARAM 33901E6 .0002898 4.88 588.71 .21 1.22
** NMED source ID=33901EQPT24 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=01-JAN-15
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33901E24 POINT 637959.728 3561344.123 0
SO SRCPARAM 33901E24 .0083411 7.62 1273 20 5.505
**********END OF 33901: Hawk 35 Fed CTB INFO**************************************
************************************************************
** 3.74km away. Facility ID=38310 Name=Targa - Blu Compressor Station
** Company ID=901 Name=Versado Gas Processors, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.209103, -103.484219, WGS84
** Total Sulfur Dioxide emissions=34.59tons/year
**********Facility sources: ****************************
** NMED source ID=38310EQPT6 Facility's ID=H-1
** Description=TEG Reboiler 3.0 MM Btu/hr Construction date=12-FEB-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38310E6 POINT 642854.986 3564620.98 0
SO SRCPARAM 38310E6 .0314995 6.1 477.59 .52 1.07
** NMED source ID=38310EQPT7 Facility's ID=Flare
** Description=Process Flare 80 MMSCFD Construction date=12-FEB-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38310E7 POINT 642862.522 3564628.001 0
SO SRCPARAM 38310E7 .9727046 12.19 1273 20 11.77
**********END OF 38310: Targa - Blu Compressor Station
INFO**********************************
************************************************************
** 3.8km away. Facility ID=39780 Name=Kaiser-Francis - South Bell Lake Pad 3
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.24465, -103.524856, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
**********Facility sources: ****************************
** NMED source ID=39780EQPT2 Facility's ID=HT-1
** Description=Heater Treater (0.75 MM BTU/h) Construction date=11-DEC-20
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39780E2 VOLUME 638970.654 3568508.508 0
SO SRCPARAM 39780E2 .0002898 4.57 .47 .93
** NMED source ID=39780EQPT6 Facility's ID=HT-2
** Description=Heater Treater (0.75 MM BTU/h) Construction date=09-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39780E6 VOLUME 638978.19 3568515.529 0
SO SRCPARAM 39780E6 .0002898 4.57 .47 .93
**********END OF 39780: Kaiser-Francis - South Bell Lake Pad 3
INFO**********************************
************************************************************
** 3.86km away. Facility ID=40276 Name=Tap Rock - Prometheus B CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19947, -103.56268, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=40276EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3606 1875 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40276E1 POINT 635474.005 3563451.45 0
SO SRCPARAM 40276E1 .00126 4.57 725.93 174.96 .2
**********END OF 40276: Tap Rock - Prometheus B CTB
INFO**********************************
************************************************************
** 3.95km away. Facility ID=38279 Name=Kaiser-Francis - South Bell Lake Pad 2
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2452, -103.5327, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=38279EQPT1 Facility's ID=HTR-1
** Description=Heater Treater 1MM btu/h Construction date=06-SEP-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38279E1 POINT 638230.781 3568559.355 0
SO SRCPARAM 38279E1 .0002898 4.57 369.82 7.99 .09
** NMED source ID=38279EQPT9 Facility's ID=HTR-2
** Description=Heater Treater 1MM btu/h Construction date=22-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38279E9 POINT 638238.317 3568566.376 0
SO SRCPARAM 38279E9 .0002898 4.57 369.82 7.99 .09
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** NMED source ID=38279EQPT10 Facility's ID=HTR-3
** Description=Heater Treater 1MM btu/h Construction date=22-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38279E10 POINT 638231.531 3568569.928 0
SO SRCPARAM 38279E10 .0002898 4.57 369.82 7.99 .09
** NMED source ID=38279EQPT11 Facility's ID=HTR-4
** Description=Heater Treater 1MM btu/h Construction date=22-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38279E11 POINT 638223.934 3568567.836 0
SO SRCPARAM 38279E11 .0002898 4.57 369.82 7.99 .09
**********END OF 38279: Kaiser-Francis - South Bell Lake Pad 2
INFO***********************************
************************************************************
** 3.95km away. Facility ID=38949 Name=Charles Ling West Fed Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.23838, -103.54995, NAD83
** Total Sulfur Dioxide emissions=2.48tons/year
*****************Facility sources: ****************************
** NMED source ID=38949EQPT13 Facility's ID=HT-1
** Description=Heater Treater 0.5 MMBtu/hr Construction date=16-MAY-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38949E13 POINT 636615.76 3567781.195 0
SO SRCPARAM 38949E13 .00252 9.14 422.04 20.97 .2
** NMED source ID=38949EQPT16 Facility's ID=FL-1 HP
** Description=Standard Flare Construction date=16-MAY-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38949E16 POINT 636623.296 3567788.216 0
SO SRCPARAM 38949E16 .2885354 12.19 1273 20 20.806
** NMED source ID=38949EQPT21 Facility's ID=FL-1 LP
** Description=Standard Flare Construction date=28-JUL-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38949E21 POINT 636616.51 3567791.768 0
SO SRCPARAM 38949E21 .00252 12.19 1273 20 2.632
** NMED source ID=38949EQPT24 Facility's ID=ENG-1a
** Description=Compressor Engine CAT CG137-8 Construction date=09-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38949E24 POINT 636608.913 3567789.676 0
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SO SRCPARAM 38949E24 .00252 3.66 808.71 96.56 .1
**********END OF 38949: Charles Ling West Fed Tank Battery
INFO**********************************
************************************************************
** 3.98km away. Facility ID=38401 Name=EOG - Neptune Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.239464, -103.548719, WGS84
** Total Sulfur Dioxide emissions=25.24tons/year
*****************Facility sources: ****************************
** NMED source ID=38401EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3606 A4 1875hp Construction date=11-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8709hr/yr, 24hr/day
SO LOCATION 38401E1 POINT 636730.124 3567902.936 0
SO SRCPARAM 38401E1 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38401EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3606 A4 1875hp Construction date=11-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8727hr/yr, 24hr/day
SO LOCATION 38401E2 POINT 636737.66 3567909.957 0
SO SRCPARAM 38401E2 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38401EQPT3 Facility's ID=ENG-3
** Description=Caterpillar G3606 A4 1875hp Construction date=11-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8718hr/yr, 24hr/day
SO LOCATION 38401E3 POINT 636730.874 3567913.509 0
SO SRCPARAM 38401E3 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38401EQPT4 Facility's ID=ENG-4
** Description=Caterpillar G3606 A4 1875hp Construction date=11-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8709hr/yr, 24hr/day
SO LOCATION 38401E4 POINT 636723.277 3567911.417 0
SO SRCPARAM 38401E4 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38401EQPT5 Facility's ID=ENG-5
** Description=Caterpillar G3606 A4 1875hp Construction date=11-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8731hr/yr, 24hr/day
SO LOCATION 38401E5 POINT 636719.036 3567904.517 0
SO SRCPARAM 38401E5 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38401EQPT7 Facility's ID=ENG-7
** Description=Caterpillar G3606 A4 1875hp Construction date=11-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38401E7 POINT 636720.688 3567896.363 0
SO SRCPARAM 38401E7 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38401EQPT8 Facility's ID=ENG-8
** Description=Caterpillar G3606 A4 1875hp Construction date=11-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38401E8 POINT 636727.637 3567891.401 0
SO SRCPARAM 38401E8 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38401EQPT9 Facility's ID=ENG-9
** Description=Caterpillar G3606 A4 1875hp Construction date=11-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38401E9 POINT 636736.32 3567892.543 0
SO SRCPARAM 38401E9 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38401EQPT15 Facility's ID=Reboiler-1
** Description=0.75 MMBtu/hr Dehydrator Reboiler Construction date=11-JUL-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38401E15 POINT 636742.03 3567899.471 0
SO SRCPARAM 38401E15 .0062999 3.96 588.71 2.01 .3
** NMED source ID=38401EQPT16 Facility's ID=Heater-1
** Description=0.5 MMBtu/hr Separator Heater Construction date=11-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38401E16 VOLUME 636741.465 3567908.652 0
SO SRCPARAM 38401E16 .0037799 4.57 .47 .93
** NMED source ID=38401EQPT17 Facility's ID=Flare-1
** Description=.5 MMSCFD Process Flare Construction date=11-JUL-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38401E17 POINT 636734.63 3567915.13 0
SO SRCPARAM 38401E17 .0251996 7.62 1273 20 2.632
** NMED source ID=38401EQPT6 Facility's ID=ENG-6
** Description=Caterpillar G3606 A4 1875hp Construction date=11-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8616hr/yr, 24hr/day
SO LOCATION 38401E6 POINT 636724.994 3567915.207 0
SO SRCPARAM 38401E6 .0768588 8.53 719.26 27.43 .51
**********END OF 38401: EOG - Neptune Localized Gas Lift Station
INFO************************************
************************************************************
** 4.02km away. Facility ID=40239 Name=South Bell Lake Pad 4
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
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** lat,long,datum=32.2466, -103.52168, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=40239EQPT4 Facility's ID=HT-1
** Description=Heater Treater Construction date=08-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40239E4 VOLUME 639266.911 3568728.806 0
SO SRCPARAM 40239E4 .0002898 4.57 .47 .93
** NMED source ID=40239EQPT5 Facility's ID=HT-2
** Description=Heater Treater Construction date=08-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40239E5 VOLUME 639274.447 3568735.827 0
SO SRCPARAM 40239E5 .0002898 4.57 .47 .93
**********END OF 40239: South Bell Lake Pad 4
INFO**********************************
************************************************************
** 4.1km away. Facility ID=40233 Name=Kaiser Francis - South Bell Lake Pad 1
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.24728, -103.52756, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=40233EQPT3 Facility's ID=HT-1
** Description=Heater Treater 0.75 MMBtu/hr Construction date=01-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40233E3 POINT 638711.892 3568796.58 0
SO SRCPARAM 40233E3 .0002898 4.57 369.82 7.99 .09
** NMED source ID=40233EQPT4 Facility's ID=HT-2
** Description=Heater Treater 0.75 MMBtu/hr Construction date=01-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40233E4 POINT 638719.428 3568803.601 0
SO SRCPARAM 40233E4 .0002898 4.57 369.82 7.99 .09
**********END OF 40233: Kaiser Francis - South Bell Lake Pad 1
INFO**********************************
************************************************************
** 4.17km away. Facility ID=40296 Name=South Bell Lake Pad 6
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.24691, -103.51301, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=40296EQPT2 Facility's ID=HT-1
```

```
** Description=Heater Treater Construction date=27-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40296E2 VOLUME 640083.283 3568774.455 0
SO SRCPARAM 40296E2 .0002898 4.57 .47 .93
** NMED source ID=40296EQPT3 Facility's ID=HT-2
** Description=Heater Treater Construction date=27-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40296E3 VOLUME 640090.819 3568781.476 0
SO SRCPARAM 40296E3 .0002898 4.57 .47 .93
**********END OF 40296: South Bell Lake Pad 6
INFO**********************************
************************************************************
** 4.2km away. Facility ID=40275 Name=Prometheus A CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.200389, -103.566877, NAD83
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40275EQPT2 Facility's ID=GEN-1
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E2 POINT 635077.024 3563548.049 0
SO SRCPARAM 40275E2 .0002898 4.57 1023.15 27.31 .2
** NMED source ID=40275EQPT3 Facility's ID=GEN-2
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E3 POINT 635084.56 3563555.07 0
SO SRCPARAM 40275E3 .0002898 4.57 1023.15 27.31 .2
** NMED source ID=40275EQPT4 Facility's ID=GEN-3
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E4 POINT 635077.774 3563558.622 0
SO SRCPARAM 40275E4 .0002898 4.57 1023.15 27.31 .2
** NMED source ID=40275EQPT5 Facility's ID=GEN-4
** Description=PSI 14.6L 390 hp Construction date=13-JAN-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E5 POINT 635070.177 3563556.53 0
SO SRCPARAM 40275E5 .0002898 4.57 1023.15 27.31 .2
```

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** NMED source ID=40275EQPT20 Facility's ID=ENG-2
** Description=Caterpillar G3516 1380 hp Construction date=29-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40275E20 POINT 635065.936 3563549.63 0
SO SRCPARAM 40275E20 .00126 4.57 784.82 106.68 .2
**********END OF 40275: Prometheus A CTB INFO************************************
************************************************************
** 4.22km away. Facility ID=763 Name=Bell Lake Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=2208 NSR
** lat,long,datum=32.2484, -103.521883, Unknown
** Total Sulfur Dioxide emissions=.6tons/year
*****************Facility sources: ******************************
** NMED source ID=763EQPT7 Facility's ID=E1
** Description=Caterpillar 3516 LE  Construction date=10-AUG-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1323hr/yr, 24hr/day
SO LOCATION 763E7 POINT 639286.969 3569099.324 0
SO SRCPARAM 763E7 .0125998 4.57 740.37 110.34 .2
**********END OF 763: Bell Lake Compressor Station
INFO************************************
************************************************************
** 4.29km away. Facility ID=39997 Name=Galleon 21 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.198, -103.4808, NAD83
** Total Sulfur Dioxide emissions=45.27tons/year
*****************Facility sources: ******************************
** NMED source ID=39997EQPT2 Facility's ID=FL-1
** Description=Process Flare Construction date=04-JUN-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E2 POINT 643194.64 3563394.619 0
SO SRCPARAM 39997E2 .0037799 12.19 1273 20 20.806
** NMED source ID=39997EQPT4 Facility's ID=HTR-1
** Description=Heater Construction date=04-JUN-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E4 VOLUME 643202.176 3563401.64 0
SO SRCPARAM 39997E4 .0251996 4.88 .47 .93
** NMED source ID=39997EQPT12 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=15-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 39997E12 POINT 643195.39 3563405.192 0
SO SRCPARAM 39997E12 .0894586 3.96 1085.93 82.3 .13
** NMED source ID=39997EQPT13 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=15-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E13 POINT 643187.793 3563403.1 0
SO SRCPARAM 39997E13 .0982784 3.96 1003.71 82.91 .13
** NMED source ID=39997EQPT14 Facility's ID=HTR-2
** Description=Heater Construction date=15-JUN-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E14 VOLUME 643183.552 3563396.2 0
SO SRCPARAM 39997E14 .0251996 4.88 .47 .93
** NMED source ID=39997EQPT15 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=20-MAY-21
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39997E15 POINT 643185.204 3563388.046 0
SO SRCPARAM 39997E15 1.0614954 12.19 1273 20 3.604
**********END OF 39997: Galleon 21 Fed Com CTB
INFO**********************************
************************************************************
** 4.29km away. Facility ID=39074 Name=Kaiser - South Bell Lake Pad 0
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.248226, -103.533656, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=39074EQPT1 Facility's ID=HTR-1
** Description=0.75 MM BTU/hr Heater Treater Construction date=18-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39074E1 VOLUME 638136.129 3568893.595 0
SO SRCPARAM 39074E1 .0002898 4.57 .47 .93
** NMED source ID=39074EQPT6 Facility's ID=HTR-2
** Description=0.75 MM BTU/hr Heater Treater Construction date=02-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39074E6 VOLUME 638143.665 3568900.616 0
SO SRCPARAM 39074E6 .0002898 4.57 .47 .93
**********END OF 39074: Kaiser - South Bell Lake Pad 0
INFO**********************************
************************************************************
** 4.31km away. Facility ID=39857 Name=EOG - Frazier 27 State Com CTB
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** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1908, -103.5632, WGS84
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=39857EQPT4 Facility's ID=HT-1
** Description=Heater Treater Construction date=23-FEB-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39857E4 VOLUME 635437.833 3562489.629 0
SO SRCPARAM 39857E4 .0125998 5.18 .47 .93
**********END OF 39857: EOG - Frazier 27 State Com CTB
INFO*********************************
************************************************************
** 4.4km away. Facility ID=40031 Name=Achilles Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.204215, -103.570033, NAD83
** Total Sulfur Dioxide emissions=5.53tons/year
*****************Facility sources: ****************************
** NMED source ID=40031EQPT2 Facility's ID=RBL-1
** Description=Dehy Reboiler (1.5 MMBTU/hr) Construction date=24-JUN-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 40031E2 POINT 634773.89 3563968.242 0
SO SRCPARAM 40031E2 .0037799 3.05 588.71 3.99 .3
** NMED source ID=40031EQPT6 Facility's ID=ENG-3
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8171hr/yr, 22hr/day
SO LOCATION 40031E6 POINT 634781.426 3563975.263 0
SO SRCPARAM 40031E6 .0176397 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT7 Facility's ID=ENG-4
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2417hr/yr, 7hr/day
SO LOCATION 40031E7 POINT 634774.64 3563978.815 0
SO SRCPARAM 40031E7 .0176397 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT8 Facility's ID=ENG-5
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8354hr/yr, 23hr/day
SO LOCATION 40031E8 POINT 634767.043 3563976.723 0
SO SRCPARAM 40031E8 .0176397 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT9 Facility's ID=ENG-6
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** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6577hr/yr, 18hr/day
SO LOCATION 40031E9 POINT 634762.802 3563969.823 0
SO SRCPARAM 40031E9 .0176397 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT10 Facility's ID=ENG-7
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6665hr/yr, 18hr/day
SO LOCATION 40031E10 POINT 634764.454 3563961.669 0
SO SRCPARAM 40031E10 .0176397 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT11 Facility's ID=ENG-8
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8397hr/yr, 23hr/day
SO LOCATION 40031E11 POINT 634771.403 3563956.707 0
SO SRCPARAM 40031E11 .0176397 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT12 Facility's ID=ENG-9
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=24-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40031E12 POINT 634780.086 3563957.849 0
SO SRCPARAM 40031E12 .0176397 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT13 Facility's ID=ENG-10
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=01-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40031E13 POINT 634785.796 3563964.777 0
SO SRCPARAM 40031E13 .0176397 7.01 718.15 33.95 .46
** NMED source ID=40031EQPT14 Facility's ID=ENG-11
** Description=Caterpillar G3606 (1875 hp) 4SLB Construction date=01-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40031E14 POINT 634785.231 3563973.958 0
SO SRCPARAM 40031E14 .0176397 7.01 718.15 33.95 .46
**********END OF 40031: Achilles Compressor Station
INFO**********************************
************************************************************
** 4.43km away. Facility ID=34824 Name=Plantview Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=6036 NSR
** lat,long,datum=32.244011, -103.549392, Unknown
** Total Sulfur Dioxide emissions=4.56tons/year
****************Facility sources: ****************************
```

```
** NMED source ID=34824EQPT3 Facility's ID=Reboil-1
** Description=TEG Dehydrator Reboiler Construction date=03-JAN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8676hr/yr, 24hr/day
SO LOCATION 34824E3 POINT 636659.903 3568406.17 0
SO SRCPARAM 34824E3 .00252 3.66 477.59 3.11 .25
** NMED source ID=34824EQPT11 Facility's ID=Rbl-2
** Description=TEG Dehydrator Reboiler Construction date=03-JAN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8676hr/yr, 24hr/day
SO LOCATION 34824E11 POINT 636667.439 3568413.191 0
SO SRCPARAM 34824E11 .00126 3.66 477.59 1.27 .25
** NMED source ID=34824EQPT24 Facility's ID=TO-1
** Description=Thermal Oxidizer, Hero Flare, T3048, 3372 MScfd Construction
date=17-JUL-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34824E24 POINT 636660.653 3568416.743 0
SO SRCPARAM 34824E24 .1171781 7 730 28 .3
** NMED source ID=34824EQPT25 Facility's ID=Reboil-3
** Description=Amine Unit Reboiler 21 MMBtu/hr Construction date=03-JAN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34824E25 POINT 636653.056 3568414.651 0
SO SRCPARAM 34824E25 .0125998 9.14 588.71 .24 .71
**********END OF 34824: Plantview Compressor Station
INFO**********************************
************************************************************
** 4.45km away. Facility ID=35136 Name=Jolly Roger 16 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.224167, -103.479444, WGS84
** Total Sulfur Dioxide emissions=4.24tons/year
*****************Facility sources: ******************************
** NMED source ID=35136EQPT3 Facility's ID=FL-1
** Description=Flare 1  Construction date=06-NOV-20
** SCC=30600903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35136E3 POINT 643281.418 3566297.382 0
SO SRCPARAM 35136E3 .060479 12.19 1273 20 .61
**********END OF 35136: Jolly Roger 16 State CTB
INFO**********************************
************************************************************
** 4.51km away. Facility ID=40078 Name=Apollo D CTB
** Company ID=13683 Name=Tap Rock Operating LLC
```

```
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199522, -103.569978, NAD83
** Total Sulfur Dioxide emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=40078EQPT3 Facility's ID=GEN-1
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40078E3 POINT 634785.996 3563448.04 0
SO SRCPARAM 40078E3 .0002898 4.57 1005.37 178 .1
** NMED source ID=40078EQPT4 Facility's ID=GEN-2
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40078E4 POINT 634793.532 3563455.061 0
SO SRCPARAM 40078E4 .0002898 4.57 1005.37 178 .1
** NMED source ID=40078EQPT19 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=04-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40078E19 POINT 634786.746 3563458.613 0
SO SRCPARAM 40078E19 .00126 4.57 729.82 164.9 .2
**********END OF 40078: Apollo D CTB INFO************************************
************************************************************
** 4.56km away. Facility ID=38567 Name=Diamond 31 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.17, -103.516703, WGS84
** Total Sulfur Dioxide emissions=.18tons/year
*****************Facility sources: ******************************
** NMED source ID=38567EQPT20 Facility's ID=HTR-1
** Description=Heater Treater Construction date=16-JUL-18
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38567E20 VOLUME 639853.025 3560243.224 0
SO SRCPARAM 38567E20 .0002898 6.1 .47 .93
** NMED source ID=38567EQPT21 Facility's ID=FL-2
** Description=Emergency Flare Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38567E21 POINT 639860.561 3560250.245 0
SO SRCPARAM 38567E21 .0037799 18.29 1273 20 4.652
** NMED source ID=38567EQPT30 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=13-DEC-22
** SCC=31000205
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** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38567E30 POINT 639853.775 3560253.797 0
SO SRCPARAM 38567E30 .0017262 15.24 1273 20 .86
**********END OF 38567: Diamond 31 Fed Com CTB
INFO**********************************
************************************************************
** 4.6km away. Facility ID=39075 Name=South Bell Lake Pad 10
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.247581, -103.502208, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=39075EQPT12 Facility's ID=ENG-1
** Description=1680 HP Compressor Engine Construction date=02-FEB-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39075E12 POINT 641099.957 3568862.991 0
SO SRCPARAM 39075E12 .00126 5.49 900.93 223.51 .15
**********END OF 39075: South Bell Lake Pad 10
INFO**********************************
************************************************************
** 4.67km away. Facility ID=35517 Name=Frazier 34 Hearns 27
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.183547, -103.561831, WGS84
** Total Sulfur Dioxide emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=35517EQPT19 Facility's ID=FHTR-1
** Description=Heater Treater  0.5 MMBtu/hr Construction date=28-OCT-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8771hr/yr, 24hr/day
SO LOCATION 35517E19 VOLUME 635577.645 3561687.28 0
SO SRCPARAM 35517E19 .0002898 4.57 .47 .93
** NMED source ID=35517EQPT20 Facility's ID=FHTR-2
** Description=Heater Treater  0.5 MMBtu/hr Construction date=28-OCT-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8687hr/yr, 24hr/day
SO LOCATION 35517E20 VOLUME 635585.181 3561694.301 0
SO SRCPARAM 35517E20 .0002898 4.57 .47 .93
** NMED source ID=35517EQPT21 Facility's ID=FHTR-3
** Description=Heater Treater  0.5 MMBtu/hr Construction date=28-OCT-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8720hr/yr, 24hr/day
SO LOCATION 35517E21 VOLUME 635578.395 3561697.853 0
SO SRCPARAM 35517E21 .0002898 4.57 .47 .93
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** NMED source ID=35517EQPT22 Facility's ID=HHTR-1
** Description=Heater Treater  0.5 MMBtu/hr Construction date=28-OCT-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35517E22 VOLUME 635570.798 3561695.761 0
SO SRCPARAM 35517E22 .0002898 4.57 .47 .93
** NMED source ID=35517EQPT23 Facility's ID=HHTR-2
** Description=Heater Treater  0.5 MMBtu/hr Construction date=28-OCT-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35517E23 VOLUME 635566.557 3561688.861 0
SO SRCPARAM 35517E23 .0002898 4.57 .47 .93
** NMED source ID=35517EQPT25 Facility's ID=FFL-1
** Description=Process Flare, 5 MMscfd Construction date=28-OCT-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35517E25 POINT 635568.209 3561680.707 0
SO SRCPARAM 35517E25 .00126 12.19 1273 20 .61
** NMED source ID=35517EQPT26 Facility's ID=HFL-1
** Description=Process Flare, 5 MMscfd Construction date=28-OCT-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35517E26 POINT 635575.158 3561675.745 0
SO SRCPARAM 35517E26 .00126 12.19 1273 20 .61
**********END OF 35517: Frazier 34 Hearns 27
INFO**********************************
************************************************************
** 4.73km away. Facility ID=39577 Name=The Contest CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.229897, -103.479136, NAD83
** Total Sulfur Dioxide emissions=9.62tons/year
*****************Facility sources: ****************************
** NMED source ID=39577EQPT11 Facility's ID=FL-1a,b,c
** Description=Flare, Low Pressure, 2094 scfm Construction date=25-JUN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2928hr/yr, 24hr/day
SO LOCATION 39577E11 POINT 643301.449 3566933.04 0
SO SRCPARAM 39577E11 .0201597 12.19 1273 20 20.806
** NMED source ID=39577EQPT12 Facility's ID=FL-1d
** Description=Flare, High Pressure, 2094 scfm Construction date=25-JUN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2928hr/yr, 24hr/day
SO LOCATION 39577E12 POINT 643308.985 3566940.061 0
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SO SRCPARAM 39577E12 .8567864 12.19 1273 20 13.484
**********END OF 39577: The Contest CTB INFO**********************************
************************************************************
** 4.73km away. Facility ID=38830 Name=Zeus CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.225585, -103.570904, NAD83
** Total Sulfur Dioxide emissions=.31tons/year
*****************Facility sources: ******************************
** NMED source ID=38830EQPT8 Facility's ID=FL-1 LP
** Description=Low Pressure Flare Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38830E8 POINT 634660.284 3566336.254 0
SO SRCPARAM 38830E8 .00252 12.19 1273 20 2.632
** NMED source ID=38830EQPT14 Facility's ID=FL-1 LP SSM
** Description=Low Pressure Flare - VRU downtime Construction date=17-MAR-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E14 POINT 634667.82 3566343.275 0
SO SRCPARAM 38830E14 .0028728 12.19 1273 20 3.604
** NMED source ID=38830EQPT51 Facility's ID=FL-1 HP SSM
** Description=High Pressure Flare 1, intermittent; SSM Construction date=17-MAR-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38830E51 POINT 634661.034 3566346.827 0
SO SRCPARAM 38830E51 .0037421 12.19 1273 20 4.652
**********END OF 38830: Zeus CTB INFO**********************************
************************************************************
** 4.86km away. Facility ID=37770 Name=EOG - Hearns Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.178322, -103.558642, Unknown
** Total Sulfur Dioxide emissions=1.68tons/year
*****************Facility sources: ******************************
** NMED source ID=37770EQPT9 Facility's ID=ENG-1
** Description=Compressor Engine, G3606TALE, 1875 HP Construction date=02-FEB-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37770E9 POINT 635886.065 3561112.057 0
SO SRCPARAM 37770E9 .0092105 8.53 719.26 26.46 .52
** NMED source ID=37770EQPT10 Facility's ID=ENG-2
** Description=Compressor Engine, G3606TALE, 1875 HP Construction date=02-FEB-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
```

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SO LOCATION 37770E10 POINT 635893.601 3561119.078 0
SO SRCPARAM 37770E10 .0077615 8.53 719.26 26.46 .52
** NMED source ID=37770EQPT11 Facility's ID=ENG-3
** Description=Compressor Engine, G3606TALE, 1875 HP Construction date=02-FEB-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37770E11 POINT 635886.815 3561122.63 0
SO SRCPARAM 37770E11 .0077615 8.53 719.26 26.46 .52
** NMED source ID=37770EQPT12 Facility's ID=ENG-4
** Description=Compressor Engine, G3606TALE, 1875 HP Construction date=02-FEB-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37770E12 POINT 635879.218 3561120.538 0
SO SRCPARAM 37770E12 .0077615 8.53 719.26 26.46 .52
** NMED source ID=37770EQPT16 Facility's ID=HTR-1
** Description=Heater Treater, 0.5 MMBtu/hr Construction date=02-FEB-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37770E16 VOLUME 635874.977 3561113.638 0
SO SRCPARAM 37770E16 .0002898 5.18 .47 .93
** NMED source ID=37770EQPT18 Facility's ID=ENG-5
** Description=Compressor Engine, G3606TALE, 1875 HP Construction date=15-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37770E18 POINT 635876.629 3561105.484 0
SO SRCPARAM 37770E18 .0077615 8.53 719.26 26.46 .52
** NMED source ID=37770EQPT19 Facility's ID=ENG-6
** Description=Compressor Engine, G3606TALE, 1875 HP Construction date=15-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37770E19 POINT 635883.578 3561100.522 0
SO SRCPARAM 37770E19 .0077615 8.53 719.26 26.46 .52
**********END OF 37770: EOG - Hearns Localized Gas Lift Station
INFO************************************
************************************************************
** 4.9km away. Facility ID=40077 Name=Tap Rock - Apollo C CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19954, -103.574285, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=40077EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=22-JUL-21
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40077E1 POINT 634379.979 3563444.643 0
SO SRCPARAM 40077E1 .00126 4.57 728.71 111.86 .2
** NMED source ID=40077EQPT4 Facility's ID=GEN-1
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40077E4 POINT 634387.515 3563451.664 0
SO SRCPARAM 40077E4 .0002898 4.57 1005.37 178 .1
** NMED source ID=40077EQPT5 Facility's ID=GEN-2
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40077E5 POINT 634380.729 3563455.216 0
SO SRCPARAM 40077E5 .0002898 4.57 1005.37 178 .1
**********END OF 40077: Tap Rock - Apollo C CTB
INFO**********************************
************************************************************
** 4.92km away. Facility ID=40416 Name=Hawk 35 Fed South CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1711, -103.5474, WGS84
** Total Sulfur Dioxide emissions=.31tons/year
*****************Facility sources: ******************************
** NMED source ID=40416EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=26-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40416E2 VOLUME 636956.831 3560325.677 0
SO SRCPARAM 40416E2 .0002898 4.88 .47 .93
** NMED source ID=40416EQPT9 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=22-APR-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40416E9 POINT 636964.367 3560332.698 0
SO SRCPARAM 40416E9 .0083411 12.19 1273 20 5.505
** NMED source ID=40416EQPT10 Facility's ID=HTR-2
** Description=Heater Treater Construction date=03-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40416E10 VOLUME 636957.581 3560336.25 0
SO SRCPARAM 40416E10 .0002898 4.88 .47 .93
**********END OF 40416: Hawk 35 Fed South CTB
INFO**********************************
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** 4.92km away. Facility ID=38546 Name=Pirate State No1H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.211592, -103.471686, WGS84
** Total Sulfur Dioxide emissions=3.92tons/year
*****************Facility sources: ****************************
** NMED source ID=38546EQPT8 Facility's ID=ECD-1
** Description=20 Mscfd Aeron AB 20 Combustor Construction date=16-DEC-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7176hr/yr, 24hr/day
SO LOCATION 38546E8 POINT 644032.357 3564913.65 0
SO SRCPARAM 38546E8 .0062999 3.66 1273 20 20.806
** NMED source ID=38546EQPT9 Facility's ID=FL-1
** Description=1.5 MMscfd Aeron HP 1500 Flare Construction date=16-DEC-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7176hr/yr, 24hr/day
SO LOCATION 38546E9 POINT 644039.893 3564920.671 0
SO SRCPARAM 38546E9 .1070101 7.28 1273 20 20.806
**********END OF 38546: Pirate State No1H INFO************************************
************************************************************
** 4.92km away. Facility ID=39081 Name=Dillon 31 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.169, -103.506111, WGS84
** Total Sulfur Dioxide emissions=.22tons/year
*****************Facility sources: ****************************
** NMED source ID=39081CONT1 Facility's ID=FL-2
** Description=Emergency Flare Construction date=08-AUG-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39081C1 POINT 640853.332 3560146.181 0
SO SRCPARAM 39081C1 .00126 18.29 1273 20 2.632
** NMED source ID=39081EQPT9 Facility's ID=HTR-1
** Description=Heater Treater Construction date=08-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39081E9 POINT 640860.868 3560153.202 0
SO SRCPARAM 39081E9 .0002898 6.1 588.71 .19 1.83
** NMED source ID=39081EQPT19 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=09-NOV-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39081E19 POINT 640854.082 3560156.754 0
SO SRCPARAM 39081E19 .0048887 12.19 1273 20 .61
**********END OF 39081: Dillon 31 Fed Com CTB
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INFO**********************************
************************************************************
** 5.06km away. Facility ID=38644 Name=Pirate State No301H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.211333, -103.470208, WGS84
** Total Sulfur Dioxide emissions=1.48tons/year
*****************Facility sources: ******************************
** NMED source ID=38644EQPT7 Facility's ID=FL-1
** Description=Flare Construction date=11-SEP-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38644E7 POINT 644172.071 3564886.918 0
SO SRCPARAM 38644E7 .0453593 15.24 1273 20 3.604
**********END OF 38644: Pirate State No301H
INFO**********************************
************************************************************
** 5.1km away. Facility ID=40536 Name=Sea Snake 35 Wellpad 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9676 NOI
** lat,long,datum=32.254583, -103.538913, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=40536EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40536E1 POINT 637631.257 3569591.595 0
SO SRCPARAM 40536E1 .0002898 4.39 790.93 14.04 .26
** NMED source ID=40536EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40536E2 POINT 637638.793 3569598.616 0
SO SRCPARAM 40536E2 .0002898 4.39 790.93 14.04 .26
**********END OF 40536: Sea Snake 35 Wellpad 6
INFO**********************************
************************************************************
** 5.15km away. Facility ID=38141 Name=Pirate State No 101H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.211253, -103.469167, WGS84
** Total Sulfur Dioxide emissions=19.6tons/year
*****************Facility sources: ******************************
** NMED source ID=38141EQPT6 Facility's ID=ECD
** Description=Enclosed Combustion Device: 14.87 Mscf/h Construction date=04-DEC-20
** SCC=31000205
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38141E6 POINT 644270.314 3564879.446 0
SO SRCPARAM 38141E6 .0086309 6.1 1273 20 .84
** NMED source ID=38141EQPT7 Facility's ID=Flare
** Description=high pressure SSM flare for separators: 8.33 Mscf/h Construction
date=06-DEC-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7176hr/yr, 24hr/day
SO LOCATION 38141E7 POINT 644277.85 3564886.467 0
SO SRCPARAM 38141E7 .5551976 12.19 1273 20 2.632
**********END OF 38141: Pirate State No 101H
INFO**********************************
************************************************************
** 5.22km away. Facility ID=38448 Name=Stonewall 28 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.192528, -103.472713, WGS84
** Total Sulfur Dioxide emissions=34.35tons/year
*****************Facility sources: ******************************
** NMED source ID=38448EQPT2 Facility's ID=FL-1
** Description=Flare Construction date=13-JUN-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38448E2 POINT 643965.59 3562798.778 0
SO SRCPARAM 38448E2 .0037799 15.24 1273 20 .86
** NMED source ID=38448EQPT16 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8746hr/yr, 24hr/day
SO LOCATION 38448E16 VOLUME 643973.126 3562805.799 0
SO SRCPARAM 38448E16 .0251996 4.88 .47 .93
** NMED source ID=38448EQPT17 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=06-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E17 POINT 643966.34 3562809.351 0
SO SRCPARAM 38448E17 .0881986 3.96 803.71 59.13 .13
** NMED source ID=38448EQPT18 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=06-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E18 POINT 643958.743 3562807.259 0
SO SRCPARAM 38448E18 .0982784 3.96 1003.71 82.91 .13
** NMED source ID=38448EQPT19 Facility's ID=FL-1HP
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** Description=High Pressure Tip Construction date=06-JUL-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E19 POINT 643954.502 3562800.359 0
SO SRCPARAM 38448E19 .4472929 15.24 1273 20 .86
** NMED source ID=38448EQPT20 Facility's ID=HTR-2
** Description=Heater Treater Construction date=06-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E20 VOLUME 643956.154 3562792.205 0
SO SRCPARAM 38448E20 .0251996 4.88 .47 .93
** NMED source ID=38448EQPT21 Facility's ID=HTR-3
** Description=Heater Treater Construction date=06-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E21 VOLUME 643963.103 3562787.243 0
SO SRCPARAM 38448E21 .0251996 4.88 .47 .93
** NMED source ID=38448EQPT28 Facility's ID=FL-1 SSM
** Description=Flare Construction date=29-JAN-19
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38448E28 POINT 643971.786 3562788.385 0
SO SRCPARAM 38448E28 .2767294 15.24 1273 20 .86
**********END OF 38448: Stonewall 28 Fed Com CTB
INFO*************************************
************************************************************
** 5.24km away. Facility ID=39956 Name=Bald Eagle LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1839, -103.4781, WGS84
** Total Sulfur Dioxide emissions=5.07tons/year
*****************Facility sources: ******************************
** NMED source ID=39956EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine CAT G3606 Construction date=04-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E2 POINT 643471.284 3561835.053 0
SO SRCPARAM 39956E2 .00252 8.53 719.26 27.49 .51
** NMED source ID=39956EQPT8 Facility's ID=FL-1
** Description=Flare Construction date=04-MAY-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E8 POINT 643478.82 3561842.074 0
SO SRCPARAM 39956E8 .0050399 12.19 1273 20 20.806
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** NMED source ID=39956EQPT9 Facility's ID=HTR-1
** Description=Seperator Heater Construction date=04-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E9 POINT 643472.034 3561845.626 0
SO SRCPARAM 39956E9 .0002898 6.1 588.71 .11 1.83
** NMED source ID=39956EQPT11 Facility's ID=RBL-1
** Description=Dehy Reboiler Construction date=04-MAY-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E11 POINT 643464.437 3561843.534 0
SO SRCPARAM 39956E11 .0002898 2.44 588.71 .22 1.07
** NMED source ID=39956EQPT16 Facility's ID=ENG-2
** Description=Compressor Engine CAT G3608 Construction date=05-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E16 POINT 643460.196 3561836.634 0
SO SRCPARAM 39956E16 .00252 8.84 688.15 25.09 .61
** NMED source ID=39956EQPT17 Facility's ID=ENG-3
** Description=Compressor Engine CAT G3608 Construction date=05-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E17 POINT 643461.848 3561828.48 0
SO SRCPARAM 39956E17 .00252 8.84 688.15 25.09 .61
** NMED source ID=39956EQPT18 Facility's ID=ENG-4
** Description=Compressor Engine CAT G3608 Construction date=05-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E18 POINT 643468.797 3561823.518 0
SO SRCPARAM 39956E18 .00252 8.84 688.15 25.09 .61
** NMED source ID=39956EQPT19 Facility's ID=ENG-5
** Description=Compressor Engine CAT G3608 Construction date=05-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E19 POINT 643477.48 3561824.66 0
SO SRCPARAM 39956E19 .00252 8.84 688.15 25.09 .61
** NMED source ID=39956EQPT20 Facility's ID=ENG-6
** Description=Compressor Engine CAT G3608 Construction date=05-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39956E20 POINT 643483.19 3561831.588 0
SO SRCPARAM 39956E20 .00252 8.84 688.15 25.09 .61
**********END OF 39956: Bald Eagle LGL Station
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INFO**********************************
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** 5.25km away. Facility ID=38489 Name=Pirate State Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.203228, -103.468788, NAD83
** Total Sulfur Dioxide emissions=8.49tons/year
*****************Facility sources: ******************************
** NMED source ID=38489EQPT1 Facility's ID=1
** Description=Compressor Engine CAT G3516 1380 hp w/catalyst Construction
date=29-JUN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7988hr/yr, 22hr/day
SO LOCATION 38489E1 POINT 644318.711 3563990.277 0
SO SRCPARAM 38489E1 .0176397 7.37 725.93 29.93 .41
** NMED source ID=38489EQPT2 Facility's ID=2
** Description=Compressor Engine CAT G3516 1380 hp w/catalyst Construction
date=29-JUN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38489E2 POINT 644326.247 3563997.298 0
SO SRCPARAM 38489E2 .0176397 7.37 725.93 29.93 .41
** NMED source ID=38489EQPT6 Facility's ID=6
** Description=Dehydrator Reboiler 1, 0.75 MMBtu/hr Construction date=29-JUN-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8219hr/yr, 23hr/day
SO LOCATION 38489E6 POINT 644319.461 3564000.85 0
SO SRCPARAM 38489E6 .0314995 3.05 588.71 1.34 .3
** NMED source ID=38489EQPT7 Facility's ID=7
** Description=Glycol Reboiler Construction date=29-JUN-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8640hr/yr, 24hr/day
SO LOCATION 38489E7 POINT 644311.864 3563998.758 0
SO SRCPARAM 38489E7 .00126 3.05 588.71 1.34 .3
** NMED source ID=38489EQPT11 Facility's ID=14
** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8298hr/yr, 23hr/day
SO LOCATION 38489E11 POINT 644307.623 3563991.858 0
SO SRCPARAM 38489E11 .0226796 7.01 707.59 33.83 .46
** NMED source ID=38489EQPT12 Facility's ID=15
** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8371hr/yr, 23hr/day
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SO LOCATION 38489E12 POINT 644309.275 3563983.704 0
SO SRCPARAM 38489E12 .0226796 7.01 707.59 33.83 .46
** NMED source ID=38489EQPT13 Facility's ID=16
** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7262hr/yr, 20hr/day
SO LOCATION 38489E13 POINT 644316.224 3563978.742 0
SO SRCPARAM 38489E13 .0226796 7.01 707.59 33.83 .46
** NMED source ID=38489EQPT19 Facility's ID=19
** Description=Glycol Reboiler Construction date=23-MAY-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8640hr/yr, 24hr/day
SO LOCATION 38489E19 POINT 644324.907 3563979.884 0
SO SRCPARAM 38489E19 .00126 3.05 588.71 1.98 .3
** NMED source ID=38489EQPT20 Facility's ID=22
** Description=Combustor Construction date=26-DEC-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38489E20 POINT 644330.617 3563986.812 0
SO SRCPARAM 38489E20 .0869386 7.62 1273 20 20.806
** NMED source ID=38489EQPT21 Facility's ID=23
** Description=Compressor Engine CAT G3606 1875 hp Construction date=23-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8307hr/yr, 23hr/day
SO LOCATION 38489E21 POINT 644330.052 3563995.993 0
SO SRCPARAM 38489E21 .0226796 7.01 707.59 33.83 .46
**********END OF 38489: Pirate State Compressor Station
INFO**********************************
************************************************************
** 5.26km away. Facility ID=40537 Name=Sea Snake 35 Wellpad 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9677 NOI
** lat,long,datum=32.254438, -103.544605, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
****************Facility sources: ****************************
** NMED source ID=40537EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40537E1 POINT 637095.25 3569568.235 0
SO SRCPARAM 40537E1 .0002898 4.39 790.93 14.04 .26
** NMED source ID=40537EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40537E2 POINT 637102.786 3569575.256 0
SO SRCPARAM 40537E2 .0002898 4.39 790.93 14.04 .26
**********END OF 40537: Sea Snake 35 Wellpad 5
INFO**********************************
************************************************************
** 5.28km away. Facility ID=5694 Name=Keystone 6 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.16445, -103.510687, WGS84
** Total Sulfur Dioxide emissions=.28tons/year
*****************Facility sources: ******************************
** NMED source ID=5694EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5694E1 POINT 640428.817 3559635.778 0
SO SRCPARAM 5694E1 .0005796 3.96 803.71 58.52 .13
** NMED source ID=5694EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5694E2 POINT 640436.353 3559642.799 0
SO SRCPARAM 5694E2 .00126 3.96 1003.71 82.3 .13
** NMED source ID=5694EQPT4 Facility's ID=HTR-1
** Description=Heater Treater Construction date=12-JUL-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5694E4 VOLUME 640429.567 3559646.351 0
SO SRCPARAM 5694E4 .0002898 7.32 .47 .93
** NMED source ID=5694EQPT5 Facility's ID=HTR-2
** Description=Heater Treater Construction date=12-JUL-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5694E5 VOLUME 640421.97 3559644.259 0
SO SRCPARAM 5694E5 .0002898 4.88 .47 .93
** NMED source ID=5694EQPT11 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=12-JUL-23
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5694E11 POINT 640417.729 3559637.359 0
SO SRCPARAM 5694E11 .0063251 12.19 1273 20 4.652
**********END OF 5694: Keystone 6 Fed Com CTB
INFO**********************************
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** 5.29km away. Facility ID=40081 Name=Apollo B CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199573, -103.578517, NAD83
** Total Sulfur Dioxide emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=40081EQPT4 Facility's ID=GEN-1
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40081E4 POINT 633981.01 3563443.019 0
SO SRCPARAM 40081E4 .0002898 4.57 1005.37 178 .1
** NMED source ID=40081EQPT5 Facility's ID=GEN-2
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40081E5 POINT 633988.546 3563450.04 0
SO SRCPARAM 40081E5 .0002898 4.57 1005.37 178 .1
** NMED source ID=40081EQPT18 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=01-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40081E18 POINT 633981.76 3563453.592 0
SO SRCPARAM 40081E18 .00126 4.57 729.82 164.9 .2
**********END OF 40081: Apollo B CTB INFO************************************
************************************************************
** 5.3km away. Facility ID=39360 Name=Poseidon A CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.227263, -103.576644, NAD83
** Total Sulfur Dioxide emissions=.32tons/year
*****************Facility sources: ******************************
** NMED source ID=39360EQPT13 Facility's ID=FL-1
** Description=Dual Tip Flare - 10,000 & 3,000 Mscf/d Construction date=11-FEB-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39360E13 POINT 634116.904 3566515.098 0
SO SRCPARAM 39360E13 .0163797 12.19 1273 20 4.652
**********END OF 39360: Poseidon A CTB INFO************************************
************************************************************
** 5.33km away. Facility ID=39975 Name=Raider Fed 502/701H Central Tank Battery
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1966, -103.469734, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
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** NMED source ID=39975EQPT10 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=01-AUG-21
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39975E10 POINT 644240.001 3563254.206 0
SO SRCPARAM 39975E10 .0002898 4.57 812.59 42.28 .15
**********END OF 39975: Raider Fed 502/701H Central Tank Battery
INFO**********************************
************************************************************
** 5.34km away. Facility ID=38358 Name=Convoy Central CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1921, -103.5762, WGS84
** Total Sulfur Dioxide emissions=.26tons/year
*****************Facility sources: ******************************
** NMED source ID=38358EQPT16 Facility's ID=FL-2
** Description=Emergency Flare Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38358E16 POINT 634217.924 3562624.467 0
SO SRCPARAM 38358E16 .00126 18.29 1273 20 2.632
** NMED source ID=38358EQPT20 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=10-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38358E20 POINT 634211.138 3562628.019 0
SO SRCPARAM 38358E20 .00126 3.96 1085.93 82.3 .13
** NMED source ID=38358EQPT39 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=10-MAY-23
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38358E39 POINT 634203.541 3562625.927 0
SO SRCPARAM 38358E39 .0060353 18.29 1273 20 3.604
**********END OF 38358: Convoy Central CTB INFO**********************************
************************************************************
** 5.38km away. Facility ID=40752 Name=Lacey Swiss 1 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1624, -103.5283, WGS84
** Total Sulfur Dioxide emissions=.23tons/year
*****************Facility sources: ******************************
** NMED source ID=40752EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=26-OCT-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40752E2 VOLUME 638771.018 3559385.66 0
SO SRCPARAM 40752E2 .0002898 6.1 .47 .93
** NMED source ID=40752EQPT8 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=26-OCT-22
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40752E8 POINT 638778.554 3559392.681 0
SO SRCPARAM 40752E8 .0063251 12.19 1273 20 4.652
**********END OF 40752: Lacey Swiss 1 Fed Com CTB
INFO**********************************
************************************************************
** 5.39km away. Facility ID=40213 Name=Kaiser - South Bell Lake Pad 14
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.247938, -103.487496, NAD83
** Total Sulfur Dioxide emissions=.1tons/year
*****************Facility sources: ****************************
** NMED source ID=40213EQPT2 Facility's ID=HT-1
** Description=Heater Treater` Construction date=04-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40213E2 POINT 642485.487 3568922.003 0
SO SRCPARAM 40213E2 .0014364 4.57 369.82 7.99 .09
** NMED source ID=40213EQPT3 Facility's ID=HT-2
** Description=Heater Treater` Construction date=04-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40213E3 POINT 642493.023 3568929.024 0
SO SRCPARAM 40213E3 .0014364 4.57 369.82 7.99 .09
**********END OF 40213: Kaiser - South Bell Lake Pad 14
INFO**********************************
************************************************************
** 5.41km away. Facility ID=40324 Name=Sea Snake 35 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.256561, -103.542309, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=40324EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=16-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40324E2 VOLUME 637308.353 3569806.531 0
SO SRCPARAM 40324E2 .0005796 9.14 .47 .93
**********END OF 40324: Sea Snake 35 CTB 3 INFO**************************************
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** 5.42km away. Facility ID=38349 Name=Cobalt 32 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.16945, -103.49298, WGS84
** Total Sulfur Dioxide emissions=.31tons/year
*****************Facility sources: ****************************
** NMED source ID=38349EQPT5 Facility's ID=FL-2
** Description=Emergency Flare Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38349E5 POINT 642090.831 3560213.337 0
SO SRCPARAM 38349E5 .00126 18.29 1273 20 2.632
** NMED source ID=38349EQPT6 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=28-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E6 POINT 642098.367 3560220.358 0
SO SRCPARAM 38349E6 .0005796 3.96 803.71 59.13 .13
** NMED source ID=38349EQPT7 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=28-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E7 POINT 642091.581 3560223.91 0
SO SRCPARAM 38349E7 .00126 3.96 1003.71 82.6 .13
** NMED source ID=38349EQPT18 Facility's ID=HTR-1
** Description=Heater Treater Construction date=28-AUG-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E18 VOLUME 642083.984 3560221.818 0
SO SRCPARAM 38349E18 .0002898 7.32 .47 .93
** NMED source ID=38349EQPT19 Facility's ID=HTR-2
** Description=Heater Treater Construction date=28-AUG-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E19 VOLUME 642079.743 3560214.918 0
SO SRCPARAM 38349E19 .0002898 4.88 .47 .93
** NMED source ID=38349EQPT20 Facility's ID=HTR-3
** Description=Heater Treater Construction date=28-AUG-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E20 VOLUME 642081.395 3560206.764 0
SO SRCPARAM 38349E20 .0002898 4.88 .47 .93
** NMED source ID=38349EQPT21 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=01-MAR-18
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** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38349E21 POINT 642088.344 3560201.802 0
SO SRCPARAM 38349E21 .0060353 15.24 1273 20 .86
**********END OF 38349: Cobalt 32 State CTB
INFO**********************************
************************************************************
** 5.46km away. Facility ID=39031 Name=Pirate State CTB1
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223875, -103.468111, WGS84
** Total Sulfur Dioxide emissions=19.55tons/year
*****************Facility sources: ****************************
** NMED source ID=39031EQPT14 Facility's ID=ENG-1
** Description=Caterpillar CG137-8 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 39031E14 POINT 644349.894 3566280.184 0
SO SRCPARAM 39031E14 .0002898 3.66 807.59 15.24 .25
** NMED source ID=39031EQPT16 Facility's ID=Flare
** Description=FL-1, Dual Tip Flare, 5.2 MMSCFD Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8688hr/yr, 24hr/day
SO LOCATION 39031E16 POINT 644357.43 3566287.205 0
SO SRCPARAM 39031E16 .0277196 10.67 1273 20 20.806
** NMED source ID=39031EQPT18 Facility's ID=FL-1-SSM
** Description=FL-1, Dual Tip Flare, 5.2 MMSCFD Construction date=16-JUL-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39031E18 POINT 644350.644 3566290.757 0
SO SRCPARAM 39031E18 .5344835 15.24 1273 20 5.505
**********END OF 39031: Pirate State CTB1 INFO**********************************
************************************************************
** 5.5km away. Facility ID=39420 Name=EOG - Stonewall Northeast 28 Fe Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.195, -103.4685, WGS84
** Total Sulfur Dioxide emissions=1.1tons/year
*****************Facility sources: ****************************
** NMED source ID=39420EQPT8 Facility's ID=Fl-1
** Description=5.23 MMscfd Process Flare Construction date=18-MAR-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39420E8 POINT 644358.854 3563078.481 0
SO SRCPARAM 39420E8 .0163797 12.19 1273 20 2.632
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** NMED source ID=39420EQPT9 Facility's ID=Fl-2
** Description=5.23 MMscfd Process Flare Construction date=18-MAR-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39420E9 POINT 644366.39 3563085.502 0
SO SRCPARAM 39420E9 .0163797 12.19 1273 20 2.632
**********END OF 39420: EOG - Stonewall Northeast 28 Fe Com CTB
INFO**********************************
************************************************************
** 5.56km away. Facility ID=38706 Name=Raider Federal Com No101H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.196067, -103.467442, WGS84
** Total Sulfur Dioxide emissions=26.26tons/year
*****************Facility sources: ****************************
** NMED source ID=38706EQPT3 Facility's ID=FL-1
** Description=4.5 MMscf/d Flare Process/Stranded Gas Construction date=28-NOV-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8088hr/yr, 24hr/day
SO LOCATION 38706E3 POINT 644456.905 3563198.194 0
SO SRCPARAM 38706E3 .0075599 14.02 1273 20 20.806
**********END OF 38706: Raider Federal Com No101H
INFO**********************************
************************************************************
** 5.57km away. Facility ID=39958 Name=Raider Fed Com CTB No 2
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.197222, -103.466944, WGS84
** Total Sulfur Dioxide emissions=4.1tons/year
*****************Facility sources: ****************************
** NMED source ID=39958EQPT17 Facility's ID=FL-1
** Description=Flare - Stranded Gas & VRU downtime Construction date=26-JUL-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39958E17 POINT 644502.025 3563326.91 0
SO SRCPARAM 39958E17 .1179467 12.19 1273 20 5.885
**********END OF 39958: Raider Fed Com CTB No 2
INFO**********************************
************************************************************
** 5.58km away. Facility ID=40214 Name=Kaiser-Francis - South Bell Lake Pad 16
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.247871, -103.484399, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=40214EQPT2 Facility's ID=HT-1
** Description=Heater Treater Construction date=08-NOV-21
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40214E2 POINT 642777.375 3568918.69 0
SO SRCPARAM 40214E2 .0002898 4.57 369.82 7.99 .09
** NMED source ID=40214EQPT3 Facility's ID=HT-2
** Description=Heater Treater Construction date=08-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40214E3 POINT 642784.911 3568925.711 0
SO SRCPARAM 40214E3 .0002898 4.57 369.82 7.99 .09
**********END OF 40214: Kaiser-Francis - South Bell Lake Pad 16
INFO**********************************
************************************************************
** 5.62km away. Facility ID=38295 Name=Romeo Federal Com No1H and No701H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.209192, -103.464233, WGS84
** Total Sulfur Dioxide emissions=.36tons/year
****************Facility sources: ****************************
** NMED source ID=38295EQPT1 Facility's ID=FL-1
** Description=Utility Flare  Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7128hr/yr, 24hr/day
SO LOCATION 38295E1 POINT 644738.623 3564657.592 0
SO SRCPARAM 38295E1 .0100798 7.32 1273 20 2.632
** NMED source ID=38295EQPT2 Facility's ID=ECD-1
** Description=Enclosed Combustion Device Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7128hr/yr, 24hr/day
SO LOCATION 38295E2 POINT 644746.159 3564664.613 0
SO SRCPARAM 38295E2 .00126 4.88 1273 20 .84
** NMED source ID=38295EQPT11 Facility's ID=ENG-1
** Description=CAT CG137-8, 400 hp Construction date=12-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38295E11 POINT 644739.373 3564668.165 0
SO SRCPARAM 38295E11 .0002898 3.66 802.59 15.1 .25
**********END OF 38295: Romeo Federal Com No1H and No701H
INFO**********************************
************************************************************
** 5.68km away. Facility ID=40380 Name=Helios Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.2043, -103.5837, WGS84
** Total Sulfur Dioxide emissions=3.55tons/year
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*****************Facility sources: ****************************
** NMED source ID=40380EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=02-MAR-09
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E2 POINT 633485.541 3563960.609 0
SO SRCPARAM 40380E2 .0163797 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=16-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E3 POINT 633493.077 3563967.63 0
SO SRCPARAM 40380E3 .0163797 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=16-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E4 POINT 633486.291 3563971.182 0
SO SRCPARAM 40380E4 .0163797 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=16-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E5 POINT 633478.694 3563969.09 0
SO SRCPARAM 40380E5 .0163797 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=16-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E6 POINT 633474.453 3563962.19 0
SO SRCPARAM 40380E6 .0163797 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=16-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40380E7 POINT 633476.105 3563954.036 0
SO SRCPARAM 40380E7 .0163797 7.01 725.93 35.14 .46
** NMED source ID=40380EQPT9 Facility's ID=RBL-1
** Description=Dehydrator Reboiler Construction date=16-OCT-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5700hr/yr, 16hr/day
SO LOCATION 40380E9 POINT 633483.054 3563949.074 0
SO SRCPARAM 40380E9 .0037799 3.05 588.71 3.99 .3
```

**********END OF 40380: Helios Compressor Station
INFO**********
**********
** 5.73km away. Facility ID=39005 Name=Durango 2 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1616, -103.5427, WGS84
** Total Sulfur Dioxide emissions=.26tons/year
**********Facility sources: **********
** NMED source ID=39005EQPT6 Facility's ID=FL-2
** Description=Emerg Flare Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39005E6 POINT 637414.271 3559278.491 0
SO SRCPARAM 39005E6 .00252 18.29 1273 20 3.604
** NMED source ID=39005EQPT7 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39005E7 VOLUME 637421.807 3559285.512 0
SO SRCPARAM 39005E7 .0002898 4.88 .47 .93
** NMED source ID=39005EQPT8 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8679hr/yr, 24hr/day
SO LOCATION 39005E8 VOLUME 637415.021 3559289.064 0
SO SRCPARAM 39005E8 .0002898 7.32 .47 .93
** NMED source ID=39005EQPT17 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=26-APR-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39005E17 POINT 637407.424 3559286.972 0
SO SRCPARAM 39005E17 .0031625 15.24 1273 20 .86
** NMED source ID=39005EQPT18 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=17-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39005E18 POINT 637403.183 3559280.072 0
SO SRCPARAM 39005E18 .0005796 3.96 803.71 59.13 .13
** NMED source ID=39005EQPT19 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=17-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39005E19 POINT 637404.835 3559271.918 0

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SO SRCPARAM 39005E19 .00126 3.96 1003.71 82.6 .13
** NMED source ID=39005EQPT20 Facility's ID=HTR-3
** Description=Heater Treater Construction date=17-JUL-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39005E20 VOLUME 637411.784 3559266.956 0
SO SRCPARAM 39005E20 .0002898 4.88 .47 .93
**********END OF 39005: Durango 2 State CTB
INFO**********************************
************************************************************
** 5.73km away. Facility ID=38561 Name=Flowmaster 3H 6H 7H CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223861, -103.465111, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=38561EQPT3 Facility's ID=ENG-1
** Description=Compressor Engine 1 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8678hr/yr, 24hr/day
SO LOCATION 38561E3 POINT 644632.636 3566282.667 0
SO SRCPARAM 38561E3 .0002898 4.51 1000.37 72.33 .13
**********END OF 38561: Flowmaster 3H 6H 7H CTB
INFO**********************************
************************************************************
** 5.76km away. Facility ID=40080 Name=Tap Rock - Apollo A CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199604, -103.583619, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=40080EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=22-JUL-21
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40080E1 POINT 633500.036 3563440.108 0
SO SRCPARAM 40080E1 .00126 4.57 728.71 111.86 .2
** NMED source ID=40080EQPT4 Facility's ID=GEN-1
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40080E4 POINT 633507.572 3563447.129 0
SO SRCPARAM 40080E4 .0002898 4.57 1005.37 178 .1
** NMED source ID=40080EQPT5 Facility's ID=GEN-2
** Description=Generator Engine Construction date=22-JUL-21
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40080E5 POINT 633500.786 3563450.681 0
SO SRCPARAM 40080E5 .0002898 4.57 1005.37 178 .1
**********END OF 40080: Tap Rock - Apollo A CTB
INFO**********************************
************************************************************
** 5.89km away. Facility ID=38110 Name=Area 4 Central Tank Battery
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.244282, -103.572043, WGS84
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=38110EQPT4 Facility's ID=FLARE-1
** Description=process flare Construction date=31-JUL-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38110E4 POINT 634525.388 3568407.605 0
SO SRCPARAM 38110E4 .0002898 12.19 1273 20 .7
** NMED source ID=38110EQPT15 Facility's ID=HTR-1
** Description=Heater Treater  2.0 MMBtu/hr Construction date=31-JUL-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38110E15 VOLUME 634532.924 3568414.626 0
SO SRCPARAM 38110E15 .0005796 5.18 .47 .93
**********END OF 38110: Area 4 Central Tank Battery
INFO**********************************
************************************************************
** 5.98km away. Facility ID=38330 Name=Flowmaster 24-34-15 4H-8H-5H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223861, -103.462389, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=38330EQPT3 Facility's ID=ENG-01
** Description=Gas Lift Compressor Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4003hr/yr, 24hr/day
SO LOCATION 38330E3 POINT 644889.157 3566286.336 0
SO SRCPARAM 38330E3 .0002898 4.51 1000.37 72.33 .13
**********END OF 38330: Flowmaster 24-34-15 4H-8H-5H
INFO**********************************
************************************************************
** 5.98km away. Facility ID=38785 Name=Flowmaster Fee 24-34-15 2H-14H-15H
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.211906, -103.460372, NAD83
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** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=38785EQPT3 Facility's ID=ENG-01
** Description=Gas Lift Compressor Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7815hr/yr, 24hr/day
SO LOCATION 38785E3 POINT 645098.231 3564963.683 0
SO SRCPARAM 38785E3 .0002898 3.84 744.26 74.62 .09
**********END OF 38785: Flowmaster Fee 24-34-15 2H-14H-15H
INFO**********************************
************************************************************
** 6.05km away. Facility ID=38093 Name=EOG - Hearns 34 State Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.169092, -103.565428, WGS84
** Total Sulfur Dioxide emissions=.41tons/year
*****************Facility sources: ****************************
** NMED source ID=38093EQPT8 Facility's ID=HTR-2
** Description=1.5 MMBtu/hr, separator heater Construction date=02-NOV-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8768hr/yr, 24hr/day
SO LOCATION 38093E8 POINT 635259.892 3560080.26 0
SO SRCPARAM 38093E8 .0002898 6.1 588.71 .19 1.83
** NMED source ID=38093EQPT10 Facility's ID=FL-1
** Description=Process Flare Construction date=02-NOV-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38093E10 POINT 635267.428 3560087.281 0
SO SRCPARAM 38093E10 .0100798 6.1 1273.15 201.47 .24
** NMED source ID=38093EQPT12 Facility's ID=HTR-1
** Description=0.75 MMBtu/hr, separator heater Construction date=07-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38093E12 POINT 635260.642 3560090.833 0
SO SRCPARAM 38093E12 .0002898 4.88 588.71 .21 1.22
** NMED source ID=38093EQPT14 Facility's ID=FL-2 SSM
** Description=Emergency Flare Construction date=07-OCT-21
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38093E14 POINT 635253.045 3560088.741 0
SO SRCPARAM 38093E14 .0011466 18.29 1273.15 123.44 .21
**********END OF 38093: EOG - Hearns 34 State Com CTB
INFO**********************************
************************************************************
** 6.12km away. Facility ID=40883 Name=Shiprock 5 Fed Com CTB
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** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.163111, -103.491115, WGS84
** Total Sulfur Dioxide emissions=.27tons/year
*****************Facility sources: ****************************
** NMED source ID=40883EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=10-FEB-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40883E2 VOLUME 642276.548 3559513.047 0
SO SRCPARAM 40883E2 .0002898 6.1 .47 .93
** NMED source ID=40883EQPT8 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=10-FEB-23
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40883E8 POINT 642284.084 3559520.068 0
SO SRCPARAM 40883E8 .0074843 12.19 1273 20 5.505
**********END OF 40883: Shiprock 5 Fed Com CTB
INFO*************************************
************************************************************
** 6.18km away. Facility ID=36132 Name=EOG - Aladdin Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.155492, -103.532005, NAD83
** Total Sulfur Dioxide emissions=8.29tons/year
*****************Facility sources: ****************************
** NMED source ID=36132EQPT1 Facility's ID=ENG-1
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8779hr/yr, 24hr/day
SO LOCATION 36132E1 POINT 638432.075 3558615.059 0
SO SRCPARAM 36132E1 .0264596 8.84 718.15 26 .61
** NMED source ID=36132EQPT7 Facility's ID=Heater-1
** Description=0.75 MMBtu/hr Heater Treater Construction date=01-DEC-15
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E7 VOLUME 638439.611 3558622.08 0
SO SRCPARAM 36132E7 .00126 3.96 .47 .93
** NMED source ID=36132EQPT8 Facility's ID=ENG-2
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E8 POINT 638432.825 3558625.632 0
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SO SRCPARAM 36132E8 .0264596 8.84 718.15 26 .61
** NMED source ID=36132EQPT10 Facility's ID=ENG-4
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E10 POINT 638425.228 3558623.54 0
SO SRCPARAM 36132E10 .0264596 8.84 718.15 26 .61
** NMED source ID=36132EQPT11 Facility's ID=ENG-5
** Description=25000-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8090hr/yr, 22hr/day
SO LOCATION 36132E11 POINT 638420.987 3558616.64 0
SO SRCPARAM 36132E11 .0264596 8.84 718.15 26 .61
** NMED source ID=36132EQPT12 Facility's ID=ENG-6
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E12 POINT 638422.639 3558608.486 0
SO SRCPARAM 36132E12 .0264596 8.84 718.15 26 .61
** NMED source ID=36132EQPT13 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler Construction date=01-DEC-15
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 36132E13 POINT 638429.588 3558603.524 0
SO SRCPARAM 36132E13 .0050399 3.96 588.71 4.15 .3
** NMED source ID=36132EQPT27 Facility's ID=FL-1
** Description=Flare Construction date=01-DEC-15
** SCC=unknown
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36132E27 POINT 638438.271 3558604.666 0
SO SRCPARAM 36132E27 .00126 7.62 1273 20 4.652
** NMED source ID=36132EQPT31 Facility's ID=ENG-7
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=02-MAY-19
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E31 POINT 638443.981 3558611.594 0
SO SRCPARAM 36132E31 .0264596 8.84 718.15 26 .61
** NMED source ID=36132EQPT33 Facility's ID=Flare-1
** Description=Process Flare Construction date=01-DEC-15
** SCC=31000205
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36132E33 POINT 638443.416 3558620.775 0
SO SRCPARAM 36132E33 .00252 8.23 1273 20 2.632
** NMED source ID=36132EQPT34 Facility's ID=ENG-9
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=02-JAN-20
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1512hr/yr, 24hr/day
SO LOCATION 36132E34 POINT 638436.581 3558627.253 0
SO SRCPARAM 36132E34 .0264596 8.84 718.15 26 .61
** NMED source ID=36132EQPT32 Facility's ID=ENG-8
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=02-MAY-19
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8711hr/yr, 24hr/day
SO LOCATION 36132E32 POINT 638426.945 3558627.33 0
SO SRCPARAM 36132E32 .0264596 8.84 718.15 26 .61
** NMED source ID=36132EQPT9 Facility's ID=ENG-3
** Description=25000-hp Caterpillar G3608 A4 Compressor Engine Construction
date=01-DEC-15
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8744hr/yr, 24hr/day
SO LOCATION 36132E9 POINT 638419.684 3558620.664 0
SO SRCPARAM 36132E9 .0264596 8.84 718.15 26 .61
**********END OF 36132: EOG - Aladdin Compressor Station
INFO**********************************
************************************************************
** 6.21km away. Facility ID=39148 Name=Milky Way Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.217797, -103.589281, WGS84
** Total Sulfur Dioxide emissions=8.91tons/year
*****************Facility sources: ****************************
** NMED source ID=39148EQPT1 Facility's ID=ENG-1
** Description=2500 HP CAT G3608A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7608hr/yr, 24hr/day
SO LOCATION 39148E1 POINT 632939.847 3565449.979 0
SO SRCPARAM 39148E1 .0277196 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT2 Facility's ID=ENG-2
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6984hr/yr, 24hr/day
SO LOCATION 39148E2 POINT 632947.383 3565457 0
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SO SRCPARAM 39148E2 .0277196 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT3 Facility's ID=ENG-3
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6984hr/yr, 24hr/day
SO LOCATION 39148E3 POINT 632940.597 3565460.552 0
SO SRCPARAM 39148E3 .0277196 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT4 Facility's ID=ENG-4
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6984hr/yr, 24hr/day
SO LOCATION 39148E4 POINT 632933 3565458.46 0
SO SRCPARAM 39148E4 .0277196 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT5 Facility's ID=ENG-5
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6480hr/yr, 24hr/day
SO LOCATION 39148E5 POINT 632928.759 3565451.56 0
SO SRCPARAM 39148E5 .0277196 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT6 Facility's ID=ENG-6
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6480hr/yr, 24hr/day
SO LOCATION 39148E6 POINT 632930.411 3565443.406 0
SO SRCPARAM 39148E6 .0277196 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT7 Facility's ID=ENG-7
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6480hr/yr, 24hr/day
SO LOCATION 39148E7 POINT 632937.36 3565438.444 0
SO SRCPARAM 39148E7 .0277196 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT8 Facility's ID=ENG-8
** Description=2500 HP CAT G3608A4 Engine Construction date=26-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7608hr/yr, 24hr/day
SO LOCATION 39148E8 POINT 632946.043 3565439.586 0
SO SRCPARAM 39148E8 .0277196 6.1 712.04 46.33 .46
** NMED source ID=39148EQPT13 Facility's ID=Reboiler-1
** Description=2 MMbtu/hr Dehydrator Reboiler Construction date=26-SEP-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39148E13 POINT 632951.753 3565446.514 0
SO SRCPARAM 39148E13 .0037799 3.96 588.71 5.3 .3
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** NMED source ID=39148EQPT14 Facility's ID=Heater-1
** Description=0.35 MMbtu/hr Separator Heater Construction date=26-SEP-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7944hr/yr, 24hr/day
SO LOCATION 39148E14 POINT 632951.188 3565455.695 0
SO SRCPARAM 39148E14 .00126 3.96 588.71 .94 .3
** NMED source ID=39148EQPT15 Facility's ID=Flare-1
** Description=500 MSCFD Process Flare Construction date=26-SEP-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8472hr/yr, 24hr/day
SO LOCATION 39148E15 POINT 632944.353 3565462.173 0
SO SRCPARAM 39148E15 .0002898 12.19 1273 20 20.806
** NMED source ID=39148EQPT16 Facility's ID=ENG-9
** Description=2500 HP CAT G3608A4 Engine Construction date=21-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39148E16 POINT 632934.717 3565462.25 0
SO SRCPARAM 39148E16 .0277196 6.1 712.04 46.33 .46
**********END OF 39148: Milky Way Compressor Station
INFO**********************************
************************************************************
** 6.21km away. Facility ID=36279 Name=Thistle Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.252, -103.5681, WGS84
** Total Sulfur Dioxide emissions=.12tons/year
*****************Facility sources: ******************************
** NMED source ID=36279EQPT1 Facility's ID=E-1
** Description=Waukesha L-7042GSI with NSCR and AFR Construction date=07-JAN-16
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36279E1 POINT 634885.473 3569268.184 0
SO SRCPARAM 36279E1 .0008568 4.57 880.37 35.97 .38
** NMED source ID=36279EQPT2 Facility's ID=E-2
** Description=Waukesha L-7042GSI with NSCR and AFR Construction date=07-JAN-16
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=55hr/yr, 24hr/day
SO LOCATION 36279E2 POINT 634893.009 3569275.205 0
SO SRCPARAM 36279E2 .0008568 4.57 880.37 35.97 .38
** NMED source ID=36279EQPT3 Facility's ID=E-3
** Description=Waukesha L-7042GSI with NSCR and AFR Construction date=07-JAN-16
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7519hr/yr, 24hr/day
SO LOCATION 36279E3 POINT 634886.223 3569278.757 0
```

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SO SRCPARAM 36279E3 .0008568 4.57 880.37 35.97 .38
** NMED source ID=36279EQPT9 Facility's ID=E-4
** Description=Waukesha L-7042GSI with NSCR and AFR Construction date=02-AUG-16
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3712hr/yr, 24hr/day
SO LOCATION 36279E9 POINT 634878.626 3569276.665 0
SO SRCPARAM 36279E9 .0008568 4.57 880.37 35.97 .38
**********END OF 36279: Thistle Booster Station
INFO**********************************
************************************************************
** 6.34km away. Facility ID=40158 Name=MarkWest - Mid Bell Lake Compressor Station
** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.2671, -103.5157, WGS84
** Total Sulfur Dioxide emissions=.63tons/year
*****************Facility sources: ******************************
** NMED source ID=40158EQPT1 Facility's ID=ENG-1
** Description=Caterpillar 3608A  2500 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5776hr/yr, 24hr/day
SO LOCATION 40158E1 POINT 639798.889 3571009.273 0
SO SRCPARAM 40158E1 .00126 7.01 695.37 59.19 .41
** NMED source ID=40158EQPT2 Facility's ID=ENG-3
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5393hr/yr, 24hr/day
SO LOCATION 40158E2 POINT 639806.425 3571016.294 0
SO SRCPARAM 40158E2 .00126 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT4 Facility's ID=ENG-2
** Description=Caterpillar 3608A  2500 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5337hr/yr, 24hr/day
SO LOCATION 40158E4 POINT 639799.639 3571019.846 0
SO SRCPARAM 40158E4 .00126 7.01 695.37 59.19 .41
** NMED source ID=40158EQPT5 Facility's ID=ENG-4
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5230hr/yr, 24hr/day
SO LOCATION 40158E5 POINT 639792.042 3571017.754 0
SO SRCPARAM 40158E5 .00126 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT6 Facility's ID=ENG-5
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5651hr/yr, 24hr/day
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SO LOCATION 40158E6 POINT 639787.801 3571010.854 0
SO SRCPARAM 40158E6 .00126 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT7 Facility's ID=ENG-6
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4575hr/yr, 24hr/day
SO LOCATION 40158E7 POINT 639789.453 3571002.7 0
SO SRCPARAM 40158E7 .00126 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT8 Facility's ID=ENG-7
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4438hr/yr, 24hr/day
SO LOCATION 40158E8 POINT 639796.402 3570997.738 0
SO SRCPARAM 40158E8 .00126 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT9 Facility's ID=ENG-8
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4569hr/yr, 24hr/day
SO LOCATION 40158E9 POINT 639805.085 3570998.88 0
SO SRCPARAM 40158E9 .00126 7.01 820.93 62.85 .3
** NMED source ID=40158EQPT10 Facility's ID=GEN-1
** Description=Generator engine, 350 kW Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6768hr/yr, 24hr/day
SO LOCATION 40158E10 POINT 639810.795 3571005.808 0
SO SRCPARAM 40158E10 .0002898 4.51 1005.37 83.21 .3
** NMED source ID=40158EQPT11 Facility's ID=GEN-2
** Description=Generator engine, 350 kW Construction date=03-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6768hr/yr, 24hr/day
SO LOCATION 40158E11 POINT 639810.23 3571014.989 0
SO SRCPARAM 40158E11 .0002898 4.51 1005.37 83.21 .3
** NMED source ID=40158EQPT13 Facility's ID=Reboil-1
** Description=TEG Reboiler 1.5 MMBtu/h Construction date=03-SEP-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6744hr/yr, 24hr/day
SO LOCATION 40158E13 POINT 639803.395 3571021.467 0
SO SRCPARAM 40158E13 .00252 4.88 588.71 2.35 .4
** NMED source ID=40158EQPT18 Facility's ID=ECD-1
** Description=500 Mscf/d Combustor (Process) Construction date=03-SEP-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=385hr/yr, 24hr/day
SO LOCATION 40158E18 POINT 639793.759 3571021.544 0
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SO SRCPARAM 40158E18 .00252 9.75 1273 20 2.13
** NMED source ID=40158EQPT19 Facility's ID=ECD-2
** Description=30 Mscf/d Combustor (Process) Construction date=03-SEP-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6744hr/yr, 24hr/day
SO LOCATION 40158E19 POINT 639786.498 3571014.878 0
SO SRCPARAM 40158E19 .0062999 3.66 1273 20 1.22
**********END OF 40158: MarkWest - Mid Bell Lake Compressor Station
INFO**********************************
************************************************************
** 6.37km away. Facility ID=39944 Name=Hyperion B CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.208622, -103.591511, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=39944EQPT2 Facility's ID=ENG-1
** Description=CAT G3516J: 4SLB, 1380hp w/ oxidation catalyst Construction
date=31-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39944E2 POINT 632743.015 3564430.074 0
SO SRCPARAM 39944E2 .00126 4.57 716.48 33.95 .38
** NMED source ID=39944EQPT3 Facility's ID=ENG-2
** Description=CAT G3516J: 4SLB, 1380hp w/ oxidation catalyst Construction
date=31-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39944E3 POINT 632750.551 3564437.095 0
SO SRCPARAM 39944E3 .00126 4.57 716.48 33.95 .38
**********END OF 39944: Hyperion B CTB INFO**********************************
************************************************************
** 6.48km away. Facility ID=39977 Name=EOG - Thrasher 33 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1701, -103.4744, WGS84
** Total Sulfur Dioxide emissions=.13tons/year
*****************Facility sources: ******************************
** NMED source ID=39977EQPT1 Facility's ID=HTR-1E
** Description=Heater Treater, 1.5 MMBtu/hr Construction date=16-JUL-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39977E1 VOLUME 643841.822 3560310.09 0
SO SRCPARAM 39977E1 .0002898 4.88 .47 .93
** NMED source ID=39977EQPT3 Facility's ID=HTR-1W
** Description=1.5 MMBtu/hr Heater Treater Construction date=16-JUL-21
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** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39977E3 VOLUME 643849.358 3560317.111 0
SO SRCPARAM 39977E3 .00126 4.88 .47 .93
** NMED source ID=39977EQPT17 Facility's ID=FL-1E-MSS
** Description=3 MMscfd Flare Construction date=20-MAY-21
** SCC=30609903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39977E17 POINT 643842.572 3560320.663 0
SO SRCPARAM 39977E17 .0014364 12.19 1273 20 2.632
** NMED source ID=39977EQPT18 Facility's ID=FL-1W-MSS
** Description=3 MMscfd Flare Construction date=20-MAY-21
** SCC=30609903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39977E18 POINT 643834.975 3560318.571 0
SO SRCPARAM 39977E18 .0014364 12.19 1273 20 2.632
**********END OF 39977: EOG - Thrasher 33 Fed Com CTB
INFO**********************************
************************************************************
** 6.48km away. Facility ID=40159 Name=Juliet Fed Com 27 CTB Facility
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.189988, -103.459545, WGS84
** Total Sulfur Dioxide emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=40159EQPT13 Facility's ID=FL-1 SSM
** Description=Tri-Tip Flare Construction date=01-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40159E13 POINT 645211 3562534.895 0
SO SRCPARAM 40159E13 .0011466 9.14 1273 20 3.604
** NMED source ID=40159EQPT14 Facility's ID=ENG-2
** Description=203 HP Engine Construction date=20-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40159E14 POINT 645218.536 3562541.916 0
SO SRCPARAM 40159E14 .0005796 2.44 863.15 25.58 .15
** NMED source ID=40159EQPT15 Facility's ID=ENG-3
** Description=203 HP Engine Construction date=20-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40159E15 POINT 645211.75 3562545.468 0
SO SRCPARAM 40159E15 .0005796 2.44 863.15 25.58 .15
**********END OF 40159: Juliet Fed Com 27 CTB Facility
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INFO**********************************
************************************************************
** 6.5km away. Facility ID=39179 Name=Proclamation Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.16309, -103.56401, WGS84
** Total Sulfur Dioxide emissions=5.79tons/year
*****************Facility sources: ******************************
** NMED source ID=39179EQPT1 Facility's ID=Dehydrator Reboiler
** Description=dehydrator reboiler Construction date=15-OCT-19
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E1 POINT 635402.482 3559416.658 0
SO SRCPARAM 39179E1 .00252 3.96 588.71 2.62 .3
** NMED source ID=39179EQPT2 Facility's ID=Heater-1
** Description=Separator heater Construction date=15-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E2 POINT 635410.018 3559423.679 0
SO SRCPARAM 39179E2 .00126 3.96 588.71 1.31 .3
** NMED source ID=39179EQPT10 Facility's ID=Flare-1
** Description=PRocess Flare Construction date=15-OCT-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E10 POINT 635403.232 3559427.231 0
SO SRCPARAM 39179E10 .00126 8.23 1273 20 2.632
** NMED source ID=39179EQPT15 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E15 POINT 635395.635 3559425.139 0
SO SRCPARAM 39179E15 .0277196 7.62 718.15 37.28 .51
** NMED source ID=39179EQPT16 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E16 POINT 635391.394 3559418.239 0
SO SRCPARAM 39179E16 .0277196 7.62 718.15 37.28 .51
** NMED source ID=39179EQPT17 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E17 POINT 635393.046 3559410.085 0
SO SRCPARAM 39179E17 .0277196 7.62 718.15 37.28 .51
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** NMED source ID=39179EQPT18 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E18 POINT 635399.995 3559405.123 0
SO SRCPARAM 39179E18 .0277196 7.62 718.15 37.28 .51
** NMED source ID=39179EQPT19 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E19 POINT 635408.678 3559406.265 0
SO SRCPARAM 39179E19 .0277196 7.62 718.15 37.28 .51
** NMED source ID=39179EQPT20 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39179E20 POINT 635414.388 3559413.193 0
SO SRCPARAM 39179E20 .0277196 7.62 718.15 37.28 .51
**********END OF 39179: Proclamation Localized Gas Lift Station
INFO**********************************
************************************************************
** 6.59km away. Facility ID=34027 Name=Thistle Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.211978, -103.593828, WGS84
** Total Sulfur Dioxide emissions=10.81tons/year
*****************Facility sources: ****************************
** NMED source ID=34027EQPT4 Facility's ID=0316
** Description=Compressor Engine CAT G3606 1775-hp Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8256hr/yr, 23hr/day
SO LOCATION 34027E4 POINT 632519.762 3564799.263 0
SO SRCPARAM 34027E4 .0201597 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT5 Facility's ID=0317
** Description=Compressor Engine CAT G3606 1775-hp Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8414hr/yr, 23hr/day
SO LOCATION 34027E5 POINT 632527.298 3564806.284 0
SO SRCPARAM 34027E5 .0201597 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT6 Facility's ID=Rbl-1
** Description=Dehydrator Reboiler 1 0.75 MMBtu/hr Construction date=02-AUG-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8550hr/yr, 23hr/day
SO LOCATION 34027E6 POINT 632520.512 3564809.836 0
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SO SRCPARAM 34027E6 .00126 3.05 588.71 1.98 .3
** NMED source ID=34027EQPT7 Facility's ID=0489
** Description=Compressor Engine CAT G3606 1775-hp Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8187hr/yr, 22hr/day
SO LOCATION 34027E7 POINT 632512.915 3564807.744 0
SO SRCPARAM 34027E7 .0201597 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT8 Facility's ID=0490
** Description=Compressor Engine CAT G3606 1775-hp Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8358hr/yr, 23hr/day
SO LOCATION 34027E8 POINT 632508.674 3564800.844 0
SO SRCPARAM 34027E8 .0201597 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT9 Facility's ID=Rbl-2
** Description=Dehydrator Reboiler 2 0.75 MMBtu/hr Construction date=02-AUG-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8550hr/yr, 23hr/day
SO LOCATION 34027E9 POINT 632510.326 3564792.69 0
SO SRCPARAM 34027E9 .00126 3.05 588.71 1.98 .3
** NMED source ID=34027EQPT10 Facility's ID=3336
** Description=Compressor Engine CAT G3606 1875-hp Construction date=02-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8226hr/yr, 23hr/day
SO LOCATION 34027E10 POINT 632517.275 3564787.728 0
SO SRCPARAM 34027E10 .0214197 7.01 718.71 33.95 .46
** NMED source ID=34027EQPT16 Facility's ID=AU-RB
** Description=Amine Reboiler, Southtex, RW-2100, 20-MMBtu/hr Construction
date=04-JUL-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34027E16 POINT 632525.958 3564788.87 0
SO SRCPARAM 34027E16 .0365394 6.1 588.71 17.37 .53
** NMED source ID=34027EQPT23 Facility's ID=0584
** Description=Compressor Engine CAT G3606 1775-hp Construction date=15-NOV-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7392hr/yr, 20hr/day
SO LOCATION 34027E23 POINT 632531.103 3564804.979 0
SO SRCPARAM 34027E23 .0201597 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT24 Facility's ID=ENG-6
** Description=Compressor Engine CAT G3606 1775-hp Construction date=01-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7925hr/yr, 22hr/day
SO LOCATION 34027E24 POINT 632524.268 3564811.457 0
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SO SRCPARAM 34027E24 .0201597 7.01 725.93 35.11 .46
** NMED source ID=34027EQPT25 Facility's ID=1201
** Description=Compressor Engine CAT G3606 1875-hp Construction date=05-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7925hr/yr, 22hr/day
SO LOCATION 34027E25 POINT 632514.632 3564811.534 0
SO SRCPARAM 34027E25 .0214197 7.01 718.71 33.95 .46
** NMED source ID=34027EQPT26 Facility's ID=FL-1
** Description=Process Flare- 35 MMscfd Construction date=05-AUG-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34027E26 POINT 632507.371 3564804.868 0
SO SRCPARAM 34027E26 .1045783 13.72 1273 20 4.652
**********END OF 34027: Thistle Compressor Station
INFO**********************************
************************************************************
** 6.68km away. Facility ID=36420 Name=Eata Fajita A B C CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=6669 NOI
** lat,long,datum=32.226259, -103.592399, WGS84
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=36420EQPT6 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=01-FEB-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36420E6 POINT 632633.704 3566384.23 0
SO SRCPARAM 36420E6 .0002898 4.57 867.59 16.4 .15
** NMED source ID=36420EQPT7 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=01-FEB-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36420E7 POINT 632641.24 3566391.251 0
SO SRCPARAM 36420E7 .0002898 4.57 867.59 16.4 .15
**********END OF 36420: Eata Fajita A B C CTB
INFO**********************************
************************************************************
** 6.78km away. Facility ID=33556 Name=EOG - Red Hills 11 Battery
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=5562 NOI
** lat,long,datum=32.150639, -103.536811, Unknown
** Total Sulfur Dioxide emissions=1.78tons/year
*****************Facility sources: ******************************
** NMED source ID=33556EQPT6 Facility's ID=10
** Description=Process Flare  Construction date=09-APR-14
** SCC=30600904
```

```
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33556E6 POINT 637986.139 3558070.879 0
SO SRCPARAM 33556E6 .0512056 6 1273 20 5.505
**********END OF 33556: EOG - Red Hills 11 Battery
INFO**********************************
************************************************************
** 6.87km away. Facility ID=38810 Name=Sheba and Solomon CTBs
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19659, -103.452791, WGS84
** Total Sulfur Dioxide emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=38810EQPT13 Facility's ID=FL-1-1
** Description=Dual tip  Flare Construction date=14-FEB-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38810E13 POINT 645837.2 3563275.958 0
SO SRCPARAM 38810E13 .00126 12.19 1273 20 20.806
** NMED source ID=38810EQPT31 Facility's ID=FL-2-1
** Description=Dual tip  Flare Construction date=28-AUG-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38810E31 POINT 645844.736 3563282.979 0
SO SRCPARAM 38810E31 .00126 12.19 1273 20 20.806
** NMED source ID=38810EQPT32 Facility's ID=ENG
** Description=600 hp CAT CG137-12 compressor engine Construction date=12-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=720hr/yr, 24hr/day
SO LOCATION 38810E32 POINT 645837.95 3563286.531 0
SO SRCPARAM 38810E32 .0002898 5.94 816.48 35.84 .2
**********END OF 38810: Sheba and Solomon CTBs
INFO**********************************
************************************************************
** 6.91km away. Facility ID=38958 Name=Devon - Thistle Unit 33 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257397, -103.571961, NAD83
** Total Sulfur Dioxide emissions=.31tons/year
*****************Facility sources: ******************************
** NMED source ID=38958EQPT9 Facility's ID=FL-1
** Description=12.7 MMscf/d Process Flare Construction date=15-MAY-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38958E9 POINT 634513.772 3569861.66 0
SO SRCPARAM 38958E9 .0566991 12.19 1273 20 12.132
```

**********END OF 38958: Devon - Thistle Unit 33 CTB 1
INFO**********
**********
** 6.92km away. Facility ID=33454 Name=Sea Snake 35 State 1H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5543 NOI
** lat,long,datum=32.269397, -103.547539, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
**********Facility sources: **********
** NMED source ID=33454EQPT11 Facility's ID=22
** Description=Flare 1_EQ000146655 - Combustor Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33454E11 POINT 636796.402 3571222.883 0
SO SRCPARAM 33454E11 .00126 4.88 1273 20 .51
**********END OF 33454: Sea Snake 35 State 1H
INFO**********
**********
** 6.98km away. Facility ID=32175 Name=Diamond 8 Fed Com No 4H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=211111   Permit=unknown
** lat,long,datum=32.1514, -103.4992, WGS84
** Total Sulfur Dioxide emissions=.05tons/year
**********Facility sources: **********
** NMED source ID=32175EQPT1 Facility's ID=ECD
** Description=Enclose Combustion Device Construction date=01-JAN-20
** SCC=30609903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32175E1 POINT 641532.221 3558204.082 0
SO SRCPARAM 32175E1 .00126 6.71 1273.15 7.96 .7
** NMED source ID=32175EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32175E2 POINT 641539.757 3558211.103 0
SO SRCPARAM 32175E2 .0002898 6.1 588.71 28 1.83
**********END OF 32175: Diamond 8 Fed Com No 4H
INFO**********
**********
** 7.01km away. Facility ID=38366 Name=Heartthrob 17 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2182, -103.59772, WGS84
** Total Sulfur Dioxide emissions=.08tons/year
**********Facility sources: **********
** NMED source ID=38366EQPT17 Facility's ID=HT-1
** Description=Heater Treater Construction date=01-JAN-20

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38366E17 VOLUME 632143.941 3565484.245 0
SO SRCPARAM 38366E17 .00126 5.18 .47 .93
** NMED source ID=38366EQPT19 Facility's ID=HT-2
** Description=Heater Treater Construction date=22-MAR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38366E19 VOLUME 632151.477 3565491.266 0
SO SRCPARAM 38366E19 .00126 5.18 .47 .93
**********END OF 38366: Heartthrob 17 State CTB
INFO**********************************
************************************************************
** 7.04km away. Facility ID=40211 Name=Sheba Fed Com 505H and Solomon Fed Com 506H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.190819, -103.452877, NAD83
** Total Sulfur Dioxide emissions=.09tons/year
****************Facility sources: ****************************
** NMED source ID=40211EQPT20 Facility's ID=FL-1-LP SSM
** Description=Tri-Tip Flare, 21 MMSCFD Construction date=14-OCT-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40211E20 POINT 645838.3 3562636.048 0
SO SRCPARAM 40211E20 .00126 12.19 1273 20 3.604
** NMED source ID=40211EQPT21 Facility's ID=FL-2-LP SSM
** Description=Tri-Tip Flare, 21 MMSCFD Construction date=14-OCT-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40211E21 POINT 645845.836 3562643.069 0
SO SRCPARAM 40211E21 .00126 12.19 1273 20 3.604
** NMED source ID=40211EQPT28 Facility's ID=ENG-1
** Description=Gas Lift Engine Construction date=05-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40211E28 POINT 645839.05 3562646.621 0
SO SRCPARAM 40211E28 .0002898 3.66 778.71 14.62 .25
**********END OF 40211: Sheba Fed Com 505H and Solomon Fed Com 506H
INFO**********************************
************************************************************
** 7.09km away. Facility ID=40199 Name=EOG - Peregrine 27 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1835, -103.4558, NAD83
** Total Sulfur Dioxide emissions=.37tons/year
```

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**********Facility sources: ******************************
** NMED source ID=40199EQPT1 Facility's ID=HTR-1
** Description=1.5 MMBtu/h Heater Treater  Construction date=27-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8748hr/yr, 24hr/day
SO LOCATION 40199E1 VOLUME 645574.388 3561820.679 0
SO SRCPARAM 40199E1 .0002898 4.88 .47 .93
** NMED source ID=40199EQPT8 Facility's ID=FL-1
** Description=Process Flare  3 MMscfd Construction date=27-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40199E8 POINT 645581.924 3561827.7 0
SO SRCPARAM 40199E8 .0907186 12.19 1273 20 14.712
** NMED source ID=40199EQPT9 Facility's ID=FL-2
** Description=Emergency Flare  30 MMscfd Construction date=27-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40199E9 POINT 645575.138 3561831.252 0
SO SRCPARAM 40199E9 .0057581 18.29 1273 20 5.505
**********END OF 40199: EOG - Peregrine 27 Fed Com CTB
INFO**********************************
************************************************************
** 7.13km away. Facility ID=31804 Name=Diamond 8 Fed Com No3H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1514, -103.4949, WGS84
** Total Sulfur Dioxide emissions=.01tons/year
**********Facility sources: ******************************
** NMED source ID=31804EQPT2 Facility's ID=HT-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8682hr/yr, 24hr/day
SO LOCATION 31804E2 VOLUME 641937.771 3558209.744 0
SO SRCPARAM 31804E2 .0002898 6.1 .47 .93
**********END OF 31804: Diamond 8 Fed Com No3H
INFO**********************************
************************************************************
** 7.25km away. Facility ID=33674 Name=Gramma Ridge Battery
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=5601 NOI
** lat,long,datum=32.223663, -103.448462, NAD83
** Total Sulfur Dioxide emissions=.14tons/year
**********Facility sources: ******************************
** NMED source ID=33674EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33674E6 VOLUME 646201.954 3566283.256 0
SO SRCPARAM 33674E6 .00126 6.1 .47 .93
** NMED source ID=33674EQPT7 Facility's ID=FLR-1
** Description=Emergency Flare Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33674E7 POINT 646209.49 3566290.277 0
SO SRCPARAM 33674E7 .00126 7.62 1273 20 20.806
** NMED source ID=33674EQPT8 Facility's ID=FLR-2
** Description=Emergency Flare Construction date=25-OCT-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33674E8 POINT 646202.704 3566293.829 0
SO SRCPARAM 33674E8 .00126 7.62 1273 20 20.806
**********END OF 33674: Gramma Ridge Battery
INFO**********************************
************************************************************
** 7.29km away. Facility ID=40800 Name=Monet Gas Lift Station
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9786 NOI
** lat,long,datum=32.166, -103.5806, WGS84
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40800EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40800E1 POINT 633833.78 3559718.505 0
SO SRCPARAM 40800E1 .0005796 3.66 1003.71 57.91 .15
** NMED source ID=40800EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40800E2 POINT 633841.316 3559725.526 0
SO SRCPARAM 40800E2 .0005796 3.66 1003.71 57.91 .15
** NMED source ID=40800EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40800E3 POINT 633834.53 3559729.078 0
SO SRCPARAM 40800E3 .0005796 3.66 1003.71 57.91 .15
**********END OF 40800: Monet Gas Lift Station
INFO**********************************
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************************************************************
** 7.31km away. Facility ID=39309 Name=Hyperion A CTB
** Company ID=13683 Name=Tap Rock Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.207381, -103.601399, NAD83
** Total Sulfur Dioxide emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=39309EQPT13 Facility's ID=ENG-1
** Description=Caterpillar G3516J 1380 HP Construction date=31-OCT-23
** SCC=20200252
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39309E13 POINT 631812.83 3564280.326 0
SO SRCPARAM 39309E13 .00126 4.57 716.48 33.95 .38
** NMED source ID=39309EQPT14 Facility's ID=ENG-2
** Description=Waukesha L7055GSI 1680HP Construction date=31-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39309E14 POINT 631820.366 3564287.347 0
SO SRCPARAM 39309E14 .00126 4.57 910.37 89.61 .24
**********END OF 39309: Hyperion A CTB INFO************************************
************************************************************
** 7.48km away. Facility ID=41017 Name=Firebird LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.17175, -103.45908, WGS84
** Total Sulfur Dioxide emissions=.77tons/year
*****************Facility sources: ****************************
** NMED source ID=41017EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine 1, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E2 POINT 645283.806 3560513.602 0
SO SRCPARAM 41017E2 .00252 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine 2, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E3 POINT 645291.342 3560520.623 0
SO SRCPARAM 41017E3 .00252 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine 3, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E4 POINT 645284.556 3560524.175 0
SO SRCPARAM 41017E4 .00252 6.1 688.15 25.51 .61
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** NMED source ID=41017EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine 4, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E5 POINT 645276.959 3560522.083 0
SO SRCPARAM 41017E5 .00252 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine 5, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E6 POINT 645272.718 3560515.183 0
SO SRCPARAM 41017E6 .00252 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine 6, Cat G3608 (2500hp) Construction date=05-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E7 POINT 645274.37 3560507.029 0
SO SRCPARAM 41017E7 .00252 6.1 688.15 25.51 .61
** NMED source ID=41017EQPT9 Facility's ID=FL-1
** Description=Process Flare Construction date=05-MAY-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E9 POINT 645281.319 3560502.067 0
SO SRCPARAM 41017E9 .0002898 6.1 1273 20 20.806
** NMED source ID=41017EQPT10 Facility's ID=HTR-1
** Description=Heater Treater, 1.0 MMBtu/hr Construction date=05-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E10 VOLUME 645290.002 3560503.209 0
SO SRCPARAM 41017E10 .00252 3.05 .47 .93
** NMED source ID=41017EQPT11 Facility's ID=RBL-1
** Description=Dehy Reboiler, 1.5 MMBtu/hr Construction date=05-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41017E11 POINT 645295.712 3560510.137 0
SO SRCPARAM 41017E11 .0037799 4.57 588.71 3.96 .3
**********END OF 41017: Firebird LGL Station
INFO**********************************
************************************************************
** 7.51km away. Facility ID=39550 Name=Brad Lummis Fed Com Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.208748, -103.444165, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
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*****************Facility sources: ****************************
** NMED source ID=39550EQPT3 Facility's ID=ENG-1
** Description=1380-hp Caterpillar 3516J engine Construction date=26-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 23hr/day
SO LOCATION 39550E3 POINT 646630.849 3564635.576 0
SO SRCPARAM 39550E3 .00126 7.62 728.15 73.43 .25
** NMED source ID=39550EQPT5 Facility's ID=GEN-1
** Description=390-hp PSI 14.6L generator Construction date=26-JUN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39550E5 POINT 646638.385 3564642.597 0
SO SRCPARAM 39550E5 .0002898 3.05 1023.15 112.56 .1
** NMED source ID=39550EQPT6 Facility's ID=GEN-2
** Description=581 hp PSI 21.9L generator Construction date=26-JUN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39550E6 POINT 646631.599 3564646.149 0
SO SRCPARAM 39550E6 .0002898 2.74 1023.15 177.88 .1
**********END OF 39550: Brad Lummis Fed Com Facility
INFO************************************
************************************************************
** 7.69km away. Facility ID=40723 Name=Venom Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.183801, -103.599196, WGS84
** Total Sulfur Dioxide emissions=9.34tons/year
*****************Facility sources: ****************************
** NMED source ID=40723EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E2 POINT 632054.532 3561668.943 0
SO SRCPARAM 40723E2 .0113398 6.61 704.26 46.3 .46
SO EMISFACT 40723E2 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40723EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E3 POINT 632062.068 3561675.964 0
SO SRCPARAM 40723E3 .0113398 6.61 704.26 46.3 .46
SO EMISFACT 40723E3 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40723EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200254
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** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E4 POINT 632055.282 3561679.516 0
SO SRCPARAM 40723E4 .0113398 6.61 704.26 46.3 .46
SO EMISFACT 40723E4 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40723EQPT7 Facility's ID=HT-1
** Description=Heater Construction date=08-NOV-22
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E7 POINT 632047.685 3561677.424 0
SO SRCPARAM 40723E7 .00126 3.96 588.71 9.08 .3
** NMED source ID=40723EQPT8 Facility's ID=REB-1
** Description=Glycol Dehydrator Reboiler Construction date=08-NOV-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E8 POINT 632043.444 3561670.524 0
SO SRCPARAM 40723E8 .00126 3.96 588.71 13.62 .3
** NMED source ID=40723EQPT9 Facility's ID=T-1
** Description=Turbine Construction date=08-NOV-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E9 POINT 632045.096 3561662.37 0
SO SRCPARAM 40723E9 .1159182 11.43 727.59 43.16 2.13
** NMED source ID=40723EQPT10 Facility's ID=T-2
** Description=Turbine Construction date=08-NOV-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40723E10 POINT 632052.045 3561657.408 0
SO SRCPARAM 40723E10 .1159182 11.43 727.59 43.16 2.13
**********END OF 40723: Venom Compressor Station
INFO**********************************
************************************************************
** 7.9km away. Facility ID=39822 Name=Mandelbaum A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.227639, -103.4425, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=39822EQPT19 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=26-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39822E19 POINT 646757.424 3566732.182 0
SO SRCPARAM 39822E19 .0005796 9.14 728.71 38.25 .36
**********END OF 39822: Mandelbaum A CTB INFO**********************************
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************************************************************
** 7.96km away. Facility ID=38009 Name=Antietam 9 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.150744, -103.570275, WGS84
** Total Sulfur Dioxide emissions=.31tons/year
*****************Facility sources: ****************************
** NMED source ID=38009EQPT16 Facility's ID=FL-2
** Description=High-Pressure Flare Construction date=21-JUN-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E16 POINT 634829.87 3558040.11 0
SO SRCPARAM 38009E16 .00126 18.29 1273 20 2.632
** NMED source ID=38009EQPT17 Facility's ID=HTR-1
** Description=Heater Construction date=21-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E17 POINT 634837.406 3558047.131 0
SO SRCPARAM 38009E17 .0002898 4.88 588.71 .21 1.22
** NMED source ID=38009EQPT18 Facility's ID=HTR-2
** Description=Heater Construction date=21-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E18 POINT 634830.62 3558050.683 0
SO SRCPARAM 38009E18 .0002898 7.32 588.71 .19 1.83
** NMED source ID=38009EQPT19 Facility's ID=Flare-1 SSM
** Description=Low-Pressure Flare Construction date=01-JAN-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E19 POINT 634823.023 3558048.591 0
SO SRCPARAM 38009E19 .0060353 15.24 1273 20 .86
** NMED source ID=38009EQPT21 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=08-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E21 POINT 634818.782 3558041.691 0
SO SRCPARAM 38009E21 .0005796 3.96 803.71 58.52 .13
** NMED source ID=38009EQPT22 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=08-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E22 POINT 634820.434 3558033.537 0
SO SRCPARAM 38009E22 .00126 3.96 1003.71 82.6 .13
** NMED source ID=38009EQPT23 Facility's ID=HTR-3
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** Description=Heater Construction date=08-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38009E23 POINT 634827.383 3558028.575 0
SO SRCPARAM 38009E23 .0002898 4.88 588.71 .21 1.22
**********END OF 38009: Antietam 9 Fed Com CTB
INFO**********************************
************************************************************
** 7.96km away. Facility ID=39782 Name=EOG - Kestrel 26 Fed No 311H Facility
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.182447, -103.446153, NAD83
** Total Sulfur Dioxide emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=39782EQPT2 Facility's ID=FLARE-1
** Description=8 MMscfd Process Flare, includes pilot Construction date=22-JAN-21
** SCC=30600903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39782E2 POINT 646485.611 3561717.04 0
SO SRCPARAM 39782E2 .00126 12.19 1273 20 .7
** NMED source ID=39782EQPT3 Facility's ID=FLARE-1 SSM
** Description=8 MMscfd Process Flare, SSM Construction date=22-JAN-21
** SCC=30600903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39782E3 POINT 646493.147 3561724.061 0
SO SRCPARAM 39782E3 .0002898 12.19 1273 20 .7
** NMED source ID=39782EQPT4 Facility's ID=HTR-1
** Description=0.75 MMBtu/hr heater treater Construction date=22-JAN-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39782E4 VOLUME 646486.361 3561727.613 0
SO SRCPARAM 39782E4 .00126 5.18 .47 .93
**********END OF 39782: EOG - Kestrel 26 Fed No 311H Facility
INFO**********************************
************************************************************
** 7.98km away. Facility ID=39339 Name=EOG - Red Hills North Unit TB 12
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.139, -103.5282, WGS84
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=39339EQPT11 Facility's ID=HTR-1
** Description=Heater, 0.5-MMBtu/hr Construction date=30-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=936hr/yr, 24hr/day
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SO LOCATION 39339E11 POINT 638815.917 3556791.64 0
SO SRCPARAM 39339E11 .0005796 3.96 588.71 2.29 .3
** NMED source ID=39339EQPT12 Facility's ID=HTR-2
** Description=Heater, 0.5-MMBtu/hr Construction date=30-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8560hr/yr, 24hr/day
SO LOCATION 39339E12 POINT 638823.453 3556798.661 0
SO SRCPARAM 39339E12 .0005796 3.96 588.71 2.29 .3
** NMED source ID=39339EQPT13 Facility's ID=HTR-3
** Description=Heater, 0.5-MMBtu/hr Construction date=30-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8648hr/yr, 24hr/day
SO LOCATION 39339E13 POINT 638816.667 3556802.213 0
SO SRCPARAM 39339E13 .0005796 3.96 588.71 2.29 .3
**********END OF 39339: EOG - Red Hills North Unit TB 12
INFO**********************************
************************************************************
** 8km away. Facility ID=39664 Name=EOG - Boa Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1864, -103.6039, WGS84
** Total Sulfur Dioxide emissions=4.56tons/year
*****************Facility sources: ****************************
** NMED source ID=39664EQPT1 Facility's ID=Reboiler-1
** Description=Deydrator Reboiler Construction date=21-SEP-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1848hr/yr, 24hr/day
SO LOCATION 39664E1 POINT 631607.305 3561951.302 0
SO SRCPARAM 39664E1 .00252 3.96 588.71 2.65 .3
** NMED source ID=39664EQPT2 Facility's ID=ENG-1
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664E2 POINT 631614.841 3561958.323 0
SO SRCPARAM 39664E2 .0176397 8.53 701.48 27.86 .51
** NMED source ID=39664EQPT3 Facility's ID=ENG-2
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664E3 POINT 631608.055 3561961.875 0
SO SRCPARAM 39664E3 .0176397 8.53 701.48 27.86 .51
** NMED source ID=39664EQPT4 Facility's ID=ENG-3
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664E4 POINT 631600.458 3561959.783 0
SO SRCPARAM 39664E4 .0176397 8.53 701.48 27.86 .51
** NMED source ID=39664EQPT5 Facility's ID=ENG-4
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664E5 POINT 631596.217 3561952.883 0
SO SRCPARAM 39664E5 .0251996 8.84 688.15 25.51 .61
** NMED source ID=39664EQPT6 Facility's ID=ENG-5
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39664E6 POINT 631597.869 3561944.729 0
SO SRCPARAM 39664E6 .0251996 8.84 688.15 25.51 .61
** NMED source ID=39664EQPT7 Facility's ID=ENG-6
** Description=Natural Gas Engine Construction date=21-SEP-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39664E7 POINT 631604.818 3561939.767 0
SO SRCPARAM 39664E7 .0251996 8.84 688.15 25.51 .61
** NMED source ID=39664EQPT9 Facility's ID=Flare-1
** Description=Process Flare Construction date=21-SEP-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2208hr/yr, 24hr/day
SO LOCATION 39664E9 POINT 631613.501 3561940.909 0
SO SRCPARAM 39664E9 .0005796 12.19 1273 20 20.806
** NMED source ID=39664EQPT10 Facility's ID=Heater-1
** Description=Seperator Heater Construction date=21-SEP-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1872hr/yr, 24hr/day
SO LOCATION 39664E10 VOLUME 631619.211 3561947.837 0
SO SRCPARAM 39664E10 .00126 3.96 .47 .93
**********END OF 39664: EOG - Boa Localized Gas Lift Station
INFO**********************************
************************************************************
** 8.01km away. Facility ID=39006 Name=EOG - Gunslinger Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1456, -103.4874, WGS84
** Total Sulfur Dioxide emissions=2.46tons/year
*****************Facility sources: ******************************
** NMED source ID=39006EQPT2 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.5 MMbtu/hr Construction date=12-OCT-21
** SCC=31000228
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E2 POINT 642654.162 3557576.66 0
SO SRCPARAM 39006E2 .00126 3.96 588.71 .44 .91
** NMED source ID=39006EQPT3 Facility's ID=Heater-1
** Description=Separator Heater 0.50 MMbtu/hr Construction date=12-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E3 POINT 642661.698 3557583.681 0
SO SRCPARAM 39006E3 .0002898 3.96 588.71 .15 .91
** NMED source ID=39006EQPT4 Facility's ID=ENG-6
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=13-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E4 POINT 642654.912 3557587.233 0
SO SRCPARAM 39006E4 .00252 6.1 688.15 25.24 .61
** NMED source ID=39006EQPT5 Facility's ID=ENG-1
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=15-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E5 POINT 642647.315 3557585.141 0
SO SRCPARAM 39006E5 .00252 6.1 688.15 25.24 .61
** NMED source ID=39006EQPT7 Facility's ID=ENG-3
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=15-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E7 POINT 642643.074 3557578.241 0
SO SRCPARAM 39006E7 .0176397 8.53 719.26 27.43 .51
** NMED source ID=39006EQPT8 Facility's ID=ENG-4
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=05-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E8 POINT 642644.726 3557570.087 0
SO SRCPARAM 39006E8 .0176397 8.53 719.26 27.43 .51
** NMED source ID=39006EQPT9 Facility's ID=ENG-5
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=15-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E9 POINT 642651.675 3557565.125 0
SO SRCPARAM 39006E9 .0176397 8.53 719.26 27.43 .51
** NMED source ID=39006EQPT11 Facility's ID=Flare-1
** Description=Process Flare 500 MSCFD Construction date=12-OCT-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E11 POINT 642660.358 3557566.267 0
SO SRCPARAM 39006E11 .0075599 8.23 1273 20 20.806
** NMED source ID=39006EQPT6 Facility's ID=ENG-2
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=15-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39006E6 POINT 642666.068 3557573.195 0
SO SRCPARAM 39006E6 .00252 6.1 688.15 25.24 .61
**********END OF 39006: EOG - Gunslinger Localized Gas Lift Station
INFO**********************************
************************************************************
** 8.1km away. Facility ID=38906 Name=Devon - Bell Lake 19 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199481, -103.6089, NAD83
** Total Sulfur Dioxide emissions=.24tons/year
*****************Facility sources: ****************************
** NMED source ID=38906EQPT3 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater 1 Construction date=05-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38906E3 VOLUME 631117.163 3563395.354 0
SO SRCPARAM 38906E3 .0005796 9.14 .47 .93
** NMED source ID=38906EQPT6 Facility's ID=FL-1
** Description=15.5 MMscfd Flare Construction date=05-APR-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38906E6 POINT 631124.699 3563402.375 0
SO SRCPARAM 38906E6 .0176397 12.19 1273 20 13.484
** NMED source ID=38906EQPT16 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater Treater 2 Construction date=23-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7224hr/yr, 24hr/day
SO LOCATION 38906E16 VOLUME 631117.913 3563405.927 0
SO SRCPARAM 38906E16 .0005796 9.14 .47 .93
**********END OF 38906: Devon - Bell Lake 19 CTB 3
INFO**********************************
************************************************************
** 8.12km away. Facility ID=7515 Name=Harrier 35 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.17618, -103.44787, WGS84
** Total Sulfur Dioxide emissions=.13tons/year
*****************Facility sources: ****************************
** NMED source ID=7515EQPT1 Facility's ID=ENG-1
```

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** Description=Compressor Engine Construction date=08-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7515E1 POINT 646333.754 3561019.922 0
SO SRCPARAM 7515E1 .00252 4.57 1003.71 16.37 .28
** NMED source ID=7515EQPT2 Facility's ID=FL-1
** Description=Flare Pilot Emissions Construction date=08-SEP-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7515E2 POINT 646341.29 3561026.943 0
SO SRCPARAM 7515E2 .0002898 12.19 1273 20 20.806
** NMED source ID=7515EQPT5 Facility's ID=Heater-1
** Description=Heater Construction date=08-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7515E5 POINT 646334.504 3561030.495 0
SO SRCPARAM 7515E5 .00126 3.05 588.71 3.41 .3
** NMED source ID=7515EQPT6 Facility's ID=Heater-2
** Description=Heater Construction date=08-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7515E6 POINT 646326.907 3561028.403 0
SO SRCPARAM 7515E6 .00126 3.05 588.71 6.83 .3
**********END OF 7515: Harrier 35 Fed Com CTB
INFO************************************
************************************************************
** 8.16km away. Facility ID=33269 Name=Vaca 11 Fed Com No2H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1383, -103.5385, WGS84
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=33269EQPT1 Facility's ID=ECD
** Description=Enclosed Combustion device Construction date=01-JAN-20
** SCC=30600903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33269E1 POINT 637845.412 3556700.805 0
SO SRCPARAM 33269E1 .00126 6.64 1273 20 .7
** NMED source ID=33269EQPT14 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=29-MAY-14
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33269E14 POINT 637852.948 3556707.826 0
SO SRCPARAM 33269E14 .0002898 7.62 1273 20 1.22
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**********END OF 33269: Vaca 11 Fed Com No2H
INFO***********************************
************************************************************
** 8.33km away. Facility ID=32116 Name=Red Hills Enterprise Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.135833, -103.528611, WGS84
** Total Sulfur Dioxide emissions=2.61tons/year
*****************Facility sources: ******************************
** NMED source ID=32116EQPT5 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler Construction date=12-FEB-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32116E5 POINT 638781.946 3556440.014 0
SO SRCPARAM 32116E5 .00126 3.96 588.71 1.31 .3
** NMED source ID=32116EQPT12 Facility's ID=ENG-1
** Description=Caterpillar G3516B 4SLB Compressor Engine Construction date=12-FEB-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7686hr/yr, 21hr/day
SO LOCATION 32116E12 POINT 638789.482 3556447.035 0
SO SRCPARAM 32116E12 .0163797 6.71 812.59 33.68 .4
** NMED source ID=32116EQPT13 Facility's ID=ENG-2
** Description=Caterpillar G3516B 4SLB Compressor Engine Construction date=12-FEB-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7691hr/yr, 21hr/day
SO LOCATION 32116E13 POINT 638782.696 3556450.587 0
SO SRCPARAM 32116E13 .0163797 6.71 812.59 33.68 .4
** NMED source ID=32116EQPT15 Facility's ID=Heater-1
** Description=Separator Heater Construction date=27-MAR-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32116E15 POINT 638775.099 3556448.495 0
SO SRCPARAM 32116E15 .00126 3.96 588.71 1.31 .3
** NMED source ID=32116EQPT17 Facility's ID=ENG-3
** Description=Caterpillar G3606 A4 4SLB Compressor Engine Construction
date=17-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32116E17 POINT 638770.858 3556441.595 0
SO SRCPARAM 32116E17 .0201597 6.71 719.26 43.22 .4
** NMED source ID=32116EQPT18 Facility's ID=ENG-4
** Description=Caterpillar G3606 A4 4SLB Compressor Engine Construction
date=17-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32116E18 POINT 638772.51 3556433.441 0
SO SRCPARAM 32116E18 .0201597 6.71 719.26 43.22 .4
** NMED source ID=32116EQPT20 Facility's ID=FL-1
** Description=Flare Construction date=17-MAY-22
** SCC=30600903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32116E20 POINT 638779.459 3556428.479 0
SO SRCPARAM 32116E20 .0002898 12.19 1273 20 20.806
**********END OF 32116: Red Hills Enterprise Compressor Station
INFO**********************************
************************************************************
** 8.4km away. Facility ID=40265 Name=Honey Buzzard 35 State Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1714, -103.4477, WGS84
** Total Sulfur Dioxide emissions=2.66tons/year
*****************Facility sources: ****************************
** NMED source ID=40265EQPT1 Facility's ID=HTR-1
** Description=1.5 MM Btu/h Heater Treater Construction date=30-DEC-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40265E1 VOLUME 646357.43 3560490.227 0
SO SRCPARAM 40265E1 .00252 6.1 .47 .93
** NMED source ID=40265EQPT8 Facility's ID=FL-1
** Description=Process Flare Construction date=30-DEC-21
** SCC=30609903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40265E8 POINT 646364.966 3560497.248 0
SO SRCPARAM 40265E8 .0002898 12.19 1273 20 20.806
** NMED source ID=40265EQPT18 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=16-DEC-22
** SCC=30609903
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40265E18 POINT 646358.18 3560500.8 0
SO SRCPARAM 40265E18 .073356 12.19 1273 20 5.505
**********END OF 40265: Honey Buzzard 35 State Com CTB
INFO**********************************
************************************************************
** 8.45km away. Facility ID=32167 Name=EOG - Vaca 14 Fed No 3H, 4H & 6H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.136, -103.541, WGS84
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=32167EQPT2 Facility's ID=ENG-1
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```
** Description=Compressor Engine CAT G3306 NA Construction date=01-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32167E2 POINT 637613.05 3556442.627 0
SO SRCPARAM 32167E2 .0002898 3.41 867.04 24.35 .13
** NMED source ID=32167EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32167E3 POINT 637620.586 3556449.648 0
SO SRCPARAM 32167E3 .0002898 4.57 261.28 23.96 .15
**********END OF 32167: EOG - Vaca 14 Fed No 3H, 4H & 6H
INFO************************************
************************************************************
** 8.46km away. Facility ID=38462 Name=Dee Boot Fee CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.195, -103.436, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=38462EQPT1 Facility's ID=ENG-1
** Description=Gas Lift Compressor Construction date=11-JAN-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38462E1 POINT 647422.625 3563122.588 0
SO SRCPARAM 38462E1 .0002898 4.52 1000.37 50.22 .15
**********END OF 38462: Dee Boot Fee CTB INFO************************************
************************************************************
** 8.47km away. Facility ID=38314 Name=Mamba South CTB Production Facility
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.184, -103.6082, WGS84
** Total Sulfur Dioxide emissions=.55tons/year
*****************Facility sources: ******************************
** NMED source ID=38314EQPT15 Facility's ID=HTR-1
** Description=Heater 1.5 MMBtu/hr Construction date=06-JUL-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38314E15 POINT 631205.361 3561679.984 0
SO SRCPARAM 38314E15 .0037799 5.18 588.71 6.83 .3
** NMED source ID=38314EQPT16 Facility's ID=ENG-1
** Description=Compressor Engine CAT 1380-hp Construction date=06-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38314E16 POINT 631212.897 3561687.005 0
```

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SO SRCPARAM 38314E16 .0151198 7.01 806.48 59.04 .3
**********END OF 38314: Mamba South CTB Production Facility
INFO**********************************
************************************************************
** 8.62km away. Facility ID=40730 Name=Zion Compressor Station
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257089, -103.450687, WGS84
** Total Sulfur Dioxide emissions=6.44tons/year
*****************Facility sources: ****************************
** NMED source ID=40730EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=01-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E2 POINT 645938.799 3569985.978 0
SO SRCPARAM 40730E2 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40730EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=01-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E3 POINT 645946.335 3569992.999 0
SO SRCPARAM 40730E3 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40730EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=01-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E4 POINT 645939.549 3569996.551 0
SO SRCPARAM 40730E4 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40730EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=01-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E5 POINT 645931.952 3569994.459 0
SO SRCPARAM 40730E5 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40730EQPT7 Facility's ID=REB-1
** Description=Dehydrator Reboiler Construction date=01-DEC-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E7 POINT 645927.711 3569987.559 0
SO SRCPARAM 40730E7 .0050399 5.79 533.15 .07 .46
** NMED source ID=40730EQPT10 Facility's ID=VCU
** Description=Vapor Combustor Construction date=01-DEC-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40730E10 POINT 645929.363 3569979.405 0
SO SRCPARAM 40730E10 .0050399 7 730 28 .3
** NMED source ID=40730EQPT17 Facility's ID=FL-1 SSM
** Description=Flare Construction date=01-DEC-22
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40730E17 POINT 645936.312 3569974.443 0
SO SRCPARAM 40730E17 .0701935 22.86 1273 20 .61
**********END OF 40730: Zion Compressor Station
INFO**********************************
************************************************************
** 8.69km away. Facility ID=39254 Name=Getty 5 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1544, -103.588, WGS84
** Total Sulfur Dioxide emissions=.23tons/year
*****************Facility sources: ******************************
** NMED source ID=39254EQPT10 Facility's ID=HTR-1
** Description=1.5 MMBtu/hr Heater Construction date=13-DEC-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8741hr/yr, 24hr/day
SO LOCATION 39254E10 POINT 633152.853 3558423.349 0
SO SRCPARAM 39254E10 .00126 5.18 588.71 6.83 .3
** NMED source ID=39254EQPT11 Facility's ID=FracHTR-1
** Description=0.5 MMBtu/hr Heater Construction date=13-DEC-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39254E11 POINT 633160.389 3558430.37 0
SO SRCPARAM 39254E11 .0002898 5.18 588.71 2.29 .3
** NMED source ID=39254EQPT12 Facility's ID=FracENG-1
** Description=400 hp CG137-8 Caterpillar NG Engine Construction date=13-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39254E12 POINT 633153.603 3558433.922 0
SO SRCPARAM 39254E12 .00126 6.1 790.93 23.04 .2
** NMED source ID=39254EQPT13 Facility's ID=FracENG-2
** Description=400 hp CG137-8 Caterpillar NG Engine Construction date=13-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39254E13 POINT 633146.006 3558431.83 0
SO SRCPARAM 39254E13 .00126 6.1 790.93 23.04 .2
** NMED source ID=39254EQPT14 Facility's ID=FracENG-3
** Description=400 hp CG137-8 Caterpillar NG Engine Construction date=13-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39254E14 POINT 633141.765 3558424.93 0
SO SRCPARAM 39254E14 .00126 6.1 790.93 23.04 .2
**********END OF 39254: Getty 5 Fed Com CTB
INFO**********************************
************************************************************
** 8.86km away. Facility ID=40083 Name=EOG - Holyfield 9 Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1408, -103.4786, WGS84
** Total Sulfur Dioxide emissions=3.14tons/year
*****************Facility sources: ****************************
** NMED source ID=40083EQPT1 Facility's ID=HTR-1E
** Description=1.5 MMBtu/h Heater Treater  Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40083E1 VOLUME 643491.699 3557056.218 0
SO SRCPARAM 40083E1 .00126 4.88 .47 .93
** NMED source ID=40083EQPT2 Facility's ID=HTR-1W
** Description=1.5 MMBtu/h Heater Treater  Construction date=22-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40083E2 VOLUME 643499.235 3557063.239 0
SO SRCPARAM 40083E2 .00126 4.88 .47 .93
** NMED source ID=40083EQPT13 Facility's ID=FL-1E
** Description=Process Flare  3 MMscfd Construction date=22-JUL-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40083E13 POINT 643492.449 3557066.791 0
SO SRCPARAM 40083E13 .0250232 12.19 1273 20 20.806
** NMED source ID=40083EQPT14 Facility's ID=FL-2E
** Description=Separator Gas/Emergency Flare  30 MMscfd Construction date=22-JUL-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40083E14 POINT 643484.852 3557064.699 0
SO SRCPARAM 40083E14 .0195675 18.29 1273 20 2.632
** NMED source ID=40083EQPT15 Facility's ID=FL-1W
** Description=Process Flare  3 MMscfd Construction date=22-JUL-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40083E15 POINT 643480.611 3557057.799 0
SO SRCPARAM 40083E15 .0250232 12.19 1273 20 20.806
** NMED source ID=40083EQPT16 Facility's ID=FL-2W
** Description=Separator Gas/Emergency Flare  30 MMscfd Construction date=22-JUL-21
** SCC=31000160
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40083E16 POINT 643482.263 3557049.645 0
SO SRCPARAM 40083E16 .0195675 18.29 1273 20 2.632
**********END OF 40083: EOG - Holyfield 9 Fed CTB
INFO**********************************
************************************************************
** 8.93km away. Facility ID=33215 Name=Thistle North Central CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5424 NOI
** lat,long,datum=32.284, -103.562, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=33215EQPT12 Facility's ID=HT-2
** Description=Heater_EQ000171102 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33215E12 VOLUME 635412.602 3572823.459 0
SO SRCPARAM 33215E12 .0002898 9.14 .47 .93
** NMED source ID=33215EQPT15 Facility's ID=ECD-1
** Description=Combustor_EQ000171079 Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33215E15 POINT 635420.138 3572830.48 0
SO SRCPARAM 33215E15 .0002898 6.1 1273 20 3.604
** NMED source ID=33215EQPT19 Facility's ID=FL-1 SSM
** Description=Flare 1_EQ000171274 Construction date=01-JAN-15
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33215E19 POINT 635413.352 3572834.032 0
SO SRCPARAM 33215E19 .0002898 6.1 1273 20 20.806
**********END OF 33215: Thistle North Central CTB
INFO**********************************
************************************************************
** 9.04km away. Facility ID=30327 Name=Thistle Unit 20H CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4439 NOI
** lat,long,datum=32.282539, -103.568286, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=30327EQPT12 Facility's ID=ECD-1
** Description=Combustor 1_EQ000175945 Construction date=04-NOV-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 30327E12 POINT 634822.775 3572653.569 0
SO SRCPARAM 30327E12 .00126 6.1 1422.04 .72 .46
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** NMED source ID=30327EQPT14 Facility's ID=Flare 1_5939 SSM
** Description=Flare 1_EQ000175939 Construction date=27-JUL-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 30327E14 POINT 634830.311 3572660.59 0
SO SRCPARAM 30327E14 .0002898 6.1 1273 20 20.806
**********END OF 30327: Thistle Unit 20H CTB
INFO**********************************
************************************************************
** 9.1km away. Facility ID=6294 Name=Dingo CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.233, -103.431, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
****************Facility sources: ******************************
** NMED source ID=6294EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=18-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6294E1 POINT 647832.462 3567342.299 0
SO SRCPARAM 6294E1 .0002898 4.57 806.48 22.62 .2
** NMED source ID=6294EQPT4 Facility's ID=GEN-1
** Description=Generator Engine Construction date=18-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6294E4 POINT 647839.998 3567349.32 0
SO SRCPARAM 6294E4 .0002898 4.57 1005.37 27.31 .2
** NMED source ID=6294EQPT5 Facility's ID=GEN-2
** Description=Generator Engine Construction date=18-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6294E5 POINT 647833.212 3567352.872 0
SO SRCPARAM 6294E5 .0002898 4.57 1005.37 27.31 .2
** NMED source ID=6294EQPT6 Facility's ID=GEN-3
** Description=Generator Engine Construction date=18-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6294E6 POINT 647825.615 3567350.78 0
SO SRCPARAM 6294E6 .0002898 4.57 1005.37 27.31 .2
**********END OF 6294: Dingo CTB INFO**********************************
************************************************************
** 9.14km away. Facility ID=5701 Name=Betty 5 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.15573, -103.59618, WGS84
```

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** Total Sulfur Dioxide emissions=.21tons/year
*****************Facility sources: ****************************
** NMED source ID=5701EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5701E1 POINT 632379.481 3558560.701 0
SO SRCPARAM 5701E1 .0005796 3.96 803.71 58.52 .13
** NMED source ID=5701EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5701E2 POINT 632387.017 3558567.722 0
SO SRCPARAM 5701E2 .00126 3.96 1003.71 82.6 .13
** NMED source ID=5701EQPT4 Facility's ID=FL-1HP
** Description=Process Flare Construction date=12-JAN-24
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5701E4 POINT 632380.231 3558571.274 0
SO SRCPARAM 5701E4 .00126 12.19 1273 20 2.632
** NMED source ID=5701EQPT5 Facility's ID=HTR-1
** Description=Heater Treater Construction date=12-JAN-24
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5701E5 POINT 632372.634 3558569.182 0
SO SRCPARAM 5701E5 .0002898 4.88 588.71 .21 1.22
** NMED source ID=5701EQPT6 Facility's ID=HTR-2
** Description=Heater Treater Construction date=12-JAN-24
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5701E6 POINT 632368.393 3558562.282 0
SO SRCPARAM 5701E6 .0002898 4.88 588.71 .21 1.22
** NMED source ID=5701EQPT12 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=12-JAN-24
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5701E12 POINT 632370.045 3558554.128 0
SO SRCPARAM 5701E12 .0034523 12.19 1273 20 4.652
**********END OF 5701: Betty 5 Fed Com CTB INFO************************************
************************************************************
** 9.17km away. Facility ID=39517 Name=Antero 14 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1298, -103.5431, WGS84
```

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** Total Sulfur Dioxide emissions=.31tons/year
*****************Facility sources: ****************************
** NMED source ID=39517EQPT8 Facility's ID=FL-2
** Description=Emergency Flare Construction date=05-MAY-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39517E8 POINT 637424.257 3555752.611 0
SO SRCPARAM 39517E8 .00126 18.29 1273 20 2.632
** NMED source ID=39517EQPT9 Facility's ID=HTR-1
** Description=Heater Treater Construction date=05-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39517E9 POINT 637431.793 3555759.632 0
SO SRCPARAM 39517E9 .0002898 4.88 588.71 .21 1.22
** NMED source ID=39517EQPT10 Facility's ID=HTR-2
** Description=Heater Construction date=05-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39517E10 POINT 637425.007 3555763.184 0
SO SRCPARAM 39517E10 .0002898 4.88 588.71 .21 1.22
** NMED source ID=39517EQPT18 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=28-NOV-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39517E18 POINT 637417.41 3555761.092 0
SO SRCPARAM 39517E18 .0060353 12.19 1273 20 3.604
** NMED source ID=39517EQPT21 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=11-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39517E21 POINT 637413.169 3555754.192 0
SO SRCPARAM 39517E21 .0005796 3.96 803.71 59.13 .13
** NMED source ID=39517EQPT22 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=11-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39517E22 POINT 637414.821 3555746.038 0
SO SRCPARAM 39517E22 .00126 3.96 1003.71 82.6 .13
** NMED source ID=39517EQPT23 Facility's ID=HTR-3
** Description=Heater Construction date=11-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39517E23 POINT 637421.77 3555741.076 0
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SO SRCPARAM 39517E23 .0002898 4.88 588.71 .21 1.22
**********END OF 39517: Antero 14 Fed Com CTB
INFO**********************************
************************************************************
** 9.36km away. Facility ID=34175 Name=Cimarex Energy - Dos Equis 13 Federal 1H and
2H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.223961, -103.621961, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
****************Facility sources: ****************************
** NMED source ID=34175EQPT2 Facility's ID=H1
** Description=Heater Treater 0.5 MMBtu/hr Construction date=13-NOV-14
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8430hr/yr, 23hr/day
SO LOCATION 34175E2 VOLUME 629851.204 3566093.353 0
SO SRCPARAM 34175E2 .00126 4.57 .47 .93
** NMED source ID=34175EQPT3 Facility's ID=GLYEX
** Description=Glycol Reboiler, 2.0 MMBtu/hr Construction date=13-NOV-14
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34175E3 POINT 629858.74 3566100.374 0
SO SRCPARAM 34175E3 .00126 3.05 477.59 4.05 .15
** NMED source ID=34175EQPT13 Facility's ID=ENG4
** Description=Compressor Engine 415HP Construction date=27-MAR-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34175E13 POINT 629851.954 3566103.926 0
SO SRCPARAM 34175E13 .00126 4.27 864.82 32.37 .2
** NMED source ID=34175EQPT15 Facility's ID=H2
** Description=Heater Treater 0.5 MMBtu/hr Construction date=27-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8430hr/yr, 23hr/day
SO LOCATION 34175E15 VOLUME 629844.357 3566101.834 0
SO SRCPARAM 34175E15 .00126 4.57 .47 .93
**********END OF 34175: Cimarex Energy - Dos Equis 13 Federal 1H and 2H
INFO**********************************
************************************************************
** 9.42km away. Facility ID=39089 Name=EOG - Taipan Adder 31 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1706, -103.612, WGS84
** Total Sulfur Dioxide emissions=.59tons/year
****************Facility sources: ****************************
** NMED source ID=39089EQPT7 Facility's ID=Frac ENG-1
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39089E7 POINT 630866.272 3560189.833 0
SO SRCPARAM 39089E7 .0037799 6.1 790.93 23.04 .2
** NMED source ID=39089EQPT8 Facility's ID=Frac ENG-2
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39089E8 POINT 630873.808 3560196.854 0
SO SRCPARAM 39089E8 .0037799 6.1 790.93 23.04 .2
** NMED source ID=39089EQPT9 Facility's ID=Frac ENG-3
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39089E9 POINT 630867.022 3560200.406 0
SO SRCPARAM 39089E9 .0037799 6.1 790.93 23.04 .2
** NMED source ID=39089EQPT10 Facility's ID=Frac HTR-1
** Description=Heater, 0.5-MMBtu/hr Construction date=22-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39089E10 POINT 630859.425 3560198.314 0
SO SRCPARAM 39089E10 .00126 5.18 588.71 2.29 .3
** NMED source ID=39089EQPT11 Facility's ID=HTR-1
** Description=Heater, 1.5-MMBtu/hr Construction date=22-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6082hr/yr, 24hr/day
SO LOCATION 39089E11 POINT 630855.184 3560191.414 0
SO SRCPARAM 39089E11 .0037799 5.18 588.71 6.86 .3
**********END OF 39089: EOG - Taipan Adder 31 State CTB
INFO**********************************
************************************************************
** 9.43km away. Facility ID=40221 Name=Appaloosa 18 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1267, -103.51, WGS84
** Total Sulfur Dioxide emissions=.18tons/year
*****************Facility sources: ******************************
** NMED source ID=40221EQPT1 Facility's ID=HTR-1W
** Description=Heater Treater Construction date=12-NOV-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40221E1 VOLUME 640551.522 3555451.658 0
SO SRCPARAM 40221E1 .0002898 6.1 .47 .93
** NMED source ID=40221EQPT12 Facility's ID=HTR-1E
```

```
** Description=Heater Treater Construction date=10-MAY-22
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40221E12 VOLUME 640559.058 3555458.679 0
SO SRCPARAM 40221E12 .0002898 6.1 .47 .93
** NMED source ID=40221EQPT25 Facility's ID=FL-1E SSM
** Description=Flare Construction date=16-NOV-21
** SCC=30600903
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40221E25 POINT 640552.272 3555462.231 0
SO SRCPARAM 40221E25 .0017262 12.19 1273 20 2.632
** NMED source ID=40221EQPT26 Facility's ID=FL-1W SSM
** Description=Flare Construction date=16-NOV-21
** SCC=30600903
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40221E26 POINT 640544.675 3555460.139 0
SO SRCPARAM 40221E26 .0028728 12.19 1273 20 2.632
**********END OF 40221: Appaloosa 18 Fed Com CTB
INFO**********************************
************************************************************
** 9.44km away. Facility ID=31863 Name=XTO - Mis Amigos and Estancia Tank Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.254722, -103.609444, WGS84
** Total Sulfur Dioxide emissions=.09tons/year
*****************Facility sources: ******************************
** NMED source ID=31863EQPT20 Facility's ID=GEN1
** Description=Generator 581 hp Construction date=07-JUN-19
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31863E20 POINT 630986.608 3569518.743 0
SO SRCPARAM 31863E20 .00126 4.57 1005.37 215.25 .09
** NMED source ID=31863EQPT21 Facility's ID=GEN2
** Description=Generator 581 hp Construction date=07-JUN-19
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31863E21 POINT 630994.144 3569525.764 0
SO SRCPARAM 31863E21 .00126 4.57 1005.37 215.25 .09
** NMED source ID=31863EQPT22 Facility's ID=GEN3
** Description=Generator 581 hp Construction date=07-JUN-19
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31863E22 POINT 630987.358 3569529.316 0
SO SRCPARAM 31863E22 .00126 4.57 1005.37 215.25 .09
```

**********END OF 31863: XTO - Mis Amigos and Estancia Tank Battery
INFO**********
**********
** 9.45km away. Facility ID=38309 Name=Copperhead Compressor Station
** Company ID=265 Name=Targa Midstream Services LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.212128, -103.624164, WGS84
** Total Sulfur Dioxide emissions=21.41tons/year
**********Facility sources: **********
** NMED source ID=38309EQPT2 Facility's ID=H-1
** Description=3.0 MMBtu/hr Construction date=05-APR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7884hr/yr, 22hr/day
SO LOCATION 38309E2 POINT 629660.397 3564778.884 0
SO SRCPARAM 38309E2 .0314995 4.57 477.59 .52 1.07
** NMED source ID=38309EQPT13 Facility's ID=EM-1b
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E13 POINT 629667.933 3564785.905 0
SO SRCPARAM 38309E13 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT14 Facility's ID=EM-1a
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E14 POINT 629661.147 3564789.457 0
SO SRCPARAM 38309E14 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT15 Facility's ID=EM-2a
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E15 POINT 629653.55 3564787.365 0
SO SRCPARAM 38309E15 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT16 Facility's ID=EM-2b
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E16 POINT 629649.309 3564780.465 0
SO SRCPARAM 38309E16 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT17 Facility's ID=EM-3a
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E17 POINT 629650.961 3564772.311 0

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SO SRCPARAM 38309E17 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT18 Facility's ID=EM-3b
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E18 POINT 629657.91 3564767.349 0
SO SRCPARAM 38309E18 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT19 Facility's ID=EM-4b
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E19 POINT 629666.593 3564768.491 0
SO SRCPARAM 38309E19 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT20 Facility's ID=EM-4a
** Description=Diesel Generator Construction date=21-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E20 POINT 629672.303 3564775.419 0
SO SRCPARAM 38309E20 .00252 4.51 734.26 119.27 .2
** NMED source ID=38309EQPT21 Facility's ID=FLARE-Normal
** Description=Flare Construction date=21-NOV-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38309E21 POINT 629671.738 3564784.6 0
SO SRCPARAM 38309E21 .565731 6.1 1273 20 2.632
**********END OF 38309: Copperhead Compressor Station
INFO**********************************
************************************************************
** 9.5km away. Facility ID=38905 Name=Ruiz Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=4922 NAIC=48621    Permit=unknown
** lat,long,datum=32.143056, -103.5855, WGS84
** Total Sulfur Dioxide emissions=6.33tons/year
*****************Facility sources: ******************************
** NMED source ID=38905EQPT18 Facility's ID=ENG-1
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8228hr/yr, 24hr/day
SO LOCATION 38905E18 POINT 633405.15 3557168.851 0
SO SRCPARAM 38905E18 .0176397 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT20 Facility's ID=ENG-2
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7506hr/yr, 24hr/day
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SO LOCATION 38905E20 POINT 633412.686 3557175.872 0
SO SRCPARAM 38905E20 .0176397 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT21 Facility's ID=ENG-3
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7123hr/yr, 24hr/day
SO LOCATION 38905E21 POINT 633405.9 3557179.424 0
SO SRCPARAM 38905E21 .0176397 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT22 Facility's ID=ENG-4
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1306hr/yr, 24hr/day
SO LOCATION 38905E22 POINT 633398.303 3557177.332 0
SO SRCPARAM 38905E22 .0176397 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT23 Facility's ID=ENG-5
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E23 POINT 633394.062 3557170.432 0
SO SRCPARAM 38905E23 .0176397 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT24 Facility's ID=ENG-6
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E24 POINT 633395.714 3557162.278 0
SO SRCPARAM 38905E24 .0176397 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT25 Facility's ID=ENG-7
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E25 POINT 633402.663 3557157.316 0
SO SRCPARAM 38905E25 .0176397 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT26 Facility's ID=ENG-8
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E26 POINT 633411.346 3557158.458 0
SO SRCPARAM 38905E26 .0176397 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT27 Facility's ID=ENG-9
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E27 POINT 633417.056 3557165.386 0
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SO SRCPARAM 38905E27 .0176397 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT28 Facility's ID=ENG-10
** Description=Natural Gas Engine Cat G3516B 1380hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E28 POINT 633416.491 3557174.567 0
SO SRCPARAM 38905E28 .0176397 7.32 812.04 38.04 .38
** NMED source ID=38905EQPT32 Facility's ID=GEN-1
** Description=Natural Gas Generator CAT G3406 276 hp Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38905E32 POINT 633409.656 3557181.045 0
SO SRCPARAM 38905E32 .0037799 7.32 814.82 27.46 .38
**********END OF 38905: Ruiz Compressor Station
INFO**********************************
************************************************************
** 9.54km away. Facility ID=39575 Name=Bandit Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.1753, -103.6162, WGS84
** Total Sulfur Dioxide emissions=1.2tons/year
*****************Facility sources: ******************************
** NMED source ID=39575EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E1 POINT 630463.543 3560705.772 0
SO SRCPARAM 39575E1 .0037799 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E2 POINT 630471.079 3560712.793 0
SO SRCPARAM 39575E2 .0037799 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E3 POINT 630464.293 3560716.345 0
SO SRCPARAM 39575E3 .0037799 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39575E4 POINT 630456.696 3560714.253 0
SO SRCPARAM 39575E4 .0037799 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT5 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E5 POINT 630452.455 3560707.353 0
SO SRCPARAM 39575E5 .0037799 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT6 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E6 POINT 630454.107 3560699.199 0
SO SRCPARAM 39575E6 .0037799 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT7 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E7 POINT 630461.056 3560694.237 0
SO SRCPARAM 39575E7 .0037799 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT8 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E8 POINT 630469.739 3560695.379 0
SO SRCPARAM 39575E8 .0037799 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT9 Facility's ID=ENG-9
** Description=Caterpillar G3608LE 2500hp Construction date=25-JUN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E9 POINT 630475.449 3560702.307 0
SO SRCPARAM 39575E9 .0037799 8.84 704.26 26.06 .61
** NMED source ID=39575EQPT17 Facility's ID=FL-1
** Description=Process Flare Construction date=25-JUN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E17 POINT 630474.884 3560711.488 0
SO SRCPARAM 39575E17 .0050399 12.19 1273 20 .51
** NMED source ID=39575EQPT19 Facility's ID=RBL-1
** Description=Dehy Reboiler 2.0 MM BTU/h Construction date=25-JUN-20
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E19 POINT 630468.049 3560717.966 0
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SO SRCPARAM 39575E19 .0005796 6.1 588.71 .15 1.83
** NMED source ID=39575EQPT20 Facility's ID=HTR-1
** Description=Heater Treater Construction date=25-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39575E20 POINT 630458.413 3560718.043 0
SO SRCPARAM 39575E20 .0005796 6.1 588.71 .15 1.83
**********END OF 39575: Bandit Compressor Station
INFO**********************************
************************************************************
** 9.65km away. Facility ID=40015 Name=Dos Equis Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.237985, -103.621083, NAD83
** Total Sulfur Dioxide emissions=3.12tons/year
*****************Facility sources: ******************************
** NMED source ID=40015EQPT4 Facility's ID=ENG-2
** Description=Compressor Engine (1775 hp) 4SLB Construction date=17-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40015E4 POINT 629913.984 3567649.122 0
SO SRCPARAM 40015E4 .0176397 4.51 729.82 27.01 .24
** NMED source ID=40015EQPT5 Facility's ID=ENG-3
** Description=Compressor Engine (1775 hp) 4SLB Construction date=17-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40015E5 POINT 629921.52 3567656.143 0
SO SRCPARAM 40015E5 .0176397 4.51 729.82 27.01 .24
** NMED source ID=40015EQPT6 Facility's ID=ENG-4
** Description=Compressor Engine (1775 hp) 4SLB Construction date=17-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40015E6 POINT 629914.734 3567659.695 0
SO SRCPARAM 40015E6 .0176397 4.51 729.82 27.01 .24
** NMED source ID=40015EQPT7 Facility's ID=ENG-5
** Description=Compressor Engine (1775 hp) 4SLB Construction date=17-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40015E7 POINT 629907.137 3567657.603 0
SO SRCPARAM 40015E7 .0176397 4.51 729.82 27.01 .24
** NMED source ID=40015EQPT10 Facility's ID=RBL-1
** Description=Dehy Reboiler (1.0 MMBTU/hr) Construction date=17-JUN-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8641hr/yr, 24hr/day
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SO LOCATION 40015E10 POINT 629902.896 3567650.703 0
SO SRCPARAM 40015E10 .00126 3.05 588.71 1.98 .3
** NMED source ID=40015EQPT11 Facility's ID=RBL-2
** Description=Dehy Reboiler (1.0 MMBTU/hr) Construction date=17-JUN-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40015E11 POINT 629904.548 3567642.549 0
SO SRCPARAM 40015E11 .00126 3.05 588.71 1.98 .3
** NMED source ID=40015EQPT13 Facility's ID=ENG-6
** Description=Compressor Engine (1875 hp) 4SLB Construction date=30-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2190hr/yr, 6hr/day
SO LOCATION 40015E13 POINT 629911.497 3567637.587 0
SO SRCPARAM 40015E13 .0176397 4.51 729.82 27.01 .24
**********END OF 40015: Dos Equis Compressor Station
INFO**********************************
************************************************************
** 9.69km away. Facility ID=39553 Name=Bull Run Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1564, -103.6044, WGS84
** Total Sulfur Dioxide emissions=1.23tons/year
*****************Facility sources: ****************************
** NMED source ID=39553EQPT1 Facility's ID=RBL-1
** Description=Dehydrator Reboiler Construction date=17-JUN-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E1 POINT 631603.309 3558624.896 0
SO SRCPARAM 39553E1 .00126 6.1 588.71 .22 1.83
** NMED source ID=39553EQPT2 Facility's ID=HTR-1
** Description=Separator heater Construction date=17-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E2 POINT 631610.845 3558631.917 0
SO SRCPARAM 39553E2 .0005796 6.1 588.71 .15 1.83
** NMED source ID=39553EQPT13 Facility's ID=FL-1
** Description=process flare Construction date=17-JUN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E13 POINT 631604.059 3558635.469 0
SO SRCPARAM 39553E13 5.03992 6.1 1273 20 .51
** NMED source ID=39553EQPT21 Facility's ID=ENG-1
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
```

```
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E21 POINT 631596.462 3558633.377 0
SO SRCPARAM 39553E21 .00252 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT22 Facility's ID=ENG-2
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E22 POINT 631592.221 3558626.477 0
SO SRCPARAM 39553E22 .00252 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT23 Facility's ID=ENG-3
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E23 POINT 631593.873 3558618.323 0
SO SRCPARAM 39553E23 .00252 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT24 Facility's ID=ENG-4
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E24 POINT 631600.822 3558613.361 0
SO SRCPARAM 39553E24 .00252 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT25 Facility's ID=ENG-5
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E25 POINT 631609.505 3558614.503 0
SO SRCPARAM 39553E25 .00252 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT26 Facility's ID=ENG-6
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E26 POINT 631615.215 3558621.431 0
SO SRCPARAM 39553E26 .00252 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT27 Facility's ID=ENG-7
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E27 POINT 631614.65 3558630.612 0
SO SRCPARAM 39553E27 .00252 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT28 Facility's ID=ENG-8
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 39553E28 POINT 631607.815 3558637.09 0
SO SRCPARAM 39553E28 .00252 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT29 Facility's ID=ENG-9
** Description=Natural Gas Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E29 POINT 631598.179 3558637.167 0
SO SRCPARAM 39553E29 .00252 8.84 688.15 25.09 .61
** NMED source ID=39553EQPT30 Facility's ID=ENG-10
** Description=Compressor Engine Construction date=01-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39553E30 POINT 631590.918 3558630.501 0
SO SRCPARAM 39553E30 .0037799 8.84 849.26 15.88 .61
**********END OF 39553: Bull Run Compressor Station
INFO**********************************
************************************************************
** 9.71km away. Facility ID=33339 Name=Tumbling Dice 2 State Com No 1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1528, -103.4467, WGS84
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=33339EQPT4 Facility's ID=HTR-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5267hr/yr, 21hr/day
SO LOCATION 33339E4 VOLUME 646481.489 3558429.535 0
SO SRCPARAM 33339E4 .0002898 4.57 .47 .93
**********END OF 33339: Tumbling Dice 2 State Com No 1H
INFO**********************************
************************************************************
** 9.76km away. Facility ID=39528 Name=Devon- Danger Noodle 29 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.271288, -103.598597, NAD83
** Total Sulfur Dioxide emissions=.19tons/year
*****************Facility sources: ******************************
** NMED source ID=39528EQPT1 Facility's ID=HT-1
** Description=Heater Treater  3 MMBtu/hr Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E1 VOLUME 631984.471 3571368.563 0
SO SRCPARAM 39528E1 .0005796 9.14 .47 .93
** NMED source ID=39528EQPT2 Facility's ID=GEN-1
** Description=Generator 1 550 HP Construction date=06-MAY-20
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E2 POINT 631992.007 3571375.584 0
SO SRCPARAM 39528E2 .0002898 3.51 1005.37 77.48 .15
** NMED source ID=39528EQPT3 Facility's ID=GEN-2
** Description=Generator 2 550 HP Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E3 POINT 631985.221 3571379.136 0
SO SRCPARAM 39528E3 .0002898 3.51 1005.37 77.48 .15
** NMED source ID=39528EQPT4 Facility's ID=GEN-3
** Description=Generator 3 550 HP Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E4 POINT 631977.624 3571377.044 0
SO SRCPARAM 39528E4 .0002898 3.51 1005.37 77.48 .15
** NMED source ID=39528EQPT7 Facility's ID=FL-1
** Description=Flare 15.5 MM SCF/d Construction date=06-MAY-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E7 POINT 631973.383 3571370.144 0
SO SRCPARAM 39528E7 .0138598 12.19 1273 20 18.61
** NMED source ID=39528EQPT16 Facility's ID=HT-2
** Description=Heater Treater  3 MMBtu/hr Construction date=25-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39528E16 VOLUME 631975.035 3571361.99 0
SO SRCPARAM 39528E16 .0005796 9.14 .47 .93
**********END OF 39528: Devon- Danger Noodle 29 CTB 1
INFO**********************************
************************************************************
** 9.78km away. Facility ID=39794 Name=Devon - Bell Lake 24 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.200308, -103.626987, NAD83
** Total Sulfur Dioxide emissions=.13tons/year
*****************Facility sources: ******************************
** NMED source ID=39794EQPT1 Facility's ID=FL-1
** Description=Flare, 15.5 MMSCFD Construction date=18-FEB-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39794E1 POINT 629411.071 3563465.117 0
SO SRCPARAM 39794E1 .0100798 12.19 1273 20 13.484
** NMED source ID=39794EQPT3 Facility's ID=HT-1
```

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** Description=Heater Treater Construction date=16-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39794E3 VOLUME 629418.607 3563472.138 0
SO SRCPARAM 39794E3 .0005796 9.14 .47 .93
**********END OF 39794: Devon - Bell Lake 24 CTB 3
INFO**********************************
************************************************************
** 9.86km away. Facility ID=38552 Name=EOG - Caballo Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.124931, -103.550833, WGS84
** Total Sulfur Dioxide emissions=17.23tons/year
*****************Facility sources: ******************************
** NMED source ID=38552EQPT1 Facility's ID=ENG-2
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8227hr/yr, 23hr/day
SO LOCATION 38552E1 POINT 636702.024 3555202.991 0
SO SRCPARAM 38552E1 .0612602 8.53 719.26 27.43 .51
** NMED source ID=38552EQPT2 Facility's ID=ENG-4
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8667hr/yr, 24hr/day
SO LOCATION 38552E2 POINT 636709.56 3555210.012 0
SO SRCPARAM 38552E2 .0581506 8.53 719.26 27.43 .51
** NMED source ID=38552EQPT3 Facility's ID=ENG-5
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8634hr/yr, 24hr/day
SO LOCATION 38552E3 POINT 636702.774 3555213.564 0
SO SRCPARAM 38552E3 .0583724 8.53 719.26 27.43 .51
** NMED source ID=38552EQPT4 Facility's ID=ENG-6
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38552E4 POINT 636695.177 3555211.472 0
SO SRCPARAM 38552E4 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38552EQPT8 Facility's ID=Heater-1
** Description=Separator Heater Construction date=01-AUG-18
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38552E8 POINT 636690.936 3555204.572 0
SO SRCPARAM 38552E8 .0037799 7 730 28 .3
```

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** NMED source ID=38552EQPT9 Facility's ID=Flare-1
** Description=Process Flare Construction date=01-AUG-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38552E9 POINT 636692.588 3555196.418 0
SO SRCPARAM 38552E9 .0251996 6 1273 20 2.632
** NMED source ID=38552EQPT10 Facility's ID=ENG-3
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7494hr/yr, 21hr/day
SO LOCATION 38552E10 POINT 636699.537 3555191.456 0
SO SRCPARAM 38552E10 .0672527 8.53 719.26 27.43 .51
** NMED source ID=38552EQPT16 Facility's ID=Reboiler-1
** Description=Reboiler Dehydrator Construction date=01-AUG-18
** SCC=31000227
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38552E16 POINT 636708.22 3555192.598 0
SO SRCPARAM 38552E16 .0062999 7 730 28 .3
** NMED source ID=38552EQPT17 Facility's ID=ENG-1
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38552E17 POINT 636713.93 3555199.526 0
SO SRCPARAM 38552E17 .0768588 8.53 719.26 27.43 .51
**********END OF 38552: EOG - Caballo Localized Gas Lift Station
INFO***********************************
************************************************************
** 9.87km away. Facility ID=38015 Name=Devon - Thistle Unit 22 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.295333, -103.554583, NAD83
** Total Sulfur Dioxide emissions=.11tons/year
*****************Facility sources: ****************************
** NMED source ID=38015EQPT12 Facility's ID=FL-1
** Description=15.5 MMscf/d Process & Stranded Gas Flare Construction date=20-DEC-18
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38015E12 POINT 636094.17 3574089.257 0
SO SRCPARAM 38015E12 .0125998 12.19 1273 20 17.408
**********END OF 38015: Devon - Thistle Unit 22 CTB 2
INFO***********************************
************************************************************
** 9.89km away. Facility ID=7643 Name=Silver Train 17 Fed Com West CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
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** lat,long,datum=32.126333, -103.490483, WGS84
** Total Sulfur Dioxide emissions=.19tons/year
*****************Facility sources: ******************************
** NMED source ID=7643EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=14-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7643E1 POINT 642393.314 3555436.607 0
SO SRCPARAM 7643E1 .00252 4.88 1000.37 14.94 .28
** NMED source ID=7643EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=14-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7643E2 POINT 642400.85 3555443.628 0
SO SRCPARAM 7643E2 .00252 4.57 803.71 22.07 .2
** NMED source ID=7643EQPT3 Facility's ID=FL-1 HP SSM
** Description=SSM Flare Construction date=14-NOV-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7643E3 POINT 642394.064 3555447.18 0
SO SRCPARAM 7643E3 .00126 12.19 1273 20 20.806
** NMED source ID=7643EQPT5 Facility's ID=Heater-1
** Description=Heater Treater Construction date=14-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7643E5 VOLUME 642386.467 3555445.088 0
SO SRCPARAM 7643E5 .0005796 3.96 .47 .93
** NMED source ID=7643EQPT6 Facility's ID=Heater-2
** Description=Heater Treater Construction date=14-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7643E6 VOLUME 642382.226 3555438.188 0
SO SRCPARAM 7643E6 .00126 5.18 .47 .93
**********END OF 7643: Silver Train 17 Fed Com West CTB
INFO**********************************
************************************************************
** 9.97km away. Facility ID=40980 Name=Supreme Federal 21M CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9905 NOI
** lat,long,datum=32.285524, -103.581822, WGS84
** Total Sulfur Dioxide emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=40980EQPT11 Facility's ID=TURB-01
** Description=Turbine Construction date=28-MAR-23
** SCC=20200201
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40980E11 POINT 633543.617 3572967.557 0
SO SRCPARAM 40980E11 .00126 7.16 873.15 46.24 .46
** NMED source ID=40980EQPT12 Facility's ID=TURB-02
** Description=Turbine Construction date=28-MAR-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40980E12 POINT 633551.153 3572974.578 0
SO SRCPARAM 40980E12 .0002898 4.97 537.04 11.46 .46
** NMED source ID=40980EQPT13 Facility's ID=TURB-03
** Description=Turbine Construction date=28-MAR-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40980E13 POINT 633544.367 3572978.13 0
SO SRCPARAM 40980E13 .0002898 4.97 537.04 11.46 .46
**********END OF 40980: Supreme Federal 21M CTB
INFO**********************************
************************************************************
** 9.98km away. Facility ID=40084 Name=EOG - Streetcar Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1284, -103.5662, WGS84
** Total Sulfur Dioxide emissions=8.36tons/year
*****************Facility sources: ******************************
** NMED source ID=40084EQPT9 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler, 2.0 MMBtu/hr Construction date=23-JUL-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E9 POINT 635247.18 3555568.165 0
SO SRCPARAM 40084E9 .0037799 3.96 588.71 5.3 .3
** NMED source ID=40084EQPT10 Facility's ID=Heater-1
** Description=Seperator heater, 0.75 MMBtu/hr Construction date=23-JUL-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E10 VOLUME 635254.716 3555575.186 0
SO SRCPARAM 40084E10 .00126 3.96 .47 .93
** NMED source ID=40084EQPT11 Facility's ID=ENG-1
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E11 POINT 635247.93 3555578.738 0
SO SRCPARAM 40084E11 .0264596 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT12 Facility's ID=ENG-2
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E12 POINT 635240.333 3555576.646 0
SO SRCPARAM 40084E12 .0264596 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT13 Facility's ID=ENG-3
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E13 POINT 635236.092 3555569.746 0
SO SRCPARAM 40084E13 .0264596 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT14 Facility's ID=ENG-4
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E14 POINT 635237.744 3555561.592 0
SO SRCPARAM 40084E14 .0264596 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT15 Facility's ID=ENG-5
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E15 POINT 635244.693 3555556.63 0
SO SRCPARAM 40084E15 .0264596 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT16 Facility's ID=ENG-6
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E16 POINT 635253.376 3555557.772 0
SO SRCPARAM 40084E16 .0264596 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT17 Facility's ID=ENG-7
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E17 POINT 635259.086 3555564.7 0
SO SRCPARAM 40084E17 .0264596 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT18 Facility's ID=ENG-8
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E18 POINT 635258.521 3555573.881 0
SO SRCPARAM 40084E18 .0264596 6.1 712.59 46.02 .46
** NMED source ID=40084EQPT19 Facility's ID=ENG-9
** Description=NG Caterpillar Engine, G3608, 2500 hp Construction date=23-JUL-21
** SCC=20200254
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40084E19 POINT 635251.686 3555580.359 0
SO SRCPARAM 40084E19 .0264596 6.1 712.59 46.02 .46
**********END OF 40084: EOG - Streetcar Compressor Station
INFO**********************************
************************************************************
** 10.03km away. Facility ID=6434 Name=Shurvesa Booster Station
** Company ID=14250 Name=ETP Crude LLC
** SIC=4612 NAIC=48611    Permit=10026 NOI
** lat,long,datum=32.24171, -103.623783, NAD83
** Total Sulfur Dioxide emissions=.24tons/year
*****************Facility sources: ******************************
** NMED source ID=6434EQPT2 Facility's ID=GEN-1
** Description=Diesel generator Construction date=07-DEC-23
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6434E2 POINT 629654.292 3568058.814 0
SO SRCPARAM 6434E2 .00252 2.87 705.37 34.5 .25
** NMED source ID=6434EQPT3 Facility's ID=GEN-2
** Description=Diesel generator Construction date=07-DEC-23
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6434E3 POINT 629661.828 3568065.835 0
SO SRCPARAM 6434E3 .00252 2.87 705.37 34.5 .25
** NMED source ID=6434EQPT4 Facility's ID=GEN-3
** Description=Diesel generator Construction date=07-DEC-23
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6434E4 POINT 629655.042 3568069.387 0
SO SRCPARAM 6434E4 .00252 2.87 705.37 34.5 .25
**********END OF 6434: Shurvesa Booster Station
INFO**********************************
************************************************************
** 10.04km away. Facility ID=39298 Name=Dos Equis 12-13 Fed 5H 6H 73H 86H Facility
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.23617, -103.62615, WGS84
** Total Sulfur Dioxide emissions=.39tons/year
*****************Facility sources: ******************************
** NMED source ID=39298EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=14-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E1 VOLUME 629439.134 3567441.791 0
SO SRCPARAM 39298E1 .00126 4.57 .47 .93
```

```
** NMED source ID=39298EQPT2 Facility's ID=HTR-2
** Description=Heater Treater Construction date=14-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E2 VOLUME 629446.67 3567448.812 0
SO SRCPARAM 39298E2 .00126 4.57 .47 .93
** NMED source ID=39298EQPT5 Facility's ID=Flare 1
** Description=Flare Construction date=14-JAN-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E5 POINT 629439.884 3567452.364 0
SO SRCPARAM 39298E5 .00126 12.19 1273 20 .53
** NMED source ID=39298EQPT13 Facility's ID=Flare 1 SSM
** Description=Flare Construction date=06-APR-20
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E13 POINT 629432.287 3567450.272 0
SO SRCPARAM 39298E13 .0066149 12.19 1273 20 .53
** NMED source ID=39298EQPT14 Facility's ID=Flare 2 SSM
** Description=High Pressure Flare Construction date=06-APR-20
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39298E14 POINT 629428.046 3567443.372 0
SO SRCPARAM 39298E14 .0023058 15.24 1273 20 2.632
**********END OF 39298: Dos Equis 12-13 Fed 5H 6H 73H 86H Facility
INFO**********************************
************************************************************
** 10.06km away. Facility ID=38670 Name=Thistle Unit 22 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=8043 NOI
** lat,long,datum=32.296528, -103.556944, NAD83
** Total Sulfur Dioxide emissions=1.01tons/year
*****************Facility sources: ****************************
** NMED source ID=38670EQPT1 Facility's ID=Engine_6370
** Description=Engine_EQ000246370 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7584hr/yr, 24hr/day
SO LOCATION 38670E1 POINT 635870.065 3574218.744 0
SO SRCPARAM 38670E1 .0287653 4.39 790.93 14.04 .26
** NMED source ID=38670EQPT2 Facility's ID=ENG 3
** Description=Engine 3 Construction date=24-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38670E2 POINT 635877.601 3574225.765 0
```

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SO SRCPARAM 38670E2 .0002898 5.85 772.59 31.91 .27
**********END OF 38670: Thistle Unit 22 Wellpad 2
INFO**********************************
************************************************************
** 10.07km away. Facility ID=36055 Name=Thistle Unit 22 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6532 NOI
** lat,long,datum=32.295608, -103.560217, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=36055EQPT15 Facility's ID=FL-1
** Description=Flare 1_EQ000061315 Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36055E15 POINT 635563.239 3574112.606 0
SO SRCPARAM 36055E15 .00126 6.1 1273 20 2.632
** NMED source ID=36055EQPT16 Facility's ID=FL-1 SSM
** Description=Flare 1_EQ000061315 Construction date=01-SEP-16
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36055E16 POINT 635570.775 3574119.627 0
SO SRCPARAM 36055E16 .0002898 6.1 1273 20 20.806
**********END OF 36055: Thistle Unit 22 CTB 1
INFO**********************************
************************************************************
** 10.1km away. Facility ID=35592 Name=Brininstool Compressor Station
** Company ID=265 Name=Targa Midstream Services LLC
** SIC=1311 NAIC=21112    Permit=6317 Title V
** lat,long,datum=32.300228, -103.540425, WGS84
** Total Sulfur Dioxide emissions=12.43tons/year
*****************Facility sources: ****************************
** NMED source ID=35592EQPT11 Facility's ID=F-01
** Description=Process Flare Construction date=24-AUG-15
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E11 POINT 637419.961 3574649.994 0
SO SRCPARAM 35592E11 .2179765 12.19 1273 20 2.632
** NMED source ID=35592EQPT30 Facility's ID=C-09
** Description=1478 hp Waukesha RICE 4SRB Construction date=03-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8193hr/yr, 22hr/day
SO LOCATION 35592E30 POINT 637427.497 3574657.015 0
SO SRCPARAM 35592E30 .0008568 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT31 Facility's ID=C-10
** Description=1478 hp Waukesha RICE 4SRB Construction date=03-JAN-20
** SCC=20200253
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8299hr/yr, 23hr/day
SO LOCATION 35592E31 POINT 637420.711 3574660.567 0
SO SRCPARAM 35592E31 .0008568 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT32 Facility's ID=C-02a
** Description=1478 hp Waukesha RICE 4SRB Construction date=10-JUL-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8246hr/yr, 23hr/day
SO LOCATION 35592E32 POINT 637413.114 3574658.475 0
SO SRCPARAM 35592E32 .0008568 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT33 Facility's ID=C-01a
** Description=1478 hp Waukesha RICE 4SRB Construction date=16-NOV-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8207hr/yr, 22hr/day
SO LOCATION 35592E33 POINT 637408.873 3574651.575 0
SO SRCPARAM 35592E33 .0008568 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT34 Facility's ID=C-08a
** Description=1478 hp Waukesha RICE 4SRB Construction date=25-FEB-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8162hr/yr, 22hr/day
SO LOCATION 35592E34 POINT 637410.525 3574643.421 0
SO SRCPARAM 35592E34 .0008568 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT35 Facility's ID=C-13
** Description=1478 hp Waukesha RICE 4SRB Construction date=18-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E35 POINT 637417.474 3574638.459 0
SO SRCPARAM 35592E35 .0008568 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT39 Facility's ID=C-11
** Description=1875 hp Waukesha RICE 4SLB Construction date=18-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4321hr/yr, 12hr/day
SO LOCATION 35592E39 POINT 637426.157 3574639.601 0
SO SRCPARAM 35592E39 .0008568 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT40 Facility's ID=C-12
** Description=1875 hp Waukesha RICE 4SLB Construction date=18-MAR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E40 POINT 637431.867 3574646.529 0
SO SRCPARAM 35592E40 .0008568 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT41 Facility's ID=C-07a
** Description=1478 hp Waukesha RICE 4SRB Construction date=29-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E41 POINT 637431.302 3574655.71 0
SO SRCPARAM 35592E41 .0008568 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT42 Facility's ID=C-03
** Description=1478 hp Waukesha RICE 4SRB Construction date=06-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E42 POINT 637424.467 3574662.188 0
SO SRCPARAM 35592E42 .0008568 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT43 Facility's ID=C-05a
** Description=1478 hp Waukesha RICE 4SRB Construction date=13-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E43 POINT 637414.831 3574662.265 0
SO SRCPARAM 35592E43 .0008568 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT45 Facility's ID=C-04
** Description=1478 hp Waukesha RICE 4SRB Construction date=12-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E45 POINT 637407.57 3574655.599 0
SO SRCPARAM 35592E45 .0008568 12.19 880.93 63.98 .3
** NMED source ID=35592EQPT46 Facility's ID=C-06
** Description=1478 hp Waukesha RICE 4SRB Construction date=01-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35592E46 POINT 637406.79 3574645.553 0
SO SRCPARAM 35592E46 .0008568 12.19 880.93 63.98 .3
** NMED source ID=35592RPNT3 Facility's ID=SSM
** Description=Startup, Shutdown, Maintenance Construction date=24-AUG-15
** SCC=31088811
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35592R3 POINT 637413.208 3574637.502 0
SO SRCPARAM 35592R3 6.3250996 2.5 572.6 15 .1
**********END OF 35592: Brininstool Compressor Station
INFO**********************************
************************************************************
** 10.16km away. Facility ID=33093 Name=Double X 25 Federal 4H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=5340 NOI
** lat,long,datum=32.195019, -103.630211, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=33093EQPT5 Facility's ID=H1
** Description=Heater 0.5 MMBTU/h Construction date=24-SEP-14
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6338hr/yr, 17hr/day
SO LOCATION 33093E5 POINT 629114.644 3562874.903 0
SO SRCPARAM 33093E5 .0002898 4.57 810.93 5.26 .15
** NMED source ID=33093EQPT19 Facility's ID=Flare 1 Normal
** Description=Flare (Normal) Construction date=26-JAN-16
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6338hr/yr, 17hr/day
SO LOCATION 33093E19 POINT 629122.18 3562881.924 0
SO SRCPARAM 33093E19 .0002898 8.23 1273 20 20.806
** NMED source ID=33093EQPT23 Facility's ID=ENG 1
** Description=Compressor Engine Construction date=13-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33093E23 POINT 629115.394 3562885.476 0
SO SRCPARAM 33093E23 .0002898 4.57 1014.82 253.53 .15
**********END OF 33093: Double X 25 Federal 4H
INFO**********************************
************************************************************
** 10.16km away. Facility ID=40288 Name=EOG - Genie Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1266, -103.4816, WGS84
** Total Sulfur Dioxide emissions=8.38tons/year
*****************Facility sources: ******************************
** NMED source ID=40288EQPT2 Facility's ID=ENG-1
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E2 POINT 643230.919 3555477.986 0
SO SRCPARAM 40288E2 .0264596 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT3 Facility's ID=ENG-2
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E3 POINT 643238.455 3555485.007 0
SO SRCPARAM 40288E3 .0264596 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT4 Facility's ID=ENG-3
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E4 POINT 643231.669 3555488.559 0
SO SRCPARAM 40288E4 .0264596 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT5 Facility's ID=ENG-4
** Description=Natural gas Engine Construction date=23-DEC-21
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E5 POINT 643224.072 3555486.467 0
SO SRCPARAM 40288E5 .0264596 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT6 Facility's ID=ENG-5
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E6 POINT 643219.831 3555479.567 0
SO SRCPARAM 40288E6 .0264596 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT7 Facility's ID=ENG-6
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E7 POINT 643221.483 3555471.413 0
SO SRCPARAM 40288E7 .0264596 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT8 Facility's ID=ENG-7
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E8 POINT 643228.432 3555466.451 0
SO SRCPARAM 40288E8 .0264596 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT9 Facility's ID=ENG-8
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E9 POINT 643237.115 3555467.593 0
SO SRCPARAM 40288E9 .0264596 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT10 Facility's ID=ENG-9
** Description=Natural gas Engine Construction date=23-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E10 POINT 643242.825 3555474.521 0
SO SRCPARAM 40288E10 .0264596 6.1 712.04 46.33 .46
** NMED source ID=40288EQPT11 Facility's ID=FL-1
** Description=Flare-NO-Pilot Construction date=23-DEC-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E11 POINT 643242.26 3555483.702 0
SO SRCPARAM 40288E11 .0002898 12.19 1273 20 2.632
** NMED source ID=40288EQPT12 Facility's ID=FL-1-SSM
** Description=Flare-SSM Construction date=23-DEC-21
** SCC=31000160
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E12 POINT 643235.425 3555490.18 0
SO SRCPARAM 40288E12 .0002898 12.19 1273 20 20.806
** NMED source ID=40288EQPT13 Facility's ID=Heater-1
** Description=Heater Treater Construction date=23-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E13 VOLUME 643225.789 3555490.257 0
SO SRCPARAM 40288E13 .00126 3.96 .47 .93
** NMED source ID=40288EQPT15 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler Construction date=23-DEC-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40288E15 POINT 643218.528 3555483.591 0
SO SRCPARAM 40288E15 .0037799 3.96 588.71 5.27 .3
**********END OF 40288: EOG - Genie Compressor Station
INFO**********************************
************************************************************
** 10.21km away. Facility ID=38124 Name=Streetcar 15 Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.12386, -103.55911, WGS84
** Total Sulfur Dioxide emissions=.31tons/year
*****************Facility sources: ******************************
** NMED source ID=38124EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38124E1 POINT 635922.758 3555073.785 0
SO SRCPARAM 38124E1 .0005796 3.96 803.71 58.52 .13
** NMED source ID=38124EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38124E2 POINT 635930.294 3555080.806 0
SO SRCPARAM 38124E2 .00126 3.96 1003.71 82.6 .13
** NMED source ID=38124EQPT4 Facility's ID=FL-2
** Description=Emergency Flare Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38124E4 POINT 635923.508 3555084.358 0
SO SRCPARAM 38124E4 .00126 18.29 1273 20 2.632
** NMED source ID=38124EQPT5 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38124E5 VOLUME 635915.911 3555082.266 0
SO SRCPARAM 38124E5 .0002898 4.88 .47 .93
** NMED source ID=38124EQPT19 Facility's ID=HTR-2
** Description=Heater Treater Construction date=02-NOV-17
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38124E19 VOLUME 635911.67 3555075.366 0
SO SRCPARAM 38124E19 .0002898 7.32 .47 .93
** NMED source ID=38124EQPT20 Facility's ID=HTR-3
** Description=Heater Treater Construction date=16-JAN-24
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38124E20 VOLUME 635913.322 3555067.212 0
SO SRCPARAM 38124E20 .0002898 4.88 .47 .93
** NMED source ID=38124EQPT21 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=26-DEC-17
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38124E21 POINT 635920.271 3555062.25 0
SO SRCPARAM 38124E21 .0060353 15.24 1273 20 .86
**********END OF 38124: Streetcar 15 Fed CTB
INFO**********************************
************************************************************
** 10.22km away. Facility ID=41024 Name=North Thistle 15 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9944 NOI
** lat,long,datum=32.298772, -103.55388, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=41024EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=07-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41024E1 POINT 636155.225 3574471.407 0
SO SRCPARAM 41024E1 .0002898 4.39 778.71 13.8 .26
** NMED source ID=41024EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=07-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41024E2 POINT 636162.761 3574478.428 0
SO SRCPARAM 41024E2 .0002898 4.39 778.71 13.8 .26
**********END OF 41024: North Thistle 15 Wellpad 3
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INFO***********************************
************************************************************
** 10.23km away. Facility ID=38914 Name=Oryx Delaware - Highway 128 Station
** Company ID=13566 Name=Oryx Delaware Oil Transport LLC
** SIC=4612 NAIC=48611    Permit=8259 NOI
** lat,long,datum=32.143528, -103.449564, WGS84
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=38914EQPT1 Facility's ID=GEN-1
** Description=PSI D146TIC 362 hp generator engine Construction date=01-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5856hr/yr, 24hr/day
SO LOCATION 38914E1 POINT 646226.18 3557397.72 0
SO SRCPARAM 38914E1 .0002898 3 1005.37 50.29 .09
** NMED source ID=38914EQPT2 Facility's ID=GEN-2
** Description=PSI D146TIC 362 hp generator engine Construction date=01-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5856hr/yr, 24hr/day
SO LOCATION 38914E2 POINT 646233.716 3557404.741 0
SO SRCPARAM 38914E2 .0002898 3 1005.37 50.29 .09
** NMED source ID=38914EQPT3 Facility's ID=GEN-3
** Description=PSI D146TIC 362 hp generator engine Construction date=01-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5856hr/yr, 24hr/day
SO LOCATION 38914E3 POINT 646226.93 3557408.293 0
SO SRCPARAM 38914E3 .0002898 3 1005.37 50.29 .09
** NMED source ID=38914EQPT4 Facility's ID=GEN-4
** Description=PSI D146TIC 362 hp generator engine Construction date=01-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5856hr/yr, 24hr/day
SO LOCATION 38914E4 POINT 646219.333 3557406.201 0
SO SRCPARAM 38914E4 .0002898 3 1005.37 50.29 .09
**********END OF 38914: Oryx Delaware - Highway 128 Station
INFO***********************************
************************************************************
** 10.35km away. Facility ID=37891 Name=Limestone Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.267782, -103.437279, NAD83
** Total Sulfur Dioxide emissions=17tons/year
*****************Facility sources: ******************************
** NMED source ID=37891EQPT2 Facility's ID=ENG-1
** Description=Caterpillar G3516B, 1380 hp Construction date=04-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7517hr/yr, 21hr/day
```

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SO LOCATION 37891E2 POINT 647184.648 3571189.77 0
SO SRCPARAM 37891E2 .0287653 6.71 721.48 52.7 .3
** NMED source ID=37891EQPT3 Facility's ID=ENG-3
** Description=Caterpillar G3516B, 1380 hp Construction date=04-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7860hr/yr, 22hr/day
SO LOCATION 37891E3 POINT 647192.184 3571196.791 0
SO SRCPARAM 37891E3 .0287653 6.71 721.48 52.7 .3
** NMED source ID=37891EQPT4 Facility's ID=ENG-2
** Description=Caterpillar G3516B, 1380 hp Construction date=04-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8520hr/yr, 23hr/day
SO LOCATION 37891E4 POINT 647185.398 3571200.343 0
SO SRCPARAM 37891E4 .0287653 6.71 721.48 52.7 .3
** NMED source ID=37891EQPT7 Facility's ID=ENG-4
** Description=Caterpillar G3516B, 1380 hp Construction date=04-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37891E7 POINT 647177.801 3571198.251 0
SO SRCPARAM 37891E7 .0287653 6.71 721.48 52.7 .3
** NMED source ID=37891EQPT8 Facility's ID=ENG-5
** Description=Caterpillar G3516B, 1380 hp Construction date=04-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37891E8 POINT 647173.56 3571191.351 0
SO SRCPARAM 37891E8 .0287653 6.71 721.48 52.7 .3
** NMED source ID=37891EQPT9 Facility's ID=ENG-6
** Description=Caterpillar G3516B, 1380 hp Construction date=04-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37891E9 POINT 647175.212 3571183.197 0
SO SRCPARAM 37891E9 .0287653 6.71 721.48 52.7 .3
** NMED source ID=37891EQPT10 Facility's ID=ENG-7
** Description=Caterpillar G3606, 1875 hp Construction date=04-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37891E10 POINT 647182.161 3571178.235 0
SO SRCPARAM 37891E10 .0201345 7.01 706.48 34.08 .46
** NMED source ID=37891EQPT11 Facility's ID=ENG-8
** Description=Caterpillar G3606, 1875 hp Construction date=04-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37891E11 POINT 647190.844 3571179.377 0
```

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SO SRCPARAM 37891E11 .0201345 7.01 706.48 34.08 .46
** NMED source ID=37891EQPT13 Facility's ID=FLARE
** Description=Control Flare Construction date=04-FEB-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37891E13 POINT 647196.554 3571186.305 0
SO SRCPARAM 37891E13 .2746756 6.1 1273 20 20.806
**********END OF 37891: Limestone Compressor Station
INFO**********************************
************************************************************
** 10.4km away. Facility ID=41032 Name=North Thistle 15 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9946 NOI
** lat,long,datum=32.298777, -103.56021, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=41032EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=08-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41032E1 POINT 635559.18 3574463.939 0
SO SRCPARAM 41032E1 .0002898 4.39 790.93 14.04 .26
** NMED source ID=41032EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=08-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41032E2 POINT 635566.716 3574470.96 0
SO SRCPARAM 41032E2 .0002898 4.39 778.71 13.8 .26
**********END OF 41032: North Thistle 15 Wellpad 2
INFO**********************************
************************************************************
** 10.43km away. Facility ID=40305 Name=EOG - Driver 14 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3024, -103.5456, WGS84
** Total Sulfur Dioxide emissions=.09tons/year
*****************Facility sources: ******************************
** NMED source ID=40305EQPT1 Facility's ID=HT-1
** Description=Heater Treater, 1.5 MMBty/hr Construction date=02-FEB-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40305E1 VOLUME 636929.419 3574884.166 0
SO SRCPARAM 40305E1 .00126 5.18 .47 .93
** NMED source ID=40305EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine, Cat G3606TALE (1875hp) Construction date=02-FEB-22
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40305E2 POINT 636936.955 3574891.187 0
SO SRCPARAM 40305E2 .0503992 9.14 702.04 34.59 .46
**********END OF 40305: EOG - Driver 14 Fed Com CTB
INFO**********************************
************************************************************
** 10.47km away. Facility ID=40978 Name=Calzone Federal 20 O CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9904 NOI
** lat,long,datum=32.285957, -103.590343, WGS84
** Total Sulfur Dioxide emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=40978EQPT11 Facility's ID=TURB-01
** Description=Turbine Construction date=01-MAY-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40978E11 POINT 632740.531 3573004.98 0
SO SRCPARAM 40978E11 .00126 7.16 873.15 46.24 .46
** NMED source ID=40978EQPT12 Facility's ID=TURB-02
** Description=Turbine Construction date=20-MAY-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40978E12 POINT 632748.067 3573012.001 0
SO SRCPARAM 40978E12 .0002898 4.97 537.04 11.46 .46
** NMED source ID=40978EQPT13 Facility's ID=TURB-03
** Description=Turbine Construction date=20-MAY-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40978E13 POINT 632741.281 3573015.553 0
SO SRCPARAM 40978E13 .0002898 4.97 537.04 11.46 .46
**********END OF 40978: Calzone Federal 20 O CTB
INFO**********************************
************************************************************
** 10.52km away. Facility ID=40813 Name=North Thistle 15 Wellpad 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9801 NOI
** lat,long,datum=32.298695, -103.564315, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=40813EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=13-DEC-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40813E1 POINT 635172.773 3574449.665 0
SO SRCPARAM 40813E1 .0002898 5.85 772.59 21.02 .27
```

**********END OF 40813: North Thistle 15 Wellpad 4
INFO**********
**********
** 10.56km away. Facility ID=32557 Name=Bell Lake 24 1H Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5138 NOI
** lat,long,datum=32.196442, -103.634739, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
**********Facility sources: **********
** NMED source ID=32557EQPT19 Facility's ID=HT-1
** Description=Heater_EQ000151572 Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32557E19 VOLUME 628685.802 3563027.227 0
SO SRCPARAM 32557E19 .0002898 9.14 .47 .93
** NMED source ID=32557EQPT24 Facility's ID=ECD-1
** Description=Combustor 1_EQ000151712 Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32557E24 POINT 628693.338 3563034.248 0
SO SRCPARAM 32557E24 .00126 6.1 1273 20 3.604
** NMED source ID=32557EQPT28 Facility's ID=FL-1 SSM
** Description=Flare 1_EQ000151550 Construction date=01-JAN-15
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32557E28 POINT 628686.552 3563037.8 0
SO SRCPARAM 32557E28 .0002898 6.1 1273 20 20.806
**********END OF 32557: Bell Lake 24 1H Battery
INFO**********
**********
** 10.6km away. Facility ID=38860 Name=Devon - North Thistle 15 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.301106, -103.558861, NAD83
** Total Sulfur Dioxide emissions=.32tons/year
**********Facility sources: **********
** NMED source ID=38860EQPT13 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater treater 1 Construction date=22-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38860E13 VOLUME 635682.732 3574723.846 0
SO SRCPARAM 38860E13 .00126 9.14 .47 .93
** NMED source ID=38860EQPT14 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater treater 2 Construction date=22-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day

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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38860E14 VOLUME 635690.268 3574730.867 0
SO SRCPARAM 38860E14 .00126 9.14 .47 .93
** NMED source ID=38860EQPT18 Facility's ID=FL-1
** Description=12.7 MMscfd Flare Construction date=22-MAR-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38860E18 POINT 635683.482 3574734.419 0
SO SRCPARAM 38860E18 .0214197 12.19 1273 20 12.132
**********END OF 38860: Devon - North Thistle 15 CTB 2
INFO**********************************
************************************************************
** 10.71km away. Facility ID=38999 Name=EOG - Snake Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.156394, -103.617806, WGS84
** Total Sulfur Dioxide emissions=4.62tons/year
*****************Facility sources: ****************************
** NMED source ID=38999EQPT1 Facility's ID=ENG-1
** Description=1875 HP CAT G3606A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8291hr/yr, 23hr/day
SO LOCATION 38999E1 POINT 630339.041 3558607.916 0
SO SRCPARAM 38999E1 .0176397 8.53 719.26 27.43 .51
** NMED source ID=38999EQPT2 Facility's ID=ENG-2
** Description=1875 HP CAT G3606A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8156hr/yr, 22hr/day
SO LOCATION 38999E2 POINT 630346.577 3558614.937 0
SO SRCPARAM 38999E2 .0176397 8.53 719.26 27.43 .51
** NMED source ID=38999EQPT3 Facility's ID=ENG-3
** Description=1875 HP CAT G3606A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7625hr/yr, 21hr/day
SO LOCATION 38999E3 POINT 630339.791 3558618.489 0
SO SRCPARAM 38999E3 .0176397 8.53 719.26 27.43 .51
** NMED source ID=38999EQPT4 Facility's ID=ENG-4
** Description=2500 HP CAT G3608A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38999E4 POINT 630332.194 3558616.397 0
SO SRCPARAM 38999E4 .0251996 8.84 718.15 26 .61
** NMED source ID=38999EQPT5 Facility's ID=ENG-5
** Description=2500 HP CAT G3608A4 Engine Construction date=06-JUN-19
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7080hr/yr, 24hr/day
SO LOCATION 38999E5 POINT 630327.953 3558609.497 0
SO SRCPARAM 38999E5 .0251996 8.84 256.48 26 .61
** NMED source ID=38999EQPT6 Facility's ID=ENG-6
** Description=2500 HP CAT G3608A4 Engine Construction date=06-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38999E6 POINT 630329.605 3558601.343 0
SO SRCPARAM 38999E6 .0251996 8.84 718.15 26 .61
** NMED source ID=38999EQPT12 Facility's ID=Reboiler-1
** Description=1 MMbtu/hr Dehydrator Reboiler Construction date=06-JUN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38999E12 POINT 630336.554 3558596.381 0
SO SRCPARAM 38999E12 .0251996 3.96 588.71 2.62 .3
** NMED source ID=38999EQPT13 Facility's ID=Heater-1
** Description=0.5 MMbtu/hr Separator Heater Construction date=06-JUN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38999E13 POINT 630345.237 3558597.523 0
SO SRCPARAM 38999E13 .00126 3.96 588.71 1.31 .3
** NMED source ID=38999EQPT14 Facility's ID=Flare-1
** Description=500 MSCFD Process Flare Construction date=06-JUN-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38999E14 POINT 630350.947 3558604.451 0
SO SRCPARAM 38999E14 .00126 8.23 1273 20 2.632
**********END OF 38999: EOG - Snake Localized Gas Lift Station
INFO**********************************
************************************************************
** 10.71km away. Facility ID=40494 Name=Ocotillo Sunrise Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.13605, -103.45194, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=40494EQPT3 Facility's ID=FL-2
** Description=Flare Construction date=06-JUL-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 40494E3 POINT 646013.988 3556565.465 0
SO SRCPARAM 40494E3 .0088199 6.1 1273 20 20.806
**********END OF 40494: Ocotillo Sunrise Tank Battery
INFO**********************************
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**********************************************************
** 10.82km away. Facility ID=40433 Name=Mad Dog 26-35 Battery No1
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.281524, -103.445396, WGS84
** Total Sulfur Dioxide emissions=.07tons/year
**********Facility sources: ****************************
** NMED source ID=40433EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=04-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E1 POINT 646397.99 3572702.169 0
SO SRCPARAM 40433E1 .0005796 6.17 695.37 37.61 .25
** NMED source ID=40433EQPT9 Facility's ID=GEN-01
** Description=Generator Engine Construction date=17-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E9 POINT 646405.526 3572709.19 0
SO SRCPARAM 40433E9 .0002898 4.51 840.37 179.41 .09
** NMED source ID=40433EQPT11 Facility's ID=HT-01
** Description=Heater Treater Construction date=04-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E11 VOLUME 646398.74 3572712.742 0
SO SRCPARAM 40433E11 .0002898 4.57 .47 .93
** NMED source ID=40433EQPT31 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=09-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E31 POINT 646391.143 3572710.65 0
SO SRCPARAM 40433E31 .0002898 4.42 989.82 70.41 .13
** NMED source ID=40433EQPT32 Facility's ID=GEN-02
** Description=Generator Engine Construction date=09-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E32 POINT 646386.902 3572703.75 0
SO SRCPARAM 40433E32 .0002898 4.51 840.37 179.41 .09
** NMED source ID=40433EQPT33 Facility's ID=GEN-03
** Description=Generator Engine Construction date=09-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40433E33 POINT 646388.554 3572695.596 0
SO SRCPARAM 40433E33 .0002898 4.51 840.37 179.41 .09
**********END OF 40433: Mad Dog 26-35 Battery No1
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INFO**********************************
************************************************************
** 10.86km away. Facility ID=40560 Name=Vaca 24 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.113, -103.526, WGS84
** Total Sulfur Dioxide emissions=.36tons/year
*****************Facility sources: ******************************
** NMED source ID=40560EQPT5 Facility's ID=FL-2
** Description=Emergency Flare Construction date=29-AUG-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40560E5 POINT 639062.877 3553912.1 0
SO SRCPARAM 40560E5 .00126 18.29 1273 20 2.632
** NMED source ID=40560EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=29-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40560E6 POINT 639070.413 3553919.121 0
SO SRCPARAM 40560E6 .0002898 4.88 588.71 .21 1.22
** NMED source ID=40560EQPT7 Facility's ID=HTR-2
** Description=Heater Treater Construction date=29-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40560E7 POINT 639063.627 3553922.673 0
SO SRCPARAM 40560E7 .0002898 6.1 588.71 .06 1.83
** NMED source ID=40560EQPT15 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=29-AUG-22
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40560E15 POINT 639056.03 3553920.581 0
SO SRCPARAM 40560E15 .0080513 12.19 1273 20 3.604
**********END OF 40560: Vaca 24 Fed Com CTB
INFO**********************************
************************************************************
** 10.88km away. Facility ID=39974 Name=Fernandez Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.199989, -103.638718, WGS84
** Total Sulfur Dioxide emissions=.18tons/year
*****************Facility sources: ******************************
** NMED source ID=39974EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39974E1 POINT 628305.742 3563415.69 0
SO SRCPARAM 39974E1 .00126 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E2 POINT 628313.278 3563422.711 0
SO SRCPARAM 39974E2 .00126 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E3 POINT 628306.492 3563426.263 0
SO SRCPARAM 39974E3 .00126 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E4 POINT 628298.895 3563424.171 0
SO SRCPARAM 39974E4 .00126 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT5 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E5 POINT 628294.654 3563417.271 0
SO SRCPARAM 39974E5 .00126 7.32 806.48 37.8 .38
** NMED source ID=39974EQPT6 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=29-APR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39974E6 POINT 628296.306 3563409.117 0
SO SRCPARAM 39974E6 .00126 7.32 806.48 37.8 .38
**********END OF 39974: Fernandez Booster Station
INFO**********************************
************************************************************
** 10.88km away. Facility ID=39967 Name=EOG - Bronco LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1134, -103.5367, WGS84
** Total Sulfur Dioxide emissions=4.99tons/year
*****************Facility sources: ****************************
** NMED source ID=39967EQPT1 Facility's ID=ENG-1
** Description=4SLB, CAT G3608 2500 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E1 POINT 638052.698 3553942.684 0
SO SRCPARAM 39967E1 .0239396 6.1 688.15 25.51 .61
** NMED source ID=39967EQPT2 Facility's ID=ENG-2
** Description=4SLB, CAT G3608 2500 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E2 POINT 638060.234 3553949.705 0
SO SRCPARAM 39967E2 .0239396 6.1 688.15 25.51 .61
** NMED source ID=39967EQPT3 Facility's ID=ENG-3
** Description=4SLB, CAT G3608 2500 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E3 POINT 638053.448 3553953.257 0
SO SRCPARAM 39967E3 .0239396 6.1 688.15 25.51 .61
** NMED source ID=39967EQPT4 Facility's ID=ENG-4
** Description=4SLB, CAT G3608 2500 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E4 POINT 638045.851 3553951.165 0
SO SRCPARAM 39967E4 .0239396 6.1 688.15 25.51 .61
** NMED source ID=39967EQPT5 Facility's ID=ENG-5
** Description=4SLB, CAT G3608 2500 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E5 POINT 638041.61 3553944.265 0
SO SRCPARAM 39967E5 .0239396 6.1 688.15 25.51 .61
** NMED source ID=39967EQPT6 Facility's ID=ENG-6
** Description=4SLB, CAT G3606 1875 HP Construction date=13-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E6 POINT 638043.262 3553936.111 0
SO SRCPARAM 39967E6 .0176397 4.57 701.48 27.86 .51
** NMED source ID=39967EQPT7 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.0 MMbtu/hr Construction date=13-MAY-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E7 POINT 638050.211 3553931.149 0
SO SRCPARAM 39967E7 .0037799 3.96 588.71 2.65 .3
** NMED source ID=39967EQPT8 Facility's ID=Heater-1
** Description=Separator Heater 1.5 MMbtu/hr Construction date=13-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 39967E8 POINT 638058.894 3553932.291 0
SO SRCPARAM 39967E8 .0037799 3.96 588.71 1.31 .3
** NMED source ID=39967EQPT10 Facility's ID=Flare1-LP
** Description=dual pressure 5.23 MMcf/d: LP tip Construction date=13-MAY-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39967E10 POINT 638064.604 3553939.219 0
SO SRCPARAM 39967E10 .00126 12.19 1273 20 20.806
**********END OF 39967: EOG - Bronco LGL Station
INFO**********************************
************************************************************
** 10.9km away. Facility ID=38864 Name=Green Drake 16 CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1263, -103.582777, WGS84
** Total Sulfur Dioxide emissions=.27tons/year
*****************Facility sources: ******************************
** NMED source ID=38864CONT1 Facility's ID=FL-2
** Description=Emergency Flare Construction date=15-MAR-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38864C1 POINT 633686.431 3555314.664 0
SO SRCPARAM 38864C1 .00126 18.29 1273 20 2.632
** NMED source ID=38864EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=15-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38864E2 POINT 633693.967 3555321.685 0
SO SRCPARAM 38864E2 .0002898 7.32 588.71 .19 1.83
** NMED source ID=38864EQPT3 Facility's ID=HTR-2
** Description=Heater Treater Construction date=15-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38864E3 POINT 633687.181 3555325.237 0
SO SRCPARAM 38864E3 .0002898 4.88 588.71 .21 1.22
** NMED source ID=38864EQPT17 Facility's ID=HTR-3
** Description=Heater Treater Construction date=06-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38864E17 POINT 633679.584 3555323.145 0
SO SRCPARAM 38864E17 .0002898 4.88 588.71 .21 1.22
** NMED source ID=38864EQPT22 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=02-APR-19
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38864E22 POINT 633675.343 3555316.245 0
SO SRCPARAM 38864E22 .0060353 15.24 1273 20 .86
**********END OF 38864: Green Drake 16 CTB INFO**************************************
*************************************************************
** 10.93km away. Facility ID=5557 Name=Falcon Ridge CGL
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.247974, -103.416538, WGS84
** Total Sulfur Dioxide emissions=.59tons/year
*****************Facility sources: ******************************
** NMED source ID=5557EQPT3 Facility's ID=ENG-1
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E3 POINT 649170.751 3569022.394 0
SO SRCPARAM 5557E3 .00126 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT4 Facility's ID=ENG-2
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E4 POINT 649178.287 3569029.415 0
SO SRCPARAM 5557E4 .00126 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT5 Facility's ID=ENG-3
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E5 POINT 649171.501 3569032.967 0
SO SRCPARAM 5557E5 .00126 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT6 Facility's ID=ENG-4
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E6 POINT 649163.904 3569030.875 0
SO SRCPARAM 5557E6 .00126 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT7 Facility's ID=ENG-5
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E7 POINT 649159.663 3569023.975 0
SO SRCPARAM 5557E7 .00126 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT8 Facility's ID=ENG-6
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E8 POINT 649161.315 3569015.821 0
SO SRCPARAM 5557E8 .00126 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT9 Facility's ID=ENG-7
** Description=Compressor Engine G3608 A4 Construction date=10-JUL-23
** SCC=20200702
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E9 POINT 649168.264 3569010.859 0
SO SRCPARAM 5557E9 .00126 6.1 700.37 104.85 .3
** NMED source ID=5557EQPT10 Facility's ID=FLR-1
** Description=Emergency Flare (pilot only) Construction date=10-JUL-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E10 POINT 649176.947 3569012.001 0
SO SRCPARAM 5557E10 .0062999 7.62 1273 20 20.806
** NMED source ID=5557EQPT11 Facility's ID=REB-1
** Description=Dehy Reboiler Construction date=10-JUL-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E11 POINT 649182.657 3569018.929 0
SO SRCPARAM 5557E11 .0002898 3.05 533.15 .16 .24
** NMED source ID=5557EQPT12 Facility's ID=REB-2
** Description=Dehy Reboiler Construction date=10-JUL-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5557E12 POINT 649182.092 3569028.11 0
SO SRCPARAM 5557E12 .0002898 3.05 533.15 .16 .24
**********END OF 5557: Falcon Ridge CGL INFO**********************************
************************************************************
** 11.05km away. Facility ID=39021 Name=Fascinator Federal Com C CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8357 NOI
** lat,long,datum=32.193844, -103.408222, WGS84
** Total Sulfur Dioxide emissions=.11tons/year
*****************Facility sources: ******************************
** NMED source ID=39021EQPT3 Facility's ID=VCU-01
** Description=Vapor Combustion Unit Construction date=01-JAN-20
** SCC=30609903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39021E3 POINT 650043.168 3563032.862 0
SO SRCPARAM 39021E3 .0002898 7.01 755.37 .3 1.22
** NMED source ID=39021EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39021E4 VOLUME 650050.704 3563039.883 0
SO SRCPARAM 39021E4 .00252 6.71 .47 .93
** NMED source ID=39021EQPT5 Facility's ID=FL-01
** Description=LP Flare Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39021E5 POINT 650043.918 3563043.435 0
SO SRCPARAM 39021E5 .0002898 10.67 1273 20 .61
**********END OF 39021: Fascinator Federal Com C CTB
INFO**********************************
************************************************************
** 11.06km away. Facility ID=40389 Name=Jeff Hart West
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.269069, -103.428976, NAD83
** Total Sulfur Dioxide emissions=.17tons/year
*****************Facility sources: ****************************
** NMED source ID=40389EQPT1 Facility's ID=ENG-1
** Description=4SLB Compressor Engine Construction date=07-APR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E1 POINT 647964.661 3571343.875 0
SO SRCPARAM 40389E1 .0005796 6.1 717.04 52.12 .3
** NMED source ID=40389EQPT8 Facility's ID=FL-1
** Description=Standard Flare Construction date=07-APR-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E8 POINT 647972.197 3571350.896 0
SO SRCPARAM 40389E8 .0856786 6.1 1273 20 16.116
** NMED source ID=40389EQPT9 Facility's ID=FL-2
** Description=Standard Flare Construction date=07-APR-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E9 POINT 647965.411 3571354.448 0
SO SRCPARAM 40389E9 .0856786 6.1 1273 20 16.116
** NMED source ID=40389EQPT10 Facility's ID=FL-3
** Description=Standard Flare Construction date=07-APR-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3144hr/yr, 24hr/day
SO LOCATION 40389E10 POINT 647957.814 3571352.356 0
SO SRCPARAM 40389E10 .0002898 6.1 1273 20 20.806
** NMED source ID=40389EQPT11 Facility's ID=GEN-1
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2856hr/yr, 24hr/day
SO LOCATION 40389E11 POINT 647953.573 3571345.456 0
SO SRCPARAM 40389E11 .0002898 6.1 1005.37 19.98 .3
** NMED source ID=40389EQPT12 Facility's ID=GEN-2
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2715hr/yr, 24hr/day
SO LOCATION 40389E12 POINT 647955.225 3571337.302 0
SO SRCPARAM 40389E12 .0002898 6.1 1005.37 19.98 .3
** NMED source ID=40389EQPT13 Facility's ID=GEN-3
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40389E13 POINT 647962.174 3571332.34 0
SO SRCPARAM 40389E13 .0002898 6.1 1005.37 19.98 .3
** NMED source ID=40389EQPT14 Facility's ID=GEN-4
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40389E14 POINT 647970.857 3571333.482 0
SO SRCPARAM 40389E14 .0002898 6.1 1005.37 19.98 .3
** NMED source ID=40389EQPT15 Facility's ID=GEN-5
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40389E15 POINT 647976.567 3571340.41 0
SO SRCPARAM 40389E15 .0002898 6.1 1005.37 19.98 .3
** NMED source ID=40389EQPT16 Facility's ID=GEN-6
** Description=4SRB Generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40389E16 POINT 647976.002 3571349.591 0
SO SRCPARAM 40389E16 .0002898 6.1 1005.37 19.98 .3
**********END OF 40389: Jeff Hart West INFO**********************************
************************************************************
** 11.23km away. Facility ID=38371 Name=Florence State 23 Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.284657, -103.443006, NAD83
** Total Sulfur Dioxide emissions=.09tons/year
*****************Facility sources: ******************************
** NMED source ID=38371EQPT22 Facility's ID=ENG-2
** Description=1380-hp Caterpillar 3516 Compressor Engine Construction
date=07-APR-22
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E22 POINT 646618.039 3573052.774 0
SO SRCPARAM 38371E22 .00126 6.1 717.04 52.21 .3
** NMED source ID=38371EQPT23 Facility's ID=ENG-3
** Description=1380-hp Caterpillar 3516 Compressor Engine Construction
date=07-APR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E23 POINT 646625.575 3573059.795 0
SO SRCPARAM 38371E23 .00126 6.1 717.04 52.21 .3
** NMED source ID=38371EQPT24 Facility's ID=ENG-4
** Description=1380-hp Caterpillar 3516 Compressor Engine Construction
date=07-APR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E24 POINT 646618.789 3573063.347 0
SO SRCPARAM 38371E24 .00126 6.1 717.04 52.21 .3
** NMED source ID=38371EQPT29 Facility's ID=GEN-1
** Description=581-hp PSI 21.9L generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3524hr/yr, 24hr/day
SO LOCATION 38371E29 POINT 646611.192 3573061.255 0
SO SRCPARAM 38371E29 .0002898 6.1 1023.15 19.37 .3
** NMED source ID=38371EQPT30 Facility's ID=GEN-2
** Description=581-hp PSI 21.9L generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E30 POINT 646606.951 3573054.355 0
SO SRCPARAM 38371E30 .0002898 6.1 1023.15 19.37 .3
** NMED source ID=38371EQPT31 Facility's ID=GEN-3
** Description=581-hp PSI 21.9L generator Construction date=07-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38371E31 POINT 646608.603 3573046.201 0
SO SRCPARAM 38371E31 .0002898 6.1 1023.15 19.37 .3
**********END OF 38371: Florence State 23 Facility
INFO**********************************
************************************************************
** 11.29km away. Facility ID=38450 Name=Caballo 23 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.111194, -103.547889, WGS84
** Total Sulfur Dioxide emissions=.28tons/year
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**********Facility sources: ******************************
** NMED source ID=38450EQPT6 Facility's ID=FL-2
** Description=Emergency Flare Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38450E6 POINT 637007.822 3553690.867 0
SO SRCPARAM 38450E6 .00126 18.29 1273 20 2.632
** NMED source ID=38450EQPT21 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=07-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38450E21 POINT 637001.036 3553694.419 0
SO SRCPARAM 38450E21 .00126 3.96 1085.93 82.91 .13
** NMED source ID=38450EQPT23 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=07-JUN-23
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38450E23 POINT 636993.439 3553692.327 0
SO SRCPARAM 38450E23 .0066149 15.24 1273 20 3.604
**********END OF 38450: Caballo 23 Fed Com CTB
INFO**********************************
**************************************************************
** 11.29km away. Facility ID=40495 Name=Revolution Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1476, -103.6179, WGS84
** Total Sulfur Dioxide emissions=9.34tons/year
**********Facility sources: ******************************
** NMED source ID=40495EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=02-AUG-22
** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E2 POINT 630342.693 3557632.906 0
SO SRCPARAM 40495E2 .0113398 6.61 704.26 46.3 .46
SO EMISFACT 40495E2 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40495EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=02-AUG-22
** SCC=20200254
** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E3 POINT 630350.229 3557639.927 0
SO SRCPARAM 40495E3 .0113398 6.61 704.26 46.3 .46
SO EMISFACT 40495E3 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40495EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=02-AUG-22
** SCC=20200254
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** Potential operating rate=2190hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E4 POINT 630343.443 3557643.479 0
SO SRCPARAM 40495E4 .0113398 6.61 704.26 46.3 .46
SO EMISFACT 40495E4 HROFDY 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
** NMED source ID=40495EQPT6 Facility's ID=FL-1 SSM
** Description=High Pressure SSM Flare Construction date=02-AUG-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E6 POINT 630335.846 3557641.387 0
SO SRCPARAM 40495E6 .755988 12.19 1273 20 20.806
** NMED source ID=40495EQPT8 Facility's ID=HT-1
** Description=Heater Construction date=02-AUG-22
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E8 POINT 630331.605 3557634.487 0
SO SRCPARAM 40495E8 .00126 3.96 588.71 9.08 .3
** NMED source ID=40495EQPT9 Facility's ID=REB-1
** Description=Glycol Dehydrator Reboiler Construction date=02-AUG-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E9 POINT 630333.257 3557626.333 0
SO SRCPARAM 40495E9 .00126 3.96 588.71 13.62 .3
** NMED source ID=40495EQPT10 Facility's ID=T-1
** Description=Turbine Construction date=02-AUG-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E10 POINT 630340.206 3557621.371 0
SO SRCPARAM 40495E10 .1159182 11.43 727.59 43.16 2.13
** NMED source ID=40495EQPT11 Facility's ID=T-2
** Description=Turbine Construction date=02-AUG-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40495E11 POINT 630348.889 3557622.513 0
SO SRCPARAM 40495E11 .1159182 11.43 727.59 43.16 2.13
**********END OF 40495: Revolution Compressor Station
INFO**********************************
************************************************************
** 11.31km away. Facility ID=33461 Name=Cimarex - Triste Draw 25 Federal Com 1H 2H
7H & 5H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.26939, -103.62188, NAD83
** Total Sulfur Dioxide emissions=.17tons/year
****************Facility sources: ****************************
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** NMED source ID=33461EQPT13 Facility's ID=FL1
** Description=Flare for OTK1-6, PWTK1-2, VRT1-2  (835 MSCF/h) Construction
date=24-OCT-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7878hr/yr, 22hr/day
SO LOCATION 33461E13 POINT 629794.19 3571129.742 0
SO SRCPARAM 33461E13 .0856786 8.23 1273 20 20.806
** NMED source ID=33461EQPT14 Facility's ID=H1
** Description=2 MMbtu/h Heater Treater Construction date=23-NOV-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7878hr/yr, 22hr/day
SO LOCATION 33461E14 VOLUME 629801.726 3571136.763 0
SO SRCPARAM 33461E14 .0002898 4.57 .47 .93
** NMED source ID=33461EQPT15 Facility's ID=H2
** Description=2 MMbtu/h Heater Treater Construction date=23-NOV-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7878hr/yr, 22hr/day
SO LOCATION 33461E15 VOLUME 629794.94 3571140.315 0
SO SRCPARAM 33461E15 .0002898 4.57 .47 .93
** NMED source ID=33461EQPT16 Facility's ID=H3
** Description=2 MMbtu/h Heater Treater Construction date=23-NOV-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7878hr/yr, 22hr/day
SO LOCATION 33461E16 VOLUME 629787.343 3571138.223 0
SO SRCPARAM 33461E16 .0002898 4.57 .47 .93
** NMED source ID=33461EQPT26 Facility's ID=FL2
** Description=Flare for OTK7-8, PWTK3-5, VRT3  (835 MSCF/h) Construction
date=03-DEC-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7163hr/yr, 20hr/day
SO LOCATION 33461E26 POINT 629783.102 3571131.323 0
SO SRCPARAM 33461E26 .0856786 10.67 1273 20 20.806
** NMED source ID=33461EQPT27 Facility's ID=H4
** Description=2 MMbtu/h Heater Treater Construction date=03-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7163hr/yr, 20hr/day
SO LOCATION 33461E27 VOLUME 629784.754 3571123.169 0
SO SRCPARAM 33461E27 .0002898 4.57 .47 .93
** NMED source ID=33461EQPT33 Facility's ID=ENG-5
** Description=Compressor Engine (1380 hp) 4SLB Construction date=22-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33461E33 POINT 629791.703 3571118.207 0
```

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SO SRCPARAM 33461E33 .00126 6.86 724.26 52.55 .3
**********END OF 33461: Cimarex - Triste Draw 25 Federal Com 1H 2H 7H & 5H
INFO**********************************
************************************************************
** 11.31km away. Facility ID=40244 Name=Devon - White Dove 17 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.309095, -103.494519, NAD83
** Total Sulfur Dioxide emissions=1.01tons/year
*****************Facility sources: ****************************
** NMED source ID=40244EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=10-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40244E1 VOLUME 641728.658 3575692.806 0
SO SRCPARAM 40244E1 .0151198 9.14 .47 .93
** NMED source ID=40244EQPT5 Facility's ID=FL-1 LP
** Description=15.5 MMscf/d Flare, Pilot + Tanks Construction date=12-DEC-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40244E5 POINT 641736.194 3575699.827 0
SO SRCPARAM 40244E5 .0226796 12.19 1273 20 9.069
** NMED source ID=40244EQPT6 Facility's ID=FL-1 SSM
** Description=15.5 MMscf/d Flare, SSM Construction date=12-DEC-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40244E6 POINT 641729.408 3575703.379 0
SO SRCPARAM 40244E6 .0069047 12.19 1273 20 2.632
**********END OF 40244: Devon - White Dove 17 CTB 3
INFO**********************************
************************************************************
** 11.32km away. Facility ID=32152 Name=Vaca 24 Fed Com 6H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1089, -103.5217, WGS84
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=32152EQPT1 Facility's ID=ECD
** Description=Enclosed Combustion Device Construction date=01-JAN-20
** SCC=30600903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32152E1 POINT 639474.83 3553463.129 0
SO SRCPARAM 32152E1 .00126 6.71 1273 20 .7
** NMED source ID=32152EQPT2 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32152E2 VOLUME 639482.366 3553470.15 0
SO SRCPARAM 32152E2 .0002898 4.57 .47 .93
** NMED source ID=32152EQPT14 Facility's ID=ENG-1
** Description=Gas Lift Engine Construction date=26-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32152E14 POINT 639475.58 3553473.702 0
SO SRCPARAM 32152E14 .0002898 3.96 899.82 25.3 .13
** NMED source ID=32152EQPT15 Facility's ID=FL-1
** Description=Emergency Flare Construction date=26-MAY-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32152E15 POINT 639467.983 3553471.61 0
SO SRCPARAM 32152E15 .0002898 7.62 1273 20 1.22
**********END OF 32152: Vaca 24 Fed Com 6H INFO**********************************
************************************************************
** 11.33km away. Facility ID=32166 Name=Vaca 24 Fed Com 4H 5H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.108772, -103.527056, WGS84
** Total Sulfur Dioxide emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=32166EQPT1 Facility's ID=ECD
** Description=Process ECD Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32166E1 POINT 638969.646 3553442.019 0
SO SRCPARAM 32166E1 .00126 6.71 1273 20 .7
** NMED source ID=32166EQPT8 Facility's ID=ENG-1
** Description=Gas Lift Engine Construction date=16-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32166E8 POINT 638977.182 3553449.04 0
SO SRCPARAM 32166E8 .0002898 3.96 867.04 24.38 .13
** NMED source ID=32166EQPT9 Facility's ID=ENG-2
** Description=Gas Lift Engine Construction date=16-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32166E9 POINT 638970.396 3553452.592 0
SO SRCPARAM 32166E9 .0002898 3.96 846.48 34.44 .13
** NMED source ID=32166EQPT10 Facility's ID=ENG-3
** Description=Gas Lift Engine Construction date=16-MAY-22
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32166E10 POINT 638962.799 3553450.5 0
SO SRCPARAM 32166E10 .0002898 3.96 846.48 34.44 .13
** NMED source ID=32166EQPT21 Facility's ID=FL-1 SSM
** Description=Emergency Flare 1 Construction date=08-MAY-14
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32166E21 POINT 638958.558 3553443.6 0
SO SRCPARAM 32166E21 .0002898 7.62 1273 20 1.22
** NMED source ID=32166EQPT22 Facility's ID=FL-2 SSM
** Description=Emergency Flare 2 Construction date=19-MAY-17
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32166E22 POINT 638960.21 3553435.446 0
SO SRCPARAM 32166E22 .0002898 7.62 1273 20 1.22
**********END OF 32166: Vaca 24 Fed Com 4H 5H
INFO**********************************
************************************************************
** 11.36km away. Facility ID=32153 Name=Vaca 24 Fed 2H-3H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.108775, -103.532739, WGS84
** Total Sulfur Dioxide emissions=.11tons/year
*****************Facility sources: ******************************
** NMED source ID=32153EQPT8 Facility's ID=ECD
** Description=Pilot & Combustion Emissions Construction date=18-OCT-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32153E8 POINT 638433.409 3553435.037 0
SO SRCPARAM 32153E8 .00126 6.71 1033.15 5.55 .7
** NMED source ID=32153EQPT9 Facility's ID=FL-1
** Description=Pilot & Combustion Emissions Construction date=18-OCT-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32153E9 POINT 638440.945 3553442.058 0
SO SRCPARAM 32153E9 .00126 7.62 1273 20 1.22
** NMED source ID=32153EQPT10 Facility's ID=FL-2
** Description=Pilot & Combustion Emissions Construction date=18-OCT-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32153E10 POINT 638434.159 3553445.61 0
SO SRCPARAM 32153E10 .00126 7.62 1273 20 1.22
** NMED source ID=32153EQPT15 Facility's ID=ENG-1
** Description=Heater Treater Construction date=01-OCT-20
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32153E15 POINT 638426.562 3553443.518 0
SO SRCPARAM 32153E15 .0002898 3.96 867.04 24.38 .13
** NMED source ID=32153EQPT17 Facility's ID=FL-1 SSM
** Description=Pilot & Combustion Emissions Construction date=08-MAY-14
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32153E17 POINT 638422.321 3553436.618 0
SO SRCPARAM 32153E17 .0005796 7.62 1273 20 1.22
** NMED source ID=32153EQPT18 Facility's ID=FL-2 SSM
** Description=Pilot & Combustion Emissions Construction date=08-MAY-14
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32153E18 POINT 638423.973 3553428.464 0
SO SRCPARAM 32153E18 .0005796 7.62 1273 20 1.22
**********END OF 32153: Vaca 24 Fed 2H-3H INFO************************************
************************************************************
** 11.68km away. Facility ID=38479 Name=EOG - Trapper Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.1074, -103.5013, WGS84
** Total Sulfur Dioxide emissions=25.24tons/year
*****************Facility sources: ******************************
** NMED source ID=38479EQPT1 Facility's ID=ENG-2
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8683hr/yr, 24hr/day
SO LOCATION 38479E1 POINT 641402.035 3553323.424 0
SO SRCPARAM 38479E1 .0580435 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT2 Facility's ID=ENG-4
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8692hr/yr, 24hr/day
SO LOCATION 38479E2 POINT 641409.571 3553330.445 0
SO SRCPARAM 38479E2 .057983 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT3 Facility's ID=ENG-5
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38479E3 POINT 641402.785 3553333.997 0
SO SRCPARAM 38479E3 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT4 Facility's ID=ENG-6
** Description=Natural Gas Engine Construction date=01-AUG-18
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38479E4 POINT 641395.188 3553331.905 0
SO SRCPARAM 38479E4 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT5 Facility's ID=ENG-7
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38479E5 POINT 641390.947 3553325.005 0
SO SRCPARAM 38479E5 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT6 Facility's ID=ENG-9
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38479E6 POINT 641392.599 3553316.851 0
SO SRCPARAM 38479E6 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT8 Facility's ID=Heater-1
** Description=Separator Heater Construction date=01-AUG-18
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38479E8 POINT 641399.548 3553311.889 0
SO SRCPARAM 38479E8 .0037799 7 730 28 .3
** NMED source ID=38479EQPT9 Facility's ID=Flare-1
** Description=Process Flare Construction date=01-AUG-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38479E9 POINT 641408.231 3553313.031 0
SO SRCPARAM 38479E9 .0251996 6 1273 20 2.632
** NMED source ID=38479EQPT10 Facility's ID=ENG-3
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38479E10 POINT 641413.941 3553319.959 0
SO SRCPARAM 38479E10 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT11 Facility's ID=ENG-8
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38479E11 POINT 641413.376 3553329.14 0
SO SRCPARAM 38479E11 .0768588 8.53 719.26 27.43 .51
** NMED source ID=38479EQPT16 Facility's ID=Reboiler-1
** Description=Reboiler Dehydrator Construction date=01-AUG-18
** SCC=31000227
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38479E16 POINT 641406.541 3553335.618 0
SO SRCPARAM 38479E16 .0062999 7 730 28 .3
** NMED source ID=38479EQPT17 Facility's ID=ENG-1
** Description=Natural Gas Engine Construction date=01-AUG-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8770hr/yr, 24hr/day
SO LOCATION 38479E17 POINT 641396.905 3553335.695 0
SO SRCPARAM 38479E17 .0768588 8.53 719.26 27.43 .51
**********END OF 38479: EOG - Trapper Localized Gas Lift Station
INFO**********************************
************************************************************
** 11.73km away. Facility ID=39308 Name=Icy 18 Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1358, -103.6116, WGS84
** Total Sulfur Dioxide emissions=.28tons/year
*****************Facility sources: ******************************
** NMED source ID=39308EQPT8 Facility's ID=FL-2
** Description=Emergency Flare Construction date=22-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39308E8 POINT 630953.75 3556332.414 0
SO SRCPARAM 39308E8 .00126 18.29 1273 20 2.632
** NMED source ID=39308EQPT10 Facility's ID=HTR-1
** Description=Heater, 1.5-MMBtu/hr Construction date=22-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3928hr/yr, 24hr/day
SO LOCATION 39308E10 POINT 630961.286 3556339.435 0
SO SRCPARAM 39308E10 .0002898 7.32 588.71 .19 1.83
** NMED source ID=39308EQPT16 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=24-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39308E16 POINT 630954.5 3556342.987 0
SO SRCPARAM 39308E16 .00126 3.96 1003.71 82.6 .13
** NMED source ID=39308EQPT17 Facility's ID=HTR-2
** Description=Heater Treater Construction date=24-MAY-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39308E17 VOLUME 630946.903 3556340.895 0
SO SRCPARAM 39308E17 .0002898 4.88 .47 .93
** NMED source ID=39308EQPT20 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=24-MAY-23
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** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39308E20 POINT 630942.662 3556333.995 0
SO SRCPARAM 39308E20 .0060353 12.19 1273 20 .51
**********END OF 39308: Icy 18 Fed CTB INFO**********************************
************************************************************
** 11.8km away. Facility ID=39631 Name=EOG - Green Drake 21 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1139, -103.5754, WGS84
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=39631EQPT10 Facility's ID=HTR-1
** Description=Heater, 0.75-MMBtu/hr Construction date=20-AUG-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3262hr/yr, 24hr/day
SO LOCATION 39631E10 POINT 634400.542 3553949.185 0
SO SRCPARAM 39631E10 .00126 5.18 588.71 6.83 .3
**********END OF 39631: EOG - Green Drake 21 Fed Com CTB
INFO**********************************
************************************************************
** 11.87km away. Facility ID=41065 Name=Falcon Ridge CPF-OGS
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21113    Permit=9967 NOI
** lat,long,datum=32.247761, -103.405816, WGS84
** Total Sulfur Dioxide emissions=.74tons/year
*****************Facility sources: ******************************
** NMED source ID=41065EQPT1 Facility's ID=FLR-1
** Description=Flare Construction date=02-MAY-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065E1 POINT 650181.286 3569013.73 0
SO SRCPARAM 41065E1 .0163797 24.38 1273 20 20.806
** NMED source ID=41065EQPT2 Facility's ID=HTR-1
** Description=Line Heater Construction date=02-MAY-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065E2 POINT 650188.822 3569020.751 0
SO SRCPARAM 41065E2 .00126 3.05 310.93 2.24 .15
** NMED source ID=41065EQPT3 Facility's ID=HTR-2
** Description=Line Heater Construction date=02-MAY-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065E3 POINT 650182.036 3569024.303 0
SO SRCPARAM 41065E3 .00126 3.05 310.93 2.24 .15
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** NMED source ID=41065EQPT4 Facility's ID=HTR-3
** Description=Line Heater Construction date=02-MAY-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065E4 POINT 650174.439 3569022.211 0
SO SRCPARAM 41065E4 .00126 3.05 310.93 2.24 .15
** NMED source ID=41065EQPT5 Facility's ID=HTR-4
** Description=Line Heater Construction date=02-MAY-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41065E5 POINT 650170.198 3569015.311 0
SO SRCPARAM 41065E5 .00126 3.05 310.93 2.24 .15
**********END OF 41065: Falcon Ridge CPF-OGS
INFO***********************************
************************************************************
** 11.87km away. Facility ID=39520 Name=Jeff Hart East TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.269455, -103.418749, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=39520EQPT12 Facility's ID=FL-2- LP
** Description=Low Pressure Flare Construction date=04-JUN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39520E12 POINT 648927.351 3571400.821 0
SO SRCPARAM 39520E12 .00252 6.1 1273 20 4.652
** NMED source ID=39520EQPT13 Facility's ID=FL-1 HP
** Description=Standard Flare Construction date=04-JUN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39520E13 POINT 648934.887 3571407.842 0
SO SRCPARAM 39520E13 .0088199 15.09 1273 20 20.806
**********END OF 39520: Jeff Hart East TB INFO************************************
************************************************************
** 11.87km away. Facility ID=39004 Name=Wild Weasel 22 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1198, -103.4578, WGS84
** Total Sulfur Dioxide emissions=.3tons/year
*****************Facility sources: ****************************
** NMED source ID=39004EQPT5 Facility's ID=FL-2
** Description=Emergency Flare Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
```

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SO LOCATION 39004E5 POINT 645487.005 3554756.021 0
SO SRCPARAM 39004E5 .00126 18.29 1273 20 2.632
** NMED source ID=39004EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8303hr/yr, 24hr/day
SO LOCATION 39004E6 VOLUME 645494.541 3554763.042 0
SO SRCPARAM 39004E6 .0002898 4.88 .47 .93
** NMED source ID=39004EQPT7 Facility's ID=HTR-2
** Description=Heater Treater Construction date=05-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39004E7 VOLUME 645487.755 3554766.594 0
SO SRCPARAM 39004E7 .0002898 4.88 .47 .93
** NMED source ID=39004EQPT17 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=18-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39004E17 POINT 645480.158 3554764.502 0
SO SRCPARAM 39004E17 .0060353 15.24 1273 20 .86
** NMED source ID=39004EQPT18 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=08-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39004E18 POINT 645475.917 3554757.602 0
SO SRCPARAM 39004E18 .0005796 3.96 1085.93 82.3 .13
** NMED source ID=39004EQPT19 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=08-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39004E19 POINT 645477.569 3554749.448 0
SO SRCPARAM 39004E19 .0005796 3.96 1085.93 82.3 .13
**********END OF 39004: Wild Weasel 22 Fed Com CTB
INFO**********************************
************************************************************
** 11.89km away. Facility ID=40979 Name=Supreme Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.282387, -103.617332, WGS84
** Total Sulfur Dioxide emissions=2.21tons/year
*****************Facility sources: ****************************
** NMED source ID=40979EQPT1 Facility's ID=C-01
** Description=Compressor Engine Construction date=24-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E1 POINT 630203.995 3572576.117 0
SO SRCPARAM 40979E1 .0075599 6.71 910.37 13.2 .61
** NMED source ID=40979EQPT2 Facility's ID=C-02
** Description=Compressor Engine Construction date=24-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E2 POINT 630211.531 3572583.138 0
SO SRCPARAM 40979E2 .0075599 6.71 910.37 13.2 .61
** NMED source ID=40979EQPT3 Facility's ID=C-03
** Description=Compressor Engine Construction date=24-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E3 POINT 630204.745 3572586.69 0
SO SRCPARAM 40979E3 .0075599 6.71 910.37 13.2 .61
** NMED source ID=40979EQPT4 Facility's ID=C-04
** Description=Compressor Engine Construction date=24-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E4 POINT 630197.148 3572584.598 0
SO SRCPARAM 40979E4 .0075599 6.71 910.37 13.2 .61
** NMED source ID=40979EQPT5 Facility's ID=C-05
** Description=Compressor Engine Construction date=24-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E5 POINT 630192.907 3572577.698 0
SO SRCPARAM 40979E5 .0075599 6.71 910.37 13.2 .61
** NMED source ID=40979EQPT13 Facility's ID=GEN-1
** Description=Generator Construction date=24-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E13 POINT 630194.559 3572569.544 0
SO SRCPARAM 40979E13 .00126 1.8 922.04 21.88 .15
** NMED source ID=40979EQPT14 Facility's ID=Reb-1
** Description=Reboiler Construction date=24-APR-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E14 POINT 630201.508 3572564.582 0
SO SRCPARAM 40979E14 .00126 3.05 588.71 1.32 .61
** NMED source ID=40979EQPT30 Facility's ID=C-06
** Description=Compressor Engine Construction date=11-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 40979E30 POINT 630210.191 3572565.724 0
SO SRCPARAM 40979E30 .0075599 5.64 700.37 27.98 .51
** NMED source ID=40979EQPT31 Facility's ID=C-07
** Description=Compressor Engine Construction date=11-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E31 POINT 630215.901 3572572.652 0
SO SRCPARAM 40979E31 .0113398 5.64 708.15 37.64 .51
** NMED source ID=40979EQPT32 Facility's ID=EF-1
** Description=Enclosed Flare Construction date=11-DEC-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40979E32 POINT 630215.336 3572581.833 0
SO SRCPARAM 40979E32 .0075599 9.14 922.04 5.48 1.14
**********END OF 40979: Supreme Compressor Station
INFO**********************************
************************************************************
** 12.08km away. Facility ID=40217 Name=Pitchblende 29 Fed Com West CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.105, -103.4942, WGS84
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=40217EQPT2 Facility's ID=HTR-1
** Description=0.75 MMBtu/h Heater Treater Construction date=12-NOV-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40217E2 VOLUME 642075.703 3553066.696 0
SO SRCPARAM 40217E2 .00126 4.88 .47 .93
**********END OF 40217: Pitchblende 29 Fed Com West CTB
INFO**********************************
************************************************************
** 12.08km away. Facility ID=642 Name=Double X Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.212, -103.6521, Unknown
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=642EQPT4 Facility's ID=ENG-1
** Description=945-hp Caterpillar G3512LE Construction date=28-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 642E4 POINT 627027.641 3564731.327 0
SO SRCPARAM 642E4 .0005796 4.27 733.15 22.77 .38
**********END OF 642: Double X Booster Station
INFO**********************************
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************************************************************
** 12.1km away. Facility ID=38778 Name=Dos Equis 11-14 Fed Com CTB
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.236122, -103.648758, NAD83
** Total Sulfur Dioxide emissions=.42tons/year
*****************Facility sources: ****************************
** NMED source ID=38778EQPT8 Facility's ID=Flare1
** Description=Flare Construction date=11-JAN-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8488hr/yr, 23hr/day
SO LOCATION 38778E8 POINT 627308.985 3567409.443 0
SO SRCPARAM 38778E8 .00252 12.19 1273 20 2.632
** NMED source ID=38778EQPT12 Facility's ID=Flare-SSM
** Description=Flare-SSM Construction date=15-DEC-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38778E12 POINT 627316.521 3567416.464 0
SO SRCPARAM 38778E12 .0092105 12.19 1273 20 4.652
** NMED source ID=38778EQPT13 Facility's ID=HTR-1
** Description=Heater Treater Construction date=15-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38778E13 VOLUME 627309.735 3567420.016 0
SO SRCPARAM 38778E13 .00126 4.57 .47 .93
** NMED source ID=38778EQPT14 Facility's ID=HTR-2
** Description=Heater Treater Construction date=15-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38778E14 VOLUME 627302.138 3567417.924 0
SO SRCPARAM 38778E14 .00126 4.57 .47 .93
**********END OF 38778: Dos Equis 11-14 Fed Com CTB
INFO**********************************
************************************************************
** 12.12km away. Facility ID=8687 Name=Dogie Draw Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.130986, -103.436031, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=8687EQPT2 Facility's ID=GEN-01
** Description=Generator Engine 1 Construction date=18-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8687E2 POINT 647522.85 3556025.74 0
```

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SO SRCPARAM 8687E2 .0002898 4.51 744.26 145.91 .09
** NMED source ID=8687EQPT3 Facility's ID=GEN-02
** Description=Generator Engine 2 Construction date=18-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8687E3 POINT 647530.386 3556032.761 0
SO SRCPARAM 8687E3 .0002898 4.51 744.26 145.91 .09
** NMED source ID=8687EQPT4 Facility's ID=GEN-03
** Description=Generator Engine 3 Construction date=18-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8687E4 POINT 647523.6 3556036.313 0
SO SRCPARAM 8687E4 .0002898 4.51 744.26 145.91 .09
**********END OF 8687: Dogie Draw Fed Com CTB
INFO************************************
************************************************************
** 12.13km away. Facility ID=39676 Name=IBEX 15-10 Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.299701, -103.449815, WGS84
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=39676EQPT1 Facility's ID=ENG-01
** Description=400 HP Compressor Engine Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676E1 POINT 645952.672 3574711.34 0
SO SRCPARAM 39676E1 .0002898 4.57 778.71 13.94 .26
** NMED source ID=39676EQPT23 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=02-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39676E23 POINT 645960.208 3574718.361 0
SO SRCPARAM 39676E23 .0002898 6.17 695.37 37.61 .25
**********END OF 39676: IBEX 15-10 Battery INFO************************************
************************************************************
** 12.16km away. Facility ID=38051 Name=Triste Draw 25 West Battery
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.27169, -103.63086, WGS84
** Total Sulfur Dioxide emissions=.33tons/year
*****************Facility sources: ******************************
** NMED source ID=38051EQPT4 Facility's ID=Flare1
** Description=Flare (dual pressure) Construction date=20-SEP-17
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8700hr/yr, 24hr/day
SO LOCATION 38051E4 POINT 628945.111 3571373.893 0
SO SRCPARAM 38051E4 .00252 18.29 1273 20 20.806
** NMED source ID=38051EQPT14 Facility's ID=HTR1
** Description=Heater Treater Construction date=19-APR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8352hr/yr, 23hr/day
SO LOCATION 38051E14 VOLUME 628952.647 3571380.914 0
SO SRCPARAM 38051E14 .00126 4.57 .47 .93
** NMED source ID=38051EQPT30 Facility's ID=ENG5
** Description=Compressor Engine Construction date=16-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38051E30 POINT 628945.861 3571384.466 0
SO SRCPARAM 38051E30 .00126 6.86 724.26 52.55 .3
** NMED source ID=38051EQPT31 Facility's ID=Flare2 SSM
** Description=High Pressure Flare-SSM Construction date=05-OCT-18
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38051E31 POINT 628938.264 3571382.374 0
SO SRCPARAM 38051E31 .0054683 18.29 1273 20 3.604
**********END OF 38051: Triste Draw 25 West Battery
INFO**********************************
************************************************************
** 12.19km away. Facility ID=40257 Name=Antelope 9 B3OB State Com #1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.312429, -103.476503, WGS84
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=40257EQPT17 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=26-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E17 POINT 643419.633 3576086.4 0
SO SRCPARAM 40257E17 .0002898 4.57 778.71 13.94 .26
** NMED source ID=40257EQPT18 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=26-APR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40257E18 POINT 643427.169 3576093.421 0
SO SRCPARAM 40257E18 .0002898 4.57 778.71 13.94 .26
**********END OF 40257: Antelope 9 B3OB State Com #1H Battery
INFO**********************************
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** 12.2km away. Facility ID=26524 Name=Red Bull 31 State Facility
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21113    Permit=3589 NOI
** lat,long,datum=32.257361, -103.406778, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=26524EQPT14 Facility's ID=ECD-1
** Description=Combustor 1 Construction date=28-SEP-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 26524E14 POINT 650074.852 3570076.693 0
SO SRCPARAM 26524E14 .00252 6.1 1273 20 2.632
**********END OF 26524: Red Bull 31 State Facility
INFO*********************************
************************************************************
** 12.23km away. Facility ID=38827 Name=Delaware - Alamo Compressor Station
** Company ID=13452 Name=Delaware G & P, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.114519, -103.586975, NAD83
** Total Sulfur Dioxide emissions=.63tons/year
*****************Facility sources: ******************************
** NMED source ID=38827EQPT1 Facility's ID=E-1
** Description=Compressor Engine, Caterpillar, 2500 hp Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7409hr/yr, 24hr/day
SO LOCATION 38827E1 POINT 633307.528 3554003.427 0
SO SRCPARAM 38827E1 .00252 7.53 718.15 104.06 .24
** NMED source ID=38827EQPT2 Facility's ID=E-2
** Description=Compressor Engine, Caterpillar, 2500 hp Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6168hr/yr, 24hr/day
SO LOCATION 38827E2 POINT 633315.064 3554010.448 0
SO SRCPARAM 38827E2 .00252 7.53 718.15 104.06 .24
** NMED source ID=38827EQPT3 Facility's ID=E-3
** Description=Compressor Engine, Caterpillar, 3750 hp Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6507hr/yr, 24hr/day
SO LOCATION 38827E3 POINT 633308.278 3554014 0
SO SRCPARAM 38827E3 .00252 7.53 722.04 154.81 .24
** NMED source ID=38827EQPT4 Facility's ID=E-4
** Description=Compressor Engine, Caterpillar, 3750 hp Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7251hr/yr, 24hr/day
SO LOCATION 38827E4 POINT 633300.681 3554011.908 0
SO SRCPARAM 38827E4 .00252 6.52 722.04 154.81 .24
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** NMED source ID=38827EQPT6 Facility's ID=GEN-1
** Description=Generator Engine Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8607hr/yr, 24hr/day
SO LOCATION 38827E6 POINT 633296.44 3554005.008 0
SO SRCPARAM 38827E6 .0002898 3.51 1024.26 9.69 .09
** NMED source ID=38827EQPT7 Facility's ID=GEN2
** Description=Generator Engine Construction date=21-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=30hr/yr, 24hr/day
SO LOCATION 38827E7 POINT 633298.092 3553996.854 0
SO SRCPARAM 38827E7 .0002898 3.51 1024.26 9.69 .09
** NMED source ID=38827EQPT14 Facility's ID=E-6
** Description=Compressor Engine, Caterpillar, 2500 hp Construction date=04-JUN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38827E14 POINT 633305.041 3553991.892 0
SO SRCPARAM 38827E14 .00252 7.53 718.15 104.06 .24
** NMED source ID=38827EQPT15 Facility's ID=E-7
** Description=Compressor Engine, Caterpillar, 2500 hp Construction date=14-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38827E15 POINT 633313.724 3553993.034 0
SO SRCPARAM 38827E15 .00252 7.53 718.15 104.06 .24
** NMED source ID=38827EQPT16 Facility's ID=E-8
** Description=Compressor Engine, Caterpillar, 3750 hp Construction date=14-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38827E16 POINT 633319.434 3553999.962 0
SO SRCPARAM 38827E16 .00252 6.52 722.04 154.81 .24
**********END OF 38827: Delaware - Alamo Compressor Station
INFO***********************************
************************************************************
** 12.25km away. Facility ID=38269 Name=Fox 30 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1015, -103.5066, WGS84
** Total Sulfur Dioxide emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=38269EQPT5 Facility's ID=GEN-1
** Description=Emergency Generator Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6821hr/yr, 23hr/day
SO LOCATION 38269E5 POINT 640910.994 3552662.403 0
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SO SRCPARAM 38269E5 0 3.05 729.26 .3 .3
** NMED source ID=38269EQPT7 Facility's ID=HT-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38269E7 VOLUME 640918.53 3552669.424 0
SO SRCPARAM 38269E7 .00126 5.18 .47 .93
** NMED source ID=38269EQPT8 Facility's ID=HT-2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38269E8 VOLUME 640911.744 3552672.976 0
SO SRCPARAM 38269E8 .00126 5.18 .47 .93
**********END OF 38269: Fox 30 Fed Com CTB INFO************************************
************************************************************
** 12.26km away. Facility ID=39922 Name=Wild Salsa CTB
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.28082, -103.624175, WGS84
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=39922EQPT56 Facility's ID=GEN-1
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E56 POINT 629561.773 3572394.11 0
SO SRCPARAM 39922E56 .0002898 4.57 1005.37 49.01 .15
** NMED source ID=39922EQPT57 Facility's ID=GEN-2
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E57 POINT 629569.309 3572401.131 0
SO SRCPARAM 39922E57 .0002898 4.57 1005.37 49.01 .15
** NMED source ID=39922EQPT58 Facility's ID=GEN-3
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E58 POINT 629562.523 3572404.683 0
SO SRCPARAM 39922E58 .0002898 4.57 1005.37 49.01 .15
** NMED source ID=39922EQPT59 Facility's ID=GEN-4
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E59 POINT 629554.926 3572402.591 0
```

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SO SRCPARAM 39922E59 .0002898 4.57 1005.37 36.85 .15
** NMED source ID=39922EQPT60 Facility's ID=GEN-5
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E60 POINT 629550.685 3572395.691 0
SO SRCPARAM 39922E60 .0002898 4.57 1005.37 36.85 .15
** NMED source ID=39922EQPT61 Facility's ID=GEN-6
** Description=Generator Engine Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39922E61 POINT 629552.337 3572387.537 0
SO SRCPARAM 39922E61 .0002898 4.57 1005.37 36.85 .15
**********END OF 39922: Wild Salsa CTB INFO************************************
************************************************************
** 12.28km away. Facility ID=39183 Name=Bonaid Federal 17 D CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8501 NOI
** lat,long,datum=32.2231, -103.39438, WGS84
** Total Sulfur Dioxide emissions=13.79tons/year
*****************Facility sources: ****************************
** NMED source ID=39183EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39183E4 VOLUME 651299.623 3566295.734 0
SO SRCPARAM 39183E4 .125998 4.57 .47 .93
** NMED source ID=39183EQPT7 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=15-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39183E7 POINT 651307.159 3566302.755 0
SO SRCPARAM 39183E7 .125998 3.66 833.15 61.72 .1
** NMED source ID=39183EQPT8 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=15-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39183E8 POINT 651300.373 3566306.307 0
SO SRCPARAM 39183E8 .125998 3.66 833.15 61.72 .1
** NMED source ID=39183EQPT9 Facility's ID=FL-01
** Description=LP Flare Construction date=15-MAY-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39183E9 POINT 651292.776 3566304.215 0
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SO SRCPARAM 39183E9 .0188997 10.67 1273 20 .61
**********END OF 39183: Bonaid Federal 17 D CTB
INFO**********************************
************************************************************
** 12.33km away. Facility ID=38941 Name=Chevron - Cox 35 Fed 1H
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.254445, -103.644167, WGS84
** Total Sulfur Dioxide emissions=1.55tons/year
*****************Facility sources: ****************************
** NMED source ID=38941EQPT1 Facility's ID=REB-1
** Description=0.2 MMBtu/hr TEG Reboiler Construction date=11-JUN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38941E1 POINT 627715.915 3569446.187 0
SO SRCPARAM 38941E1 .00126 6.1 455.37 .77 .23
** NMED source ID=38941EQPT2 Facility's ID=HTR-1
** Description=0.2 MMBtu/hr heater treater Construction date=11-JUN-19
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38941E2 VOLUME 627723.451 3569453.208 0
SO SRCPARAM 38941E2 .00126 6.1 .47 .93
** NMED source ID=38941EQPT3 Facility's ID=ENG-1
** Description=Caterpillar 3508 TALE 630 hp Construction date=11-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38941E3 POINT 627716.665 3569456.76 0
SO SRCPARAM 38941E3 .0428393 4.65 730.93 32 .26
**********END OF 38941: Chevron - Cox 35 Fed 1H
INFO**********************************
************************************************************
** 12.43km away. Facility ID=40226 Name=EOG - Resolute 12 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1415, -103.6276, WGS84
** Total Sulfur Dioxide emissions=.24tons/year
*****************Facility sources: ****************************
** NMED source ID=40226EQPT1 Facility's ID=HTR-1
** Description=Heater Treater 1.5 MMBtu/hr Construction date=15-NOV-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40226E1 VOLUME 629436.452 3556944.963 0
SO SRCPARAM 40226E1 .0002898 6.1 .47 .93
** NMED source ID=40226EQPT8 Facility's ID=FL-1
** Description=3 MMscfd Encore Flare- VRU downtime Construction date=15-NOV-21
** SCC=30609903
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40226E8 POINT 629443.988 3556951.984 0
SO SRCPARAM 40226E8 .0034523 12.19 1273 20 20.806
** NMED source ID=40226EQPT9 Facility's ID=FL-2
** Description=30 MMscfd Encore Flare- Emergency Construction date=15-NOV-21
** SCC=30600903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40226E9 POINT 629437.202 3556955.536 0
SO SRCPARAM 40226E9 .0031625 18.29 1273 20 20.806
**********END OF 40226: EOG - Resolute 12 Fed Com CTB
INFO***********************************
************************************************************
** 12.46km away. Facility ID=37933 Name=Hound 30 Fed CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.099, -103.5129, WGS84
** Total Sulfur Dioxide emissions=.3tons/year
*****************Facility sources: ******************************
** NMED source ID=37933EQPT3 Facility's ID=FL-1
** Description=5.23 MMSCFD Flare Construction date=07-JUN-17
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37933E3 POINT 640320.317 3552377.033 0
SO SRCPARAM 37933E3 .0088199 6.1 1273 20 3.604
** NMED source ID=37933EQPT18 Facility's ID=HTR-1
** Description=2.0 MMBTU/hr Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37933E18 VOLUME 640327.853 3552384.054 0
SO SRCPARAM 37933E18 .0005796 6.1 .47 .93
**********END OF 37933: Hound 30 Fed CTB INFO************************************
************************************************************
** 12.55km away. Facility ID=38867 Name=Pronghorn 15 B3DM FED COM 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=8216 NOI
** lat,long,datum=32.311723, -103.465141, WGS84
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=38867EQPT21 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38867E21 POINT 644490.466 3576023.393 0
SO SRCPARAM 38867E21 .0002898 4.11 894.82 36.52 .13
**********END OF 38867: Pronghorn 15 B3DM FED COM 1H Battery
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INFO**********************************
************************************************************
** 12.58km away. Facility ID=39472 Name=Ghost Rider North Satellite and Gas Lift
** Company ID=10730 Name=Apache Corporation
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.215119, -103.657383, NAD83
** Total Sulfur Dioxide emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=39472EQPT3 Facility's ID=C-1
** Description=670-hp Caterpillar G3508LE Engine Construction date=13-NOV-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472E3 POINT 626525.405 3565070.865 0
SO SRCPARAM 39472E3 .0005796 6.1 819.82 49.13 .23
** NMED source ID=39472EQPT7 Facility's ID=FL-1-HP
** Description=18.5 MMscfd High Pressure Side- Flare Construction date=13-NOV-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472E7 POINT 626532.941 3565077.886 0
SO SRCPARAM 39472E7 .0327595 18.29 1273 20 20.806
** NMED source ID=39472EQPT12 Facility's ID=C-2
** Description=1380-hp Caterpillar G3516B Engine Construction date=24-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39472E12 POINT 626526.155 3565081.438 0
SO SRCPARAM 39472E12 .00126 6.1 810.93 36.82 .38
**********END OF 39472: Ghost Rider North Satellite and Gas Lift
INFO**********************************
************************************************************
** 12.62km away. Facility ID=39451 Name=EOG - Viper Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1327, -103.6212, WGS84
** Total Sulfur Dioxide emissions=4.57tons/year
*****************Facility sources: ******************************
** NMED source ID=39451EQPT1 Facility's ID=ENG-1
** Description=1875 HP CAT G3606A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6936hr/yr, 24hr/day
SO LOCATION 39451E1 POINT 630052.602 3555977.117 0
SO SRCPARAM 39451E1 .0176397 8.53 701.48 27.86 .51
** NMED source ID=39451EQPT2 Facility's ID=ENG-2
** Description=1875 HP CAT G3606A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6936hr/yr, 24hr/day
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SO LOCATION 39451E2 POINT 630060.138 3555984.138 0
SO SRCPARAM 39451E2 .0176397 8.53 701.48 27.86 .51
** NMED source ID=39451EQPT3 Facility's ID=ENG-3
** Description=1875 HP CAT G3606A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2544hr/yr, 24hr/day
SO LOCATION 39451E3 POINT 630053.352 3555987.69 0
SO SRCPARAM 39451E3 .0176397 8.53 701.48 27.86 .51
** NMED source ID=39451EQPT4 Facility's ID=ENG-4
** Description=2500 HP CAT G3608A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6936hr/yr, 24hr/day
SO LOCATION 39451E4 POINT 630045.755 3555985.598 0
SO SRCPARAM 39451E4 .0251996 8.84 688.15 25.51 .61
** NMED source ID=39451EQPT5 Facility's ID=ENG-5
** Description=2500 HP CAT G3608A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2544hr/yr, 24hr/day
SO LOCATION 39451E5 POINT 630041.514 3555978.698 0
SO SRCPARAM 39451E5 .0251996 8.84 688.15 25.51 .61
** NMED source ID=39451EQPT6 Facility's ID=ENG-6
** Description=2500 HP CAT G3608A4 Engine Construction date=03-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39451E6 POINT 630043.166 3555970.544 0
SO SRCPARAM 39451E6 .0251996 8.84 688.15 25.51 .61
** NMED source ID=39451EQPT12 Facility's ID=Reboiler-1
** Description=1 MMbtu/hr Dehydrator Reboiler Construction date=03-MAR-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8064hr/yr, 24hr/day
SO LOCATION 39451E12 POINT 630050.115 3555965.582 0
SO SRCPARAM 39451E12 .0251996 3.96 588.71 2.65 .3
** NMED source ID=39451EQPT13 Facility's ID=Heater-1
** Description=0.5 MMbtu/hr Separator Heater Construction date=03-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7560hr/yr, 24hr/day
SO LOCATION 39451E13 POINT 630058.798 3555966.724 0
SO SRCPARAM 39451E13 .00126 3.96 588.71 1.31 .3
** NMED source ID=39451EQPT14 Facility's ID=Flare-1
** Description=5.23 MM SCFD Process Flare Construction date=03-MAR-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7584hr/yr, 24hr/day
SO LOCATION 39451E14 POINT 630064.508 3555973.652 0
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SO SRCPARAM 39451E14 .00126 12.19 1273 20 20.806
**********END OF 39451: EOG - Viper Localized Gas Lift Station
INFO**********************************
************************************************************
** 12.68km away. Facility ID=38292 Name=Dogwood 23 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0967, -103.521389, WGS84
** Total Sulfur Dioxide emissions=.19tons/year
*****************Facility sources: ****************************
** NMED source ID=38292EQPT2 Facility's ID=FL-1
** Description=Flare, TK-1 thru TK-8, TKW1 thru TK-W4 Construction date=26-JUL-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38292E2 POINT 639522.728 3552111.035 0
SO SRCPARAM 38292E2 .0037799 6.1 1273 20 .61
** NMED source ID=38292EQPT15 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-MAR-18
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38292E15 VOLUME 639530.264 3552118.056 0
SO SRCPARAM 38292E15 .0002898 4.88 .47 .93
** NMED source ID=38292EQPT21 Facility's ID=FL-1-SSM
** Description=Flare Construction date=26-JUL-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38292E21 POINT 639523.478 3552121.608 0
SO SRCPARAM 38292E21 .0017262 6.1 1273 20 .61
** NMED source ID=38292EQPT22 Facility's ID=FL-2
** Description=Flare Construction date=26-JUL-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38292E22 POINT 639515.881 3552119.516 0
SO SRCPARAM 38292E22 .0037799 18.29 1273 20 5.885
**********END OF 38292: Dogwood 23 Fed Com CTB
INFO**********************************
************************************************************
** 12.71km away. Facility ID=37515 Name=Twisted Sister Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.150834, -103.638889, NAD83
** Total Sulfur Dioxide emissions=7.79tons/year
*****************Facility sources: ****************************
** NMED source ID=37515EQPT2 Facility's ID=16-0494
** Description=Compressor Engine Cat G3606 1775HP Construction date=12-MAY-17
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7998hr/yr, 22hr/day
SO LOCATION 37515E2 POINT 628358.572 3557966.203 0
SO SRCPARAM 37515E2 .0226796 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT7 Facility's ID=16-0495
** Description=Compressor Engine Cat G3606 1775HP Construction date=12-MAY-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8336hr/yr, 23hr/day
SO LOCATION 37515E7 POINT 628366.108 3557973.224 0
SO SRCPARAM 37515E7 .0226796 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT8 Facility's ID=17-0584
** Description=Compressor Engine Cat G3606 1775HP Construction date=12-MAY-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8207hr/yr, 22hr/day
SO LOCATION 37515E8 POINT 628359.322 3557976.776 0
SO SRCPARAM 37515E8 .0226796 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT9 Facility's ID=ENG-4
** Description=Compressor Engine Cat. G3606 1775HP Construction date=12-MAY-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37515E9 POINT 628351.725 3557974.684 0
SO SRCPARAM 37515E9 .0226796 7.01 725.93 35.05 .46
** NMED source ID=37515EQPT18 Facility's ID=AU-RB
** Description=Amine Reboiler 12.6 MMBTU/hr Construction date=16-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8630hr/yr, 24hr/day
SO LOCATION 37515E18 POINT 628347.484 3557967.784 0
SO SRCPARAM 37515E18 .0201597 9.14 588.71 9.91 .56
** NMED source ID=37515EQPT19 Facility's ID=Gen-1
** Description=Generator 612 HP Construction date=14-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37515E19 POINT 628349.136 3557959.63 0
SO SRCPARAM 37515E19 .0075599 4.51 1023.15 177.97 .1
** NMED source ID=37515EQPT20 Facility's ID=Gen-2
** Description=Generator 612 HP Construction date=14-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37515E20 POINT 628356.085 3557954.668 0
SO SRCPARAM 37515E20 .0075599 4.51 1023.15 177.97 .1
** NMED source ID=37515EQPT21 Facility's ID=RBL-1
** Description=0.75 MMBTU/h Dehydrator Reboiler Construction date=13-SEP-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8630hr/yr, 24hr/day
SO LOCATION 37515E21 POINT 628364.768 3557955.81 0
SO SRCPARAM 37515E21 .00126 4.57 588.71 5.27 .3
** NMED source ID=37515EQPT22 Facility's ID=RBL-2
** Description=0.5 MMBTU/h Dehydrator Reboiler Construction date=13-SEP-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37515E22 POINT 628370.478 3557962.738 0
SO SRCPARAM 37515E22 .00126 4.57 588.71 5.27 .3
** NMED source ID=37515EQPT25 Facility's ID=TO-1
** Description=Control Thermal Oxidizer Construction date=13-SEP-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5208hr/yr, 14hr/day
SO LOCATION 37515E25 POINT 628369.913 3557971.919 0
SO SRCPARAM 37515E25 .1020584 6.1 1033.15 12.19 .46
**********END OF 37515: Twisted Sister Compressor Station
INFO**********************************
************************************************************
** 12.76km away. Facility ID=35462 Name=Lomas Rojas 26 CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.096516, -103.537316, WGS84
** Total Sulfur Dioxide emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=35462EQPT5 Facility's ID=HTR-1
** Description=Heater Treater (0.75 MM BTU/h) Construction date=20-NOV-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35462E5 VOLUME 638019.978 3552070.133 0
SO SRCPARAM 35462E5 .0002898 4.88 .47 .93
** NMED source ID=35462EQPT6 Facility's ID=HTR-2
** Description=Heater Treater (0.75 MM BTU/h) Construction date=20-NOV-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35462E6 VOLUME 638027.514 3552077.154 0
SO SRCPARAM 35462E6 .0002898 4.88 .47 .93
** NMED source ID=35462EQPT9 Facility's ID=FL-1
** Description=Process Flare, 3.0 MMscf/day Construction date=20-JUL-15
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 35462E9 POINT 638020.728 3552080.706 0
SO SRCPARAM 35462E9 .0011466 7.62 1273 20 2.632
** NMED source ID=35462RPNT4 Facility's ID=Flare-2
** Description=Energency Flare, 20.0 MMscf/day Construction date=24-OCT-17
** SCC=31000205
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35462R4 POINT 638013.131 3552078.614 0
SO SRCPARAM 35462R4 .0005796 12.19 1273.15 19.99 .7
**********END OF 35462: Lomas Rojas 26 CTB INFO**********************************
************************************************************
** 12.78km away. Facility ID=40062 Name=Merciless 13 CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1355, -103.6266, WGS84
** Total Sulfur Dioxide emissions=.29tons/year
*****************Facility sources: ****************************
** NMED source ID=40062EQPT2 Facility's ID=FL-2
** Description=Emergency Flare Construction date=14-JUL-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40062E2 POINT 629539.257 3556281.013 0
SO SRCPARAM 40062E2 .0005796 15.24 1273 20 20.806
** NMED source ID=40062EQPT3 Facility's ID=HTR-1
** Description=Heater Treater Construction date=14-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40062E3 POINT 629546.793 3556288.034 0
SO SRCPARAM 40062E3 .0002898 7.32 588.71 .19 1.83
** NMED source ID=40062EQPT6 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=06-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40062E6 POINT 629540.007 3556291.586 0
SO SRCPARAM 40062E6 .0005796 3.96 803.71 58.52 .13
** NMED source ID=40062EQPT7 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=06-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40062E7 POINT 629532.41 3556289.494 0
SO SRCPARAM 40062E7 .00126 3.96 1003.71 82.6 .13
** NMED source ID=40062EQPT8 Facility's ID=HTR-2
** Description=Heater Treater Construction date=06-NOV-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40062E8 POINT 629528.169 3556282.594 0
SO SRCPARAM 40062E8 .0002898 4.88 588.71 .21 1.22
** NMED source ID=40062EQPT13 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=22-JUN-21
** SCC=31000160
```

```
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40062E13 POINT 629529.821 3556274.44 0
SO SRCPARAM 40062E13 .0060353 12.19 1273 20 4.652
**********END OF 40062: Merciless 13 CTB INFO**********************************
************************************************************
** 12.83km away. Facility ID=39048 Name=Apache - Ghost Rider Satellite and Gas Lift
** Company ID=10730 Name=Apache Corporation
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.196842, -103.659133, NAD83
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=39048EQPT1 Facility's ID=C-1
** Description=1380 hp, Caterpillar G3516J 4SLB Construction date=13-NOV-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7209hr/yr, 24hr/day
SO LOCATION 39048E1 POINT 626385.752 3563042.631 0
SO SRCPARAM 39048E1 .00126 7.92 720.37 52.37 .3
** NMED source ID=39048EQPT3 Facility's ID=REB-1
** Description=0.3 MMBTU/h Glycol Reboiler Construction date=19-JUL-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8040hr/yr, 24hr/day
SO LOCATION 39048E3 POINT 626393.288 3563049.652 0
SO SRCPARAM 39048E3 .0002898 6.1 588.71 3.45 .15
** NMED source ID=39048EQPT5 Facility's ID=FL-1
** Description=Flare Construction date=19-JUL-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=88hr/yr, 24hr/day
SO LOCATION 39048E5 POINT 626386.502 3563053.204 0
SO SRCPARAM 39048E5 .00126 18.29 1273 20 20.806
** NMED source ID=39048EQPT6 Facility's ID=C-2
** Description=670 hp, Caterpillar G3508LE 4SLB Construction date=19-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7648hr/yr, 24hr/day
SO LOCATION 39048E6 POINT 626378.905 3563051.112 0
SO SRCPARAM 39048E6 .00126 6.1 820.93 52.06 .23
**********END OF 39048: Apache - Ghost Rider Satellite and Gas Lift
INFO**********************************
************************************************************
** 12.87km away. Facility ID=40238 Name=EOG - Tiger Local Gas Lift
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1563, -103.6445, WGS84
** Total Sulfur Dioxide emissions=.99tons/year
*****************Facility sources: ****************************
** NMED source ID=40238EQPT1 Facility's ID=ENG-1
```

```
** Description=Caterpillar G3608 2500hp Construction date=07-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40238E1 POINT 627821.757 3558565.479 0
SO SRCPARAM 40238E1 .00252 6.1 688.15 25.24 .61
** NMED source ID=40238EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3608 2500hp Construction date=07-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40238E2 POINT 627829.293 3558572.5 0
SO SRCPARAM 40238E2 .00252 6.1 688.15 25.24 .61
** NMED source ID=40238EQPT3 Facility's ID=ENG-3
** Description=Caterpillar G3608 2500hp Construction date=07-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40238E3 POINT 627822.507 3558576.052 0
SO SRCPARAM 40238E3 .00252 6.1 688.15 25.24 .61
** NMED source ID=40238EQPT4 Facility's ID=ENG-4
** Description=Caterpillar G3608 2500hp Construction date=07-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40238E4 POINT 627814.91 3558573.96 0
SO SRCPARAM 40238E4 .00252 6.1 688.15 25.24 .61
** NMED source ID=40238EQPT5 Facility's ID=ENG-5
** Description=Caterpillar G3608 2500hp Construction date=07-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40238E5 POINT 627810.669 3558567.06 0
SO SRCPARAM 40238E5 .00252 6.1 688.15 25.24 .61
** NMED source ID=40238EQPT6 Facility's ID=ENG-6
** Description=Caterpillar G3608 2500hp Construction date=07-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40238E6 POINT 627812.321 3558558.906 0
SO SRCPARAM 40238E6 .00252 6.1 688.15 25.24 .61
** NMED source ID=40238EQPT10 Facility's ID=HTR-1
** Description=Separator Heater 1.5 MMBtu/hr Construction date=07-DEC-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40238E10 VOLUME 627819.27 3558553.944 0
SO SRCPARAM 40238E10 .00126 6.1 .47 .93
** NMED source ID=40238EQPT12 Facility's ID=RBL-1
** Description=Dehydrator Reboiler 1.0 MMBtu/hr Construction date=07-DEC-21
```

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** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40238E12 POINT 627827.953 3558555.086 0
SO SRCPARAM 40238E12 .00252 2.44 588.71 .22 1.07
** NMED source ID=40238EQPT13 Facility's ID=FL-1
** Description=Dual-tip Flare 5.23-MMSCFD Construction date=07-DEC-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40238E13 POINT 627833.663 3558562.014 0
SO SRCPARAM 40238E13 .0075599 6.1 1273 20 20.806
**********END OF 40238: EOG - Tiger Local Gas Lift
INFO**********************************
************************************************************
** 12.89km away. Facility ID=40286 Name=Modelo 10 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2348, -103.6577, WGS84
** Total Sulfur Dioxide emissions=.5tons/year
*****************Facility sources: ******************************
** NMED source ID=40286EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=14-JAN-22
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E1 VOLUME 626468.267 3567252.32 0
SO SRCPARAM 40286E1 .0002898 7.32 .47 .93
** NMED source ID=40286EQPT5 Facility's ID=FL-1
** Description=Process Flare Construction date=14-JAN-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E5 POINT 626475.803 3567259.341 0
SO SRCPARAM 40286E5 .0062999 12.19 1273 20 4.652
** NMED source ID=40286EQPT6 Facility's ID=FL-1 SSM
** Description=Process Flare, SSM Construction date=14-JAN-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E6 POINT 626469.017 3567262.893 0
SO SRCPARAM 40286E6 .0057581 12.19 1273 20 3.604
** NMED source ID=40286EQPT20 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=13-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E20 POINT 626461.42 3567260.801 0
SO SRCPARAM 40286E20 .0005796 3.96 803.71 59.13 .13
** NMED source ID=40286EQPT21 Facility's ID=ENG-2
```

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** Description=Compressor Engine Construction date=13-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E21 POINT 626457.179 3567253.901 0
SO SRCPARAM 40286E21 .00126 3.96 1003.71 82.6 .13
** NMED source ID=40286EQPT22 Facility's ID=HTR-2
** Description=Heater Treater Construction date=13-NOV-23
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E22 VOLUME 626458.831 3567245.747 0
SO SRCPARAM 40286E22 .0002898 7.32 .47 .93
** NMED source ID=40286EQPT23 Facility's ID=HTR-3
** Description=Heater Treater Construction date=13-NOV-23
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40286E23 VOLUME 626465.78 3567240.785 0
SO SRCPARAM 40286E23 .0002898 4.88 .47 .93
**********END OF 40286: Modelo 10 Fed Com CTB
INFO**********************************
************************************************************
** 12.92km away. Facility ID=40347 Name=North Mid Bell Lake Compressor Station
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.32606, -103.5102, NAD83
** Total Sulfur Dioxide emissions=.15tons/year
*****************Facility sources: ******************************
** NMED source ID=40347EQPT3 Facility's ID=ENG-1
** Description=2500 HP Compressor Engine Construction date=16-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E3 POINT 640226.125 3577552.987 0
SO SRCPARAM 40347E3 .00126 7.01 691.48 46.63 .46
** NMED source ID=40347EQPT4 Facility's ID=ENG-2
** Description=2500 HP Compressor Engine Construction date=16-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E4 POINT 640233.661 3577560.008 0
SO SRCPARAM 40347E4 .00126 7.01 691.48 46.63 .46
** NMED source ID=40347EQPT5 Facility's ID=ENG-3
** Description=2500 HP Compressor Engine Construction date=16-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E5 POINT 640226.875 3577563.56 0
SO SRCPARAM 40347E5 .00126 7.01 691.48 46.63 .46
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** NMED source ID=40347EQPT6 Facility's ID=ENG-4
** Description=2500 HP Compressor Engine Construction date=16-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E6 POINT 640219.278 3577561.468 0
SO SRCPARAM 40347E6 .00126 7.01 691.48 46.63 .46
** NMED source ID=40347EQPT7 Facility's ID=ENG-5
** Description=2500 HP Compressor Engine Construction date=16-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40347E7 POINT 640215.037 3577554.568 0
SO SRCPARAM 40347E7 .00126 7.01 691.48 46.63 .46
**********END OF 40347: North Mid Bell Lake Compressor Station
INFO***********************************
************************************************************
** 12.92km away. Facility ID=39052 Name=Ghost Rider CTB
** Company ID=10730 Name=Apache Corporation
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.206583, -103.661027, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=39052EQPT18 Facility's ID=FL-1
** Description=Standard Flare, Vaprox, GFS 10010D, 250,323 scfh Construction
date=24-JUL-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39052E18 POINT 626193.765 3564120.285 0
SO SRCPARAM 39052E18 .0075599 18.29 1273 20 13.159
** NMED source ID=39052EQPT19 Facility's ID=COMB-1
** Description=Combustor Construction date=01-MAR-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39052E19 POINT 626201.301 3564127.306 0
SO SRCPARAM 39052E19 .00252 6.1 1273 20 1.19
**********END OF 39052: Ghost Rider CTB INFO***********************************
************************************************************
** 12.92km away. Facility ID=40079 Name=Pegasus 3 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2408, -103.6563, WGS84
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=40079EQPT1 Facility's ID=HT-1
** Description=Heater Treater - 1.5 MMBtu/hr Construction date=21-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40079E1 VOLUME 626591.86 3567919.129 0
SO SRCPARAM 40079E1 .00126 5.18 .47 .93
**********END OF 40079: Pegasus 3 Fed Com CTB
INFO**********************************
************************************************************
** 12.95km away. Facility ID=7126 Name=Gorgon LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.24285, -103.65597, WGS84
** Total Sulfur Dioxide emissions=.83tons/year
*****************Facility sources: ******************************
** NMED source ID=7126EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine 1, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E2 POINT 626620.107 3568146.781 0
SO SRCPARAM 7126E2 .00252 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine 2, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E3 POINT 626627.643 3568153.802 0
SO SRCPARAM 7126E3 .00252 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine 3, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E4 POINT 626620.857 3568157.354 0
SO SRCPARAM 7126E4 .00252 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine 4, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E5 POINT 626613.26 3568155.262 0
SO SRCPARAM 7126E5 .00252 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine 5, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E6 POINT 626609.019 3568148.362 0
SO SRCPARAM 7126E6 .00252 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine 6, Cat G3608 (2500hp) Construction date=20-SEP-23
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E7 POINT 626610.671 3568140.208 0
SO SRCPARAM 7126E7 .00252 6.1 700.37 46.42 .46
** NMED source ID=7126EQPT9 Facility's ID=FL-1
** Description=Process Flare Construction date=20-SEP-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E9 POINT 626617.62 3568135.246 0
SO SRCPARAM 7126E9 .0002898 6.1 1273 20 20.806
** NMED source ID=7126EQPT10 Facility's ID=HTR-1
** Description=Heater Treater, 1.0 MMBtu/hr Construction date=20-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E10 VOLUME 626626.303 3568136.388 0
SO SRCPARAM 7126E10 .00252 3.05 .47 .93
** NMED source ID=7126EQPT12 Facility's ID=RBL-1
** Description=Dehy Reboiler, 1.5 MMBtu/hr Construction date=20-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7126E12 POINT 626632.013 3568143.316 0
SO SRCPARAM 7126E12 .0037799 4.57 588.71 3.99 .3
**********END OF 7126: Gorgon LGL Station INFO**********************************
************************************************************
** 12.96km away. Facility ID=38608 Name=Modelo 10 Facility
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=7983 NOI
** lat,long,datum=32.2383, -103.6575, WGS84
** Total Sulfur Dioxide emissions=7.74tons/year
*****************Facility sources: ******************************
** NMED source ID=38608EQPT2 Facility's ID=FL-1
** Description=Flare Construction date=18-SEP-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38608E2 POINT 626482.262 3567640.565 0
SO SRCPARAM 38608E2 .2230165 18.29 1273 20 2.632
**********END OF 38608: Modelo 10 Facility INFO**********************************
************************************************************
** 12.99km away. Facility ID=40258 Name=EOG - Pitchblende 29 Fed Com East CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0988, -103.4843, WGS84
** Total Sulfur Dioxide emissions=.18tons/year
*****************Facility sources: ******************************
** NMED source ID=40258EQPT1 Facility's ID=HTR-1
** Description=Heater Treater, .75 MMBtu/hr Construction date=13-DEC-21
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** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40258E1 VOLUME 643019.552 3552392.451 0
SO SRCPARAM 40258E1 .0002898 4.88 .47 .93
** NMED source ID=40258EQPT8 Facility's ID=FL-SSM
** Description=Flare-Zecco, 3 MMSCFD, SSM VRU downtime Construction date=13-DEC-21
** SCC=30600903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40258E8 POINT 643027.088 3552399.472 0
SO SRCPARAM 40258E8 .0048887 12.19 1273 20 3.604
**********END OF 40258: EOG - Pitchblende 29 Fed Com East CTB
INFO**********************************
************************************************************
** 13.02km away. Facility ID=37349 Name=Viking Helmet State Com 2H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7054 NOI
** lat,long,datum=32.195107, -103.386899, WGS84
** Total Sulfur Dioxide emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=37349EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37349E4 VOLUME 652051.232 3563202.846 0
SO SRCPARAM 37349E4 .00126 6.71 .47 .93
** NMED source ID=37349EQPT6 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=02-JUL-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37349E6 VOLUME 652058.768 3563209.867 0
SO SRCPARAM 37349E6 .00126 6.71 .47 .93
**********END OF 37349: Viking Helmet State Com 2H Battery
INFO**********************************
************************************************************
** 13.1km away. Facility ID=38050 Name=Vaca Draw 20-17 Federal 1H-13H, 29H-31H,
43H-45H, 57H-59H, 61H, 71H-73H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.11182, -103.5995, WGS84
** Total Sulfur Dioxide emissions=12.57tons/year
*****************Facility sources: ******************************
** NMED source ID=38050EQPT2 Facility's ID=HTR-1
** Description=Heater Treater, 2 MMBtu/hr Construction date=01-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8704hr/yr, 24hr/day
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SO LOCATION 38050E2 VOLUME 632129.68 3553688.791 0
SO SRCPARAM 38050E2 .00126 4.57 .47 .93
** NMED source ID=38050EQPT7 Facility's ID=Flare1
** Description=Process Flare Construction date=05-JUL-18
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38050E7 POINT 632137.216 3553695.812 0
SO SRCPARAM 38050E7 .0277196 18.29 1273 20 20.806
** NMED source ID=38050EQPT18 Facility's ID=HTR-2
** Description=Heater Treater, 2 MMBtu/hr Construction date=01-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8704hr/yr, 24hr/day
SO LOCATION 38050E18 VOLUME 632130.43 3553699.364 0
SO SRCPARAM 38050E18 .00126 4.57 .47 .93
** NMED source ID=38050EQPT19 Facility's ID=HTR-4
** Description=Heater Treater, 2 MMBtu/hr Construction date=29-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8721hr/yr, 24hr/day
SO LOCATION 38050E19 VOLUME 632122.833 3553697.272 0
SO SRCPARAM 38050E19 .00126 4.57 .47 .93
** NMED source ID=38050EQPT21 Facility's ID=HTR-3
** Description=Heater Treater, 2 MMBtu/hr Construction date=01-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8704hr/yr, 24hr/day
SO LOCATION 38050E21 VOLUME 632118.592 3553690.372 0
SO SRCPARAM 38050E21 .00126 4.57 .47 .93
** NMED source ID=38050EQPT22 Facility's ID=HTR-5
** Description=Heater Treater, 2 MMBtu/hr Construction date=29-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8721hr/yr, 24hr/day
SO LOCATION 38050E22 VOLUME 632120.244 3553682.218 0
SO SRCPARAM 38050E22 .00126 4.57 .47 .93
** NMED source ID=38050EQPT23 Facility's ID=HTR-6
** Description=Heater Treater, 2 MMBtu/hr Construction date=29-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8721hr/yr, 24hr/day
SO LOCATION 38050E23 VOLUME 632127.193 3553677.256 0
SO SRCPARAM 38050E23 .00126 4.57 .47 .93
** NMED source ID=38050EQPT26 Facility's ID=Flare3
** Description=Process Flare Construction date=05-JUL-18
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38050E26 POINT 632135.876 3553678.398 0
```

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SO SRCPARAM 38050E26 .0516592 18.29 1273 20 20.806
** NMED source ID=38050EQPT64 Facility's ID=ENG1
** Description=Compressor Engine Construction date=20-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E64 POINT 632141.586 3553685.326 0
SO SRCPARAM 38050E64 .00126 6.1 812.59 57.21 .3
** NMED source ID=38050EQPT71 Facility's ID=Flare1 SSM
** Description=Process Flare Construction date=02-NOV-17
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E71 POINT 632141.021 3553694.507 0
SO SRCPARAM 38050E71 .0417179 18.29 1273 20 2.632
** NMED source ID=38050EQPT72 Facility's ID=Flare3 SSM
** Description=Process Flare Construction date=02-NOV-17
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E72 POINT 632134.186 3553700.985 0
SO SRCPARAM 38050E72 .2603371 18.29 1273 20 2.632
** NMED source ID=38050EQPT73 Facility's ID=Flare4 SSM
** Description=Process Flare Construction date=02-NOV-17
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38050E73 POINT 632124.55 3553701.062 0
SO SRCPARAM 38050E73 .0011466 27.43 1273 20 20.806
**********END OF 38050: Vaca Draw 20-17 Federal 1H-13H, 29H-31H, 43H-45H, 57H-59H,
61H, 71H-73H INFO**********************************
************************************************************
** 13.1km away. Facility ID=40809 Name=Serpentine 2 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9796 NOI
** lat,long,datum=32.327783, -103.53593, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=40809EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=10-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40809E1 POINT 637801.471 3577710.612 0
SO SRCPARAM 40809E1 .0002898 5.58 812.59 35.42 .2
**********END OF 40809: Serpentine 2 Wellpad 2
INFO**********************************
************************************************************
** 13.13km away. Facility ID=40808 Name=Serpentine 2 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
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** SIC=1311 NAIC=21112    Permit=9795 NOI
** lat,long,datum=32.327817, -103.539245, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=40808EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=10-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40808E1 POINT 637489.376 3577710.121 0
SO SRCPARAM 40808E1 .0002898 5.85 772.59 21.02 .27
**********END OF 40808: Serpentine 2 Wellpad 1
INFO*********************************
************************************************************
** 13.17km away. Facility ID=6334 Name=Tweety Bird 17 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.30901, -103.60152, WGS84
** Total Sulfur Dioxide emissions=4.65tons/year
*****************Facility sources: ******************************
** NMED source ID=6334EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=30-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E1 POINT 631654.619 3575546.9 0
SO SRCPARAM 6334E1 .0075599 3.96 803.71 58.52 .13
** NMED source ID=6334EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=30-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E2 POINT 631662.155 3575553.921 0
SO SRCPARAM 6334E2 .0075599 3.96 1003.71 82.3 .13
** NMED source ID=6334EQPT3 Facility's ID=ENG-3
** Description=Gas Lift Engine Construction date=30-JUN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E3 POINT 631655.369 3575557.473 0
SO SRCPARAM 6334E3 .0264596 8.53 716.48 19.02 .51
** NMED source ID=6334EQPT4 Facility's ID=FL-1
** Description=Process Flare Construction date=30-JUN-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E4 POINT 631647.772 3575555.381 0
SO SRCPARAM 6334E4 .0002898 12.19 1273 20 20.806
** NMED source ID=6334EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=30-JUN-23
```

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** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E6 VOLUME 631643.531 3575548.481 0
SO SRCPARAM 6334E6 .0050399 7.32 .47 .93
** NMED source ID=6334EQPT7 Facility's ID=HTR-2
** Description=Heater Treater Construction date=30-JUN-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E7 VOLUME 631645.183 3575540.327 0
SO SRCPARAM 6334E7 .00252 4.88 .47 .93
** NMED source ID=6334EQPT17 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=30-JUN-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6334E17 POINT 631652.132 3575535.365 0
SO SRCPARAM 6334E17 .0848597 12.19 1273 20 4.652
**********END OF 6334: Tweety Bird 17 Fed Com CTB
INFO**********************************
************************************************************
** 13.19km away. Facility ID=38665 Name=Irvin Wall State Com No131H
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.254524, -103.393834, WGS84
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=38665EQPT4 Facility's ID=ENG-1
** Description=690 hp Caterpillar G3508B Construction date=29-OCT-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 23hr/day
SO LOCATION 38665E4 POINT 651298.967 3569780.343 0
SO SRCPARAM 38665E4 .0002898 6.71 800.37 11.41 .06
**********END OF 38665: Irvin Wall State Com No131H
INFO**********************************
************************************************************
** 13.27km away. Facility ID=40454 Name=Sneaky Snake 24 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.285737, -103.633298, NAD83
** Total Sulfur Dioxide emissions=.13tons/year
*****************Facility sources: ****************************
** NMED source ID=40454EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=03-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E2 VOLUME 628695.641 3572928.23 0
```

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SO SRCPARAM 40454E2 .00126 9.14 .47 .93
** NMED source ID=40454EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=03-JUN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E3 VOLUME 628703.177 3572935.251 0
SO SRCPARAM 40454E3 .00126 9.14 .47 .93
** NMED source ID=40454EQPT12 Facility's ID=ENG 1
** Description=ENG 1 Generator Engine Construction date=22-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E12 POINT 628696.391 3572938.803 0
SO SRCPARAM 40454E12 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=40454EQPT13 Facility's ID=ENG 2
** Description=ENG 2 Generator Engine Construction date=22-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E13 POINT 628688.794 3572936.711 0
SO SRCPARAM 40454E13 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=40454EQPT14 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=22-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E14 POINT 628684.553 3572929.811 0
SO SRCPARAM 40454E14 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=40454EQPT15 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=22-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E15 POINT 628686.205 3572921.657 0
SO SRCPARAM 40454E15 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=40454EQPT16 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=22-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E16 POINT 628693.154 3572916.695 0
SO SRCPARAM 40454E16 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=40454EQPT17 Facility's ID=FL-1 HP SSM
** Description=Flare 1 High Pressure Side Construction date=22-NOV-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E17 POINT 628701.837 3572917.837 0
SO SRCPARAM 40454E17 .0002898 12.19 1273 20 4.652
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** NMED source ID=40454EQPT18 Facility's ID=FL-1 LP SSM
** Description=Flare 1 Low Pressure Side Construction date=22-NOV-23
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40454E18 POINT 628707.547 3572924.765 0
SO SRCPARAM 40454E18 .0008568 12.19 1273 20 20.806
**********END OF 40454: Sneaky Snake 24 CTB 1
INFO**********************************
************************************************************
** 13.29km away. Facility ID=38177 Name=EOG - Valor Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=7598 NSR
** lat,long,datum=32.125, -103.622222, WGS84
** Total Sulfur Dioxide emissions=48.32tons/year
*****************Facility sources: ****************************
** NMED source ID=38177EQPT1 Facility's ID=Eng 1
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38177E1 POINT 629967.115 3555122.271 0
SO SRCPARAM 38177E1 .1738772 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT12 Facility's ID=Eng 2
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8728hr/yr, 24hr/day
SO LOCATION 38177E12 POINT 629974.651 3555129.292 0
SO SRCPARAM 38177E12 .1738772 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT13 Facility's ID=Eng 3
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8656hr/yr, 24hr/day
SO LOCATION 38177E13 POINT 629967.865 3555132.844 0
SO SRCPARAM 38177E13 .1738772 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT14 Facility's ID=Eng 4
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8752hr/yr, 24hr/day
SO LOCATION 38177E14 POINT 629960.268 3555130.752 0
SO SRCPARAM 38177E14 .1738772 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT15 Facility's ID=Eng 5
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8772hr/yr, 24hr/day
SO LOCATION 38177E15 POINT 629956.027 3555123.852 0
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SO SRCPARAM 38177E15 .1738772 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT16 Facility's ID=Eng 6
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8748hr/yr, 24hr/day
SO LOCATION 38177E16 POINT 629957.679 3555115.698 0
SO SRCPARAM 38177E16 .1738772 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT17 Facility's ID=Eng 7
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8762hr/yr, 24hr/day
SO LOCATION 38177E17 POINT 629964.628 3555110.736 0
SO SRCPARAM 38177E17 .1738772 9.14 705.37 46.63 .46
** NMED source ID=38177EQPT18 Facility's ID=Eng 8
** Description=Caterpillar G3608LE Engines Construction date=05-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8746hr/yr, 24hr/day
SO LOCATION 38177E18 POINT 629973.311 3555111.878 0
SO SRCPARAM 38177E18 .1738772 9.14 705.37 46.63 .46
**********END OF 38177: EOG - Valor Compressor Station
INFO**********************************
************************************************************
** 13.34km away. Facility ID=39976 Name=Devon - Red Bull 30 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.278562, -103.407252, NAD83
** Total Sulfur Dioxide emissions=.18tons/year
*****************Facility sources: ******************************
** NMED source ID=39976EQPT10 Facility's ID=FL-1
** Description=Process Flare -LP 15.5 MMscfd Construction date=20-MAY-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39976E10 POINT 649995.305 3572426.495 0
SO SRCPARAM 39976E10 .0125998 12.19 1273 20 9.759
** NMED source ID=39976EQPT11 Facility's ID=FL-1 Int
** Description=Process Flare -HP 15.5 MMscfd Construction date=20-MAY-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39976E11 POINT 650002.841 3572433.516 0
SO SRCPARAM 39976E11 .0002898 12.19 1273 20 5.505
**********END OF 39976: Devon - Red Bull 30 CTB 2
INFO**********************************
************************************************************
** 13.34km away. Facility ID=40492 Name=Serpentine 2 Facility 1
** Company ID=1516 Name=Devon Energy Production Company LP
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.329618, -103.539652, NAD83
** Total Sulfur Dioxide emissions=.75tons/year
*****************Facility sources: ******************************
** NMED source ID=40492EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=07-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E2 VOLUME 637448.342 3577909.264 0
SO SRCPARAM 40492E2 .00126 9.14 .47 .93
** NMED source ID=40492EQPT13 Facility's ID=MT 1
** Description=MT 1 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E13 POINT 637455.878 3577916.285 0
SO SRCPARAM 40492E13 .00126 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT14 Facility's ID=MT 2
** Description=MT 2 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E14 POINT 637449.092 3577919.837 0
SO SRCPARAM 40492E14 .00126 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT15 Facility's ID=MT 3
** Description=MT 3 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E15 POINT 637441.495 3577917.745 0
SO SRCPARAM 40492E15 .00126 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT16 Facility's ID=MT 4
** Description=MT 4 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E16 POINT 637437.254 3577910.845 0
SO SRCPARAM 40492E16 .00126 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT17 Facility's ID=MT 5
** Description=MT 5 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E17 POINT 637438.906 3577902.691 0
SO SRCPARAM 40492E17 .00126 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT18 Facility's ID=MT 6
** Description=MT 6 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E18 POINT 637445.855 3577897.729 0
SO SRCPARAM 40492E18 .00126 3.95 537.04 103.24 .15
** NMED source ID=40492EQPT19 Facility's ID=MT 7
** Description=MT 7 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E19 POINT 637454.538 3577898.871 0
SO SRCPARAM 40492E19 .00126 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT20 Facility's ID=MT 8
** Description=MT 8 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E20 POINT 637460.248 3577905.799 0
SO SRCPARAM 40492E20 .00126 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT21 Facility's ID=MT 9
** Description=MT 9 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E21 POINT 637459.683 3577914.98 0
SO SRCPARAM 40492E21 .00126 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT22 Facility's ID=MT 10
** Description=MT 10 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E22 POINT 637452.848 3577921.458 0
SO SRCPARAM 40492E22 .00126 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT23 Facility's ID=MT 11
** Description=MT 11 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E23 POINT 637443.212 3577921.535 0
SO SRCPARAM 40492E23 .00126 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT24 Facility's ID=MT 12
** Description=MT 12 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E24 POINT 637435.951 3577914.869 0
SO SRCPARAM 40492E24 .00126 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT25 Facility's ID=MT 13
** Description=MT 13 Microturbine Construction date=16-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40492E25 POINT 637435.171 3577904.823 0
SO SRCPARAM 40492E25 .00126 4.02 529.26 95.71 .15
** NMED source ID=40492EQPT27 Facility's ID=FL-1 LP SSM
** Description=Flare 1 Low Pressure Side EQ001256261 Construction date=25-JAN-23
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40492E27 POINT 637441.589 3577896.772 0
SO SRCPARAM 40492E27 .0005796 12.19 1273 20 20.806
**********END OF 40492: Serpentine 2 Facility 1
INFO**********************************
************************************************************
** 13.36km away. Facility ID=39992 Name=EOG - Lakewood 28 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.098, -103.4748, WGS84
** Total Sulfur Dioxide emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=39992EQPT2 Facility's ID=FL-1-MSS
** Description=SSM emission from Flare-1 Construction date=04-JUN-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39992E2 POINT 643917.307 3552316.406 0
SO SRCPARAM 39992E2 .0011466 12.19 1273 20 3.604
** NMED source ID=39992EQPT4 Facility's ID=HTR-1
** Description=Heater Treater Construction date=04-JUN-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39992E4 VOLUME 643924.843 3552323.427 0
SO SRCPARAM 39992E4 .0002898 4.88 .47 .93
**********END OF 39992: EOG - Lakewood 28 Fed Com CTB
INFO**********************************
************************************************************
** 13.4km away. Facility ID=40898 Name=Da Bears 36 State Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.09025, -103.52937, WGS84
** Total Sulfur Dioxide emissions=.18tons/year
*****************Facility sources: ******************************
** NMED source ID=40898EQPT3 Facility's ID=FL-1
** Description=Pilot Emissions Construction date=27-JAN-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40898E3 POINT 638779.316 3551385.685 0
SO SRCPARAM 40898E3 .0002898 12.19 1273 20 20.806
** NMED source ID=40898EQPT4 Facility's ID=HTR-1
** Description=Heater Treater Construction date=27-JAN-23
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40898E4 VOLUME 638786.852 3551392.706 0
SO SRCPARAM 40898E4 .0037799 4.57 .47 .93
** NMED source ID=40898EQPT5 Facility's ID=HTR-2
** Description=Heater Treater Construction date=27-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40898E5 VOLUME 638780.066 3551396.258 0
SO SRCPARAM 40898E5 .00126 4.57 .47 .93
**********END OF 40898: Da Bears 36 State Com CTB
INFO**********************************
************************************************************
** 13.52km away. Facility ID=37773 Name=Skull Cap Fed Com 22H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7234 NOI
** lat,long,datum=32.174113, -103.386988, WGS84
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=37773EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37773E4 VOLUME 652077.752 3560875.224 0
SO SRCPARAM 37773E4 .00126 4.57 .47 .93
**********END OF 37773: Skull Cap Fed Com 22H Battery
INFO**********************************
************************************************************
** 13.55km away. Facility ID=39889 Name=MarkWest - Bell Lake North Compressor
Station
** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.3322, -103.5274, WGS84
** Total Sulfur Dioxide emissions=.47tons/year
*****************Facility sources: ******************************
** NMED source ID=39889EQPT1 Facility's ID=ENG-4
** Description=Caterpillar 3516 ULB 1380 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7950hr/yr, 24hr/day
SO LOCATION 39889E1 POINT 638597.677 3578211.305 0
SO SRCPARAM 39889E1 .00126 7.01 760.93 56.45 .3
** NMED source ID=39889EQPT2 Facility's ID=ENG-2
** Description=Caterpillar 3516 ULB 1380 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5169hr/yr, 24hr/day
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SO LOCATION 39889E2 POINT 638605.213 3578218.326 0
SO SRCPARAM 39889E2 .00126 7.01 760.93 56.45 .3
** NMED source ID=39889EQPT3 Facility's ID=ENG-3
** Description=Caterpillar 3516 ULB 1380 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7084hr/yr, 24hr/day
SO LOCATION 39889E3 POINT 638598.427 3578221.878 0
SO SRCPARAM 39889E3 .00126 7.01 760.93 56.45 .3
** NMED source ID=39889EQPT4 Facility's ID=ENG-7
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6213hr/yr, 24hr/day
SO LOCATION 39889E4 POINT 638590.83 3578219.786 0
SO SRCPARAM 39889E4 .00126 7.01 822.59 62.45 .3
** NMED source ID=39889EQPT5 Facility's ID=ENG-1
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6126hr/yr, 24hr/day
SO LOCATION 39889E5 POINT 638586.589 3578212.886 0
SO SRCPARAM 39889E5 .00126 7.01 822.59 62.45 .3
** NMED source ID=39889EQPT6 Facility's ID=ENG-6
** Description=Caterpillar 3516 ULB 1380 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7379hr/yr, 24hr/day
SO LOCATION 39889E6 POINT 638588.241 3578204.732 0
SO SRCPARAM 39889E6 .00126 7.01 760.93 56.45 .3
** NMED source ID=39889EQPT7 Facility's ID=ENG-5
** Description=Caterpillar 3516 ULB 1380 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=44hr/yr, 24hr/day
SO LOCATION 39889E7 POINT 638595.19 3578199.77 0
SO SRCPARAM 39889E7 .00126 7.01 760.93 56.45 .3
** NMED source ID=39889EQPT11 Facility's ID=Reboil-1
** Description=TEG Reboiler 1.5 MMBtu/h Construction date=05-MAR-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39889E11 POINT 638603.873 3578200.912 0
SO SRCPARAM 39889E11 .00252 4.88 588.71 2.35 .4
** NMED source ID=39889EQPT17 Facility's ID=ECD-2
** Description=9.2 MMscf/d Combustor (Process) Construction date=05-MAR-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39889E17 POINT 638609.583 3578207.84 0
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SO SRCPARAM 39889E17 .0050399 3.66 1273 20 1.22
** NMED source ID=39889EQPT19 Facility's ID=ENG-8
** Description=Caterpillar 3516 LE 1340 hp engine Construction date=05-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6494hr/yr, 24hr/day
SO LOCATION 39889E19 POINT 638609.018 3578217.021 0
SO SRCPARAM 39889E19 .00126 7.01 822.59 62.45 .3
** NMED source ID=39889EQPT20 Facility's ID=ENG-9
** Description=Caterpillar 3608A  2500 hp engine Construction date=01-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6428hr/yr, 24hr/day
SO LOCATION 39889E20 POINT 638602.183 3578223.499 0
SO SRCPARAM 39889E20 .00126 7.01 694.26 59.19 .41
** NMED source ID=39889EQPT21 Facility's ID=ENG-10
** Description=Caterpillar 3608A  2500 hp engine Construction date=01-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6118hr/yr, 24hr/day
SO LOCATION 39889E21 POINT 638592.547 3578223.576 0
SO SRCPARAM 39889E21 .00126 7.01 694.26 59.19 .41
**********END OF 39889: MarkWest - Bell Lake North Compressor Station
INFO************************************
************************************************************
** 13.57km away. Facility ID=39872 Name=Deerstalker Federal 5 CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9094 NOI
** lat,long,datum=32.164183, -103.390714, WGS84
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=39872EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=17-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39872E1 POINT 651742.885 3559769.077 0
SO SRCPARAM 39872E1 .0002898 3.66 883.71 17.92 .15
** NMED source ID=39872EQPT2 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=17-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39872E2 POINT 651750.421 3559776.098 0
SO SRCPARAM 39872E2 .0002898 3.66 883.71 17.92 .15
** NMED source ID=39872EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=17-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39872E3 POINT 651743.635 3559779.65 0
SO SRCPARAM 39872E3 .0005796 4.88 1000.37 14.84 .28
** NMED source ID=39872EQPT4 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=17-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39872E4 POINT 651736.038 3559777.558 0
SO SRCPARAM 39872E4 .0005796 4.88 1000.37 14.84 .28
**********END OF 39872: Deerstalker Federal 5 CTB
INFO**********************************
************************************************************
** 13.77km away. Facility ID=39776 Name=Rodney Robinson South TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.313256, -103.605521, NAD83
** Total Sulfur Dioxide emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=39776EQPT24 Facility's ID=FL-1
** Description=2 MMscfd Zeeco Flare, Emission Control Construction date=02-DEC-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776E24 POINT 631271.803 3576012.713 0
SO SRCPARAM 39776E24 .0088199 9.14 1273 20 .76
** NMED source ID=39776EQPT25 Facility's ID=FL-2
** Description=30 MMscfd Zeeco Flare, Stranded Gas Construction date=02-DEC-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39776E25 POINT 631279.339 3576019.734 0
SO SRCPARAM 39776E25 .2570359 21.34 1273 20 20.806
** NMED source ID=39776EQPT26 Facility's ID=ENG-4
** Description=Caterpillar 3516B  1380 HP Construction date=30-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6864hr/yr, 24hr/day
SO LOCATION 39776E26 POINT 631272.553 3576023.286 0
SO SRCPARAM 39776E26 .0005796 6.1 804.82 50.99 .3
** NMED source ID=39776EQPT27 Facility's ID=ENG 5
** Description=188 HP, Cummins G855 Construction date=30-SEP-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7344hr/yr, 24hr/day
SO LOCATION 39776E27 POINT 631264.956 3576021.194 0
SO SRCPARAM 39776E27 .00126 2.73 919.82 51.42 .1
** NMED source ID=39776EQPT29 Facility's ID=ENG-6
** Description=Caterpillar 3516B  1380 HP Construction date=19-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39776E29 POINT 631260.715 3576014.294 0
SO SRCPARAM 39776E29 .0005796 6.1 804.82 50.99 .3
**********END OF 39776: Rodney Robinson South TB
INFO**********************************
************************************************************
** 13.86km away. Facility ID=38049 Name=Seawolf Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.086153, -103.529725, WGS84
** Total Sulfur Dioxide emissions=4.01tons/year
*****************Facility sources: ****************************
** NMED source ID=38049EQPT1 Facility's ID=17-0723
** Description=Caterpillar G3606 Construction date=29-JAN-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7011hr/yr, 19hr/day
SO LOCATION 38049E1 POINT 638752.005 3550931.034 0
SO SRCPARAM 38049E1 .0176397 7.01 707.04 34.02 .46
** NMED source ID=38049EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516 Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E2 POINT 638759.541 3550938.055 0
SO SRCPARAM 38049E2 .0138598 6.4 717.04 52.18 .3
** NMED source ID=38049EQPT3 Facility's ID=18-238
** Description=Compressor Engine Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8090hr/yr, 22hr/day
SO LOCATION 38049E3 POINT 638752.755 3550941.607 0
SO SRCPARAM 38049E3 .0176397 7.01 707.04 34.02 .46
** NMED source ID=38049EQPT4 Facility's ID=18-337
** Description=Compressor Engine Construction date=29-JUL-18
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E4 POINT 638745.158 3550939.515 0
SO SRCPARAM 38049E4 .0226796 7.01 714.26 46.02 .46
** NMED source ID=38049EQPT6 Facility's ID=Rbl-1
** Description=Dehydrator Reboiler 1 Construction date=29-JUL-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8646hr/yr, 24hr/day
SO LOCATION 38049E6 POINT 638740.917 3550932.615 0
SO SRCPARAM 38049E6 .00126 3.05 588.71 1.31 .3
** NMED source ID=38049EQPT10 Facility's ID=18-1160
** Description=Compressor Engine Construction date=26-JUL-18
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6996hr/yr, 19hr/day
SO LOCATION 38049E10 POINT 638742.569 3550924.461 0
SO SRCPARAM 38049E10 .0138598 6.4 717.04 52.18 .3
** NMED source ID=38049EQPT11 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E11 POINT 638749.518 3550919.499 0
SO SRCPARAM 38049E11 .0138598 6.4 717.04 52.18 .3
** NMED source ID=38049EQPT12 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=26-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38049E12 POINT 638758.201 3550920.641 0
SO SRCPARAM 38049E12 .0176397 7.01 707.04 34.02 .46
** NMED source ID=38049EQPT13 Facility's ID=Rbl-2
** Description=Dehydrator Reboiler 2 Construction date=29-JUL-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1574hr/yr, 4hr/day
SO LOCATION 38049E13 POINT 638763.911 3550927.569 0
SO SRCPARAM 38049E13 .00126 3.05 588.71 1.31 .3
**********END OF 38049: Seawolf Compressor Station
INFO***********************************
************************************************************
** 13.88km away. Facility ID=38868 Name=Coonskin Fee 28D CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8213 NOI
** lat,long,datum=32.195608, -103.377639, WGS84
** Total Sulfur Dioxide emissions=.19tons/year
*****************Facility sources: ****************************
** NMED source ID=38868EQPT3 Facility's ID=VCU-01
** Description=Vapor Combustion Unit Construction date=01-JAN-20
** SCC=30609903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38868E3 POINT 652923.344 3563271.525 0
SO SRCPARAM 38868E3 .0005796 7.01 755.37 .3 1.22
** NMED source ID=38868EQPT5 Facility's ID=FL-01
** Description=LP Flare Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 14hr/day
SO LOCATION 38868E5 POINT 652930.88 3563278.546 0
SO SRCPARAM 38868E5 .0002898 10.67 1273 20 20.806
** NMED source ID=38868EQPT7 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=11-AUG-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38868E7 POINT 652924.094 3563282.098 0
SO SRCPARAM 38868E7 .00126 3.66 867.04 16.4 .15
** NMED source ID=38868EQPT8 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38868E8 POINT 652916.497 3563280.006 0
SO SRCPARAM 38868E8 .00126 3.66 867.04 16.4 .15
** NMED source ID=38868EQPT9 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38868E9 POINT 652912.256 3563273.106 0
SO SRCPARAM 38868E9 .00126 3.66 867.04 16.4 .15
** NMED source ID=38868EQPT10 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38868E10 POINT 652913.908 3563264.952 0
SO SRCPARAM 38868E10 .00252 6.1 778.71 7.62 .3
**********END OF 38868: Coonskin Fee 28D CTB
INFO**********************************
************************************************************
** 13.9km away. Facility ID=38788 Name=Kaiser-Francis - North Bell Lake Pad 0
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.335314, -103.530631, NAD83
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=38788EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1, 1MMBtu/hr Construction date=29-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38788E1 POINT 638288.818 3578552.358 0
SO SRCPARAM 38788E1 .0005796 4.57 369.82 7.99 .09
** NMED source ID=38788EQPT2 Facility's ID=HT-2
** Description=Heater Treater 2, 1MMBtu/hr Construction date=29-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38788E2 POINT 638296.354 3578559.379 0
SO SRCPARAM 38788E2 .0002898 4.57 369.82 7.99 .09
** NMED source ID=38788EQPT3 Facility's ID=HT-3
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** Description=Heater Treater 3, 1MMBtu/hr Construction date=29-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38788E3 POINT 638289.568 3578562.931 0
SO SRCPARAM 38788E3 .0002898 4.57 369.82 7.99 .09
** NMED source ID=38788EQPT4 Facility's ID=HT-4
** Description=Heater Treater 4, 1MMBtu/hr Construction date=29-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38788E4 POINT 638281.971 3578560.839 0
SO SRCPARAM 38788E4 .0002898 4.57 369.82 7.99 .09
** NMED source ID=38788EQPT5 Facility's ID=HT-5
** Description=Heater Treater 5, 1MMBtu/hr Construction date=29-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38788E5 POINT 638277.73 3578553.939 0
SO SRCPARAM 38788E5 .0002898 4.57 369.82 7.99 .09
**********END OF 38788: Kaiser-Francis - North Bell Lake Pad 0
INFO**********************************
************************************************************
** 13.99km away. Facility ID=40477 Name=North Bell Lake Pad 8
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.33548, -103.50786, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=40477EQPT19 Facility's ID=ENG-1
** Description=Caterpillar G3606 A4 Construction date=10-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40477E19 POINT 640431.849 3578600.396 0
SO SRCPARAM 40477E19 .00126 8.29 707.04 34.23 .46
**********END OF 40477: North Bell Lake Pad 8
INFO**********************************
************************************************************
** 14km away. Facility ID=41037 Name=Cascade 29 CTB
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.09843, -103.591204, WGS84
** Total Sulfur Dioxide emissions=.56tons/year
*****************Facility sources: ******************************
** NMED source ID=41037EQPT1 Facility's ID=Flare 1
** Description=Flare Construction date=22-MAY-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 41037E1 POINT 632931.835 3552214.592 0
SO SRCPARAM 41037E1 .00252 9.14 1273 20 2.632
** NMED source ID=41037EQPT2 Facility's ID=HTR-1
** Description=2.0 MMBtu/hr Heater Treater Construction date=22-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037E2 VOLUME 632939.371 3552221.613 0
SO SRCPARAM 41037E2 .00126 4.57 .47 .93
** NMED source ID=41037EQPT3 Facility's ID=HTR-2
** Description=2.0 MMBtu/hr Heater Treater Construction date=22-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037E3 VOLUME 632932.585 3552225.165 0
SO SRCPARAM 41037E3 .00126 4.57 .47 .93
** NMED source ID=41037EQPT4 Facility's ID=HTR-3
** Description=2.0 MMBtu/hr Heater Treater Construction date=22-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037E4 VOLUME 632924.988 3552223.073 0
SO SRCPARAM 41037E4 .00126 4.57 .47 .93
** NMED source ID=41037EQPT12 Facility's ID=Flare 1 SSM
** Description=Flare Construction date=22-MAY-23
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41037E12 POINT 632920.747 3552216.173 0
SO SRCPARAM 41037E12 .01294 9.14 1273 20 4.652
**********END OF 41037: Cascade 29 CTB INFO************************************
************************************************************
** 14.03km away. Facility ID=40618 Name=Perseus Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.24839, -103.66606, WGS84
** Total Sulfur Dioxide emissions=8.37tons/year
*****************Facility sources: ******************************
** NMED source ID=40618EQPT3 Facility's ID=ENG-1
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E3 POINT 625661.83 3568749.089 0
SO SRCPARAM 40618E3 .0264596 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT4 Facility's ID=ENG-2
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 40618E4 POINT 625669.366 3568756.11 0
SO SRCPARAM 40618E4 .0264596 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT5 Facility's ID=ENG-3
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E5 POINT 625662.58 3568759.662 0
SO SRCPARAM 40618E5 .0264596 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT6 Facility's ID=ENG-4
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E6 POINT 625654.983 3568757.57 0
SO SRCPARAM 40618E6 .0264596 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT7 Facility's ID=ENG-5
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E7 POINT 625650.742 3568750.67 0
SO SRCPARAM 40618E7 .0264596 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT8 Facility's ID=ENG-6
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E8 POINT 625652.394 3568742.516 0
SO SRCPARAM 40618E8 .0264596 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT9 Facility's ID=ENG-7
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E9 POINT 625659.343 3568737.554 0
SO SRCPARAM 40618E9 .0264596 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT10 Facility's ID=ENG-8
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E10 POINT 625668.026 3568738.696 0
SO SRCPARAM 40618E10 .0264596 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT11 Facility's ID=ENG-9
** Description=CAT G3608 2500 hp engine Construction date=20-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E11 POINT 625673.736 3568745.624 0
```

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SO SRCPARAM 40618E11 .0264596 6.1 703.15 46.33 .46
** NMED source ID=40618EQPT13 Facility's ID=FL-1
** Description=5.23 MMscf/d Process Flare Construction date=20-SEP-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E13 POINT 625673.171 3568754.805 0
SO SRCPARAM 40618E13 .0002898 12.19 1273 20 20.806
** NMED source ID=40618EQPT14 Facility's ID=Heater-1
** Description=0.75 MMbtu/h Seperator Heater Construction date=20-SEP-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E14 VOLUME 625666.336 3568761.283 0
SO SRCPARAM 40618E14 .00126 3.96 .47 .93
** NMED source ID=40618EQPT16 Facility's ID=Reboiler-1
** Description=2 MMbtu/hr Dehydrator Reboiler Construction date=20-SEP-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40618E16 POINT 625656.7 3568761.36 0
SO SRCPARAM 40618E16 .0037799 3.96 588.71 5.33 .3
**********END OF 40618: Perseus Compressor Station
INFO************************************
************************************************************
** 14.09km away. Facility ID=29590 Name=Big Lizard Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=7960 Title V
** lat,long,datum=32.307633, -103.6199, WGS84
** Total Sulfur Dioxide emissions=19.5tons/year
*****************Facility sources: ******************************
** NMED source ID=29590EQPT3 Facility's ID=ENG-3 (3171)
** Description=Caterpillar G3606 Construction date=29-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8320hr/yr, 23hr/day
SO LOCATION 29590E3 POINT 629926.124 3575371.812 0
SO SRCPARAM 29590E3 .0172617 7.01 706.48 34.08 .46
** NMED source ID=29590EQPT4 Facility's ID=ENG-4 (3155)
** Description=Caterpillar G3606 Construction date=29-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8479hr/yr, 23hr/day
SO LOCATION 29590E4 POINT 629933.66 3575378.833 0
SO SRCPARAM 29590E4 .0172617 7.01 706.48 34.08 .46
** NMED source ID=29590EQPT12 Facility's ID=ENG-7 (3319)
** Description=Caterpillar G3606 Construction date=29-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8280hr/yr, 23hr/day
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SO LOCATION 29590E12 POINT 629926.874 3575382.385 0
SO SRCPARAM 29590E12 .0172617 7.01 706.48 34.08 .46
** NMED source ID=29590EQPT13 Facility's ID=ENG-8 (3240)
** Description=Caterpillar G3606 Construction date=29-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8425hr/yr, 23hr/day
SO LOCATION 29590E13 POINT 629919.277 3575380.293 0
SO SRCPARAM 29590E13 .0172617 7.01 706.48 34.08 .46
** NMED source ID=29590EQPT14 Facility's ID=ENG-9
** Description=Caterpillar G3606 Construction date=29-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8356hr/yr, 23hr/day
SO LOCATION 29590E14 POINT 629915.036 3575373.393 0
SO SRCPARAM 29590E14 .0172617 7.01 706.48 34.08 .46
** NMED source ID=29590EQPT15 Facility's ID=ENG-10
** Description=Caterpillar G3606 Construction date=29-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 29590E15 POINT 629916.688 3575365.239 0
SO SRCPARAM 29590E15 .0172617 7.01 706.48 34.08 .46
** NMED source ID=29590EQPT19 Facility's ID=Amine Flare
** Description=Acid Gas Amine Flare (Pilot/purge, Assist, Process control)
Construction date=16-MAY-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5738hr/yr, 16hr/day
SO LOCATION 29590E19 POINT 629923.637 3575360.277 0
SO SRCPARAM 29590E19 .0377994 12.19 1273 20 8.35
**********END OF 29590: Big Lizard Compressor Station
INFO************************************
************************************************************
** 14.1km away. Facility ID=36953 Name=Charro Compressor Station
** Company ID=13452 Name=Delaware G & P, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.20334, -103.67332, NAD83
** Total Sulfur Dioxide emissions=1.5tons/year
*****************Facility sources: ******************************
** NMED source ID=36953EQPT5 Facility's ID=H-1
** Description=Glycol Dehydrator Reboiler Construction date=22-FEB-17
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36953E5 POINT 625039.537 3563746.401 0
SO SRCPARAM 36953E5 .0002898 4.57 699.82 4.3 .15
** NMED source ID=36953EQPT8 Facility's ID=H-2A
** Description=Glycol Dehydrator Reboiler Construction date=22-FEB-17
** SCC=31000228
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36953E8 POINT 625047.073 3563753.422 0
SO SRCPARAM 36953E8 .0002898 4.57 699.82 4.3 .15
** NMED source ID=36953EQPT14 Facility's ID=E-3
** Description=Caterpillar 3606 Construction date=27-SEP-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6933hr/yr, 24hr/day
SO LOCATION 36953E14 POINT 625040.287 3563756.974 0
SO SRCPARAM 36953E14 .0075599 9.14 737.04 77.66 .3
** NMED source ID=36953EQPT15 Facility's ID=E-4
** Description=Caterpillar 3606 Construction date=27-SEP-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6607hr/yr, 24hr/day
SO LOCATION 36953E15 POINT 625032.69 3563754.882 0
SO SRCPARAM 36953E15 .0075599 9.14 737.04 77.66 .3
** NMED source ID=36953EQPT17 Facility's ID=E-2A
** Description=Caterpillar 3608 A4 Construction date=25-APR-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7826hr/yr, 24hr/day
SO LOCATION 36953E17 POINT 625028.449 3563747.982 0
SO SRCPARAM 36953E17 .0088199 7.62 743.15 103.21 .3
** NMED source ID=36953EQPT19 Facility's ID=E-5a
** Description=Caterpillar 3608 Construction date=12-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36953E19 POINT 625030.101 3563739.828 0
SO SRCPARAM 36953E19 .0088199 9.14 743.15 103.21 .3
** NMED source ID=36953EQPT20 Facility's ID=E-6
** Description=Waukesha VHP - P9394GSI S5 2500 BHP 1200 RPM Construction
date=29-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36953E20 POINT 625037.05 3563734.866 0
SO SRCPARAM 36953E20 .0100798 9.14 710.37 103.39 .3
**********END OF 36953: Charro Compressor Station
INFO************************************
************************************************************
** 14.26km away. Facility ID=38075 Name=Red Hills Unit 17H, 21H, 36H-38H, 75H,
99H-101H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.091194, -103.5787, WGS84
** Total Sulfur Dioxide emissions=.04tons/year
****************Facility sources: ****************************
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** NMED source ID=38075EQPT17 Facility's ID=H1
** Description=Heater Treater Construction date=03-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E17 VOLUME 634122.374 3551427.904 0
SO SRCPARAM 38075E17 .0002898 4.57 .47 .93
** NMED source ID=38075EQPT18 Facility's ID=H2
** Description=Heater Treater Construction date=03-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E18 VOLUME 634129.91 3551434.925 0
SO SRCPARAM 38075E18 .0002898 4.57 .47 .93
** NMED source ID=38075EQPT19 Facility's ID=H3
** Description=Heater Treater Construction date=03-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E19 VOLUME 634123.124 3551438.477 0
SO SRCPARAM 38075E19 .0002898 4.57 .47 .93
** NMED source ID=38075EQPT20 Facility's ID=H4
** Description=Heater Treater Construction date=03-MAY-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38075E20 VOLUME 634115.527 3551436.385 0
SO SRCPARAM 38075E20 .0002898 4.57 .47 .93
**********END OF 38075: Red Hills Unit 17H, 21H, 36H-38H, 75H, 99H-101H
INFO**********************************
************************************************************
** 14.29km away. Facility ID=40840 Name=Rio Blanco 4 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9831 NOI
** lat,long,datum=32.333368, -103.479772, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=40840EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=12-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40840E2 POINT 643078.922 3578403.43 0
SO SRCPARAM 40840E2 .0002898 4.39 790.93 14.04 .26
**********END OF 40840: Rio Blanco 4 Wellpad 2
INFO**********************************
************************************************************
** 14.34km away. Facility ID=36657 Name=North Thistle 2 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6784 NOI
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** lat,long,datum=32.338503, -103.541186, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
**********Facility sources: ******************************
** NMED source ID=36657EQPT3 Facility's ID=34
** Description=Flare 1_EQ000060306 Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36657E3 POINT 637290.531 3578892.322 0
SO SRCPARAM 36657E3 .00252 12.19 1273 20 3.604
** NMED source ID=36657EQPT4 Facility's ID=38
** Description=Cat CG137-8 Engine_EQ000074417 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36657E4 POINT 637298.067 3578899.343 0
SO SRCPARAM 36657E4 .0002898 4.39 778.71 13.8 .26
**********END OF 36657: North Thistle 2 CTB 1
INFO**********************************
************************************************************
** 14.35km away. Facility ID=38021 Name=Devon - Rio Blanco 4 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.334722, -103.482944, NAD83
** Total Sulfur Dioxide emissions=.21tons/year
**********Facility sources: ******************************
** NMED source ID=38021EQPT10 Facility's ID=20
** Description=Flare 12.7 MMscfd Construction date=02-AUG-18
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38021E10 POINT 642778.227 3578549.308 0
SO SRCPARAM 38021E10 .0062999 12.19 1273 20 10.609
**********END OF 38021: Devon - Rio Blanco 4 CTB 1
INFO**********************************
************************************************************
** 14.37km away. Facility ID=40136 Name=Coonskin CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.176318, -103.376818, NAD83
** Total Sulfur Dioxide emissions=.64tons/year
**********Facility sources: ******************************
** NMED source ID=40136EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516J Compressor, 1346 hp Construction date=22-SEP-21
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136E1 POINT 653033.022 3561134.106 0
SO SRCPARAM 40136E1 .0005796 4.57 728.71 110.64 .2
** NMED source ID=40136EQPT2 Facility's ID=HT-1
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** Description=2 MMBTU/hr Heater Treater Construction date=22-SEP-21
** SCC=10200603
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136E2 VOLUME 653040.558 3561141.127 0
SO SRCPARAM 40136E2 .0151198 4.57 .47 .93
** NMED source ID=40136EQPT9 Facility's ID=FL-1 (HP)
** Description=5 MMSCFD, High Pressure Flare Construction date=22-SEP-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136E9 POINT 653033.772 3561144.679 0
SO SRCPARAM 40136E9 .00252 12.19 1273 20 3.604
** NMED source ID=40136EQPT10 Facility's ID=FL-2 (LP)
** Description=0.231 MMSCFD, Low Pressure Flare Construction date=22-SEP-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40136E10 POINT 653026.175 3561142.587 0
SO SRCPARAM 40136E10 .00126 9.14 1273 20 20.806
**********END OF 40136: Coonskin CTB INFO**********************************
************************************************************
** 14.4km away. Facility ID=39049 Name=Cotton Draw Section 3 Compressor Station
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.153411, -103.660972, NAD83
** Total Sulfur Dioxide emissions=6.1tons/year
*****************Facility sources: ****************************
** NMED source ID=39049CONT2 Facility's ID=FLARE SSM
** Description=emergency flare Construction date=06-DEC-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049C2 POINT 626272.33 3558225.765 0
SO SRCPARAM 39049C2 .0517852 22.86 1273 20 .61
** NMED source ID=39049EQPT1 Facility's ID=ENG-1
** Description=2500 hp 4SLB w/oxidation catalyst Construction date=21-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E1 POINT 626279.866 3558232.786 0
SO SRCPARAM 39049E1 .0239396 6.1 712.59 58.83 .3
** NMED source ID=39049EQPT2 Facility's ID=ENG-2
** Description=2500 hp 4SLB w/oxidation catalyst Construction date=21-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E2 POINT 626273.08 3558236.338 0
SO SRCPARAM 39049E2 .0239396 6.1 300.93 58.83 .3
** NMED source ID=39049EQPT3 Facility's ID=ENG-3
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** Description=2500 hp 4SLB w/oxidation catalyst Construction date=21-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E3 POINT 626265.483 3558234.246 0
SO SRCPARAM 39049E3 .0239396 6.1 712.59 58.83 .3
** NMED source ID=39049EQPT4 Facility's ID=REB-1
** Description=TEG reboiler Construction date=21-JUL-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E4 POINT 626261.242 3558227.346 0
SO SRCPARAM 39049E4 .0037799 5.79 533.15 1.67 .46
** NMED source ID=39049EQPT9 Facility's ID=ENG-4
** Description=2500 hp 4SLB w/oxidation catalyst Construction date=06-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E9 POINT 626262.894 3558219.192 0
SO SRCPARAM 39049E9 .0239396 6.1 712.59 58.83 .3
** NMED source ID=39049EQPT10 Facility's ID=ENG-5
** Description=2500 hp 4SLB w/oxidation catalyst Construction date=06-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39049E10 POINT 626269.843 3558214.23 0
SO SRCPARAM 39049E10 .0239396 6.1 712.59 58.83 .3
**********END OF 39049: Cotton Draw Section 3 Compressor Station
INFO***********************************
************************************************************
** 14.47km away. Facility ID=38422 Name=Angus Brahman Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7826 NOI
** lat,long,datum=32.22425, -103.371097, WGS84
** Total Sulfur Dioxide emissions=3.18tons/year
*****************Facility sources: ******************************
** NMED source ID=38422EQPT3 Facility's ID=VCU-01
** Description=Tank Vapor Combustor Construction date=01-JAN-20
** SCC=30609903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38422E3 POINT 653491.931 3566456.264 0
SO SRCPARAM 38422E3 .0100798 7.62 755.37 .3 1.22
** NMED source ID=38422EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38422E4 VOLUME 653499.467 3566463.285 0
SO SRCPARAM 38422E4 .0692989 4.57 .47 .93
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** NMED source ID=38422EQPT5 Facility's ID=FL-01
** Description=Emergency Flare Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 14hr/day
SO LOCATION 38422E5 POINT 653492.681 3566466.837 0
SO SRCPARAM 38422E5 .00252 21.34 1273 20 20.806
** NMED source ID=38422EQPT12 Facility's ID=VCU-02
** Description=Tank Vapor Combustor Construction date=01-OCT-17
** SCC=30609903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38422E12 POINT 653485.084 3566464.745 0
SO SRCPARAM 38422E12 .0100798 7.62 755.37 .3 1.22
**********END OF 38422: Angus Brahman Battery
INFO**********************************
************************************************************
** 14.49km away. Facility ID=38226 Name=Beowulf 33 CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=7635 NOI
** lat,long,datum=32.256725, -103.379983, WGS84
** Total Sulfur Dioxide emissions=2.71tons/year
*****************Facility sources: ****************************
** NMED source ID=38226EQPT1 Facility's ID=FL-1
** Description=Flare  Construction date=31-JAN-18
** SCC=unknown
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38226E1 POINT 652600.182 3570043.971 0
SO SRCPARAM 38226E1 .077955 6 1273 20 2.632
**********END OF 38226: Beowulf 33 CTB  INFO**************************************
************************************************************
** 14.53km away. Facility ID=32720 Name=EOG - Brown Bear 36 State No 1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0802, -103.5325, WGS84
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=32720EQPT3 Facility's ID=HT-1
** Description=Heater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6229hr/yr, 24hr/day
SO LOCATION 32720E3 VOLUME 638499.08 3550267.518 0
SO SRCPARAM 32720E3 .0002898 5.18 .47 .93
**********END OF 32720: EOG - Brown Bear 36 State No 1H
INFO**********************************
************************************************************
** 14.53km away. Facility ID=40841 Name=Rio Blanco 4 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
```

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** SIC=1311 NAIC=21112    Permit=9832 NOI
** lat,long,datum=32.333919, -103.473457, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=40841EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=12-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40841E2 POINT 643672.459 3578472.972 0
SO SRCPARAM 40841E2 .0002898 4.39 790.93 14.04 .26
**********END OF 40841: Rio Blanco 4 Wellpad 3
INFO*********************************
************************************************************
** 14.63km away. Facility ID=40205 Name=EOG - Poseidon Local Gas Lift
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2569, -103.6693, WGS84
** Total Sulfur Dioxide emissions=5.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40205EQPT1 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.0 MMbtu/hr Construction date=19-OCT-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E1 POINT 625344.892 3569688.719 0
SO SRCPARAM 40205E1 .00126 3.96 588.71 2.65 .3
** NMED source ID=40205EQPT2 Facility's ID=Heater-1
** Description=Separator Heater 1.5 MMbtu/hr Construction date=19-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E2 POINT 625352.428 3569695.74 0
SO SRCPARAM 40205E2 .0037799 3.96 588.71 3.96 .3
** NMED source ID=40205EQPT3 Facility's ID=ENG-1
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E3 POINT 625345.642 3569699.292 0
SO SRCPARAM 40205E3 .0176397 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT5 Facility's ID=Flare-1
** Description=Process Flare 5.23 MMSCFD Construction date=19-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E5 POINT 625338.045 3569697.2 0
SO SRCPARAM 40205E5 .00126 12.19 1273 20 20.806
** NMED source ID=40205EQPT10 Facility's ID=ENG-2
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E10 POINT 625333.804 3569690.3 0
SO SRCPARAM 40205E10 .0176397 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT11 Facility's ID=ENG-3
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E11 POINT 625335.456 3569682.146 0
SO SRCPARAM 40205E11 .0176397 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT12 Facility's ID=ENG-4
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E12 POINT 625342.405 3569677.184 0
SO SRCPARAM 40205E12 .0176397 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT13 Facility's ID=ENG-5
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E13 POINT 625351.088 3569678.326 0
SO SRCPARAM 40205E13 .0176397 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT14 Facility's ID=ENG-6
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E14 POINT 625356.798 3569685.254 0
SO SRCPARAM 40205E14 .0176397 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT15 Facility's ID=ENG-7
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E15 POINT 625356.233 3569694.435 0
SO SRCPARAM 40205E15 .0176397 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT16 Facility's ID=ENG-8
** Description=Natural Gas Engine CAT G3606 A4 1875-hp Construction date=19-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E16 POINT 625349.398 3569700.913 0
SO SRCPARAM 40205E16 .0176397 6.1 701.48 27.86 .51
** NMED source ID=40205EQPT17 Facility's ID=Flare-1-Pilot
** Description=Process Flare 5.23 MMSCFD Construction date=19-OCT-21
** SCC=31000160
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40205E17 POINT 625339.762 3569700.99 0
SO SRCPARAM 40205E17 .0002898 12.19 1273 20 20.806
**********END OF 40205: EOG - Poseidon Local Gas Lift
INFO**********************************
************************************************************
** 14.66km away. Facility ID=39516 Name=EOG- Valiant 24 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1133, -103.6288, WGS84
** Total Sulfur Dioxide emissions=.41tons/year
*****************Facility sources: ******************************
** NMED source ID=39516EQPT9 Facility's ID=HTR-1
** Description=Heater, 1.5-MMBtu/hr Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39516E9 POINT 629363.061 3553817.309 0
SO SRCPARAM 39516E9 .00126 5.18 588.71 6.83 .3
** NMED source ID=39516EQPT10 Facility's ID=HTR-2
** Description=Heater, 0.75-MMBtu/hr Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8747hr/yr, 24hr/day
SO LOCATION 39516E10 POINT 629370.597 3553824.33 0
SO SRCPARAM 39516E10 .00252 5.18 588.71 3.41 .3
** NMED source ID=39516EQPT11 Facility's ID=Frac HTR-1
** Description=Heater, 0.5-MMBtu/hr Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39516E11 POINT 629363.811 3553827.882 0
SO SRCPARAM 39516E11 .0005796 5.18 588.71 2.29 .3
** NMED source ID=39516EQPT12 Facility's ID=Frac ENG-1
** Description=Compressor Engine, CAT, CG137-12, 600-hp Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39516E12 POINT 629356.214 3553825.79 0
SO SRCPARAM 39516E12 .00252 6.1 847.04 37.95 .2
** NMED source ID=39516EQPT13 Facility's ID=Frac ENG-2
** Description=Compressor Engine, CAT, CG137-12, 600-hp Construction date=06-MAY-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39516E13 POINT 629351.973 3553818.89 0
SO SRCPARAM 39516E13 .00252 6.1 847.04 37.95 .2
** NMED source ID=39516EQPT14 Facility's ID=Frac ENG-3
** Description=Compressor Engine, CAT, CG137-12, 600-hp Construction date=06-MAY-20
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39516E14 POINT 629353.625 3553810.736 0
SO SRCPARAM 39516E14 .00252 6.1 847.04 37.95 .2
**********END OF 39516: EOG- Valiant 24 Fed Com CTB
INFO**********************************
************************************************************
** 14.69km away. Facility ID=39296 Name=Red Bull 29 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.27132, -103.385367, NAD83
** Total Sulfur Dioxide emissions=.09tons/year
*****************Facility sources: ****************************
** NMED source ID=39296EQPT7 Facility's ID=HT-1
** Description=3.0 MMBtu/h Heater Treater Construction date=30-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39296E7 VOLUME 652068.621 3571654.419 0
SO SRCPARAM 39296E7 .0005796 9.14 .47 .93
** NMED source ID=39296EQPT8 Facility's ID=FL-1
** Description=Flare-NO-Pilot-LP Construction date=30-DEC-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39296E8 POINT 652076.157 3571661.44 0
SO SRCPARAM 39296E8 .0075599 12.19 1273 20 7.207
** NMED source ID=39296EQPT13 Facility's ID=FL-1-HP-SSM
** Description=Flare-HP VRU downtime Construction date=06-OCT-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39296E13 POINT 652069.371 3571664.992 0
SO SRCPARAM 39296E13 .00126 12.19 1273 20 4.652
**********END OF 39296: Red Bull 29 CTB 2 INFO**********************************
************************************************************
** 14.71km away. Facility ID=39871 Name=Vandelay Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.186723, -103.370283, NAD83
** Total Sulfur Dioxide emissions=3.61tons/year
*****************Facility sources: ****************************
** NMED source ID=39871EQPT1 Facility's ID=1
** Description=Compressor Engine, Caterpillar 3516 Construction date=01-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8495hr/yr, 23hr/day
SO LOCATION 39871E1 POINT 653631.731 3562296.975 0
SO SRCPARAM 39871E1 .0178413 7.01 725.93 29.93 .41
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** NMED source ID=39871EQPT2 Facility's ID=2
** Description=Compressor Engine, Caterpillar 3516 Construction date=01-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8244hr/yr, 23hr/day
SO LOCATION 39871E2 POINT 653639.267 3562303.996 0
SO SRCPARAM 39871E2 .0178413 7.01 725.93 29.93 .41
** NMED source ID=39871EQPT3 Facility's ID=3
** Description=Compressor Engine, Caterpillar 3516 Construction date=01-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8237hr/yr, 23hr/day
SO LOCATION 39871E3 POINT 653632.481 3562307.548 0
SO SRCPARAM 39871E3 .0178413 7.01 725.93 29.93 .41
** NMED source ID=39871EQPT4 Facility's ID=4
** Description=Compressor Engine, Caterpillar 3516 Construction date=01-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8210hr/yr, 22hr/day
SO LOCATION 39871E4 POINT 653624.884 3562305.456 0
SO SRCPARAM 39871E4 .0178413 7.01 725.93 29.93 .41
** NMED source ID=39871EQPT15 Facility's ID=19
** Description=Flare-Sour Gas (emissions for pilot) Construction date=01-FEB-21
** SCC=30600904
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39871E15 POINT 653620.643 3562298.556 0
SO SRCPARAM 39871E15 .0325075 6.1 1273 20 20.806
**********END OF 39871: Vandelay Compressor Station
INFO**********************************
************************************************************
** 14.71km away. Facility ID=40524 Name=Rio Blanco 4 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.336127, -103.475317, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=40524EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=08-AUG-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40524E2 VOLUME 643493.9 3578715.268 0
SO SRCPARAM 40524E2 .0005796 9.14 .47 .93
** NMED source ID=40524EQPT11 Facility's ID=FL-1 SSM SSM
** Description=Flare Construction date=08-AUG-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40524E11 POINT 643501.436 3578722.289 0
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SO SRCPARAM 40524E11 .0005796 12.19 1273 20 5.885
**********END OF 40524: Rio Blanco 4 CTB 2 INFO**********************************
************************************************************
** 14.73km away. Facility ID=7206 Name=Jayhawk 6 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10056 NOI
** lat,long,datum=32.078459, -103.514724, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=7206EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=09-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7206E1 POINT 640179.557 3550097.477 0
SO SRCPARAM 7206E1 .0002898 4.39 790.93 14.04 .26
** NMED source ID=7206EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=09-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7206E2 POINT 640187.093 3550104.498 0
SO SRCPARAM 7206E2 .0002898 4.39 1000.37 17.38 .26
** NMED source ID=7206EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=09-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7206E3 POINT 640180.307 3550108.05 0
SO SRCPARAM 7206E3 .0002898 4.39 1000.37 17.38 .26
**********END OF 7206: Jayhawk 6 Wellpad 1 INFO**********************************
************************************************************
** 14.75km away. Facility ID=36131 Name=EOG - Jafar Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.078333, -103.533889, NAD83
** Total Sulfur Dioxide emissions=32.96tons/year
*****************Facility sources: ******************************
** NMED source ID=36131EQPT1 Facility's ID=ENG-1
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=01-DEC-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7451hr/yr, 20hr/day
SO LOCATION 36131E1 POINT 638370.79 3550058.76 0
SO SRCPARAM 36131E1 .0100798 9.14 739.26 46.73 .46
** NMED source ID=36131EQPT2 Facility's ID=ENG-2
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=01-DEC-15
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6983hr/yr, 19hr/day
SO LOCATION 36131E2 POINT 638378.326 3550065.781 0
SO SRCPARAM 36131E2 .1804354 9.14 572.6 49.07 .46
** NMED source ID=36131EQPT3 Facility's ID=ENG-4
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=01-DEC-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7722hr/yr, 21hr/day
SO LOCATION 36131E3 POINT 638371.54 3550069.333 0
SO SRCPARAM 36131E3 .1631674 9.14 572.6 49.07 .46
** NMED source ID=36131EQPT4 Facility's ID=ENG-3
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=01-DEC-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8454hr/yr, 23hr/day
SO LOCATION 36131E4 POINT 638363.943 3550067.241 0
SO SRCPARAM 36131E4 .1788479 9.14 572.6 49.07 .46
** NMED source ID=36131EQPT5 Facility's ID=ENG-5
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=01-DEC-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7681hr/yr, 21hr/day
SO LOCATION 36131E5 POINT 638359.702 3550060.341 0
SO SRCPARAM 36131E5 .1640381 9.14 572.6 49.07 .46
** NMED source ID=36131EQPT6 Facility's ID=ENG-6
** Description=2370-hp Caterpillar G3608 LE Compressor Engine Construction
date=01-DEC-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8258hr/yr, 23hr/day
SO LOCATION 36131E6 POINT 638361.354 3550052.187 0
SO SRCPARAM 36131E6 .1830927 9.14 572.6 49.07 .46
** NMED source ID=36131EQPT7 Facility's ID=HTR-1
** Description=0.75 MMBtu/hr Heater Treater Construction date=01-DEC-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36131E7 VOLUME 638368.303 3550047.225 0
SO SRCPARAM 36131E7 .00126 5.18 .47 .93
** NMED source ID=36131EQPT8 Facility's ID=REB-1
** Description=1.0MMBtu/hr TEG Reboiler Construction date=01-DEC-15
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36131E8 POINT 638376.986 3550048.367 0
SO SRCPARAM 36131E8 .00126 5.18 588.71 4.51 .3
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** NMED source ID=36131EQPT19 Facility's ID=FL-1
** Description=11.9 MSCF/h LP ProcessFlare Construction date=01-DEC-15
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36131E19 POINT 638382.696 3550055.295 0
SO SRCPARAM 36131E19 .00126 12.19 1273 20 4.652
**********END OF 36131: EOG - Jafar Compressor Station
INFO**********************************
************************************************************
** 14.78km away. Facility ID=7227 Name=Jayhawk 6 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10057 NOI
** lat,long,datum=32.078143, -103.511755, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=7227EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=09-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7227E1 POINT 640460.281 3550066.308 0
SO SRCPARAM 7227E1 .0002898 3.51 1000.37 71.17 .13
**********END OF 7227: Jayhawk 6 Wellpad 2 INFO**********************************
************************************************************
** 14.8km away. Facility ID=40731 Name=Cotton Draw Section 10 Compressor Station
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.144036, -103.659931, WGS84
** Total Sulfur Dioxide emissions=6.36tons/year
*****************Facility sources: ****************************
** NMED source ID=40731EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E2 POINT 626383.443 3557187.69 0
SO SRCPARAM 40731E2 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40731EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E3 POINT 626390.979 3557194.711 0
SO SRCPARAM 40731E3 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40731EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40731E4 POINT 626384.193 3557198.263 0
SO SRCPARAM 40731E4 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40731EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E5 POINT 626376.596 3557196.171 0
SO SRCPARAM 40731E5 .0251996 6.1 712.59 102.11 .3
** NMED source ID=40731EQPT7 Facility's ID=FL-1-SSM
** Description=Flare, SSM Construction date=25-OCT-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E7 POINT 626372.355 3557189.271 0
SO SRCPARAM 40731E7 .0701935 22.86 1273 20 .61
** NMED source ID=40731EQPT8 Facility's ID=REB-1
** Description=Dehydrator Reboiler Construction date=25-OCT-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E8 POINT 626374.007 3557181.117 0
SO SRCPARAM 40731E8 .0050399 5.79 533.15 .07 .46
** NMED source ID=40731EQPT11 Facility's ID=VCU
** Description=Vapor Combustion Unit Construction date=25-OCT-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40731E11 POINT 626380.956 3557176.155 0
SO SRCPARAM 40731E11 .0050399 6.1 1273 20 2.632
**********END OF 40731: Cotton Draw Section 10 Compressor Station
INFO**********************************
************************************************************
** 14.88km away. Facility ID=40744 Name=PLU Outrider Tank Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.19, -103.68, WGS84
** Total Sulfur Dioxide emissions=.17tons/year
*****************Facility sources: ******************************
** NMED source ID=40744EQPT5 Facility's ID=HTR1
** Description=HEATER TREATER Construction date=01-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E5 POINT 624428.055 3562259.795 0
SO SRCPARAM 40744E5 .0002898 6.1 810.93 11.73 .3
** NMED source ID=40744EQPT6 Facility's ID=HTR2
** Description=HEATER TREATER Construction date=01-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E6 POINT 624435.591 3562266.816 0
SO SRCPARAM 40744E6 .0002898 6.1 810.93 11.73 .3
** NMED source ID=40744EQPT7 Facility's ID=HTR3
** Description=HEATER TREATER Construction date=01-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E7 POINT 624428.805 3562270.368 0
SO SRCPARAM 40744E7 .0002898 6.1 810.93 11.73 .3
** NMED source ID=40744EQPT8 Facility's ID=LPF
** Description=LOW PRESSURE FLARE Construction date=01-NOV-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E8 POINT 624421.208 3562268.276 0
SO SRCPARAM 40744E8 .00126 12.19 1273 20 2.632
** NMED source ID=40744EQPT19 Facility's ID=HPF SSM
** Description=HIGH PRESSURE FLARE Construction date=01-NOV-22
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E19 POINT 624416.967 3562261.376 0
SO SRCPARAM 40744E19 .0017262 30.48 1273 20 4.652
** NMED source ID=40744EQPT23 Facility's ID=LPF SSM
** Description=LOW PRESSURE FLARE Construction date=01-NOV-22
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40744E23 POINT 624418.619 3562253.222 0
SO SRCPARAM 40744E23 .0011466 12.19 1273 20 3.604
**********END OF 40744: PLU Outrider Tank Battery
INFO************************************
************************************************************
** 14.88km away. Facility ID=37996 Name=Seawolf 1-12 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.076889, -103.52675, NAD83
** Total Sulfur Dioxide emissions=.15tons/year
*****************Facility sources: ******************************
** NMED source ID=37996EQPT1 Facility's ID=HT-1
** Description=1.0 MMBtu/hr Heater Treater 1 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E1 VOLUME 639046.817 3549907.86 0
SO SRCPARAM 37996E1 .0002898 9.14 .47 .93
** NMED source ID=37996EQPT2 Facility's ID=HT-2
** Description=1.0 MMBtu/hr Heater Treater 2 Construction date=25-OCT-18
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E2 VOLUME 639054.353 3549914.881 0
SO SRCPARAM 37996E2 .0002898 9.14 .47 .93
** NMED source ID=37996EQPT3 Facility's ID=HT-3
** Description=1.0 MMBtu/hr Heater Treater 3 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E3 VOLUME 639047.567 3549918.433 0
SO SRCPARAM 37996E3 .0002898 9.14 .47 .93
** NMED source ID=37996EQPT4 Facility's ID=HT-4
** Description=1.0 MMBtu/hr Heater Treater 4 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E4 VOLUME 639039.97 3549916.341 0
SO SRCPARAM 37996E4 .0002898 9.14 .47 .93
** NMED source ID=37996EQPT5 Facility's ID=HT-5
** Description=1.0 MMBtu/hr Heater Treater 5 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E5 VOLUME 639035.729 3549909.441 0
SO SRCPARAM 37996E5 .0002898 9.14 .47 .93
** NMED source ID=37996EQPT6 Facility's ID=HT-6
** Description=1.0 MMBtu/hr Heater Treater 6 Construction date=25-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E6 VOLUME 639037.381 3549901.287 0
SO SRCPARAM 37996E6 .0002898 9.14 .47 .93
** NMED source ID=37996EQPT38 Facility's ID=FL-1
** Description=Flare - 12.7 MMscfd Construction date=25-OCT-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37996E38 POINT 639044.33 3549896.325 0
SO SRCPARAM 37996E38 .0138598 12.19 1273 20 9.535
**********END OF 37996: Seawolf 1-12 CTB 1 INFO**********************************
************************************************************
** 14.95km away. Facility ID=38909 Name=Newman Cosmo CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.176439, -103.370396, NAD83
** Total Sulfur Dioxide emissions=50.06tons/year
*****************Facility sources: ******************************
** NMED source ID=38909EQPT3 Facility's ID=GEN-1
** Description=Generator 1 (399 hp) Construction date=17-APR-19
** SCC=20200254
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38909E3 POINT 653638.353 3561156.676 0
SO SRCPARAM 38909E3 .0005796 3.05 830.37 121.16 .1
** NMED source ID=38909EQPT7 Facility's ID=Flare-1
** Description=High Pressure Flare 79.17 M SCF/d Construction date=17-APR-19
** SCC=30190014
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5832hr/yr, 24hr/day
SO LOCATION 38909E7 POINT 653645.889 3561163.697 0
SO SRCPARAM 38909E7 1.4338572 12.19 1273 20 20.806
** NMED source ID=38909EQPT30 Facility's ID=FL-2
** Description=Flare (3.33 M scf/hr) Construction date=18-SEP-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38909E30 POINT 653639.103 3561167.249 0
SO SRCPARAM 38909E30 .0051785 9.14 1273 20 20.806
**********END OF 38909: Newman Cosmo CTB INFO**********************************
************************************************************
** 14.99km away. Facility ID=39163 Name=Devon - Jayhawk 6 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.076295, -103.511917, NAD83
** Total Sulfur Dioxide emissions=.11tons/year
*****************Facility sources: ******************************
** NMED source ID=39163EQPT3 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater Construction date=04-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 39163E3 VOLUME 640447.816 3549861.227 0
SO SRCPARAM 39163E3 .0002898 9.14 .47 .93
** NMED source ID=39163EQPT9 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater Treater Construction date=04-OCT-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 39163E9 VOLUME 640455.352 3549868.248 0
SO SRCPARAM 39163E9 .0023058 9.14 .47 .93
** NMED source ID=39163EQPT14 Facility's ID=GEN-1
** Description=Generator 1 Construction date=30-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39163E14 POINT 640448.566 3549871.8 0
SO SRCPARAM 39163E14 .0002898 3.51 1005.37 215.22 .09
** NMED source ID=39163EQPT15 Facility's ID=GEN-2
** Description=Generator 2 Construction date=30-OCT-19
** SCC=20200253
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39163E15 POINT 640440.969 3549869.708 0
SO SRCPARAM 39163E15 .0002898 3.51 1005.37 136.18 .09
**********END OF 39163: Devon - Jayhawk 6 CTB 2
INFO**********************************
************************************************************
** 15km away. Facility ID=39381 Name=Red Hills 32-5 Fed Com 127H, 130H-131H,
155H-157H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.09157, -103.59848, WGS84
** Total Sulfur Dioxide emissions=.64tons/year
*****************Facility sources: ****************************
** NMED source ID=39381EQPT1 Facility's ID=HTR-1
** Description=2 MMBtu/h Heater Treater Construction date=27-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=177hr/yr, 1hr/day
SO LOCATION 39381E1 VOLUME 632255.108 3551445.152 0
SO SRCPARAM 39381E1 .00126 4.57 .47 .93
** NMED source ID=39381EQPT2 Facility's ID=HTR-2
** Description=2 MMBtu/h Heater Treater Construction date=27-FEB-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=177hr/yr, 1hr/day
SO LOCATION 39381E2 VOLUME 632262.644 3551452.173 0
SO SRCPARAM 39381E2 .00126 4.57 .47 .93
** NMED source ID=39381EQPT3 Facility's ID=Flare 1-Normal
** Description=Process Flare Construction date=27-FEB-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=705hr/yr, 2hr/day
SO LOCATION 39381E3 POINT 632255.858 3551455.725 0
SO SRCPARAM 39381E3 .00252 12.19 1273 20 .61
** NMED source ID=39381EQPT14 Facility's ID=Flare 1-SSM
** Description=Process Flare - SSM Construction date=15-DEC-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39381E14 POINT 632248.261 3551453.633 0
SO SRCPARAM 39381E14 .0126628 12.19 1273 20 .61
** NMED source ID=39381EQPT15 Facility's ID=Flare 2 - SSM
** Description=High Pressure Flare - SSM Construction date=15-DEC-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39381E15 POINT 632244.02 3551446.733 0
SO SRCPARAM 39381E15 .002583 15.24 1273 20 2.632
**********END OF 39381: Red Hills 32-5 Fed Com 127H, 130H-131H, 155H-157H
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INFO***********************************
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** 15.03km away. Facility ID=39433 Name=Biggers Federal East TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.12338, -103.40212, NAD83
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=39433EQPT1 Facility's ID=ENG 1
** Description=4SLB Compressor Engine CAT 3516J 1380 HP Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39433E1 POINT 650734.405 3555229.47 0
SO SRCPARAM 39433E1 .00126 6.1 723.15 51.56 .3
** NMED source ID=39433EQPT16 Facility's ID=ENG-02
** Description=4SRB Compressor Engine CAT 3516J 1380 HP Construction date=10-NOV-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39433E16 POINT 650741.941 3555236.491 0
SO SRCPARAM 39433E16 .00126 6.1 886.48 41.24 .3
**********END OF 39433: Biggers Federal East TB
INFO***********************************
************************************************************
** 15.1km away. Facility ID=29403 Name=Frac Cat Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=4221 Title V
** lat,long,datum=32.200583, -103.683756, WGS84
** Total Sulfur Dioxide emissions=5.9tons/year
*****************Facility sources: ******************************
** NMED source ID=29403EQPT27 Facility's ID=5
** Description=Caterpillar G3608 2500 hp Construction date=03-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 29403E27 POINT 624059.611 3563428.671 0
SO SRCPARAM 29403E27 .0377994 7.01 728.15 45.87 .46
** NMED source ID=29403EQPT34 Facility's ID=Flare-1
** Description=Flare 28.8 MMscfd Construction date=03-APR-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7263hr/yr, 20hr/day
SO LOCATION 29403E34 POINT 624067.147 3563435.692 0
SO SRCPARAM 29403E34 .1385978 6.1 1273 20 3.604
**********END OF 29403: Frac Cat Compressor Station
INFO***********************************
************************************************************
** 15.11km away. Facility ID=36104 Name=Fez Fee 11H Battery
** Company ID=11135 Name=COG Operating LLC
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** SIC=1311 NAIC=21112    Permit=6561 NOI
** lat,long,datum=32.150698, -103.379944, WGS84
** Total Sulfur Dioxide emissions=2.1tons/year
*****************Facility sources: ******************************
** NMED source ID=36104EQPT2 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=14-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36104E2 VOLUME 652781.034 3558289.309 0
SO SRCPARAM 36104E2 .060479 6.71 .47 .93
**********END OF 36104: Fez Fee 11H Battery
INFO*********************************
************************************************************
** 15.17km away. Facility ID=41067 Name=Serpentine 35 Facility 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.345041, -103.550097, NAD83
** Total Sulfur Dioxide emissions=.6tons/year
*****************Facility sources: ******************************
** NMED source ID=41067EQPT5 Facility's ID=HT-1
** Description=HT-1 Heater Treater Construction date=24-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E5 VOLUME 636442.016 3579605.758 0
SO SRCPARAM 41067E5 .0002898 9.14 .47 .93
** NMED source ID=41067EQPT6 Facility's ID=HT-2
** Description=HT-2 Heater Treater Construction date=24-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E6 VOLUME 636449.552 3579612.779 0
SO SRCPARAM 41067E6 .0002898 9.14 .47 .93
** NMED source ID=41067EQPT17 Facility's ID=MT 1
** Description=Microturbine 1 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E17 POINT 636442.766 3579616.331 0
SO SRCPARAM 41067E17 .00126 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT18 Facility's ID=MT 2
** Description=Microturbine 2 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E18 POINT 636435.169 3579614.239 0
SO SRCPARAM 41067E18 .00126 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT19 Facility's ID=MT 3
** Description=Microturbine 3 Construction date=24-OCT-23
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** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E19 POINT 636430.928 3579607.339 0
SO SRCPARAM 41067E19 .00126 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT20 Facility's ID=MT 4
** Description=Microturbine 4 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E20 POINT 636432.58 3579599.185 0
SO SRCPARAM 41067E20 .00126 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT21 Facility's ID=MT 5
** Description=Microturbine 5 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E21 POINT 636439.529 3579594.223 0
SO SRCPARAM 41067E21 .00126 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT22 Facility's ID=MT 6
** Description=Microturbine 6 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E22 POINT 636448.212 3579595.365 0
SO SRCPARAM 41067E22 .00126 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT23 Facility's ID=MT 7
** Description=Microturbine 7 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E23 POINT 636453.922 3579602.293 0
SO SRCPARAM 41067E23 .00126 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT24 Facility's ID=MT 8
** Description=Microturbine 8 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E24 POINT 636453.357 3579611.474 0
SO SRCPARAM 41067E24 .00126 3.95 537.04 103.24 .15
** NMED source ID=41067EQPT25 Facility's ID=MT 9
** Description=Microturbine 9 Construction date=24-OCT-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E25 POINT 636446.522 3579617.952 0
SO SRCPARAM 41067E25 .00126 4.02 529.26 95.74 .15
** NMED source ID=41067EQPT26 Facility's ID=MT 10
** Description=Microturbine 10 Construction date=24-OCT-23
** SCC=20200201
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41067E26 POINT 636436.886 3579618.029 0
SO SRCPARAM 41067E26 .00126 4.02 529.26 95.74 .15
**********END OF 41067: Serpentine 35 Facility 1
INFO**********************************
************************************************************
** 15.21km away. Facility ID=38582 Name=EOG - Bodacious Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1121, -103.635833, WGS84
** Total Sulfur Dioxide emissions=4.66tons/year
*****************Facility sources: ******************************
** NMED source ID=38582EQPT17 Facility's ID=ENG-1
** Description=Natural Gas Engine CAT G3606A4 1875 HP Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8472hr/yr, 24hr/day
SO LOCATION 38582E17 POINT 628701.176 3553675.858 0
SO SRCPARAM 38582E17 .0176397 8.53 719.26 27.43 .51
** NMED source ID=38582EQPT18 Facility's ID=ENG-2
** Description=Natural Gas Engine CAT G3606A4 1875 HP Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8472hr/yr, 24hr/day
SO LOCATION 38582E18 POINT 628708.712 3553682.879 0
SO SRCPARAM 38582E18 .0176397 8.53 719.26 27.43 .51
** NMED source ID=38582EQPT19 Facility's ID=ENG-3
** Description=Natural Gas Engine CAT 2500 HP Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8519hr/yr, 23hr/day
SO LOCATION 38582E19 POINT 628701.926 3553686.431 0
SO SRCPARAM 38582E19 .0239396 8.84 718.15 26 .61
** NMED source ID=38582EQPT20 Facility's ID=ENG-4
** Description=Natural Gas Engine CAT 2500 HP Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38582E20 POINT 628694.329 3553684.339 0
SO SRCPARAM 38582E20 .0239396 8.53 718.15 26 .61
** NMED source ID=38582EQPT21 Facility's ID=ENG-5
** Description=Natural Gas Engine CAT 2500 HP Construction date=19-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38582E21 POINT 628690.088 3553677.439 0
SO SRCPARAM 38582E21 .0239396 8.84 718.15 26 .61
** NMED source ID=38582EQPT22 Facility's ID=ENG-6
** Description=Natural Gas Engine CAT 2500 hp Construction date=19-APR-19
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38582E22 POINT 628691.74 3553669.285 0
SO SRCPARAM 38582E22 .0239396 .61 718.15 26 .61
** NMED source ID=38582EQPT28 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.0 MMbtu/hr Construction date=19-APR-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38582E28 POINT 628698.689 3553664.323 0
SO SRCPARAM 38582E28 .00252 3.96 588.71 2.62 .3
** NMED source ID=38582EQPT29 Facility's ID=Heater-1
** Description=Separator Heater 0.50 MMbtu/hr Construction date=19-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38582E29 POINT 628707.372 3553665.465 0
SO SRCPARAM 38582E29 .00126 3.96 588.71 1.31 .3
** NMED source ID=38582EQPT30 Facility's ID=Flare-1
** Description=Process Flare 5.25 MMSCFD Dual Tip Construction date=19-APR-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38582E30 POINT 628713.082 3553672.393 0
SO SRCPARAM 38582E30 .00126 8.23 1273 20 20.806
**********END OF 38582: EOG - Bodacious Localized Gas Lift Station
INFO**********************************
************************************************************
** 15.21km away. Facility ID=39584 Name=Pitchblende Federal 19 A CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8861 NOI
** lat,long,datum=32.121356, -103.401686, WGS84
** Total Sulfur Dioxide emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=39584EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39584E4 VOLUME 650778.68 3555005.69 0
SO SRCPARAM 39584E4 .00126 4.57 .47 .93
** NMED source ID=39584EQPT5 Facility's ID=FL-01
** Description=Low Pressure Flare Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 14hr/day
SO LOCATION 39584E5 POINT 650786.216 3555012.711 0
SO SRCPARAM 39584E5 .0005796 21.34 1273 20 20.806
** NMED source ID=39584EQPT14 Facility's ID=HT-02
```

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** Description=Heater Treater Burner Construction date=07-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39584E14 VOLUME 650779.43 3555016.263 0
SO SRCPARAM 39584E14 .00126 4.57 .47 .93
**********END OF 39584: Pitchblende Federal 19 A CTB
INFO**********************************
************************************************************
** 15.35km away. Facility ID=6662 Name=Cosmo Booster
** Company ID=13605 Name=NGL Water Solutions Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.210358, -103.360942, WGS84
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=6662EQPT1 Facility's ID=GEN1
** Description=Site Generator Construction date=18-SEP-23
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6662E1 POINT 654472.449 3564930.671 0
SO SRCPARAM 6662E1 .0002898 3.05 839.82 34.63 .2
** NMED source ID=6662EQPT2 Facility's ID=GEN2
** Description=Site Generator Construction date=18-SEP-23
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6662E2 POINT 654479.985 3564937.692 0
SO SRCPARAM 6662E2 .0002898 3.05 839.82 34.63 .2
**********END OF 6662: Cosmo Booster INFO************************************
************************************************************
** 15.36km away. Facility ID=38928 Name=OXY - Mesa Verde 16 CGL
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.21318, -103.68693, WGS84
** Total Sulfur Dioxide emissions=.24tons/year
*****************Facility sources: ******************************
** NMED source ID=38928EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine 1 Construction date=24-APR-19
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38928E2 POINT 623743.37 3564821.5 0
SO SRCPARAM 38928E2 .00126 4.57 816.48 27.01 .46
** NMED source ID=38928EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine 2 Construction date=24-APR-19
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38928E3 POINT 623750.906 3564828.521 0
```

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SO SRCPARAM 38928E3 .00126 4.57 816.48 27.01 .46
** NMED source ID=38928EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine 3 Construction date=24-APR-19
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38928E4 POINT 623744.12 3564832.073 0
SO SRCPARAM 38928E4 .00126 4.57 816.48 27.01 .46
** NMED source ID=38928EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine 4 Construction date=24-APR-19
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38928E5 POINT 623736.523 3564829.981 0
SO SRCPARAM 38928E5 .00126 4.57 816.48 27.01 .46
**********END OF 38928: OXY - Mesa Verde 16 CGL
INFO**********************************
************************************************************
** 15.42km away. Facility ID=38473 Name=Horned Frog Compressor Station
** Company ID=13452 Name=Delaware G & P, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.083086, -103.588061, NAD83
** Total Sulfur Dioxide emissions=.3tons/year
*****************Facility sources: ****************************
** NMED source ID=38473EQPT1 Facility's ID=E-1
** Description=Caterpillar 3516B, 1380 hp Construction date=03-DEC-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7644hr/yr, 24hr/day
SO LOCATION 38473E1 POINT 633250.704 3550517.455 0
SO SRCPARAM 38473E1 .00126 7.62 804.26 33.22 .41
** NMED source ID=38473EQPT2 Facility's ID=E-2
** Description=Caterpillar 3516B, 1380 hp Construction date=03-DEC-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7136hr/yr, 24hr/day
SO LOCATION 38473E2 POINT 633258.24 3550524.476 0
SO SRCPARAM 38473E2 .00126 7.62 804.26 33.22 .41
** NMED source ID=38473EQPT14 Facility's ID=E-4
** Description=Caterpillar G3606, 1875 hp Construction date=08-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E14 POINT 633251.454 3550528.028 0
SO SRCPARAM 38473E14 .00126 4.51 719.26 19.12 .61
** NMED source ID=38473EQPT18 Facility's ID=E-5
** Description=Waukesha VHP - P9394GSI S5, 2,500 hp Construction date=25-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38473E18 POINT 633243.857 3550525.936 0
SO SRCPARAM 38473E18 .00126 7.47 847.59 16.86 .61
** NMED source ID=38473EQPT19 Facility's ID=E-6
** Description=Waukesha VHP - P9394GSI S5, 2,500 hp Construction date=25-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E19 POINT 633239.616 3550519.036 0
SO SRCPARAM 38473E19 .00126 7.47 847.59 16.86 .61
** NMED source ID=38473EQPT20 Facility's ID=E-7
** Description=Waukesha VHP - P9394GSI S5, 2,500 hp Construction date=25-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E20 POINT 633241.268 3550510.882 0
SO SRCPARAM 38473E20 .00126 7.47 847.59 16.86 .61
** NMED source ID=38473EQPT22 Facility's ID=GEN-4
** Description=Generator Engine, Aggreko 400kW Construction date=25-JUL-23
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E22 POINT 633248.217 3550505.92 0
SO SRCPARAM 38473E22 .0002898 3.51 810.93 62.76 .15
** NMED source ID=38473EQPT23 Facility's ID=GEN-5
** Description=Generator Engine, Aggreko 400kW Construction date=25-JUL-23
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E23 POINT 633256.9 3550507.062 0
SO SRCPARAM 38473E23 .0002898 3.51 810.93 62.76 .15
** NMED source ID=38473EQPT31 Facility's ID=E-8
** Description=Waukesha VHP - P9394GSI S5, 2,500 hp Construction date=10-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38473E31 POINT 633262.61 3550513.99 0
SO SRCPARAM 38473E31 .00126 7.47 847.59 16.86 .61
**********END OF 38473: Horned Frog Compressor Station
INFO**********************************
************************************************************
** 15.45km away. Facility ID=7803 Name=Stranger 34 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.08257, -103.460473, NAD83
** Total Sulfur Dioxide emissions=23.63tons/year
*****************Facility sources: ****************************
** NMED source ID=7803EQPT3 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E3 POINT 645293.764 3550625.031 0
SO SRCPARAM 7803E3 .00126 6.28 873.71 25.31 .41
** NMED source ID=7803EQPT4 Facility's ID=ENG 2
** Description=ENG 2 Gas Lift Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E4 POINT 645301.3 3550632.052 0
SO SRCPARAM 7803E4 .0002898 3.51 1000.37 71.17 .13
** NMED source ID=7803EQPT5 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E5 POINT 645294.514 3550635.604 0
SO SRCPARAM 7803E5 .0002898 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT6 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E6 POINT 645286.917 3550633.512 0
SO SRCPARAM 7803E6 .0002898 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT7 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E7 POINT 645282.676 3550626.612 0
SO SRCPARAM 7803E7 .0002898 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT8 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E8 POINT 645284.328 3550618.458 0
SO SRCPARAM 7803E8 .0002898 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT9 Facility's ID=ENG 7
** Description=ENG 7 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E9 POINT 645291.277 3550613.496 0
SO SRCPARAM 7803E9 .0002898 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT10 Facility's ID=ENG 8
** Description=ENG 8 Generator Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 7803E10 POINT 645299.96 3550614.638 0
SO SRCPARAM 7803E10 .0002898 3.51 1005.37 77.48 .15
** NMED source ID=7803EQPT12 Facility's ID=FL-1 LP SSM
** Description=Flare 1 Low Pressure Side SSM Construction date=17-JAN-24
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E12 POINT 645305.67 3550621.566 0
SO SRCPARAM 7803E12 .2433651 12.19 1273 20 20.806
** NMED source ID=7803EQPT13 Facility's ID=FL-1 HP SSM
** Description=Flare 1 High Pressure Side Construction date=17-JAN-24
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E13 POINT 645305.105 3550630.747 0
SO SRCPARAM 7803E13 .0037421 12.19 1273 20 20.806
** NMED source ID=7803EQPT14 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=17-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E14 VOLUME 645298.27 3550637.225 0
SO SRCPARAM 7803E14 .2154566 9.14 .47 .93
** NMED source ID=7803EQPT15 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=17-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7803E15 VOLUME 645288.634 3550637.302 0
SO SRCPARAM 7803E15 .2154566 9.14 .47 .93
**********END OF 7803: Stranger 34 CTB 2 INFO**********************************
************************************************************
** 15.49km away. Facility ID=39732 Name=Red Hills CTB 2
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.093465, -103.61262, NAD83
** Total Sulfur Dioxide emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=39732EQPT1 Facility's ID=HT-1
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E1 VOLUME 630917.962 3551637.971 0
SO SRCPARAM 39732E1 .0002898 4.57 .47 .93
** NMED source ID=39732EQPT2 Facility's ID=HT-2
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39732E2 VOLUME 630925.498 3551644.992 0
SO SRCPARAM 39732E2 .0002898 4.57 .47 .93
** NMED source ID=39732EQPT3 Facility's ID=HT-3
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E3 VOLUME 630918.712 3551648.544 0
SO SRCPARAM 39732E3 .0002898 4.57 .47 .93
** NMED source ID=39732EQPT4 Facility's ID=HT-4
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E4 VOLUME 630911.115 3551646.452 0
SO SRCPARAM 39732E4 .0002898 4.57 .47 .93
** NMED source ID=39732EQPT5 Facility's ID=HT-5
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E5 VOLUME 630906.874 3551639.552 0
SO SRCPARAM 39732E5 .0002898 4.57 .47 .93
** NMED source ID=39732EQPT6 Facility's ID=HT-6
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E6 VOLUME 630908.526 3551631.398 0
SO SRCPARAM 39732E6 .0002898 4.57 .47 .93
** NMED source ID=39732EQPT7 Facility's ID=HT-7
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E7 VOLUME 630915.475 3551626.436 0
SO SRCPARAM 39732E7 .0002898 4.57 .47 .93
** NMED source ID=39732EQPT8 Facility's ID=HT-8
** Description=Heater Treater Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39732E8 VOLUME 630924.158 3551627.578 0
SO SRCPARAM 39732E8 .0002898 4.57 .47 .93
**********END OF 39732: Red Hills CTB 2 INFO**********************************
************************************************************
** 15.5km away. Facility ID=40606 Name=Siege Compressor Station
** Company ID=14143 Name=Northwind Midstream Partners LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.2822, -103.3827, WGS84
```

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** Total Sulfur Dioxide emissions=77.41tons/year
*****************Facility sources: ****************************
** NMED source ID=40606EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=22-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E2 POINT 652301.645 3572864.43 0
SO SRCPARAM 40606E2 .0251996 7.62 682.04 90.5 .46
** NMED source ID=40606EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=22-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E3 POINT 652309.181 3572871.451 0
SO SRCPARAM 40606E3 .0125998 7.62 714.82 103.97 .3
** NMED source ID=40606EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=22-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E4 POINT 652302.395 3572875.003 0
SO SRCPARAM 40606E4 .0125998 7.62 714.82 103.97 .3
** NMED source ID=40606EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=22-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E5 POINT 652294.798 3572872.911 0
SO SRCPARAM 40606E5 .0125998 7.62 714.82 103.97 .3
** NMED source ID=40606EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=22-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E6 POINT 652290.557 3572866.011 0
SO SRCPARAM 40606E6 .0125998 7.62 714.82 103.94 .3
** NMED source ID=40606EQPT7 Facility's ID=FL-1 SSM
** Description=Flare Construction date=22-SEP-22
** SCC=30600904
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E7 POINT 652292.209 3572857.857 0
SO SRCPARAM 40606E7 2.1500173 22.86 1273 20 2.632
** NMED source ID=40606EQPT10 Facility's ID=RBL-1
** Description=TEG Glycol Regen Heater Construction date=22-SEP-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E10 POINT 652299.158 3572852.895 0
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SO SRCPARAM 40606E10 .00126 5.18 588.71 6.83 .3
** NMED source ID=40606EQPT14 Facility's ID=TO-1
** Description=Thermal Oxidizer Construction date=22-SEP-22
** SCC=30600904
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40606E14 POINT 652307.841 3572854.037 0
SO SRCPARAM 40606E14 .00126 7.62 1033.15 .08 1.22
**********END OF 40606: Siege Compressor Station
INFO**********************************
************************************************************
** 15.55km away. Facility ID=40853 Name=Pelican Compressor Station
** Company ID=14143 Name=Northwind Midstream Partners LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.166191, -103.367421, WGS84
** Total Sulfur Dioxide emissions=73.42tons/year
*****************Facility sources: ******************************
** NMED source ID=40853EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=04-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E2 POINT 653936.11 3560024.785 0
SO SRCPARAM 40853E2 .0251996 7.62 682.04 90.5 .46
** NMED source ID=40853EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=04-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E3 POINT 653943.646 3560031.806 0
SO SRCPARAM 40853E3 .0125998 7.62 714.82 103.97 .3
** NMED source ID=40853EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=04-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E4 POINT 653936.86 3560035.358 0
SO SRCPARAM 40853E4 .0125998 7.62 714.82 103.97 .3
** NMED source ID=40853EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=04-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E5 POINT 653929.263 3560033.266 0
SO SRCPARAM 40853E5 .0125998 7.62 714.82 103.97 .3
** NMED source ID=40853EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=04-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40853E6 POINT 653925.022 3560026.366 0
SO SRCPARAM 40853E6 .0125998 7.62 714.82 103.97 .3
** NMED source ID=40853EQPT9 Facility's ID=RBL-1
** Description=TEG Glycol Regen Heater Construction date=04-JAN-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E9 POINT 653926.674 3560018.212 0
SO SRCPARAM 40853E9 .00126 5.18 588.71 6.83 .3
** NMED source ID=40853EQPT13 Facility's ID=TO-1
** Description=Thermal Oxidizer Construction date=04-JAN-23
** SCC=30600904
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E13 POINT 653933.623 3560013.25 0
SO SRCPARAM 40853E13 .00126 7.62 1033.15 .37 1.22
** NMED source ID=40853EQPT14 Facility's ID=FL-1 SSM
** Description=Flare Construction date=05-SEP-23
** SCC=30600904
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40853E14 POINT 653942.306 3560014.392 0
SO SRCPARAM 40853E14 2.0355355 22.86 1273 20 3.604
**********END OF 40853: Pelican Compressor Station
INFO**********************************
************************************************************
** 15.55km away. Facility ID=7423 Name=Inga 33 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257838, -103.679253, WGS84
** Total Sulfur Dioxide emissions=.17tons/year
*****************Facility sources: ****************************
** NMED source ID=7423EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=20-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7423E1 POINT 624406.02 3569781.124 0
SO SRCPARAM 7423E1 .00126 4.88 1000.37 14.94 .28
** NMED source ID=7423EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=20-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7423E2 POINT 624413.556 3569788.145 0
SO SRCPARAM 7423E2 .00126 4.57 803.71 22.07 .2
** NMED source ID=7423EQPT6 Facility's ID=Heater-1
** Description=Heater Treater Construction date=20-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7423E6 VOLUME 624406.77 3569791.697 0
SO SRCPARAM 7423E6 .0005796 3.96 .47 .93
** NMED source ID=7423EQPT7 Facility's ID=Heater-2
** Description=Heater Treater Construction date=20-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7423E7 VOLUME 624399.173 3569789.605 0
SO SRCPARAM 7423E7 .00126 5.18 .47 .93
**********END OF 7423: Inga 33 Fed Com CTB INFO************************************
************************************************************
** 15.57km away. Facility ID=39565 Name=Gipple A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.168744, -103.366131, NAD83
** Total Sulfur Dioxide emissions=3.59tons/year
*****************Facility sources: ******************************
** NMED source ID=39565EQPT8 Facility's ID=HT-1
** Description=Heater Treater 1, 1.0 MMBtu/hr Construction date=18-JUN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2928hr/yr, 24hr/day
SO LOCATION 39565E8 POINT 654053.46 3560309.67 0
SO SRCPARAM 39565E8 .0050399 3.05 510.93 2.93 .25
** NMED source ID=39565EQPT12 Facility's ID=FL-1a,b,d
** Description=Flare, low-pressure side of dual tip Construction date=18-JUN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2928hr/yr, 24hr/day
SO LOCATION 39565E12 POINT 654060.996 3560316.691 0
SO SRCPARAM 39565E12 .0100798 12.19 1273 20 20.806
** NMED source ID=39565EQPT13 Facility's ID=FL-1c
** Description=Flare, high-pressure side of dual tip Construction date=18-JUN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2928hr/yr, 24hr/day
SO LOCATION 39565E13 POINT 654054.21 3560320.243 0
SO SRCPARAM 39565E13 .0851494 12.19 1273 20 4.652
** NMED source ID=39565EQPT15 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=20-JUN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39565E15 POINT 654046.613 3560318.151 0
SO SRCPARAM 39565E15 .00126 4.57 725.37 107.84 .2
** NMED source ID=39565EQPT16 Facility's ID=FL-1a,b,d SSM
** Description=Flare, low-pressure side of dual tip Construction date=20-JUN-23
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39565E16 POINT 654042.372 3560311.251 0
SO SRCPARAM 39565E16 .0017262 12.19 1273 20 20.806
**********END OF 39565: Gipple A CTB INFO**********************************
************************************************************
** 15.58km away. Facility ID=40069 Name=Stranger 34 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0825, -103.457269, NAD83
** Total Sulfur Dioxide emissions=.33tons/year
*****************Facility sources: ****************************
** NMED source ID=40069EQPT1 Facility's ID=FL-1 HP/LP
** Description=15.5 MMSCFD Flare Construction date=04-FEB-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40069E1 POINT 645596.286 3550621.592 0
SO SRCPARAM 40069E1 .0277196 12.19 1273 20 13.484
** NMED source ID=40069EQPT2 Facility's ID=GEN 1
** Description=550 HP Generator Construction date=04-FEB-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40069E2 POINT 645603.822 3550628.613 0
SO SRCPARAM 40069E2 .0002898 2.99 1005.37 215.25 .09
** NMED source ID=40069EQPT3 Facility's ID=GEN 2
** Description=550 HP Generator Construction date=04-FEB-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40069E3 POINT 645597.036 3550632.165 0
SO SRCPARAM 40069E3 .0002898 2.99 1005.37 215.25 .09
** NMED source ID=40069EQPT4 Facility's ID=HT-1
** Description=3.0 MMBTU/hr Heater Treater 1 Construction date=04-FEB-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40069E4 VOLUME 645589.439 3550630.073 0
SO SRCPARAM 40069E4 .00126 9.14 .47 .93
**********END OF 40069: Stranger 34 CTB 3 INFO**********************************
************************************************************
** 15.64km away. Facility ID=40736 Name=Stranger 34 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9756 NOI
** lat,long,datum=32.080755, -103.460397, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=40736EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=11-OCT-22
** SCC=20200253
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40736E2 POINT 645303.81 3550423.919 0
SO SRCPARAM 40736E2 .0002898 4.39 778.71 13.8 .26
**********END OF 40736: Stranger 34 Wellpad 2
INFO**********************************
************************************************************
** 15.65km away. Facility ID=39694 Name=EOG - Gladiator 3 Fed No301H Facility
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.240261, -103.361397, NAD83
** Total Sulfur Dioxide emissions=11.42tons/year
*****************Facility sources: ******************************
** NMED source ID=39694EQPT2 Facility's ID=FLARE-1
** Description=5 MMscfd Flare - pilot, normal operations Construction date=17-NOV-20
** SCC=30600903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2040hr/yr, 24hr/day
SO LOCATION 39694E2 POINT 654378.99 3568245.246 0
SO SRCPARAM 39694E2 .0005796 12.19 1273 20 .7
** NMED source ID=39694EQPT3 Facility's ID=HTR-1
** Description=0.75 MM Btu/hr Heater Treater Construction date=17-NOV-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1609hr/yr, 24hr/day
SO LOCATION 39694E3 VOLUME 654386.526 3568252.267 0
SO SRCPARAM 39694E3 .3288548 5.18 .47 .93
**********END OF 39694: EOG - Gladiator 3 Fed No301H Facility
INFO**********************************
************************************************************
** 15.68km away. Facility ID=38091 Name=Calm Breeze 2 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0713, -103.5486, WGS84
** Total Sulfur Dioxide emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=38091EQPT5 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38091E5 VOLUME 636992.733 3549260.307 0
SO SRCPARAM 38091E5 .0002898 4.88 .47 .93
** NMED source ID=38091EQPT18 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38091E18 VOLUME 637000.269 3549267.328 0
SO SRCPARAM 38091E18 .0002898 4.88 .47 .93
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** NMED source ID=38091EQPT19 Facility's ID=HTR-3
** Description=Heater Treater Construction date=01-JAN-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38091E19 VOLUME 636993.483 3549270.88 0
SO SRCPARAM 38091E19 .0002898 6.1 .47 .93
** NMED source ID=38091EQPT20 Facility's ID=HTR-4
** Description=Heater Treater Construction date=18-FEB-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38091E20 VOLUME 636985.886 3549268.788 0
SO SRCPARAM 38091E20 .0002898 6.1 .47 .93
** NMED source ID=38091EQPT21 Facility's ID=FL-1 SSM
** Description=Process Flare, 5.23 MMSCFD Construction date=01-JAN-17
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38091E21 POINT 636981.645 3549261.888 0
SO SRCPARAM 38091E21 .0011466 6.1 1273 20 .7
**********END OF 38091: Calm Breeze 2 Fed Com CTB
INFO**********************************
************************************************************
** 15.69km away. Facility ID=40231 Name=EOG - Golden Bear Local Gas Lift
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1125, -103.6435, WGS84
** Total Sulfur Dioxide emissions=.92tons/year
*****************Facility sources: ****************************
** NMED source ID=40231EQPT1 Facility's ID=HTR-1
** Description=1.5 MMbtu/hr Separator Heater Construction date=29-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E1 POINT 627977.222 3553711.069 0
SO SRCPARAM 40231E1 .00126 6.1 588.71 .11 1.83
** NMED source ID=40231EQPT2 Facility's ID=RBL-1
** Description=1 MMbtu/hr Dehy Reboiler Construction date=29-NOV-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E2 POINT 627984.758 3553718.09 0
SO SRCPARAM 40231E2 .0005796 2.44 588.71 .22 1.07
** NMED source ID=40231EQPT3 Facility's ID=ENG-1
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E3 POINT 627977.972 3553721.642 0
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SO SRCPARAM 40231E3 .00252 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT4 Facility's ID=ENG-2
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E4 POINT 627970.375 3553719.55 0
SO SRCPARAM 40231E4 .00252 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT5 Facility's ID=ENG-3
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E5 POINT 627966.134 3553712.65 0
SO SRCPARAM 40231E5 .00252 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT6 Facility's ID=ENG-4
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E6 POINT 627967.786 3553704.496 0
SO SRCPARAM 40231E6 .00252 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT7 Facility's ID=ENG-5
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E7 POINT 627974.735 3553699.534 0
SO SRCPARAM 40231E7 .00252 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT8 Facility's ID=ENG-6
** Description=2500 HP CAT G3608 Engine Construction date=29-NOV-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E8 POINT 627983.418 3553700.676 0
SO SRCPARAM 40231E8 .00252 6.1 688.15 25.24 .61
** NMED source ID=40231EQPT13 Facility's ID=FL-1
** Description=5.23 MMSCFD Process Flare Construction date=29-NOV-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40231E13 POINT 627989.128 3553707.604 0
SO SRCPARAM 40231E13 .0088199 6.1 1273 20 2.632
**********END OF 40231: EOG - Golden Bear Local Gas Lift
INFO**********************************
************************************************************
** 15.7km away. Facility ID=39842 Name=EOG - Anaconda LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0961, -103.6212, WGS84
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** Total Sulfur Dioxide emissions=4.95tons/year
*****************Facility sources: ****************************
** NMED source ID=39842EQPT4 Facility's ID=Flare-1
** Description=Dual-tip Flare 5.23-MMSCFD Construction date=03-FEB-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39842E4 POINT 630104.519 3551919.695 0
SO SRCPARAM 39842E4 .0005796 12.19 1273 20 20.806
** NMED source ID=39842EQPT6 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.0 MMBtu/hr Construction date=03-FEB-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39842E6 POINT 630112.055 3551926.716 0
SO SRCPARAM 39842E6 .002583 3.96 588.71 2.65 .3
** NMED source ID=39842EQPT7 Facility's ID=Heater-1
** Description=Separator Heater 1.5 MMBtu/hr Construction date=03-FEB-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39842E7 VOLUME 630105.269 3551930.268 0
SO SRCPARAM 39842E7 .0037421 3.96 .47 .93
** NMED source ID=39842EQPT8 Facility's ID=ENG-1
** Description=Caterpillar G3608 2500hp Construction date=03-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39842E8 POINT 630097.672 3551928.176 0
SO SRCPARAM 39842E8 .0239396 6.1 688.15 25.51 .61
** NMED source ID=39842EQPT9 Facility's ID=ENG-2
** Description=Caterpillar G3608 2500hp Construction date=03-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39842E9 POINT 630093.431 3551921.276 0
SO SRCPARAM 39842E9 .0239396 6.1 688.15 25.51 .61
** NMED source ID=39842EQPT10 Facility's ID=ENG-3
** Description=Caterpillar G3608 2500hp Construction date=03-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39842E10 POINT 630095.083 3551913.122 0
SO SRCPARAM 39842E10 .0239396 6.1 688.15 25.51 .61
** NMED source ID=39842EQPT11 Facility's ID=ENG-4
** Description=Caterpillar G3608 2500hp Construction date=03-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39842E11 POINT 630102.032 3551908.16 0
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SO SRCPARAM 39842E11 .0239396 6.1 688.15 25.51 .61
** NMED source ID=39842EQPT12 Facility's ID=ENG-5
** Description=Caterpillar G3608 2500hp Construction date=03-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39842E12 POINT 630110.715 3551909.302 0
SO SRCPARAM 39842E12 .0239396 6.1 688.15 25.51 .61
** NMED source ID=39842EQPT13 Facility's ID=ENG-6
** Description=Caterpillar G3606 1875hp Construction date=03-FEB-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39842E13 POINT 630116.425 3551916.23 0
SO SRCPARAM 39842E13 .0176397 4.57 701.48 27.86 .51
**********END OF 39842: EOG - Anaconda LGL Station
INFO***********************************
************************************************************
** 15.76km away. Facility ID=39731 Name=Red Hills Pad 5
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.09368, -103.61828, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=39731EQPT1 Facility's ID=HT-1
** Description=Heater Treater (1 MM Btu/hr) Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39731E1 VOLUME 630383.514 3551654.946 0
SO SRCPARAM 39731E1 .0002898 4.57 .47 .93
** NMED source ID=39731EQPT2 Facility's ID=HT-2
** Description=Heater Treater (1 MM Btu/hr) Construction date=03-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39731E2 VOLUME 630391.05 3551661.967 0
SO SRCPARAM 39731E2 .0002898 4.57 .47 .93
** NMED source ID=39731EQPT10 Facility's ID=HT-3
** Description=Heater Treater (1 MM Btu/hr) Construction date=30-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39731E10 VOLUME 630384.264 3551665.519 0
SO SRCPARAM 39731E10 .0002898 4.57 .47 .93
**********END OF 39731: Red Hills Pad 5 INFO**********************************
************************************************************
** 15.76km away. Facility ID=39080 Name=EOG - Fearless 23 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
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** lat,long,datum=32.1185, -103.651, WGS84
** Total Sulfur Dioxide emissions=.59tons/year
*****************Facility sources: ****************************
** NMED source ID=39080EQPT4 Facility's ID=Frac HTR-1
** Description=Heater Construction date=05-AUG-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39080E4 POINT 627261.259 3554367.334 0
SO SRCPARAM 39080E4 .00126 5.18 588.71 2.29 .3
** NMED source ID=39080EQPT5 Facility's ID=HTR-1
** Description=Heater Construction date=05-AUG-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39080E5 POINT 627268.795 3554374.355 0
SO SRCPARAM 39080E5 .0037799 5.18 588.71 6.83 .3
** NMED source ID=39080EQPT15 Facility's ID=Frac ENG-1
** Description=Compressor Engine Construction date=05-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39080E15 POINT 627262.009 3554377.907 0
SO SRCPARAM 39080E15 .0037799 6.1 790.93 23.04 .2
** NMED source ID=39080EQPT17 Facility's ID=Frac ENG-3
** Description=Compressor Engine Construction date=05-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39080E17 POINT 627254.412 3554375.815 0
SO SRCPARAM 39080E17 .0390594 6.1 790.93 23.04 .2
** NMED source ID=39080EQPT16 Facility's ID=Frac ENG-2
** Description=Compressor Engine Construction date=05-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39080E16 POINT 627250.171 3554368.915 0
SO SRCPARAM 39080E16 .0037799 6.1 790.93 23.04 .2
**********END OF 39080: EOG - Fearless 23 Fed Com CTB
INFO************************************
************************************************************
** 15.77km away. Facility ID=39487 Name=Leslie Fed West Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.124019, -103.391346, NAD83
** Total Sulfur Dioxide emissions=.19tons/year
*****************Facility sources: ****************************
** NMED source ID=39487CONT1 Facility's ID=Fl-1 LP
** Description=Flare Construction date=15-APR-20
** SCC=31000160
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39487C1 POINT 651749.819 3555315.441 0
SO SRCPARAM 39487C1 .0005796 14.12 1273 20 20.806
** NMED source ID=39487EQPT8 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=03-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7224hr/yr, 24hr/day
SO LOCATION 39487E8 POINT 651757.355 3555322.462 0
SO SRCPARAM 39487E8 .0005796 6.1 886.48 26.95 .3
** NMED source ID=39487EQPT9 Facility's ID=FL-1 HP
** Description=Flare Construction date=03-NOV-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39487E9 POINT 651750.569 3555326.014 0
SO SRCPARAM 39487E9 .0516592 13.72 1273 20 12.132
**********END OF 39487: Leslie Fed West Facility
INFO**********************************
************************************************************
** 15.84km away. Facility ID=40154 Name=Matador - Leslie Biggers CDP
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.134756, -103.381568, NAD83
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40154EQPT3 Facility's ID=FL-100 LP
** Description=0.08 MMscf/d Enclosed Combustor Construction date=30-SEP-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40154E3 POINT 652654.431 3556519.607 0
SO SRCPARAM 40154E3 .0002898 9.14 1273 20 20.806
** NMED source ID=40154EQPT4 Facility's ID=FL-100 HP
** Description=Enclosed Combustor Construction date=30-SEP-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40154E4 POINT 652661.967 3556526.628 0
SO SRCPARAM 40154E4 .00126 9.14 1273 20 20.806
**********END OF 40154: Matador - Leslie Biggers CDP
INFO**********************************
************************************************************
** 15.85km away. Facility ID=6551 Name=Froderick 33 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.26395, -103.68, WGS84
** Total Sulfur Dioxide emissions=.18tons/year
*****************Facility sources: ******************************
```

```
** NMED source ID=6551EQPT6 Facility's ID=Heater-1
** Description=Heater Treater Construction date=25-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6551E6 VOLUME 624327.318 3570457.834 0
SO SRCPARAM 6551E6 .0005796 3.96 .47 .93
** NMED source ID=6551EQPT7 Facility's ID=Heater-2
** Description=Heater Treater Construction date=25-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6551E7 VOLUME 624334.854 3570464.855 0
SO SRCPARAM 6551E7 .00126 5.18 .47 .93
** NMED source ID=6551EQPT13 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=25-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6551E13 POINT 624328.068 3570468.407 0
SO SRCPARAM 6551E13 .00252 4.88 1000.37 14.94 .28
** NMED source ID=6551EQPT15 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=25-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6551E15 POINT 624320.471 3570466.315 0
SO SRCPARAM 6551E15 .00252 4.57 803.71 22.07 .2
**********END OF 6551: Froderick 33 Fed Com CTB
INFO**********************************
************************************************************
** 15.92km away. Facility ID=38397 Name=White Falcon State 16D Tank Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8583 NOI
** lat,long,datum=32.135853, -103.379778, WGS84
** Total Sulfur Dioxide emissions=.63tons/year
*****************Facility sources: ****************************
** NMED source ID=38397EQPT3 Facility's ID=VCU-01
** Description=Vapor Combustion Unit Construction date=01-JAN-20
** SCC=30609903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38397E3 POINT 652821.458 3556643.764 0
SO SRCPARAM 38397E3 .0176397 7.01 755.37 .3 1.22
**********END OF 38397: White Falcon State 16D Tank Battery
INFO**********************************
************************************************************
** 15.97km away. Facility ID=39719 Name=Mulva-ManHands C CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
```

```
** lat,long,datum=32.182992, -103.357506, NAD83
** Total Sulfur Dioxide emissions=.11tons/year
**********Facility sources: ****************************
** NMED source ID=39719EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E1 POINT 654842.667 3561901.664 0
SO SRCPARAM 39719E1 .0005796 9.14 723.71 281.03 .2
** NMED source ID=39719EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E2 POINT 654850.203 3561908.685 0
SO SRCPARAM 39719E2 .0005796 9.14 723.71 281.03 .2
** NMED source ID=39719EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=14-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E3 POINT 654843.417 3561912.237 0
SO SRCPARAM 39719E3 .00126 9.14 855.37 34.63 .36
** NMED source ID=39719EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E4 POINT 654835.82 3561910.145 0
SO SRCPARAM 39719E4 .0005796 9.14 723.71 281.03 .2
** NMED source ID=39719EQPT5 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39719E5 POINT 654831.579 3561903.245 0
SO SRCPARAM 39719E5 .0005796 9.14 723.71 281.03 .2
**********END OF 39719: Mulva-ManHands C CTB
INFO**********************************
************************************************************
** 16.01km away. Facility ID=40739 Name=Stranger 34 Wellpad 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9757 NOI
** lat,long,datum=32.080768, -103.450607, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
**********Facility sources: ****************************
** NMED source ID=40739EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=11-OCT-22
** SCC=20200253
```

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40739E2 POINT 646227.843 3550438.594 0
SO SRCPARAM 40739E2 .0002898 4.39 778.71 13.8 .26
**********END OF 40739: Stranger 34 Wellpad 5
INFO**********************************
************************************************************
** 16.01km away. Facility ID=39476 Name=Pork Pie 15 O CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8761 NOI
** lat,long,datum=32.211639, -103.353875, WGS84
** Total Sulfur Dioxide emissions=.23tons/year
*****************Facility sources: ******************************
** NMED source ID=39476EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39476E4 VOLUME 655136.379 3565082.872 0
SO SRCPARAM 39476E4 .0062999 4.57 .47 .93
** NMED source ID=39476EQPT8 Facility's ID=FL-01
** Description=Low Pressure Flare Construction date=25-APR-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39476E8 POINT 655143.915 3565089.893 0
SO SRCPARAM 39476E8 .0002898 10.67 717.59 19.99 .3
**********END OF 39476: Pork Pie 15 O CTB INFO**********************************
************************************************************
** 16.02km away. Facility ID=40999 Name=Bing Clawsby Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.298484, -103.658601, NAD83
** Total Sulfur Dioxide emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=40999EQPT2 Facility's ID=GEN-1
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E2 POINT 626295.113 3574311.287 0
SO SRCPARAM 40999E2 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT3 Facility's ID=GEN-2
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E3 POINT 626302.649 3574318.308 0
SO SRCPARAM 40999E3 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT4 Facility's ID=GEN-3
```

```
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E4 POINT 626295.863 3574321.86 0
SO SRCPARAM 40999E4 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT5 Facility's ID=GEN-4
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E5 POINT 626288.266 3574319.768 0
SO SRCPARAM 40999E5 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT6 Facility's ID=GEN-5
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E6 POINT 626284.025 3574312.868 0
SO SRCPARAM 40999E6 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT7 Facility's ID=GEN-6
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E7 POINT 626285.677 3574304.714 0
SO SRCPARAM 40999E7 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT8 Facility's ID=GEN-7
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E8 POINT 626292.626 3574299.752 0
SO SRCPARAM 40999E8 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40999EQPT9 Facility's ID=GEN-8
** Description=Generator Construction date=17-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40999E9 POINT 626301.309 3574300.894 0
SO SRCPARAM 40999E9 .0002898 4.51 744.26 145.91 .09
**********END OF 40999: Bing Clawsby Fed Com CTB
INFO**********************************
************************************************************
** 16.04km away. Facility ID=39108 Name=MarkWest - Red Hills Compressor Station
** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.087695, -103.612855, WGS84
** Total Sulfur Dioxide emissions=.52tons/year
****************Facility sources: ****************************
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```
** NMED source ID=39108EQPT1 Facility's ID=Reboil-1
** Description=TEG Reboiler 1.5 MMBtu/hr Construction date=12-AUG-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39108E1 POINT 630904.013 3550998.033 0
SO SRCPARAM 39108E1 .00252 7 730 28 .3
** NMED source ID=39108EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine CAT G3608, 2500-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7538hr/yr, 24hr/day
SO LOCATION 39108E2 POINT 630911.549 3551005.054 0
SO SRCPARAM 39108E2 .00126 7.01 708.15 57.94 .41
** NMED source ID=39108EQPT4 Facility's ID=ENG-2
** Description=Compressor Engine CAT G3516J, 1380-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7085hr/yr, 24hr/day
SO LOCATION 39108E4 POINT 630904.763 3551008.606 0
SO SRCPARAM 39108E4 .00126 7.01 718.15 52.46 .3
** NMED source ID=39108EQPT5 Facility's ID=ENG-3
** Description=Compressor Engine CAT G3516J, 1380-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6477hr/yr, 24hr/day
SO LOCATION 39108E5 POINT 630897.166 3551006.514 0
SO SRCPARAM 39108E5 .00126 7.01 718.15 52.46 .3
** NMED source ID=39108EQPT6 Facility's ID=ENG-4
** Description=Compressor Engine CAT G3516J, 1380-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4657hr/yr, 24hr/day
SO LOCATION 39108E6 POINT 630892.925 3550999.614 0
SO SRCPARAM 39108E6 .00126 7.01 718.15 52.46 .3
** NMED source ID=39108EQPT7 Facility's ID=ENG-5
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6366hr/yr, 24hr/day
SO LOCATION 39108E7 POINT 630894.577 3550991.46 0
SO SRCPARAM 39108E7 .00126 7.01 805.93 62.15 .3
** NMED source ID=39108EQPT8 Facility's ID=ENG-7
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5704hr/yr, 24hr/day
SO LOCATION 39108E8 POINT 630901.526 3550986.498 0
SO SRCPARAM 39108E8 .00126 7.01 805.93 62.15 .3
** NMED source ID=39108EQPT9 Facility's ID=ENG-9
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** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3421hr/yr, 24hr/day
SO LOCATION 39108E9 POINT 630910.209 3550987.64 0
SO SRCPARAM 39108E9 .00126 7.01 805.93 62.15 .3
** NMED source ID=39108EQPT10 Facility's ID=ECD-1
** Description=Combustor 500 MMSCFD Construction date=18-OCT-21
** SCC=30600904
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=500hr/yr, 24hr/day
SO LOCATION 39108E10 POINT 630915.919 3550994.568 0
SO SRCPARAM 39108E10 .00252 9.75 1273 20 2.13
** NMED source ID=39108EQPT14 Facility's ID=ECD-2
** Description=Combustor 30.0 MMSCFD Construction date=18-OCT-21
** SCC=30600904
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39108E14 POINT 630915.354 3551003.749 0
SO SRCPARAM 39108E14 .0037799 3.66 1273 20 1.22
** NMED source ID=39108EQPT15 Facility's ID=ENG-10
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3472hr/yr, 24hr/day
SO LOCATION 39108E15 POINT 630908.519 3551010.227 0
SO SRCPARAM 39108E15 .00126 7.01 805.93 62.15 .3
** NMED source ID=39108EQPT16 Facility's ID=ENG-11
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5248hr/yr, 24hr/day
SO LOCATION 39108E16 POINT 630898.883 3551010.304 0
SO SRCPARAM 39108E16 .00126 7.01 805.93 62.15 .3
** NMED source ID=39108EQPT17 Facility's ID=ENG-8
** Description=Compressor Engine CAT G3516J, 1380-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4488hr/yr, 24hr/day
SO LOCATION 39108E17 POINT 630891.622 3551003.638 0
SO SRCPARAM 39108E17 .00126 7.01 718.15 52.46 .3
** NMED source ID=39108EQPT18 Facility's ID=ENG-6
** Description=Compressor Engine CAT G3516LE, 1340-hp Construction date=18-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4116hr/yr, 24hr/day
SO LOCATION 39108E18 POINT 630890.842 3550993.592 0
SO SRCPARAM 39108E18 .00126 7.01 805.93 62.15 .3
**********END OF 39108: MarkWest - Red Hills Compressor Station
INFO**********************************
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************************************************************
** 16.14km away. Facility ID=32333 Name=Salado Draw 6 Fed 1H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5074 NOI
** lat,long,datum=32.065772, -103.514708, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=32333EQPT8 Facility's ID=26
** Description=Combustor 1_EQ000070312 Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32333E8 POINT 640200.432 3548691.016 0
SO SRCPARAM 32333E8 .0037799 6.1 1273 20 2.632
** NMED source ID=32333EQPT14 Facility's ID=19 SSM
** Description=Flare 1_EQ000070313 Construction date=01-JAN-15
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32333E14 POINT 640207.968 3548698.037 0
SO SRCPARAM 32333E14 .0002898 6.1 1273 20 20.806
**********END OF 32333: Salado Draw 6 Fed 1H
INFO**********************************
************************************************************
** 16.17km away. Facility ID=26440 Name=Red Hills Compressor Station
** Company ID=13580 Name=ET Gathering & Processing LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.065473, -103.531778, NAD83
** Total Sulfur Dioxide emissions=.13tons/year
*****************Facility sources: ****************************
** NMED source ID=26440EQPT17 Facility's ID=1A
** Description=1775 hp Cat G3606 w/oxid. catalyst Construction date=23-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4403hr/yr, 24hr/day
SO LOCATION 26440E17 POINT 638589.447 3548635.814 0
SO SRCPARAM 26440E17 .00126 7.19 725.93 35.05 .46
** NMED source ID=26440EQPT18 Facility's ID=2A
** Description=1775 hp Cat G3606 w/oxid. catalyst Construction date=23-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8683hr/yr, 24hr/day
SO LOCATION 26440E18 POINT 638596.983 3548642.835 0
SO SRCPARAM 26440E18 .00126 7.19 725.93 35.08 .46
** NMED source ID=26440EQPT19 Facility's ID=4B
** Description=1775 hp Cat G3606 w/oxid. catalyst Construction date=23-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4401hr/yr, 24hr/day
SO LOCATION 26440E19 POINT 638590.197 3548646.387 0
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SO SRCPARAM 26440E19 .00126 7.19 725.93 35.05 .46
** NMED source ID=26440EQPT20 Facility's ID=5
** Description=Compressor Engine690 hp Construction date=23-JUL-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 26440E20 POINT 638582.6 3548644.295 0
SO SRCPARAM 26440E20 .0002898 6.1 772.59 28.8 .3
** NMED source ID=26440EQPT21 Facility's ID=3A
** Description=Caterpillar 3516 TALE 1340 hp Construction date=28-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 26440E21 POINT 638578.359 3548637.395 0
SO SRCPARAM 26440E21 .00126 6.25 729.82 49.93 .3
**********END OF 26440: Red Hills Compressor Station
INFO*************************************
************************************************************
** 16.19km away. Facility ID=38679 Name=Leslie Federal East Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.124459, -103.385449, NAD83
** Total Sulfur Dioxide emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=38679EQPT2 Facility's ID=ENG-1
** Description=1380 hp Caterpillar 3516J Compressor Engine Construction
date=27-JUL-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38679E2 POINT 652305.436 3555372.544 0
SO SRCPARAM 38679E2 .0005796 6.1 804.82 113.6 .2
** NMED source ID=38679EQPT21 Facility's ID=ENG-2
** Description=1380 hp Caterpillar 3516J Compressor Engine Construction
date=08-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38679E21 POINT 652312.972 3555379.565 0
SO SRCPARAM 38679E21 .0005796 6.1 804.82 113.6 .2
** NMED source ID=38679EQPT32 Facility's ID=GEN-1
** Description=581 hp PSI 21.9L 4SRB Generator Construction date=08-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38679E32 POINT 652306.186 3555383.117 0
SO SRCPARAM 38679E32 .0002898 6.1 1023.15 19.37 .3
**********END OF 38679: Leslie Federal East Facility
INFO*************************************
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** 16.28km away. Facility ID=9054 Name=Onyx 35 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.08306, -103.4392, WGS84
** Total Sulfur Dioxide emissions=.16tons/year
*****************Facility sources: ******************************
** NMED source ID=9054EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=17-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9054E1 POINT 647300.846 3550708.214 0
SO SRCPARAM 9054E1 .00252 4.57 1003.71 16.37 .28
** NMED source ID=9054EQPT2 Facility's ID=FL-1-HP
** Description=High-Pressure Flare Construction date=17-JAN-24
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9054E2 POINT 647308.382 3550715.235 0
SO SRCPARAM 9054E2 .0002898 12.19 1273 20 3.604
** NMED source ID=9054EQPT5 Facility's ID=Heater-1
** Description=Heater Construction date=17-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9054E5 POINT 647301.596 3550718.787 0
SO SRCPARAM 9054E5 .00126 3.05 588.71 6.8 .3
** NMED source ID=9054EQPT6 Facility's ID=Heater-2
** Description=Heater Construction date=17-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9054E6 POINT 647293.999 3550716.695 0
SO SRCPARAM 9054E6 .00126 3.05 588.71 6.8 .3
**********END OF 9054: Onyx 35 Fed Com CTB INFO************************************
************************************************************
** 16.3km away. Facility ID=38683 Name=Mesa Verde East CGL2
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.212194, -103.696944, WGS84
** Total Sulfur Dioxide emissions=.38tons/year
*****************Facility sources: ******************************
** NMED source ID=38683EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8219hr/yr, 24hr/day
SO LOCATION 38683E1 POINT 622800.907 3564700.705 0
SO SRCPARAM 38683E1 .00252 5.64 816.48 94.18 .24
** NMED source ID=38683EQPT3 Facility's ID=ENG-2
```

```
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7977hr/yr, 24hr/day
SO LOCATION 38683E3 POINT 622808.443 3564707.726 0
SO SRCPARAM 38683E3 .00252 5.64 816.48 94.18 .24
** NMED source ID=38683EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8259hr/yr, 24hr/day
SO LOCATION 38683E4 POINT 622801.657 3564711.278 0
SO SRCPARAM 38683E4 .00252 5.64 816.48 94.18 .24
** NMED source ID=38683EQPT5 Facility's ID=REB-1
** Description=Reboiler Construction date=20-MAR-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38683E5 POINT 622794.06 3564709.186 0
SO SRCPARAM 38683E5 .0002898 4.57 588.71 .12 .24
** NMED source ID=38683EQPT7 Facility's ID=VCU-1
** Description=Vapor Combustor Unit Construction date=15-OCT-18
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38683E7 POINT 622789.819 3564702.286 0
SO SRCPARAM 38683E7 .0002898 6.1 1273 20 20.806
** NMED source ID=38683EQPT8 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8111hr/yr, 24hr/day
SO LOCATION 38683E8 POINT 622791.471 3564694.132 0
SO SRCPARAM 38683E8 .00252 5.64 816.48 94.18 .24
** NMED source ID=38683EQPT9 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2002hr/yr, 24hr/day
SO LOCATION 38683E9 POINT 622798.42 3564689.17 0
SO SRCPARAM 38683E9 .00252 5.64 816.48 94.18 .24
** NMED source ID=38683EQPT10 Facility's ID=REB-1
** Description=Reboiler Construction date=01-JAN-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38683E10 POINT 622807.103 3564690.312 0
SO SRCPARAM 38683E10 .0002898 4.57 588.71 .12 .24
**********END OF 38683: Mesa Verde East CGL2
INFO**********************************
```

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************************************************************
** 16.37km away. Facility ID=39275 Name=Kaiser - Red Hills Central Tank Battery
** Company ID=433 Name=Kaiser-Francis Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.086303, -103.61686, NAD83
** Total Sulfur Dioxide emissions=.28tons/year
*****************Facility sources: ****************************
** NMED source ID=39275EQPT1 Facility's ID=HS-1
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E1 POINT 630528.011 3550838.863 0
SO SRCPARAM 39275E1 .0002898 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT2 Facility's ID=HS-10
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E2 POINT 630535.547 3550845.884 0
SO SRCPARAM 39275E2 .0002898 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT3 Facility's ID=HS-2
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E3 POINT 630528.761 3550849.436 0
SO SRCPARAM 39275E3 .0002898 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT4 Facility's ID=HS-3
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E4 POINT 630521.164 3550847.344 0
SO SRCPARAM 39275E4 .0002898 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT5 Facility's ID=HS-4
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E5 POINT 630516.923 3550840.444 0
SO SRCPARAM 39275E5 .0002898 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT6 Facility's ID=HS-5
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E6 POINT 630518.575 3550832.29 0
SO SRCPARAM 39275E6 .0002898 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT7 Facility's ID=HS-6
```

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** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E7 POINT 630525.524 3550827.328 0
SO SRCPARAM 39275E7 .0002898 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT8 Facility's ID=HS-7
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E8 POINT 630534.207 3550828.47 0
SO SRCPARAM 39275E8 .0002898 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT9 Facility's ID=HS-8
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E9 POINT 630539.917 3550835.398 0
SO SRCPARAM 39275E9 .0002898 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT10 Facility's ID=HS-9
** Description=Heated Separator Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E10 POINT 630539.352 3550844.579 0
SO SRCPARAM 39275E10 .0002898 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT11 Facility's ID=HT-1
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E11 VOLUME 630532.517 3550851.057 0
SO SRCPARAM 39275E11 .0002898 4.57 .47 .93
** NMED source ID=39275EQPT12 Facility's ID=HT-10
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E12 VOLUME 630522.881 3550851.134 0
SO SRCPARAM 39275E12 .0002898 4.57 .47 .93
** NMED source ID=39275EQPT13 Facility's ID=HT-11
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E13 VOLUME 630515.62 3550844.468 0
SO SRCPARAM 39275E13 .0002898 4.57 .47 .93
** NMED source ID=39275EQPT14 Facility's ID=HT-12
** Description=Heater Treater Construction date=19-DEC-19
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E14 VOLUME 630514.84 3550834.422 0
SO SRCPARAM 39275E14 .0002898 4.57 .47 .93
** NMED source ID=39275EQPT15 Facility's ID=HT-13
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E15 VOLUME 630521.258 3550826.371 0
SO SRCPARAM 39275E15 .0002898 4.57 .47 .93
** NMED source ID=39275EQPT16 Facility's ID=HT-2
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E16 VOLUME 630531.66 3550824.83 0
SO SRCPARAM 39275E16 .0002898 4.57 .47 .93
** NMED source ID=39275EQPT17 Facility's ID=HT-3
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E17 VOLUME 630540.5 3550830.922 0
SO SRCPARAM 39275E17 .0002898 4.57 .47 .93
** NMED source ID=39275EQPT18 Facility's ID=HT-4
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E18 VOLUME 630542.857 3550841.62 0
SO SRCPARAM 39275E18 .0002898 4.57 .47 .93
** NMED source ID=39275EQPT19 Facility's ID=HT-5
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E19 VOLUME 630537.173 3550851.241 0
SO SRCPARAM 39275E19 .0002898 4.57 .47 .93
** NMED source ID=39275EQPT20 Facility's ID=HT-6
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E20 VOLUME 630526.243 3550854.463 0
SO SRCPARAM 39275E20 .0002898 4.57 .47 .93
** NMED source ID=39275EQPT21 Facility's ID=HT-7
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E21 VOLUME 630515.856 3550849.268 0
SO SRCPARAM 39275E21 .0002898 4.57 .47 .93
** NMED source ID=39275EQPT22 Facility's ID=HT-8
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E22 VOLUME 630511.725 3550838.178 0
SO SRCPARAM 39275E22 .0002898 4.57 .47 .93
** NMED source ID=39275EQPT23 Facility's ID=HT-9
** Description=Heater Treater Construction date=19-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E23 VOLUME 630516.351 3550827.047 0
SO SRCPARAM 39275E23 .0002898 4.57 .47 .93
** NMED source ID=39275EQPT29 Facility's ID=HS-11
** Description=Heated Separator Construction date=10-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E29 POINT 630527.525 3550821.97 0
SO SRCPARAM 39275E29 .0002898 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT30 Facility's ID=HS-12
** Description=Heated Separator Construction date=10-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E30 POINT 630539.368 3550825.946 0
SO SRCPARAM 39275E30 .0002898 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT31 Facility's ID=HS-13
** Description=Heated Separator Construction date=10-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39275E31 POINT 630545.424 3550837.124 0
SO SRCPARAM 39275E31 .0002898 4.57 369.82 7.99 .09
** NMED source ID=39275EQPT32 Facility's ID=HT-14
** Description=Heater Treater Construction date=10-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E32 VOLUME 630542.177 3550849.642 0
SO SRCPARAM 39275E32 .0002898 4.57 .47 .93
** NMED source ID=39275EQPT33 Facility's ID=HT-15
** Description=Heater Treater Construction date=10-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39275E33 VOLUME 630531.079 3550856.701 0
SO SRCPARAM 39275E33 .0002898 4.57 .47 .93
**********END OF 39275: Kaiser - Red Hills Central Tank Battery
INFO**********************************
************************************************************
** 16.44km away. Facility ID=38392 Name=White Falcon Fed 16 C Central Tank Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7795 NOI
** lat,long,datum=32.135419, -103.373681, WGS84
** Total Sulfur Dioxide emissions=4.55tons/year
*****************Facility sources: ****************************
** NMED source ID=38392EQPT3 Facility's ID=VCU-01
** Description=Vapor Combustion Unit Construction date=01-JAN-20
** SCC=30600903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38392E3 POINT 653397.329 3556604.319 0
SO SRCPARAM 38392E3 .0377994 7.01 755.37 .3 1.22
** NMED source ID=38392EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38392E4 VOLUME 653404.865 3556611.34 0
SO SRCPARAM 38392E4 .00252 6.71 .47 .93
** NMED source ID=38392EQPT5 Facility's ID=FL-01
** Description=LP Flare Construction date=01-JAN-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 14hr/day
SO LOCATION 38392E5 POINT 653398.079 3556614.892 0
SO SRCPARAM 38392E5 .0856786 10.67 1273 20 .61
** NMED source ID=38392EQPT7 Facility's ID=FL-02
** Description=HP Flare (Emergency) Construction date=02-OCT-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38392E7 POINT 653390.482 3556612.8 0
SO SRCPARAM 38392E7 .00252 21.34 1273 20 .61
** NMED source ID=38392EQPT8 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38392E8 VOLUME 653386.241 3556605.9 0
SO SRCPARAM 38392E8 .00252 6.71 .47 .93
** NMED source ID=38392EQPT9 Facility's ID=HT-03
** Description=Heater Treater Burner Construction date=02-OCT-23
** SCC=31000404
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38392E9 VOLUME 653387.893 3556597.746 0
SO SRCPARAM 38392E9 .00252 6.71 .47 .93
** NMED source ID=38392EQPT10 Facility's ID=HT-04
** Description=Heater Treater Burner Construction date=02-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38392E10 VOLUME 653394.842 3556592.784 0
SO SRCPARAM 38392E10 .00252 6.71 .47 .93
**********END OF 38392: White Falcon Fed 16 C Central Tank Battery
INFO**********************************
************************************************************
** 16.48km away. Facility ID=8462 Name=Paint 4 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.153335, -103.685205, NAD83
** Total Sulfur Dioxide emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=8462EQPT3 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engine Construction date=15-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E3 POINT 623987.048 3558189.167 0
SO SRCPARAM 8462E3 .00126 5.85 716.48 68.95 .27
** NMED source ID=8462EQPT5 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=15-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E5 POINT 623994.584 3558196.188 0
SO SRCPARAM 8462E5 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8462EQPT6 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=15-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E6 POINT 623987.798 3558199.74 0
SO SRCPARAM 8462E6 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8462EQPT7 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=15-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E7 POINT 623980.201 3558197.648 0
SO SRCPARAM 8462E7 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8462EQPT8 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=15-DEC-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E8 POINT 623975.96 3558190.748 0
SO SRCPARAM 8462E8 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8462EQPT21 Facility's ID=FL-1 LP SSM
** Description=FL-1 LP Low Pressure Side Construction date=15-DEC-23
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8462E21 POINT 623977.612 3558182.594 0
SO SRCPARAM 8462E21 .0008568 12.19 1273 20 20.806
**********END OF 8462: Paint 4 CTB 1 INFO**********************************
************************************************************
** 16.48km away. Facility ID=1775 Name=Aggregate Facility No2 GCP2-0265
** Company ID=12792 Name=United Materials, LLP
** SIC=1423 NAIC=212313   Permit=0265 GCP2
** lat,long,datum=32.066891, -103.566263, Unknown
** Total Sulfur Dioxide emissions=100tons/year
*****************Facility sources: ******************************
** NMED source ID=1775ACT 1 Facility's ID=GCP2
** Description=Crushing Operation Construction date=16-DEC-13
** SCC=30502501
** Potential operating rate=4380hr/yr, 0hr/day
** Actual operating rate=950hr/yr, 10hr/day
SO LOCATION 1775@1 VOLUME 661442.574 3630092.569 1173.5
SO SRCPARAM 1775@1 2.8766729 10 430 9.3
SO EMISFACT 1775@1 HROFDY 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0
** NMED source ID=1775ACT 4 Facility's ID=S
** Description=Aggregate crushing facility Construction date=15-OCT-21
** SCC=30502501
** Potential operating rate=4380hr/yr, 0hr/day
** Actual operating rate=950hr/yr, 10hr/day
SO LOCATION 1775@4 VOLUME 635339.459 3548756.256 0
SO SRCPARAM 1775@4 2.8766729 10 430 9.3
SO EMISFACT 1775@4 HROFDY 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0
**********END OF 1775: Aggregate Facility No2 GCP2-0265
INFO**********************************
************************************************************
** 16.52km away. Facility ID=38457 Name=Hunter 21 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2951, -103.3797, WGS84
** Total Sulfur Dioxide emissions=5.17tons/year
*****************Facility sources: ******************************
** NMED source ID=38457EQPT2 Facility's ID=FL-1
** Description=Process Flare Construction date=26-JUL-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
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SO LOCATION 38457E2 POINT 652562.578 3574298.875 0
SO SRCPARAM 38457E2 .6224301 6.1 1273 20 .61
** NMED source ID=38457EQPT16 Facility's ID=FL-2
** Description=Emerg Flare Construction date=26-JUL-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38457E16 POINT 652563.328 3574309.448 0
SO SRCPARAM 38457E16 .0302395 18.29 1273 20 20.806
** NMED source ID=38457EQPT17 Facility's ID=HTR-1
** Description=Heater Construction date=26-JUL-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38457E17 VOLUME 652555.731 3574307.356 0
SO SRCPARAM 38457E17 .0806387 4.88 .47 .93
**********END OF 38457: Hunter 21 State CTB
INFO**********************************
************************************************************
** 16.56km away. Facility ID=40001 Name=Green Beret Federal 20 A CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9226 NOI
** lat,long,datum=32.121008, -103.383572, WGS84
** Total Sulfur Dioxide emissions=1.17tons/year
*****************Facility sources: ****************************
** NMED source ID=40001EQPT1 Facility's ID=FL-01
** Description=Low Pressure Flare Construction date=02-AUG-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40001E1 POINT 652488.26 3554992.609 0
SO SRCPARAM 40001E1 .0075599 12.19 1273 20 20.806
** NMED source ID=40001EQPT2 Facility's ID=FL-02
** Description=Emergency Flare Construction date=02-AUG-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40001E2 POINT 652495.796 3554999.63 0
SO SRCPARAM 40001E2 .00252 12.19 1273 20 20.806
** NMED source ID=40001EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=02-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40001E3 VOLUME 652489.01 3555003.182 0
SO SRCPARAM 40001E3 .0239396 4.57 .47 .93
**********END OF 40001: Green Beret Federal 20 A CTB
INFO**********************************
************************************************************
** 16.58km away. Facility ID=40935 Name=Haflinger 22 CTB 2
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** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.12009, -103.663724, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=40935EQPT2 Facility's ID=HT-1
** Description=HT-1 Heater Treater Construction date=14-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40935E2 VOLUME 626058.627 3554528.639 0
SO SRCPARAM 40935E2 .00126 9.14 .47 .93
** NMED source ID=40935EQPT3 Facility's ID=HT-2
** Description=HT-2 Heater Treater Construction date=14-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40935E3 VOLUME 626066.163 3554535.66 0
SO SRCPARAM 40935E3 .00126 9.14 .47 .93
**********END OF 40935: Haflinger 22 CTB 2 INFO************************************
************************************************************
** 16.61km away. Facility ID=39523 Name=Donkey Kong 1 Fed Com CTB 1
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.330985, -103.419713, NAD83
** Total Sulfur Dioxide emissions=72.11tons/year
*****************Facility sources: ****************************
** NMED source ID=39523EQPT9 Facility's ID=FL-1 LP
** Description=Tri-Tip Flare LP side Construction date=24-NOV-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3240hr/yr, 24hr/day
SO LOCATION 39523E9 POINT 648735.985 3578221.065 0
SO SRCPARAM 39523E9 .0214197 12.19 1273 20 20.806
** NMED source ID=39523EQPT13 Facility's ID=FL-1 HP
** Description=Tri-Tip Flare HP side-Stranded Gas Construction date=24-NOV-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39523E13 POINT 648743.521 3578228.086 0
SO SRCPARAM 39523E13 2.0525074 12.19 1273 20 4.652
** NMED source ID=39523EQPT27 Facility's ID=ENG-1
** Description=Gas Lift Compressor Engine Construction date=18-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39523E27 POINT 648736.735 3578231.638 0
SO SRCPARAM 39523E27 .0002898 5.18 772.59 41.48 .25
**********END OF 39523: Donkey Kong 1 Fed Com CTB 1
INFO**********************************
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************************************************************
** 16.68km away. Facility ID=40557 Name=Battle Axe Compressor Station
** Company ID=13580 Name=ET Gathering & Processing LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.061667, -103.503879, NAD83
** Total Sulfur Dioxide emissions=.26tons/year
*****************Facility sources: ****************************
** NMED source ID=40557EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=02-AUG-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E1 POINT 641229.02 3548250.058 0
SO SRCPARAM 40557E1 .00126 8.33 729.26 30.72 .56
** NMED source ID=40557EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=02-AUG-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E2 POINT 641236.556 3548257.079 0
SO SRCPARAM 40557E2 .00126 8.33 729.26 30.72 .56
** NMED source ID=40557EQPT4 Facility's ID=GEN-1
** Description=Generator Construction date=02-AUG-22
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E4 POINT 641229.77 3548260.631 0
SO SRCPARAM 40557E4 .0002898 2.13 977.59 80.8 .09
** NMED source ID=40557EQPT8 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=23-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E8 POINT 641222.173 3548258.539 0
SO SRCPARAM 40557E8 .00126 8.33 718.15 30.91 .56
** NMED source ID=40557EQPT9 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=23-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E9 POINT 641217.932 3548251.639 0
SO SRCPARAM 40557E9 .00126 8.33 718.15 30.91 .56
** NMED source ID=40557EQPT10 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=23-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40557E10 POINT 641219.584 3548243.485 0
SO SRCPARAM 40557E10 .00126 8.33 718.15 30.91 .56
**********END OF 40557: Battle Axe Compressor Station
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INFO**********************************
************************************************************
** 16.79km away. Facility ID=38548 Name=Pegasus 23-35-16 Battery
** Company ID=14164 Name=Marlin Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.298433, -103.37894, WGS84
** Total Sulfur Dioxide emissions=7.66tons/year
*****************Facility sources: ******************************
** NMED source ID=38548EQPT1 Facility's ID=HT-1
** Description=Heater Treater, 3.0 MMBtu/hr Construction date=04-NOV-22
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38548E1 VOLUME 652628.558 3574669.476 0
SO SRCPARAM 38548E1 .0516592 6.1 .47 .93
** NMED source ID=38548EQPT9 Facility's ID=FL-1
** Description=Flare, 34.9 MMSCF/Y Construction date=04-NOV-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38548E9 POINT 652636.094 3574676.497 0
SO SRCPARAM 38548E9 .0440993 9.14 1273 20 2.632
** NMED source ID=38548EQPT10 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=03-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38548E10 POINT 652629.308 3574680.049 0
SO SRCPARAM 38548E10 .0277196 2.44 919.82 61.87 .09
** NMED source ID=38548EQPT11 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=03-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38548E11 POINT 652621.711 3574677.957 0
SO SRCPARAM 38548E11 .0277196 2.44 919.82 61.87 .09
** NMED source ID=38548EQPT12 Facility's ID=FL-1S
** Description=Flare, 54.75 MMSCF/Y, Stranded Gas Construction date=03-AUG-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38548E12 POINT 652617.47 3574671.057 0
SO SRCPARAM 38548E12 .0680389 9.14 1273 20 2.632
**********END OF 38548: Pegasus 23-35-16 Battery
INFO**********************************
************************************************************
** 16.81km away. Facility ID=38688 Name=Devon - Gaucho Unit 30CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.360367, -103.501806, NAD83
```

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** Total Sulfur Dioxide emissions=.31tons/year
*****************Facility sources: ****************************
** NMED source ID=38688EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 - 1.0 mm btu/h Construction date=18-NOV-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38688E2 POINT 640963.062 3581367.446 0
SO SRCPARAM 38688E2 .0002898 9.14 708.71 2.82 .34
** NMED source ID=38688EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 - 1.0 mm btu/h Construction date=18-NOV-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38688E3 POINT 640970.598 3581374.467 0
SO SRCPARAM 38688E3 .0002898 9.14 708.71 2.82 .34
** NMED source ID=38688EQPT6 Facility's ID=FL-1
** Description=Flare Construction date=18-NOV-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38688E6 POINT 640963.812 3581378.019 0
SO SRCPARAM 38688E6 .0125998 12.19 1273 20 11.396
**********END OF 38688: Devon - Gaucho Unit 30CTB 1
INFO**********************************
************************************************************
** 16.86km away. Facility ID=40825 Name=Floofy Cat 21 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.285547, -103.679507, NAD83
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40825EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 EQ001456906 Construction date=08-DEC-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40825E2 VOLUME 624344.286 3572852.649 0
SO SRCPARAM 40825E2 .0002898 9.14 .47 .93
** NMED source ID=40825EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 EQ001456946 Construction date=08-DEC-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40825E3 VOLUME 624351.822 3572859.67 0
SO SRCPARAM 40825E3 .0002898 9.14 .47 .93
** NMED source ID=40825EQPT16 Facility's ID=ENG 1
** Description=ENG 1 Compressor Engine Construction date=11-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40825E16 POINT 624345.036 3572863.222 0
SO SRCPARAM 40825E16 .00126 5.85 772.59 37.4 .27
** NMED source ID=40825EQPT17 Facility's ID=ENG 2
** Description=ENG 2 Compressor Engine Construction date=11-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40825E17 POINT 624337.439 3572861.13 0
SO SRCPARAM 40825E17 .0002898 4.39 1000.37 17.38 .26
**********END OF 40825: Floofy Cat 21 CTB 2
INFO************************************
************************************************************
** 16.86km away. Facility ID=33175 Name=Cotton Draw 9L Federal 2H, 3H, 4H and 5H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=5391 NOI
** lat,long,datum=32.13844, -103.6812, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=33175EQPT3 Facility's ID=H1
** Description=2.0 MMBTU Heater Treater Construction date=03-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8375hr/yr, 23hr/day
SO LOCATION 33175E3 POINT 624384.981 3556542.56 0
SO SRCPARAM 33175E3 .0002898 4.57 477.59 4.05 .15
** NMED source ID=33175EQPT4 Facility's ID=H2
** Description=2.0 MMBTU Heater Treater Construction date=03-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8375hr/yr, 23hr/day
SO LOCATION 33175E4 POINT 624392.517 3556549.581 0
SO SRCPARAM 33175E4 .0002898 4.57 477.59 4.05 .15
** NMED source ID=33175EQPT17 Facility's ID=ENG7
** Description=Engine Construction date=01-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6827hr/yr, 19hr/day
SO LOCATION 33175E17 POINT 624385.731 3556553.133 0
SO SRCPARAM 33175E17 .0005796 5.49 722.04 37.43 .25
**********END OF 33175: Cotton Draw 9L Federal 2H, 3H, 4H and 5H
INFO************************************
************************************************************
** 16.87km away. Facility ID=40010 Name=Fez Federal 9 P CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9242 NOI
** lat,long,datum=32.139842, -103.365547, WGS84
** Total Sulfur Dioxide emissions=.85tons/year
*****************Facility sources: ******************************
** NMED source ID=40010EQPT1 Facility's ID=FL-01
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** Description=Low Pressure Flare Construction date=01-NOV-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40010E1 POINT 654157.19 3557106.29 0
SO SRCPARAM 40010E1 .0037799 12.19 1273 20 20.806
** NMED source ID=40010EQPT2 Facility's ID=FL-02
** Description=High Pressure Flare Construction date=01-NOV-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40010E2 POINT 654164.726 3557113.311 0
SO SRCPARAM 40010E2 .0005796 12.19 1273 20 20.806
** NMED source ID=40010EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40010E3 VOLUME 654157.94 3557116.863 0
SO SRCPARAM 40010E3 .0100798 4.57 .47 .93
** NMED source ID=40010EQPT4 Facility's ID=HT-02
** Description=Heater Treater Burner Construction date=01-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40010E4 VOLUME 654150.343 3557114.771 0
SO SRCPARAM 40010E4 .0100798 4.57 .47 .93
**********END OF 40010: Fez Federal 9 P CTB
INFO**********************************
************************************************************
** 16.88km away. Facility ID=38633 Name=Duck Hunt 1 State Com CTB
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.332814, -103.417714, WGS84
** Total Sulfur Dioxide emissions=60.49tons/year
*****************Facility sources: ****************************
** NMED source ID=38633EQPT5 Facility's ID=FL-1
** Description=Dual Tip Flare (4.5 MMSCF/d) Construction date=22-MAR-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38633E5 POINT 648921.155 3578426.617 0
SO SRCPARAM 38633E5 .0151198 15.24 1273 20 20.806
** NMED source ID=38633EQPT7 Facility's ID=FL-2
** Description=Dual Tip Flare (4.5 MMSCF/d) Construction date=22-MAR-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38633E7 POINT 648928.691 3578433.638 0
SO SRCPARAM 38633E7 .8618263 15.24 1273 20 4.652
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** NMED source ID=38633EQPT11 Facility's ID=ENG-1
** Description=Gas Lift Compressor Engine (1380 hp) Construction date=22-MAR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8592hr/yr, 24hr/day
SO LOCATION 38633E11 POINT 648921.905 3578437.19 0
SO SRCPARAM 38633E11 .0005796 5.49 722.59 51.85 .3
**********END OF 38633: Duck Hunt 1 State Com CTB
INFO**********************************
************************************************************
** 16.91km away. Facility ID=39481 Name=Rodney Robinson North Facility
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.340411, -103.617097, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=39481EQPT34 Facility's ID=ENG-4
** Description=CAT 3516 1380HP Construction date=05-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39481E34 POINT 630143.121 3579009.051 0
SO SRCPARAM 39481E34 .0005796 6.1 713.71 50.99 .3
**********END OF 39481: Rodney Robinson North Facility
INFO**********************************
************************************************************
** 16.92km away. Facility ID=39219 Name=Mewbourne - Jennings 27 W0AP Fed Com 3H
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.108355, -103.656816, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=39219EQPT24 Facility's ID=ENG-5
** Description=Compressor Engine (Caterpillar 3306TA) Construction date=08-DEC-21
** SCC=31000312
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39219E24 POINT 626726.567 3553235.826 0
SO SRCPARAM 39219E24 .0005796 7.32 707.04 29.11 .4
**********END OF 39219: Mewbourne - Jennings 27 W0AP Fed Com 3H
INFO**********************************
************************************************************
** 16.98km away. Facility ID=38691 Name=Mortal Kombat 36 State Com No502H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.341367, -103.431026, WGS84
** Total Sulfur Dioxide emissions=.76tons/year
*****************Facility sources: ****************************
** NMED source ID=38691EQPT7 Facility's ID=FL-1
** Description=36.1 MMscf/d Dual tip Flare Construction date=09-SEP-20
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** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4872hr/yr, 24hr/day
SO LOCATION 38691E7 POINT 647654.231 3579356.423 0
SO SRCPARAM 38691E7 .0214197 15.24 1273 20 3.604
**********END OF 38691: Mortal Kombat 36 State Com No502H
INFO**********************************
************************************************************
** 16.98km away. Facility ID=34697 Name=Cotton Draw 32 State Fed Com 3H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5997 NOI
** lat,long,datum=32.172997, -103.698639, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=34697EQPT37 Facility's ID=FL-1 SSM
** Description=Flare 1_EQ000173699 Construction date=01-OCT-14
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34697E37 POINT 622693.748 3560353.457 0
SO SRCPARAM 34697E37 .0002898 6.1 1273 20 20.806
**********END OF 34697: Cotton Draw 32 State Fed Com 3H
INFO**********************************
************************************************************
** 17km away. Facility ID=37973 Name=Coriander AOC 1-12 State Com 1H-5H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.338631, -103.622239, NAD83
** Total Sulfur Dioxide emissions=7.94tons/year
*****************Facility sources: ****************************
** NMED source ID=37973EQPT1 Facility's ID=ENG1
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=20200252
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7593hr/yr, 21hr/day
SO LOCATION 37973E1 POINT 629661.713 3578805.478 0
SO SRCPARAM 37973E1 .0002898 4.57 805.93 109.48 .15
** NMED source ID=37973EQPT2 Facility's ID=Flare1
** Description=Process Flare Construction date=01-JAN-20
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7593hr/yr, 21hr/day
SO LOCATION 37973E2 POINT 629669.249 3578812.499 0
SO SRCPARAM 37973E2 .00126 4.57 1273 20 20.806
** NMED source ID=37973EQPT15 Facility's ID=HTR-1
** Description=Heater Treater Construction date=10-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973E15 VOLUME 629662.463 3578816.051 0
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SO SRCPARAM 37973E15 .0005796 4.57 .47 .93
** NMED source ID=37973EQPT16 Facility's ID=HTR-2
** Description=Heater Treater Construction date=10-AUG-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973E16 VOLUME 629654.866 3578813.959 0
SO SRCPARAM 37973E16 .0005796 4.57 .47 .93
** NMED source ID=37973EQPT20 Facility's ID=Flare1 SSM
** Description=Process Flare Construction date=08-NOV-18
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973E20 POINT 629650.625 3578807.059 0
SO SRCPARAM 37973E20 .0080513 4.57 1273 20 3.604
** NMED source ID=37973EQPT21 Facility's ID=GEN1
** Description=Generator Construction date=29-NOV-23
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973E21 POINT 629652.277 3578798.905 0
SO SRCPARAM 37973E21 .1121382 3.11 793.15 42.31 .15
** NMED source ID=37973EQPT22 Facility's ID=GEN2
** Description=Generator Construction date=29-NOV-23
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37973E22 POINT 629659.226 3578793.943 0
SO SRCPARAM 37973E22 .1058383 3.11 793.15 42.31 .15
**********END OF 37973: Coriander AOC 1-12 State Com 1H-5H
INFO**********************************
************************************************************
** 17.01km away. Facility ID=40859 Name=Intrepid - 440TPH Screening Plant -
GCP2-9826
** Company ID=545 Name=Intrepid Potash New Mexico LLC
** SIC=1446 NAIC=212322   Permit=9826 GCP2
** lat,long,datum=32.121044, -103.377586, WGS84
** Total Sulfur Dioxide emissions=50tons/year
*****************Facility sources: ******************************
** NMED source ID=40859ACT 1 Facility's ID=GCP-2
** Description=Screening Facility Construction date=05-JAN-23
** SCC=30502501
** Potential operating rate=4380hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40859@1 VOLUME 653052.965 3555005.09 0
SO SRCPARAM 40859@1 2.8766729 10 430 9.3
SO EMISFACT 40859@1 HROFDY 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0
**********END OF 40859: Intrepid - 440TPH Screening Plant - GCP2-9826
INFO**********************************
************************************************************
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** 17.05km away. Facility ID=5991 Name=Catnip Everdeen Federal Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.312754, -103.658793, NAD83
** Total Sulfur Dioxide emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=5991EQPT2 Facility's ID=GEN-1
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E2 POINT 626257.24 3575893.046 0
SO SRCPARAM 5991E2 .0002898 4.51 805.37 227.72 .09
** NMED source ID=5991EQPT3 Facility's ID=GEN-2
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E3 POINT 626264.776 3575900.067 0
SO SRCPARAM 5991E3 .0002898 4.51 805.37 227.72 .09
** NMED source ID=5991EQPT4 Facility's ID=GEN-3
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E4 POINT 626257.99 3575903.619 0
SO SRCPARAM 5991E4 .0002898 4.51 805.37 227.72 .09
** NMED source ID=5991EQPT5 Facility's ID=GEN-4
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E5 POINT 626250.393 3575901.527 0
SO SRCPARAM 5991E5 .0002898 4.51 805.37 227.72 .09
** NMED source ID=5991EQPT6 Facility's ID=GEN-5
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E6 POINT 626246.152 3575894.627 0
SO SRCPARAM 5991E6 .0002898 4.51 744.26 145.91 .09
** NMED source ID=5991EQPT7 Facility's ID=GEN-6
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E7 POINT 626247.804 3575886.473 0
SO SRCPARAM 5991E7 .0002898 4.51 744.26 145.91 .09
** NMED source ID=5991EQPT8 Facility's ID=GEN-7
** Description=Generator Construction date=05-SEP-23
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E8 POINT 626254.753 3575881.511 0
SO SRCPARAM 5991E8 .0002898 4.51 744.26 145.91 .09
** NMED source ID=5991EQPT9 Facility's ID=GEN-8
** Description=Generator Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5991E9 POINT 626263.436 3575882.653 0
SO SRCPARAM 5991E9 .0002898 4.51 744.26 145.91 .09
**********END OF 5991: Catnip Everdeen Federal Com CTB
INFO**********************************
************************************************************
** 17.09km away. Facility ID=37593 Name=EOG - Foghorn/Leghorn 32 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.354867, -103.585775, NAD83
** Total Sulfur Dioxide emissions=37.71tons/year
*****************Facility sources: ****************************
** NMED source ID=37593CONT1 Facility's ID=Flare-2
** Description=Emergency Flare Construction date=22-NOV-16
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37593C1 POINT 633069.877 3580650.189 0
SO SRCPARAM 37593C1 .254516 18.29 1273 20 20.806
** NMED source ID=37593EQPT4 Facility's ID=Flare-1
** Description=Flare 4.33 MSCFD Construction date=22-NOV-16
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37593E4 POINT 633077.413 3580657.21 0
SO SRCPARAM 37593E4 .0944985 12.19 1273 20 20.806
** NMED source ID=37593EQPT16 Facility's ID=Heater-1
** Description=0.75 MMBtu/hr Separator Heater Construction date=22-NOV-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8500hr/yr, 24hr/day
SO LOCATION 37593E16 VOLUME 633070.627 3580660.762 0
SO SRCPARAM 37593E16 .0075599 5.18 .47 .93
** NMED source ID=37593EQPT18 Facility's ID=ENG-1
** Description=Ajax DCP-540 LE Compressor Engine Construction date=24-OCT-18
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37593E18 POINT 633063.03 3580658.67 0
SO SRCPARAM 37593E18 .0239396 7.62 567.59 12.41 .44
** NMED source ID=37593EQPT19 Facility's ID=ENG-2
```

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** Description=Ajax DCP-600 Compressor Engine Construction date=24-OCT-18
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37593E19 POINT 633058.789 3580651.77 0
SO SRCPARAM 37593E19 .0277196 7.62 587.04 12.62 .44
** NMED source ID=37593EQPT20 Facility's ID=ENG-3
** Description=Ajax DCP-2801LE Compressor Engine Construction date=24-OCT-18
** SCC=31000206
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37593E20 POINT 633060.441 3580643.616 0
SO SRCPARAM 37593E20 .0088199 6.4 574.82 8.24 .34
** NMED source ID=37593RPNT2 Facility's ID=Malfunction
** Description=Malfunction Construction date=22-NOV-16
** SCC=31000299
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37593R2 VOLUME 633067.39 3580638.654 0
SO SRCPARAM 37593R2 .0431543 1 .47 .93
**********END OF 37593: EOG - Foghorn/Leghorn 32 State CTB
INFO************************************
************************************************************
** 17.11km away. Facility ID=38359 Name=Dominator Compressor Station
** Company ID=13580 Name=ET Gathering & Processing LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.057097, -103.533411, WGS84
** Total Sulfur Dioxide emissions=7.11tons/year
*****************Facility sources: ******************************
** NMED source ID=38359EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3608A4 2500 hp compressor engine Construction
date=25-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6678hr/yr, 24hr/day
SO LOCATION 38359E1 POINT 638447.908 3547705.159 0
SO SRCPARAM 38359E1 .0327595 8.21 728.71 30.82 .56
** NMED source ID=38359EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3608A4 2500 hp compressor engine Construction
date=25-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6916hr/yr, 24hr/day
SO LOCATION 38359E2 POINT 638455.444 3547712.18 0
SO SRCPARAM 38359E2 .0327595 8.21 728.71 30.82 .56
** NMED source ID=38359EQPT3 Facility's ID=ENG-3
** Description=Caterpillar G3608A4 2500 hp compressor engine Construction
date=25-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=7159hr/yr, 24hr/day
SO LOCATION 38359E3 POINT 638448.658 3547715.732 0
SO SRCPARAM 38359E3 .0327595 8.21 728.71 30.82 .56
** NMED source ID=38359EQPT4 Facility's ID=ENG-4
** Description=Caterpillar G3608A4 2500 hp compressor engine Construction
date=25-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6481hr/yr, 24hr/day
SO LOCATION 38359E4 POINT 638441.061 3547713.64 0
SO SRCPARAM 38359E4 .0327595 8.21 728.71 30.82 .56
** NMED source ID=38359EQPT6 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=26-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38359E6 POINT 638436.82 3547706.74 0
SO SRCPARAM 38359E6 .0314995 8.23 732.04 31.39 .56
** NMED source ID=38359EQPT7 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=26-JUL-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38359E7 POINT 638438.472 3547698.586 0
SO SRCPARAM 38359E7 .0340195 8.23 718.15 31.06 .56
** NMED source ID=38359EQPT8 Facility's ID=GEN-2
** Description=Natural Gas Generator Construction date=26-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38359E8 POINT 638445.421 3547693.624 0
SO SRCPARAM 38359E8 .00252 3.05 263.05 53.1 .13
** NMED source ID=38359EQPT9 Facility's ID=GEN-3
** Description=Natural Gas Generator Construction date=26-JUL-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38359E9 POINT 638454.104 3547694.766 0
SO SRCPARAM 38359E9 .0050399 3.05 1023.15 149.66 .1
**********END OF 38359: Dominator Compressor Station
INFO**********************************
************************************************************
** 17.14km away. Facility ID=39996 Name=Montera Federal 10 M CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9219 NOI
** lat,long,datum=32.139414, -103.362542, WGS84
** Total Sulfur Dioxide emissions=.04tons/year
****************Facility sources: ****************************
** NMED source ID=39996EQPT3 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=18-AUG-21
```

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39996E3 VOLUME 654441.369 3557063.147 0
SO SRCPARAM 39996E3 .00126 4.57 .47 .93
**********END OF 39996: Montera Federal 10 M CTB
INFO**********************************
************************************************************
** 17.21km away. Facility ID=39543 Name=Pac Man 36 Fed Com Battery
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.341629, -103.426965, NAD83
** Total Sulfur Dioxide emissions=16.55tons/year
****************Facility sources: ****************************
** NMED source ID=39543EQPT9 Facility's ID=FL-1
** Description=Tri-Tip Flare Construction date=21-MAY-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3192hr/yr, 24hr/day
SO LOCATION 39543E9 POINT 648036.022 3579391.077 0
SO SRCPARAM 39543E9 .4750125 12.19 1273 20 5.505
** NMED source ID=39543EQPT11 Facility's ID=ENG-2
** Description=Gas lift compressor engine: CAT 3508;  670 hp Construction
date=10-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39543E11 POINT 648043.558 3579398.098 0
SO SRCPARAM 39543E11 .0002898 4.88 746.48 34.41 .25
** NMED source ID=39543EQPT39 Facility's ID=ENG-1
** Description=Gas lift compressor engine: CAT CG137-8; 400 hp Construction
date=31-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39543E39 POINT 648036.772 3579401.65 0
SO SRCPARAM 39543E39 .0002898 4.51 802.59 15.1 .25
** NMED source ID=39543EQPT40 Facility's ID=ENG-3
** Description=Gas lift compressor engine: Waukesha L5794GSI Construction
date=31-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39543E40 POINT 648029.175 3579399.558 0
SO SRCPARAM 39543E40 .00126 7.32 913.15 31.82 .36
**********END OF 39543: Pac Man 36 Fed Com Battery
INFO**********************************
************************************************************
** 17.21km away. Facility ID=39073 Name=Devon - Grumpy Cat 15 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
```

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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.309236, -103.664658, NAD83
** Total Sulfur Dioxide emissions=.27tons/year
*****************Facility sources: ******************************
** NMED source ID=39073EQPT5 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater Construction date=16-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39073E5 VOLUME 625709.942 3575496.142 0
SO SRCPARAM 39073E5 .0005796 9.14 .47 .93
** NMED source ID=39073EQPT7 Facility's ID=FL-1
** Description=12MMscfd Zeeco Flare Construction date=16-AUG-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39073E7 POINT 625717.478 3575503.163 0
SO SRCPARAM 39073E7 .0176397 12.19 1273 20 14.712
** NMED source ID=39073EQPT10 Facility's ID=LPC-1
** Description=188 hp Cummins G855 LPC Construction date=16-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39073E10 POINT 625710.692 3575506.715 0
SO SRCPARAM 39073E10 .0002898 2.99 919.82 22.4 .15
** NMED source ID=39073EQPT11 Facility's ID=LPC-2
** Description=188 hp Cummins G855 LPC Construction date=16-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39073E11 POINT 625703.095 3575504.623 0
SO SRCPARAM 39073E11 .0002898 2.99 919.82 22.4 .15
** NMED source ID=39073EQPT12 Facility's ID=GEN-1
** Description=550 hp Doosan 21.9L Generator Construction date=16-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4896hr/yr, 24hr/day
SO LOCATION 39073E12 POINT 625698.854 3575497.723 0
SO SRCPARAM 39073E12 .0002898 2.99 1005.37 215.24 .09
** NMED source ID=39073EQPT13 Facility's ID=GEN-2
** Description=550 hp Doosan 21.9L Generator Construction date=16-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4896hr/yr, 24hr/day
SO LOCATION 39073E13 POINT 625700.506 3575489.569 0
SO SRCPARAM 39073E13 .0002898 2.99 1005.37 215.24 .09
**********END OF 39073: Devon - Grumpy Cat 15 CTB 2
INFO**********************************
************************************************************
** 17.32km away. Facility ID=39994 Name=Salado Draw 9 W0CN Fed Com 1H Battery
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** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.062796, -103.581519, WGS84
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=39994EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=18-AUG-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994E1 POINT 633897.731 3548276.235 0
SO SRCPARAM 39994E1 .0002898 4.57 778.71 13.94 .26
** NMED source ID=39994EQPT23 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=13-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39994E23 POINT 633905.267 3548283.256 0
SO SRCPARAM 39994E23 .0002898 4.42 989.82 70.41 .13
**********END OF 39994: Salado Draw 9 W0CN Fed Com 1H Battery
INFO************************************
************************************************************
** 17.36km away. Facility ID=38053 Name=Thyme APY Federal
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.340169, -103.626389, NAD83
** Total Sulfur Dioxide emissions=.96tons/year
*****************Facility sources: ****************************
** NMED source ID=38053EQPT2 Facility's ID=Flare1
** Description=Flare Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7848hr/yr, 21hr/day
SO LOCATION 38053E2 POINT 629268.935 3578970.967 0
SO SRCPARAM 38053E2 .00126 4.57 1273 20 2.632
** NMED source ID=38053EQPT12 Facility's ID=HTR1
** Description=Heater Treater Construction date=31-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E12 VOLUME 629276.471 3578977.988 0
SO SRCPARAM 38053E12 .00126 4.57 .47 .93
** NMED source ID=38053EQPT13 Facility's ID=HTR2
** Description=Heater Treater Construction date=31-JUL-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E13 VOLUME 629269.685 3578981.54 0
SO SRCPARAM 38053E13 .00126 4.57 .47 .93
** NMED source ID=38053EQPT22 Facility's ID=GEN1
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** Description=Generator Construction date=29-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E22 POINT 629262.088 3578979.448 0
SO SRCPARAM 38053E22 .00126 4.11 743.15 24.21 .3
** NMED source ID=38053EQPT23 Facility's ID=GEN2
** Description=Generator Construction date=29-NOV-23
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E23 POINT 629257.847 3578972.548 0
SO SRCPARAM 38053E23 .00126 4.11 743.15 24.21 .3
** NMED source ID=38053EQPT24 Facility's ID=GEN3
** Description=Generator Construction date=03-JAN-24
** SCC=20100102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E24 POINT 629259.499 3578964.394 0
SO SRCPARAM 38053E24 .0163797 1.8 572.59 15 .09
** NMED source ID=38053EQPT25 Facility's ID=Flare1 SSM
** Description=Flare Construction date=18-DEC-17
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38053E25 POINT 629266.448 3578959.432 0
SO SRCPARAM 38053E25 .0069047 4.57 1273 20 3.604
**********END OF 38053: Thyme APY Federal INFO**********************************
************************************************************
** 17.42km away. Facility ID=38505 Name=Raptor Tank Battery
** Company ID=13675 Name=EnLink Delaware Crude Pipeline LLC
** SIC=1311 NAIC=21112    Permit=7842 NOI
** lat,long,datum=32.298567, -103.676875, NAD83
** Total Sulfur Dioxide emissions=.16tons/year
*****************Facility sources: ******************************
** NMED source ID=38505EQPT4 Facility's ID=GEN-1B
** Description=Generator Engine 1B Cummins C2000 N6CB 2764 hp Construction
date=20-MAR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2016hr/yr, 24hr/day
SO LOCATION 38505E4 POINT 624574.337 3574299.106 0
SO SRCPARAM 38505E4 .00126 5.52 737.04 14.81 .21
** NMED source ID=38505EQPT6 Facility's ID=FLARE1
** Description=Flare Construction date=20-MAR-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38505E6 POINT 624581.873 3574306.127 0
SO SRCPARAM 38505E6 .00126 2.13 1273 20 5.505
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** NMED source ID=38505EQPT7 Facility's ID=GEN-1
** Description=Generator Engine Cummins QSK60 1950 hp Construction date=20-MAR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38505E7 POINT 624575.087 3574309.679 0
SO SRCPARAM 38505E7 .00126 4.51 748.15 72.02 .21
** NMED source ID=38505EQPT8 Facility's ID=GEN-2
** Description=Generator Engine Cummins QSK60 1950 hp Construction date=20-MAR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38505E8 POINT 624567.49 3574307.587 0
SO SRCPARAM 38505E8 .00126 4.51 748.15 72.02 .21
**********END OF 38505: Raptor Tank Battery
INFO**********************************
************************************************************
** 17.44km away. Facility ID=38315 Name=OXY - Mesa Verde CTB
** Company ID=635 Name=OXY USA WTP Limited Partnership
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.212243, -103.709015, WGS84
** Total Sulfur Dioxide emissions=.51tons/year
*****************Facility sources: ****************************
** NMED source ID=38315EQPT1 Facility's ID=VCU
** Description=Vapor Combustion Unit Construction date=06-JUN-18
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E1 POINT 621663.178 3564692.407 0
SO SRCPARAM 38315E1 .0062999 6.1 1273 20 20.806
** NMED source ID=38315EQPT2 Facility's ID=HTR-1
** Description=1.3 MMBtu/hr Heater Treater Construction date=06-JUN-18
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E2 VOLUME 621670.714 3564699.428 0
SO SRCPARAM 38315E2 .0002898 4.57 .47 .93
** NMED source ID=38315EQPT3 Facility's ID=LH-1
** Description=Line Heater Construction date=06-JUN-18
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E3 VOLUME 621663.928 3564702.98 0
SO SRCPARAM 38315E3 .00126 4.57 .47 .93
** NMED source ID=38315EQPT5 Facility's ID=HTR-3
** Description=1.3 MMBtu/hr Heater Construction date=06-JUN-18
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E5 VOLUME 621656.331 3564700.888 0
```

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SO SRCPARAM 38315E5 .0002898 4.57 .47 .93
** NMED source ID=38315EQPT19 Facility's ID=HTR-2
** Description=1.3 MMBtu/hr Heater Treater Construction date=06-JUN-18
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E19 VOLUME 621652.09 3564693.988 0
SO SRCPARAM 38315E19 .0002898 4.57 .47 .93
** NMED source ID=38315EQPT26 Facility's ID=LH-2
** Description=4.0 MMBtu/hr Line Heater Construction date=06-JUN-18
** SCC=30600105
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38315E26 VOLUME 621653.742 3564685.834 0
SO SRCPARAM 38315E26 .00126 4.57 .47 .93
** NMED source ID=38315EQPT32 Facility's ID=FLARE
** Description=Sonic Flare Construction date=27-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38315E32 POINT 621660.691 3564680.872 0
SO SRCPARAM 38315E32 .0075599 12.19 1273 20 4.652
**********END OF 38315: OXY - Mesa Verde CTB
INFO**********************************
************************************************************
** 17.47km away. Facility ID=744 Name=Alisha Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=1921 NOI
** lat,long,datum=32.317917, -103.659306, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=744EQPT1 Facility's ID=E-1
** Description=Caterpillar G3516 TA LE Construction date=03-APR-09
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8629hr/yr, 24hr/day
SO LOCATION 744E1 POINT 626187.162 3576399.216 0
SO SRCPARAM 744E1 .0008568 6.4 723.15 37.19 .31
**********END OF 744: Alisha Booster Station
INFO**********************************
************************************************************
** 17.49km away. Facility ID=40142 Name=Seawolf 12 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.053514, -103.527872, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=40142EQPT9 Facility's ID=HT-1
** Description=Heater Treater 1  3.0 MMBtu/hr Construction date=15-SEP-21
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40142E9 VOLUME 638976.265 3547315.068 0
SO SRCPARAM 40142E9 .0005796 9.14 .47 .93
** NMED source ID=40142EQPT10 Facility's ID=FL-1 SSM
** Description=Process Flare -LP 15.5 MMscfd Construction date=15-SEP-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40142E10 POINT 638983.801 3547322.089 0
SO SRCPARAM 40142E10 .0002898 12.19 1273 20 9.535
**********END OF 40142: Seawolf 12 CTB 1 INFO************************************
************************************************************
** 17.51km away. Facility ID=38720 Name=Greyhound Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.354722, -103.449586, WGS84
** Total Sulfur Dioxide emissions=93.68tons/year
*****************Facility sources: ****************************
** NMED source ID=38720EQPT9 Facility's ID=RBL-1
** Description=Dehy Reboiler 0.75 MM BTU/h, w/ BTEX condenser Construction
date=01-APR-20
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8515hr/yr, 23hr/day
SO LOCATION 38720E9 POINT 645885.945 3580811.594 0
SO SRCPARAM 38720E9 .0005796 3.05 588.71 1.98 .3
** NMED source ID=38720EQPT26 Facility's ID=ENG-10a
** Description=Caterpillar 3606A Construction date=01-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E26 POINT 645893.481 3580818.615 0
SO SRCPARAM 38720E26 .0075599 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT27 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E27 POINT 645886.695 3580822.167 0
SO SRCPARAM 38720E27 .0075599 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT28 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E28 POINT 645879.098 3580820.075 0
SO SRCPARAM 38720E28 .0075599 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT29 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=04-JAN-24
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E29 POINT 645874.857 3580813.175 0
SO SRCPARAM 38720E29 .0075599 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT30 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E30 POINT 645876.509 3580805.021 0
SO SRCPARAM 38720E30 .0075599 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT31 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E31 POINT 645883.458 3580800.059 0
SO SRCPARAM 38720E31 .0075599 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT32 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E32 POINT 645892.141 3580801.201 0
SO SRCPARAM 38720E32 .0075599 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT33 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=04-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E33 POINT 645897.851 3580808.129 0
SO SRCPARAM 38720E33 .0075599 4.51 712.04 27.91 .51
** NMED source ID=38720EQPT34 Facility's ID=FL-1 HPF SSM
** Description=Dual Tip High and Low Pressure Flare Construction date=04-JAN-24
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E34 POINT 645897.286 3580817.31 0
SO SRCPARAM 38720E34 .0189879 9.14 1273 20 .61
** NMED source ID=38720EQPT35 Facility's ID=FL-1 LPF
** Description=Dual Tip High and Low Pressure Flare Construction date=04-JAN-24
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E35 POINT 645890.451 3580823.788 0
SO SRCPARAM 38720E35 7.6631984 9.14 1273 20 .61
** NMED source ID=38720EQPT36 Facility's ID=GEN-1
** Description=Generator Construction date=04-JAN-24
** SCC=20200254
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E36 POINT 645880.815 3580823.865 0
SO SRCPARAM 38720E36 .00252 4.51 689.82 22.01 .21
** NMED source ID=38720EQPT37 Facility's ID=RBL-2
** Description=Dehy Reboiler 0.75MM BTU/hr, w/ BTEX condenser Construction
date=04-JAN-24
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E37 POINT 645873.554 3580817.199 0
SO SRCPARAM 38720E37 .0005796 3.05 588.71 1.98 .3
** NMED source ID=38720EQPT38 Facility's ID=Trailer-1
** Description=Diesel-fired Heater Trailer Construction date=04-JAN-24
** SCC=31000205
** Potential operating rate=40hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38720E38 POINT 645872.774 3580807.153 0
SO SRCPARAM 38720E38 .0365394 4.51 689.82 93.21 .21
**********END OF 38720: Greyhound Compressor Station
INFO**********************************
************************************************************
** 17.53km away. Facility ID=38459 Name=Montera Federal 23H Battery
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7853 NOI
** lat,long,datum=32.138158, -103.358606, WGS84
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=38459EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38459E4 VOLUME 654814.771 3556929.553 0
SO SRCPARAM 38459E4 .00126 4.57 .47 .93
**********END OF 38459: Montera Federal 23H Battery
INFO**********************************
************************************************************
** 17.57km away. Facility ID=35138 Name=Ruby 2 State Com No. 601H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0672, -103.4458, WGS84
** Total Sulfur Dioxide emissions=.11tons/year
*****************Facility sources: ****************************
** NMED source ID=35138EQPT3 Facility's ID=ENG-1
** Description=Gas Lift Compression Construction date=01-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8750hr/yr, 24hr/day
SO LOCATION 35138E3 POINT 646703.236 3548940.951 0
```

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SO SRCPARAM 35138E3 .00252 8.53 725.93 27.07 .52
** NMED source ID=35138EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35138E6 VOLUME 646710.772 3548947.972 0
SO SRCPARAM 35138E6 .0002898 4.88 .47 .93
** NMED source ID=35138EQPT15 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35138E15 VOLUME 646703.986 3548951.524 0
SO SRCPARAM 35138E15 .0002898 4.88 .47 .93
** NMED source ID=35138EQPT16 Facility's ID=HTR-3
** Description=Heater Treater Construction date=01-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35138E16 VOLUME 646696.389 3548949.432 0
SO SRCPARAM 35138E16 .0002898 6.1 .47 .93
**********END OF 35138: Ruby 2 State Com No. 601H
INFO************************************
************************************************************
** 17.57km away. Facility ID=37604 Name=Whirling Wind 14 North CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0533, -103.5398, WGS84
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=37604EQPT13 Facility's ID=HTR-1
** Description=Heater Treater Construction date=30-NOV-16
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37604E13 POINT 637850.415 3547276.047 0
SO SRCPARAM 37604E13 .0002898 4.88 588.71 .01 1.22
** NMED source ID=37604EQPT18 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-17
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37604E18 POINT 637857.951 3547283.068 0
SO SRCPARAM 37604E18 .0002898 4.88 588.71 .01 1.22
**********END OF 37604: Whirling Wind 14 North CTB
INFO************************************
************************************************************
** 17.68km away. Facility ID=39292 Name=Jayhawk 7 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
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** SIC=1311 NAIC=21112    Permit=8596 NOI
** lat,long,datum=32.052389, -103.507286, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=39292EQPT2 Facility's ID=ENG 3
** Description=ENG 3 Engine Construction date=23-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39292E2 POINT 640921.604 3547217.045 0
SO SRCPARAM 39292E2 .0005796 3.05 710.93 36.06 .3
** NMED source ID=39292EQPT3 Facility's ID=ENG 4
** Description=ENG 4 Engine Construction date=23-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39292E3 POINT 640929.14 3547224.066 0
SO SRCPARAM 39292E3 .0002898 4.39 1000.37 17.38 .26
** NMED source ID=39292EQPT4 Facility's ID=ENG 5
** Description=ENG 5 Engine Construction date=23-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39292E4 POINT 640922.354 3547227.618 0
SO SRCPARAM 39292E4 .0002898 4.39 1000.37 17.38 .26
**********END OF 39292: Jayhawk 7 Wellpad 3
INFO**********************************
************************************************************
** 17.69km away. Facility ID=38363 Name=Ruby Newbie CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.067, -103.4434, WGS84
** Total Sulfur Dioxide emissions=.22tons/year
*****************Facility sources: ******************************
** NMED source ID=38363EQPT4 Facility's ID=FL-1
** Description=process flare Construction date=11-MAR-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38363E4 POINT 646930.12 3548922.045 0
SO SRCPARAM 38363E4 .00252 6.1 1273 20 20.806
** NMED source ID=38363EQPT15 Facility's ID=ENG-1
** Description=Gas Lift Compression Construction date=11-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8704hr/yr, 24hr/day
SO LOCATION 38363E15 POINT 646937.656 3548929.066 0
SO SRCPARAM 38363E15 .0201597 7.01 740.37 48.77 .3
** NMED source ID=38363EQPT16 Facility's ID=FL-2
** Description=Emerg Flare Construction date=11-MAR-22
```

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** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38363E16 POINT 646930.87 3548932.618 0
SO SRCPARAM 38363E16 .00126 18.29 1273 20 2.632
** NMED source ID=38363EQPT17 Facility's ID=HTR-1
** Description=Heater Treater Construction date=11-MAR-22
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38363E17 VOLUME 646923.273 3548930.526 0
SO SRCPARAM 38363E17 .0005796 6.1 .47 .93
**********END OF 38363: Ruby Newbie CTB INFO**********************************
************************************************************
** 17.73km away. Facility ID=39389 Name=Devon - Chincoteague 8 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.147128, -103.696514, NAD83
** Total Sulfur Dioxide emissions=.5tons/year
*****************Facility sources: ******************************
** NMED source ID=39389EQPT10 Facility's ID=FL-1
** Description=15.5 MMscfd Zecco Flare Construction date=28-FEB-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5112hr/yr, 24hr/day
SO LOCATION 39389E10 POINT 622928.844 3557488.103 0
SO SRCPARAM 39389E10 .014389 12.19 1273 20 7.207
**********END OF 39389: Devon - Chincoteague 8 CTB 2
INFO**********************************
************************************************************
** 17.75km away. Facility ID=40586 Name=Perro Loco 27 22 Battery No1
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.357939, -103.451879, WGS84
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=40586EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=19-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E5 POINT 645665.004 3581165.127 0
SO SRCPARAM 40586E5 .0002898 4.57 778.71 13.94 .26
** NMED source ID=40586EQPT6 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=19-AUG-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E6 POINT 645672.54 3581172.148 0
SO SRCPARAM 40586E6 .0002898 6.19 695.37 37.61 .25
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** NMED source ID=40586EQPT10 Facility's ID=GEN-01
** Description=Generator Engine Construction date=19-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40586E10 POINT 645665.754 3581175.7 0
SO SRCPARAM 40586E10 .0002898 3.51 840.37 177.36 .09
**********END OF 40586: Perro Loco 27 22 Battery No1
INFO**********************************
************************************************************
** 17.81km away. Facility ID=39899 Name=Yada A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.16893, -103.341328, NAD83
** Total Sulfur Dioxide emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=39899EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516 1380 hp engine Construction date=19-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39899E1 POINT 656392.039 3560366.081 0
SO SRCPARAM 39899E1 .00126 4.57 723.71 283.77 .2
** NMED source ID=39899EQPT19 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=28-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39899E19 POINT 656399.575 3560373.102 0
SO SRCPARAM 39899E19 .00126 4.57 939.26 90.22 .25
**********END OF 39899: Yada A CTB INFO**************************************
************************************************************
** 17.82km away. Facility ID=38313 Name=Topaz 11 Fed No 601H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0638, -103.4483, WGS84
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=38313EQPT4 Facility's ID=FL-1
** Description=Process Flare Construction date=12-APR-18
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38313E4 POINT 646472.653 3548560.625 0
SO SRCPARAM 38313E4 .00126 6.1 1273 20 2.632
** NMED source ID=38313EQPT5 Facility's ID=ENG-1
** Description=Gas Lift Compression Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8486hr/yr, 23hr/day
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SO LOCATION 38313E5 POINT 646480.189 3548567.646 0
SO SRCPARAM 38313E5 .0002898 4.57 863.15 24.26 .15
** NMED source ID=38313EQPT8 Facility's ID=FL-1-SSM
** Description=Process Flare SSM Construction date=05-APR-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38313E8 POINT 646473.403 3548571.198 0
SO SRCPARAM 38313E8 .0002898 6.1 1273 20 20.806
**********END OF 38313: Topaz 11 Fed No 601H
INFO**********************************
************************************************************
** 17.87km away. Facility ID=38704 Name=Devon - Big Cat 16 CTB 9
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.300975, -103.680736, NAD83
** Total Sulfur Dioxide emissions=.23tons/year
*****************Facility sources: ******************************
** NMED source ID=38704EQPT13 Facility's ID=FL-1
** Description=12.7 MMscfd Process Flare Construction date=28-NOV-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38704E13 POINT 624207.505 3574561.578 0
SO SRCPARAM 38704E13 .0163797 12.19 1273 20 14.712
**********END OF 38704: Devon - Big Cat 16 CTB 9
INFO**********************************
************************************************************
** 17.9km away. Facility ID=40412 Name=Salado Draw 10 W0NC Fed Com No3H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.052671, -103.56016, WGS84
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40412EQPT6 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=22-APR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E6 POINT 635929.077 3547180.493 0
SO SRCPARAM 40412E6 .0002898 6.17 695.37 37.61 .25
** NMED source ID=40412EQPT16 Facility's ID=GEN-01
** Description=Generator Engine Construction date=23-AUG-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E16 POINT 635936.613 3547187.514 0
SO SRCPARAM 40412E16 .0002898 4.51 840.37 179.41 .09
** NMED source ID=40412EQPT17 Facility's ID=GEN-02
** Description=Generator Engine Construction date=23-AUG-22
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E17 POINT 635929.827 3547191.066 0
SO SRCPARAM 40412E17 .0002898 4.51 840.37 179.41 .09
** NMED source ID=40412EQPT34 Facility's ID=ENG-07
** Description=Compressor Engine Construction date=07-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E34 POINT 635922.23 3547188.974 0
SO SRCPARAM 40412E34 .0005796 7.16 819.82 33.86 .41
** NMED source ID=40412EQPT35 Facility's ID=HT-04
** Description=Heater Treater Construction date=07-SEP-23
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40412E35 VOLUME 635917.989 3547182.074 0
SO SRCPARAM 40412E35 .0002898 4.57 .47 .93
**********END OF 40412: Salado Draw 10 W0NC Fed Com No3H Battery
INFO***********************************
************************************************************
** 17.93km away. Facility ID=38822 Name=Devon - Fighting Okra 18 Wellpad 7
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=8179 NOI
** lat,long,datum=32.049789, -103.512222, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=38822EQPT2 Facility's ID=ENG 3
** Description=Engine 3 Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38822E2 POINT 640459.541 3546922.375 0
SO SRCPARAM 38822E2 .0002898 5.58 812.59 36.79 .2
** NMED source ID=38822EQPT3 Facility's ID=ENG 4
** Description=Engine 4 Construction date=26-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38822E3 POINT 640467.077 3546929.396 0
SO SRCPARAM 38822E3 .0002898 4.39 1000.37 17.38 .26
**********END OF 38822: Devon - Fighting Okra 18 Wellpad 7
INFO***********************************
************************************************************
** 18.05km away. Facility ID=34583 Name=James 29 Federal Battery
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.281661, -103.696139, NAD83
** Total Sulfur Dioxide emissions=.07tons/year
```

**********Facility sources: **********
** NMED source ID=34583EQPT15 Facility's ID=ENG4
** Description=Compressor Engine Construction date=09-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583E15 POINT 622783.252 3572402.685 0
SO SRCPARAM 34583E15 .00126 6.86 724.26 52.55 .3
** NMED source ID=34583EQPT18 Facility's ID=H1
** Description=Heater Treater, 2.0 MMBtu/hr Construction date=12-MAR-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583E18 VOLUME 622790.788 3572409.706 0
SO SRCPARAM 34583E18 .0002898 4.57 .47 .93
** NMED source ID=34583EQPT19 Facility's ID=H2
** Description=Heater Treater, 2.0 MMBtu/hr Construction date=12-MAR-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583E19 VOLUME 622784.002 3572413.258 0
SO SRCPARAM 34583E19 .0002898 4.57 .47 .93
** NMED source ID=34583EQPT20 Facility's ID=H3
** Description=Heater Treater, 2.0 MMBtu/hr Construction date=11-DEC-13
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583E20 VOLUME 622776.405 3572411.166 0
SO SRCPARAM 34583E20 .0002898 4.57 .47 .93
** NMED source ID=34583EQPT21 Facility's ID=H4
** Description=Heater Treater, 2.0 MMBtu/hr Construction date=11-DEC-13
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34583E21 VOLUME 622772.164 3572404.266 0
SO SRCPARAM 34583E21 .0002898 4.57 .47 .93
**********END OF 34583: James 29 Federal Battery
INFO**********
**********
** 18.14km away. Facility ID=38904 Name=EOG - Red Hills Solar Localized Gas Lift Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.052297, -103.569805, WGS84
** Total Sulfur Dioxide emissions=17.38tons/year
**********Facility sources: **********
** NMED source ID=38904EQPT1 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.0 MMbtu/hr Construction date=17-APR-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day

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** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38904E1 POINT 635019 3547126.926 0
SO SRCPARAM 38904E1 .00252 3.96 588.71 2.62 .3
** NMED source ID=38904EQPT2 Facility's ID=Heater-1
** Description=Separator Heater 0.5 MMbtu/hr Construction date=17-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38904E2 POINT 635026.536 3547133.947 0
SO SRCPARAM 38904E2 .00126 3.96 588.71 1.31 .3
** NMED source ID=38904EQPT3 Facility's ID=ENG-1
** Description=4SLB, CAT G3606, 1875 HP Construction date=17-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8122hr/yr, 22hr/day
SO LOCATION 38904E3 POINT 635019.75 3547137.499 0
SO SRCPARAM 38904E3 .0176397 8.53 719.26 27.43 .51
** NMED source ID=38904EQPT4 Facility's ID=ENG-2
** Description=4SLB, CAT G3606, 1875 HP Construction date=17-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8513hr/yr, 23hr/day
SO LOCATION 38904E4 POINT 635012.153 3547135.407 0
SO SRCPARAM 38904E4 .0176397 8.53 719.26 27.43 .51
** NMED source ID=38904EQPT5 Facility's ID=ENG-3
** Description=4SLB, CAT G3606, 1875 HP Construction date=17-APR-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8337hr/yr, 23hr/day
SO LOCATION 38904E5 POINT 635007.912 3547128.507 0
SO SRCPARAM 38904E5 .0176397 8.53 719.26 27.43 .51
** NMED source ID=38904EQPT6 Facility's ID=ENG-4
** Description=4SLB, CAT G3520H, 3448 HP generator Construction date=30-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38904E6 POINT 635009.564 3547120.353 0
SO SRCPARAM 38904E6 .0176397 6.71 664.26 36.73 .63
** NMED source ID=38904EQPT7 Facility's ID=ENG-5
** Description=4SLB, CAT G3520H, 3448 HP generator Construction date=30-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38904E7 POINT 635016.513 3547115.391 0
SO SRCPARAM 38904E7 .0176397 6.71 664.26 36.73 .63
** NMED source ID=38904EQPT8 Facility's ID=ENG-6
** Description=4SLB, CAT G3520H, 3448 HP generator Construction date=30-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38904E8 POINT 635025.196 3547116.533 0
SO SRCPARAM 38904E8 .0176397 6.71 664.26 36.73 .63
** NMED source ID=38904EQPT10 Facility's ID=Flare1-LP
** Description=dual pressure 5.23 MMcf/d: LP tip Construction date=30-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38904E10 POINT 635030.906 3547123.461 0
SO SRCPARAM 38904E10 .0163797 12.19 1273 20 20.806
** NMED source ID=38904EQPT15 Facility's ID=Flare1-HP
** Description=dual pressure 5.23 MMcf/d: HP tip Construction date=30-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38904E15 POINT 635030.341 3547132.642 0
SO SRCPARAM 38904E15 .0100798 12.19 1273 20 3.604
**********END OF 38904: EOG - Red Hills Solar Localized Gas Lift Station
INFO**********************************
************************************************************
** 18.16km away. Facility ID=39070 Name=Devon - Chincoteague 8 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.147514, -103.701711, NAD83
** Total Sulfur Dioxide emissions=.22tons/year
*****************Facility sources: ******************************
** NMED source ID=39070EQPT6 Facility's ID=HT-1
** Description=Heater Treater, 3.0 MMBtu/hr Construction date=04-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39070E6 POINT 622438.174 3557524.971 0
SO SRCPARAM 39070E6 .00126 9.14 708.71 2.82 .34
** NMED source ID=39070EQPT7 Facility's ID=HT-2
** Description=Heater Treater, 3.0 MMBtu/hr Construction date=04-AUG-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39070E7 POINT 622445.71 3557531.992 0
SO SRCPARAM 39070E7 .00126 9.14 708.71 2.82 .34
** NMED source ID=39070EQPT13 Facility's ID=FL-1
** Description=Flare 15.5 MMscfd Construction date=04-AUG-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39070E13 POINT 622438.924 3557535.544 0
SO SRCPARAM 39070E13 .0113398 12.19 1273 20 14.712
**********END OF 39070: Devon - Chincoteague 8 CTB 1
INFO**********************************
************************************************************
** 18.19km away. Facility ID=39838 Name=MarkWest - Middle Ground Compressor Station
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** Company ID=13709 Name=Mark West Tornado Gas Plant, L.L.C.
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.06385, -103.6089, WGS84
** Total Sulfur Dioxide emissions=.27tons/year
*****************Facility sources: ****************************
** NMED source ID=39838EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516B 1380 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E1 POINT 631311.366 3548359.429 0
SO SRCPARAM 39838E1 .00126 7.01 812.59 56.45 .3
** NMED source ID=39838EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516B 1380 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E2 POINT 631318.902 3548366.45 0
SO SRCPARAM 39838E2 .00126 7.01 812.59 56.45 .3
** NMED source ID=39838EQPT3 Facility's ID=ENG-4
** Description=Caterpillar G3516B 1380 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E3 POINT 631312.116 3548370.002 0
SO SRCPARAM 39838E3 .00126 7.01 812.59 56.45 .3
** NMED source ID=39838EQPT4 Facility's ID=ENG-5
** Description=Caterpillar G3516B 1380 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E4 POINT 631304.519 3548367.91 0
SO SRCPARAM 39838E4 .00126 7.01 812.59 56.45 .3
** NMED source ID=39838EQPT5 Facility's ID=ENG-3
** Description=Caterpillar G3516 1340 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E5 POINT 631300.278 3548361.01 0
SO SRCPARAM 39838E5 .00126 7.01 805.93 62.15 .3
** NMED source ID=39838EQPT6 Facility's ID=ENG-6
** Description=Caterpillar G3516 1340 hp engine Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E6 POINT 631301.93 3548352.856 0
SO SRCPARAM 39838E6 .00126 7.01 805.93 62.15 .3
** NMED source ID=39838EQPT7 Facility's ID=GEN-1
** Description=PSI 350 kW 581 hp generator Construction date=27-JAN-21
** SCC=20200254
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E7 POINT 631308.879 3548347.894 0
SO SRCPARAM 39838E7 .0002898 3 1005.37 83.21 .09
** NMED source ID=39838EQPT8 Facility's ID=GEN-2
** Description=PSI 350 kW 581 hp generator Construction date=27-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E8 POINT 631317.562 3548349.036 0
SO SRCPARAM 39838E8 .0002898 3 1005.37 83.21 .09
** NMED source ID=39838EQPT9 Facility's ID=Reboil-1
** Description=TEG Reboiler 1 MMBtu/h Construction date=27-JAN-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E9 POINT 631323.272 3548355.964 0
SO SRCPARAM 39838E9 .00126 4.88 588.71 1.55 .4
** NMED source ID=39838EQPT14 Facility's ID=ECD-1
** Description=8 MMscf/d Combustor (Process) Construction date=27-JAN-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E14 POINT 631322.707 3548365.145 0
SO SRCPARAM 39838E14 .00126 3.66 1273 20 1.22
** NMED source ID=39838EQPT15 Facility's ID=ECD-2
** Description=26 MMscf/d Combustor (Process) Construction date=27-JAN-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39838E15 POINT 631315.872 3548371.623 0
SO SRCPARAM 39838E15 .00126 2.74 1273 20 .61
**********END OF 39838: MarkWest - Middle Ground Compressor Station
INFO**********************************
************************************************************
** 18.2km away. Facility ID=6257 Name=Marwari 28 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10013 NOI
** lat,long,datum=32.10771, -103.674043, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=6257EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=21-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6257E1 POINT 625101.987 3553144.196 0
SO SRCPARAM 6257E1 .0002898 4.39 790.93 14.04 .26
** NMED source ID=6257EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=21-JUL-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6257E2 POINT 625109.523 3553151.217 0
SO SRCPARAM 6257E2 .0002898 3.51 1000.37 71.17 .13
**********END OF 6257: Marwari 28 Wellpad 3
INFO**********************************
************************************************************
** 18.27km away. Facility ID=38617 Name=Rico Compressor Station
** Company ID=13452 Name=Delaware G & P, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.2059, -103.717778, NAD83
** Total Sulfur Dioxide emissions=.27tons/year
*****************Facility sources: ****************************
** NMED source ID=38617EQPT1 Facility's ID=E-1
** Description=2500 hp CAT G3608 A4 Compressor Engine Construction date=12-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8559hr/yr, 24hr/day
SO LOCATION 38617E1 POINT 620845.677 3563979.346 0
SO SRCPARAM 38617E1 .00126 8.31 718.15 104.06 .3
** NMED source ID=38617EQPT2 Facility's ID=E-2
** Description=2500 hp CAT G3608 A4 Compressor Engine Construction date=12-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8627hr/yr, 24hr/day
SO LOCATION 38617E2 POINT 620853.213 3563986.367 0
SO SRCPARAM 38617E2 .00126 8.31 718.15 104.06 .3
** NMED source ID=38617EQPT12 Facility's ID=H-1
** Description=Dehy Reboiler w/ BTEX condenser Construction date=12-SEP-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E12 POINT 620846.427 3563989.919 0
SO SRCPARAM 38617E12 .00126 3.99 1033.15 8.11 .09
** NMED source ID=38617EQPT15 Facility's ID=E-3
** Description=2500 hp CAT G3608 A4 Compressor Engine Construction date=26-JUN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E15 POINT 620838.83 3563987.827 0
SO SRCPARAM 38617E15 .00126 8.31 718.15 104.06 .3
** NMED source ID=38617EQPT16 Facility's ID=E-4
** Description=2370 hp CAT G3608 A3 Compressor Engine Construction date=26-JUN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E16 POINT 620834.589 3563980.927 0
SO SRCPARAM 38617E16 .00126 8.31 731.48 104.42 .3
** NMED source ID=38617EQPT17 Facility's ID=E-6
```

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** Description=2500 hp Waukesha 9394S5 Compressor Engine Construction date=26-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E17 POINT 620836.241 3563972.773 0
SO SRCPARAM 38617E17 .00126 7.48 862.59 67.42 .3
** NMED source ID=38617EQPT18 Facility's ID=E-7
** Description=2500 hp Waukesha 9394S5 Compressor Engine Construction date=26-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E18 POINT 620843.19 3563967.811 0
SO SRCPARAM 38617E18 .00126 7.48 862.59 67.42 .3
** NMED source ID=38617EQPT21 Facility's ID=E-8
** Description=2500 hp CAT G3608 A4 Compressor Engine Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E21 POINT 620851.873 3563968.953 0
SO SRCPARAM 38617E21 .00126 8.31 718.15 104.06 .3
** NMED source ID=38617EQPT22 Facility's ID=E-9
** Description=2500 hp CAT G3608 A4 Compressor Engine Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38617E22 POINT 620857.583 3563975.881 0
SO SRCPARAM 38617E22 .00126 8.31 718.15 104.06 .3
**********END OF 38617: Rico Compressor Station
INFO***********************************
************************************************************
** 18.3km away. Facility ID=39897 Name=Yada B CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.167413, -103.336435, NAD83
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=39897EQPT2 Facility's ID=ENG-1
** Description=CAT G3516J: 4SLB, 1380hp w/ oxidation catalyst Construction
date=18-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39897E2 POINT 656856.045 3560205.021 0
SO SRCPARAM 39897E2 .0005796 4.57 723.71 112.17 .2
** NMED source ID=39897EQPT3 Facility's ID=ENG-2
** Description=CAT G3516J: 4SLB, 1380hp w/ oxidation catalyst Construction
date=18-MAR-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 39897E3 POINT 656863.581 3560212.042 0
SO SRCPARAM 39897E3 .0005796 4.57 723.71 112.17 .2
** NMED source ID=39897EQPT4 Facility's ID=GEN-1
** Description=PSI 21.9L; 4SRB, 581hp generator Construction date=18-MAR-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39897E4 POINT 656856.795 3560215.594 0
SO SRCPARAM 39897E4 .0005796 4.57 886.48 150.27 .1
**********END OF 39897: Yada B CTB INFO**********************************
************************************************************
** 18.31km away. Facility ID=39785 Name=Devon - Billiken 6 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9029 NSR
** lat,long,datum=32.076646, -103.41099, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=39785EQPT9 Facility's ID=HT-1
** Description=3 MMBtu/h Heater Treater Construction date=11-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39785E9 VOLUME 649973.945 3550036.025 0
SO SRCPARAM 39785E9 .0002898 9.14 .47 .93
** NMED source ID=39785EQPT10 Facility's ID=FL-1
** Description=15 MMSCFD Flare - Process & Stranded Gas Construction date=11-DEC-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39785E10 POINT 649981.481 3550043.046 0
SO SRCPARAM 39785E10 .0002898 12.19 1273 20 9.759
**********END OF 39785: Devon - Billiken 6 CTB 1
INFO**********************************
************************************************************
** 18.4km away. Facility ID=37138 Name=Nautilus 16 State Com No 703H & 704H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.049392, -103.48045, WGS84
** Total Sulfur Dioxide emissions=.11tons/year
*****************Facility sources: ******************************
** NMED source ID=37138EQPT1 Facility's ID=ENG-1
** Description=1775 hp Cat G3606 LE gas lift engine Construction date=14-JUL-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8702hr/yr, 24hr/day
SO LOCATION 37138E1 POINT 643460.028 3546920.151 0
SO SRCPARAM 37138E1 .00252 8.53 725.93 26.85 .52
** NMED source ID=37138EQPT5 Facility's ID=FL-1
** Description=5 MMscfd Flare - pilot, normal operations Construction date=14-JUL-16
** SCC=30600903
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37138E5 POINT 643467.564 3546927.172 0
SO SRCPARAM 37138E5 .0002898 7.62 1273 20 20.806
** NMED source ID=37138EQPT19 Facility's ID=HTR-1
** Description=0.75 MMBtu/hr heater treater Construction date=25-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37138E19 VOLUME 643460.778 3546930.724 0
SO SRCPARAM 37138E19 .00126 4.57 .47 .93
** NMED source ID=37138EQPT20 Facility's ID=HTR-2
** Description=0.75 MMBtu/hr heater treater Construction date=25-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37138E20 VOLUME 643453.181 3546928.632 0
SO SRCPARAM 37138E20 .00126 4.57 .47 .93
**********END OF 37138: Nautilus 16 State Com No 703H & 704H
INFO**********************************
**************************************************************
** 18.43km away. Facility ID=38323 Name=Mesa Verde West Central Gas Lift Station
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2122, -103.7196, WGS84
** Total Sulfur Dioxide emissions=.31tons/year
*****************Facility sources: ******************************
** NMED source ID=38323EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=20-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7733hr/yr, 24hr/day
SO LOCATION 38323E1 POINT 620665.626 3564675.705 0
SO SRCPARAM 38323E1 .00126 4.57 816.48 26.46 .46
** NMED source ID=38323EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=20-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7398hr/yr, 24hr/day
SO LOCATION 38323E2 POINT 620673.162 3564682.726 0
SO SRCPARAM 38323E2 .00126 4.57 816.48 26.46 .46
** NMED source ID=38323EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=20-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7968hr/yr, 24hr/day
SO LOCATION 38323E3 POINT 620666.376 3564686.278 0
SO SRCPARAM 38323E3 .00126 4.57 816.48 26.46 .46
** NMED source ID=38323EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=20-SEP-18
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7822hr/yr, 24hr/day
SO LOCATION 38323E4 POINT 620658.779 3564684.186 0
SO SRCPARAM 38323E4 .00126 4.57 816.48 26.46 .46
** NMED source ID=38323EQPT6 Facility's ID=REB-1
** Description=Reboiler Construction date=20-SEP-18
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38323E6 POINT 620654.538 3564677.286 0
SO SRCPARAM 38323E6 .0002898 4.57 588.71 .12 .24
** NMED source ID=38323EQPT8 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=20-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1997hr/yr, 24hr/day
SO LOCATION 38323E8 POINT 620656.19 3564669.132 0
SO SRCPARAM 38323E8 .00126 4.57 816.48 26.46 .46
**********END OF 38323: Mesa Verde West Central Gas Lift Station
INFO**********************************
************************************************************
** 18.43km away. Facility ID=40490 Name=Magic Cat 30 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9635 NOI
** lat,long,datum=32.26901, -103.70704, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=40490EQPT1 Facility's ID=ENG 1
** Description=Engine 1 Construction date=06-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40490E1 POINT 621773.544 3570987.774 0
SO SRCPARAM 40490E1 .0002898 5.85 952.59 31.94 .27
** NMED source ID=40490EQPT2 Facility's ID=ENG 2
** Description=Engine 2 Construction date=06-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40490E2 POINT 621781.08 3570994.795 0
SO SRCPARAM 40490E2 .0002898 4.39 790.93 14.04 .26
**********END OF 40490: Magic Cat 30 Wellpad 3
INFO**********************************
************************************************************
** 18.46km away. Facility ID=40400 Name=Mammoth 1 Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.066392, -103.427115, NAD83
** Total Sulfur Dioxide emissions=.06tons/year
```

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*****************Facility sources: ****************************
** NMED source ID=40400EQPT16 Facility's ID=GEN-1
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E16 POINT 648468.44 3548876.936 0
SO SRCPARAM 40400E16 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40400EQPT17 Facility's ID=GEN-2
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E17 POINT 648475.976 3548883.957 0
SO SRCPARAM 40400E17 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40400EQPT18 Facility's ID=GEN-3
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E18 POINT 648469.19 3548887.509 0
SO SRCPARAM 40400E18 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40400EQPT19 Facility's ID=GEN-4
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E19 POINT 648461.593 3548885.417 0
SO SRCPARAM 40400E19 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40400EQPT20 Facility's ID=GEN-5
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E20 POINT 648457.352 3548878.517 0
SO SRCPARAM 40400E20 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40400EQPT21 Facility's ID=GEN-6
** Description=Generator Construction date=14-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40400E21 POINT 648459.004 3548870.363 0
SO SRCPARAM 40400E21 .0002898 4.51 744.26 145.91 .09
**********END OF 40400: Mammoth 1 Fed Com CTB
INFO**********************************
************************************************************
** 18.51km away. Facility ID=40107 Name=Devon - Trionyx 6 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.163492, -103.712294, NAD83
```

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** Total Sulfur Dioxide emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=40107EQPT1 Facility's ID=FL-1
** Description=Flare Construction date=11-AUG-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40107E1 POINT 621418.855 3559284.263 0
SO SRCPARAM 40107E1 .0075599 12.19 1273 20 10.609
** NMED source ID=40107EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=11-AUG-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40107E2 VOLUME 621426.391 3559291.284 0
SO SRCPARAM 40107E2 .0002898 9.14 .47 .93
**********END OF 40107: Devon - Trionyx 6 CTB 3
INFO**********************************
************************************************************
** 18.55km away. Facility ID=38765 Name=Devon - Marwari 28 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.106003, -103.677142, NAD83
** Total Sulfur Dioxide emissions=.28tons/year
*****************Facility sources: ****************************
** NMED source ID=38765EQPT8 Facility's ID=FL-1
** Description=Flare 12.7 MMscfd Construction date=31-DEC-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38765E8 POINT 624811.901 3552951.369 0
SO SRCPARAM 38765E8 .0201597 12.19 1273 20 16.116
**********END OF 38765: Devon - Marwari 28 CTB 2
INFO**********************************
************************************************************
** 18.55km away. Facility ID=39093 Name=EOG - Quijote 2 State CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0764, -103.6407, WGS84
** Total Sulfur Dioxide emissions=.59tons/year
*****************Facility sources: ****************************
** NMED source ID=39093EQPT6 Facility's ID=HTR-1
** Description=Heater, 1.5-MMBtu/hr Construction date=22-AUG-19
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39093E6 POINT 628291.86 3549712.432 0
SO SRCPARAM 39093E6 .0037799 5.18 588.71 6.86 .3
** NMED source ID=39093EQPT7 Facility's ID=Frac HTR-1
** Description=Heater, 0.5-MMBtu/hr Construction date=22-AUG-19
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** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39093E7 POINT 628299.396 3549719.453 0
SO SRCPARAM 39093E7 .00126 5.18 588.71 2.29 .3
** NMED source ID=39093EQPT8 Facility's ID=Frac ENG-1
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39093E8 POINT 628292.61 3549723.005 0
SO SRCPARAM 39093E8 .0037799 6.1 790.93 23.04 .2
** NMED source ID=39093EQPT10 Facility's ID=Frac ENG-3
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39093E10 POINT 628285.013 3549720.913 0
SO SRCPARAM 39093E10 .0037799 6.1 790.93 23.04 .2
** NMED source ID=39093EQPT9 Facility's ID=Frac ENG-2
** Description=Compressor Engine, CAT, CG137-8, 400-hp Construction date=22-AUG-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39093E9 POINT 628280.772 3549714.013 0
SO SRCPARAM 39093E9 .0037799 6.1 790.93 23.04 .2
**********END OF 39093: EOG - Quijote 2 State CTB
INFO**********************************
************************************************************
** 18.6km away. Facility ID=38029 Name=Gaucho 21 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=7453 NOI
** lat,long,datum=32.370825, -103.468119, NAD83
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=38029EQPT3 Facility's ID=HT-1
** Description=Heater treater 1 EQ000310151 Construction date=15-FEB-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 38029E3 VOLUME 644116.349 3582571.756 0
SO SRCPARAM 38029E3 .0002898 9.14 .47 .93
** NMED source ID=38029EQPT6 Facility's ID=FL-1 LP
** Description=Flare Low Pressure Side EQ000288120 Construction date=15-FEB-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8736hr/yr, 24hr/day
SO LOCATION 38029E6 POINT 644123.885 3582578.777 0
SO SRCPARAM 38029E6 .0037799 12.19 1273 20 .61
** NMED source ID=38029EQPT9 Facility's ID=HT-2
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** Description=Heater treater 2 EQ000310194 Construction date=15-FEB-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8712hr/yr, 24hr/day
SO LOCATION 38029E9 VOLUME 644117.099 3582582.329 0
SO SRCPARAM 38029E9 .0002898 9.14 .47 .93
** NMED source ID=38029EQPT10 Facility's ID=FL-1 HP
** Description=Flare High Pressure Side EQ000288120 Construction date=01-FEB-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38029E10 POINT 644109.502 3582580.237 0
SO SRCPARAM 38029E10 .0002898 12.19 1273 20 .61
**********END OF 38029: Gaucho 21 Wellpad 2
INFO**********************************
************************************************************
** 18.64km away. Facility ID=39995 Name=Right Meow 31 CTB 7
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.265546, -103.710896, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=39995EQPT9 Facility's ID=HT-1
** Description=Heater Treater 3.0 MMBtu/hr Construction date=02-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39995E9 POINT 621414.965 3570599.387 0
SO SRCPARAM 39995E9 .0002898 9.14 888.71 9.07 .31
** NMED source ID=39995EQPT10 Facility's ID=HT-2
** Description=Heater Treater 3.0 MMBtu/hr Construction date=02-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39995E10 POINT 621422.501 3570606.408 0
SO SRCPARAM 39995E10 .0002898 9.14 888.71 9.07 .31
** NMED source ID=39995EQPT11 Facility's ID=FL-1
** Description=Flare Construction date=02-JUN-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39995E11 POINT 621415.715 3570609.96 0
SO SRCPARAM 39995E11 .00252 12.19 1273 20 17.408
**********END OF 39995: Right Meow 31 CTB 7
INFO**********************************
************************************************************
** 18.71km away. Facility ID=37605 Name=EOG - Braswell 16 West CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.05, -103.582778, NAD83
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** Total Sulfur Dioxide emissions=.18tons/year
*****************Facility sources: ****************************
** NMED source ID=37605EQPT3 Facility's ID=Heater-1
** Description=0.75 MMBtu/hr, separator heater Construction date=18-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37605E3 POINT 633797.504 3546856.129 0
SO SRCPARAM 37605E3 .0002898 4.88 588.71 .01 1.22
** NMED source ID=37605EQPT15 Facility's ID=FL-1
** Description=Process Flare, 5 MMSCFD Construction date=18-OCT-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37605E15 POINT 633805.04 3546863.15 0
SO SRCPARAM 37605E15 .0037799 12.19 1273.15 1.35 .2
** NMED source ID=37605EQPT16 Facility's ID=FL-2
** Description=Emergency Flare, 30 MMSCFD Construction date=29-NOV-16
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37605E16 POINT 633798.254 3546866.702 0
SO SRCPARAM 37605E16 .00126 18.29 1273.15 19.99 .23
** NMED source ID=37605EQPT20 Facility's ID=Heater-2
** Description=0.75 MMBtu/hr, separator heater Construction date=18-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37605E20 POINT 633790.657 3546864.61 0
SO SRCPARAM 37605E20 .0002898 4.88 588.71 .01 1.22
** NMED source ID=37605EQPT21 Facility's ID=FL-1, Pilot
** Description=Process Flare, 5 MMSCFD Construction date=18-OCT-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37605E21 POINT 633786.416 3546857.71 0
SO SRCPARAM 37605E21 .0002898 12.19 1273.15 1.35 .2
**********END OF 37605: EOG - Braswell 16 West CTB
INFO***********************************
************************************************************
** 18.71km away. Facility ID=40146 Name=Rattlesnake Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.04837, -103.47177, WGS84
** Total Sulfur Dioxide emissions=4.42tons/year
*****************Facility sources: ****************************
** NMED source ID=40146EQPT3 Facility's ID=RBL-1
** Description=Dehy Reboiler (1.0 MMBTU/hr) Construction date=27-AUG-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8541hr/yr, 23hr/day
SO LOCATION 40146E3 POINT 644281.192 3546818.421 0
SO SRCPARAM 40146E3 .00252 3.05 588.71 2.62 .3
** NMED source ID=40146EQPT6 Facility's ID=ENG-1
** Description=Compressor Engine (1875 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8285hr/yr, 23hr/day
SO LOCATION 40146E6 POINT 644288.728 3546825.442 0
SO SRCPARAM 40146E6 .0226796 6.1 695.37 34.32 .46
** NMED source ID=40146EQPT7 Facility's ID=ENG-2
** Description=Compressor Engine (1875 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7600hr/yr, 21hr/day
SO LOCATION 40146E7 POINT 644281.942 3546828.994 0
SO SRCPARAM 40146E7 .0226796 6.1 695.37 34.32 .46
** NMED source ID=40146EQPT8 Facility's ID=ENG-3
** Description=Compressor Engine (1875 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8189hr/yr, 22hr/day
SO LOCATION 40146E8 POINT 644274.345 3546826.902 0
SO SRCPARAM 40146E8 .0226796 6.1 695.37 34.32 .46
** NMED source ID=40146EQPT9 Facility's ID=ENG-4
** Description=Compressor Engine (1875 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8169hr/yr, 22hr/day
SO LOCATION 40146E9 POINT 644270.104 3546820.002 0
SO SRCPARAM 40146E9 .0226796 6.1 695.37 34.32 .46
** NMED source ID=40146EQPT10 Facility's ID=ENG-5
** Description=Compressor Engine (1380 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7863hr/yr, 22hr/day
SO LOCATION 40146E10 POINT 644271.756 3546811.848 0
SO SRCPARAM 40146E10 .0176397 6.1 725.93 48.68 .3
** NMED source ID=40146EQPT11 Facility's ID=ENG-6
** Description=Compressor Engine (1380 hp) 4SLB Construction date=27-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7547hr/yr, 21hr/day
SO LOCATION 40146E11 POINT 644278.705 3546806.886 0
SO SRCPARAM 40146E11 .0176397 6.1 725.93 48.68 .3
**********END OF 40146: Rattlesnake Compressor Station
INFO**********************************
************************************************************
** 18.74km away. Facility ID=40471 Name=Thunderbird 1 TB Fed 14H and 1 WA Fed 18H
Production Facility
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** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.067482, -103.419098, NAD83
** Total Sulfur Dioxide emissions=.16tons/year
*****************Facility sources: ****************************
** NMED source ID=40471EQPT3 Facility's ID=FLARE
** Description=Emissions Control Dual Tip Flare Construction date=18-AUG-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40471E3 POINT 649223.498 3549008.837 0
SO SRCPARAM 40471E3 .0163797 9.14 1273 20 3.604
** NMED source ID=40471EQPT29 Facility's ID=ENG-02
** Description=Compressor Engine 2 Construction date=29-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40471E29 POINT 649231.034 3549015.858 0
SO SRCPARAM 40471E29 .0002898 3.51 1000.37 50.23 .15
**********END OF 40471: Thunderbird 1 TB Fed 14H and 1 WA Fed 18H Production
Facility INFO***********************************
************************************************************
** 18.76km away. Facility ID=38259 Name=Fighting Okra 18 CTB 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.042463, -103.509598, NAD83
** Total Sulfur Dioxide emissions=.15tons/year
*****************Facility sources: ****************************
** NMED source ID=38259EQPT7 Facility's ID=HT-1
** Description=Heater Treater 1, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E7 VOLUME 640718.507 3546113.634 0
SO SRCPARAM 38259E7 .0002898 9.14 .47 .93
** NMED source ID=38259EQPT8 Facility's ID=HT-2
** Description=Heater Treater 2, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E8 VOLUME 640726.043 3546120.655 0
SO SRCPARAM 38259E8 .0002898 9.14 .47 .93
** NMED source ID=38259EQPT9 Facility's ID=HT-3
** Description=Heater Treater 3, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E9 VOLUME 640719.257 3546124.207 0
SO SRCPARAM 38259E9 .0002898 9.14 .47 .93
** NMED source ID=38259EQPT10 Facility's ID=HT-4
```

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** Description=Heater Treater 4, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E10 VOLUME 640711.66 3546122.115 0
SO SRCPARAM 38259E10 .0002898 9.14 .47 .93
** NMED source ID=38259EQPT11 Facility's ID=HT-5
** Description=Heater Treater 5, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E11 VOLUME 640707.419 3546115.215 0
SO SRCPARAM 38259E11 .0002898 9.14 .47 .93
** NMED source ID=38259EQPT12 Facility's ID=HT-6
** Description=Heater Treater 6, 1.0 MMBtu/hr Construction date=29-MAY-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E12 VOLUME 640709.071 3546107.061 0
SO SRCPARAM 38259E12 .0002898 9.14 .47 .93
** NMED source ID=38259EQPT36 Facility's ID=FL-1
** Description=Flare, 12.7 MMscfd Construction date=29-MAY-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38259E36 POINT 640716.02 3546102.099 0
SO SRCPARAM 38259E36 .0163797 12.19 1273 20 8.579
**********END OF 38259: Fighting Okra 18 CTB 4
INFO**********************************
**************************************************************
** 18.77km away. Facility ID=40543 Name=Marwari 21 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9678 NOI
** lat,long,datum=32.1096, -103.683375, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=40543EQPT1 Facility's ID=ENG 1
** Description=Combustion Engine Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40543E1 POINT 624218.9 3553342.921 0
SO SRCPARAM 40543E1 .0002898 4.39 790.93 14.04 .26
** NMED source ID=40543EQPT2 Facility's ID=ENG 2
** Description=Combustion Engine Construction date=15-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40543E2 POINT 624226.436 3553349.942 0
SO SRCPARAM 40543E2 .0002898 4.39 790.93 14.04 .26
```

**********END OF 40543: Marwari 21 Wellpad 1
INFO**********
**********
** 18.79km away. Facility ID=7733 Name=Mockingbird Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.160175, -103.714228, WGS84
** Total Sulfur Dioxide emissions=20.51tons/year
**********Facility sources: **********
** NMED source ID=7733EQPT2 Facility's ID=ECD-1
** Description=Enclosed Combustor Construction date=18-OCT-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E2 POINT 621240.876 3558914.368 0
SO SRCPARAM 7733E2 .00126 8.08 1033.15 3.76 1.45
** NMED source ID=7733EQPT3 Facility's ID=ECD-2
** Description=Enclosed Combustor Construction date=18-OCT-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E3 POINT 621248.412 3558921.389 0
SO SRCPARAM 7733E3 .00126 10.67 1144.26 11.8 1.68
** NMED source ID=7733EQPT4 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E4 POINT 621241.626 3558924.941 0
SO SRCPARAM 7733E4 .0982784 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT5 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E5 POINT 621234.029 3558922.849 0
SO SRCPARAM 7733E5 .0982784 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT6 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E6 POINT 621229.788 3558915.949 0
SO SRCPARAM 7733E6 .0982784 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT7 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E7 POINT 621231.44 3558907.795 0

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SO SRCPARAM 7733E7 .0982784 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT8 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E8 POINT 621238.389 3558902.833 0
SO SRCPARAM 7733E8 .0982784 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT9 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E9 POINT 621247.072 3558903.975 0
SO SRCPARAM 7733E9 .0982784 7.01 704.82 59.01 .41
** NMED source ID=7733EQPT14 Facility's ID=RBL-1
** Description=Dehydrator Reboiler Construction date=18-OCT-23
** SCC=31000301
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E14 POINT 621252.782 3558910.903 0
SO SRCPARAM 7733E14 .0005796 7.92 533.15 .23 1.07
** NMED source ID=7733EQPT19 Facility's ID=FL-1 SSM SSM
** Description=Maintenance Flare Construction date=18-OCT-23
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7733E19 POINT 621252.217 3558920.084 0
SO SRCPARAM 7733E19 .0005796 10.67 1273 20 20.806
**********END OF 7733: Mockingbird Compressor Station
INFO**********************************
************************************************************
** 18.81km away. Facility ID=40577 Name=Mesa Compressor Station
** Company ID=129 Name=BTA Oil Producers, LLC
** SIC=4922 NAIC=48621    Permit=unknown
** lat,long,datum=32.066036, -103.627368, NAD83
** Total Sulfur Dioxide emissions=.09tons/year
*****************Facility sources: ****************************
** NMED source ID=40577EQPT1 Facility's ID=ENG-1
** Description=Natural Gas Compressor Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40577E1 POINT 629564.869 3548579.438 0
SO SRCPARAM 40577E1 .00126 6.1 712.59 34.56 .46
** NMED source ID=40577EQPT2 Facility's ID=ENG-2
** Description=Natural Gas Compressor Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 40577E2 POINT 629572.405 3548586.459 0
SO SRCPARAM 40577E2 .00126 6.1 712.59 34.56 .46
** NMED source ID=40577EQPT3 Facility's ID=ENG-3
** Description=Natural Gas Compressor Engine Construction date=01-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40577E3 POINT 629565.619 3548590.011 0
SO SRCPARAM 40577E3 .00126 6.1 712.59 34.56 .46
**********END OF 40577: Mesa Compressor Station
INFO**********************************
************************************************************
** 18.82km away. Facility ID=5515 Name=Ragin Cajun 12 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.06152, -103.429692, NAD83
** Total Sulfur Dioxide emissions=11.08tons/year
*****************Facility sources: ******************************
** NMED source ID=5515EQPT1 Facility's ID=ENG 1
** Description=Engine Construction date=13-JUN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E1 POINT 648233.025 3548333.273 0
SO SRCPARAM 5515E1 .00126 5.85 772.59 37.4 .27
** NMED source ID=5515EQPT2 Facility's ID=ENG 2
** Description=Engine Construction date=13-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E2 POINT 648240.561 3548340.294 0
SO SRCPARAM 5515E2 .0002898 4.39 1000.37 17.38 .26
** NMED source ID=5515EQPT4 Facility's ID=FL-1 HP SSM
** Description=FL-1 Flare - High Pressure Side Construction date=13-JUN-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E4 POINT 648233.775 3548343.846 0
SO SRCPARAM 5515E4 .0207141 12.19 1273 20 2.632
** NMED source ID=5515EQPT5 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=13-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E5 VOLUME 648226.178 3548341.754 0
SO SRCPARAM 5515E5 .0002898 9.14 .47 .93
** NMED source ID=5515EQPT6 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=13-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E6 VOLUME 648221.937 3548334.854 0
SO SRCPARAM 5515E6 .0002898 9.14 .47 .93
** NMED source ID=5515EQPT18 Facility's ID=FL-1 LP SSM
** Description=FL-1 Flare - Low Pressure Side SSM Construction date=13-JUN-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E18 POINT 648223.589 3548326.7 0
SO SRCPARAM 5515E18 .2833569 12.19 1273 20 20.806
** NMED source ID=5515EQPT26 Facility's ID=MT 1
** Description=Microturbine 1 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E26 POINT 648230.538 3548321.738 0
SO SRCPARAM 5515E26 .00126 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT27 Facility's ID=MT 2
** Description=Microturbine 2 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E27 POINT 648239.221 3548322.88 0
SO SRCPARAM 5515E27 .00126 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT28 Facility's ID=MT 3
** Description=Microturbine 3 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E28 POINT 648244.931 3548329.808 0
SO SRCPARAM 5515E28 .00126 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT29 Facility's ID=MT 4
** Description=Microturbine 4 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E29 POINT 648244.366 3548338.989 0
SO SRCPARAM 5515E29 .00126 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT30 Facility's ID=MT 5
** Description=Microturbine 5 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E30 POINT 648237.531 3548345.467 0
SO SRCPARAM 5515E30 .00126 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT31 Facility's ID=MT 6
** Description=Microturbine 6 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 5515E31 POINT 648227.895 3548345.544 0
SO SRCPARAM 5515E31 .00126 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT32 Facility's ID=MT 7
** Description=Microturbine 7 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E32 POINT 648220.634 3548338.878 0
SO SRCPARAM 5515E32 .00126 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT33 Facility's ID=MT 8
** Description=Microturbine 8 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E33 POINT 648219.854 3548328.832 0
SO SRCPARAM 5515E33 .00126 4.02 529.26 95.74 .15
** NMED source ID=5515EQPT34 Facility's ID=MT 9
** Description=Microturbine 9 Construction date=22-NOV-23
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5515E34 POINT 648226.272 3548320.781 0
SO SRCPARAM 5515E34 .00126 4.02 529.26 95.74 .15
**********END OF 5515: Ragin Cajun 12 CTB 2
INFO**********************************
************************************************************
** 18.82km away. Facility ID=40483 Name=Magic Cat 30 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9634 NOI
** lat,long,datum=32.26893, -103.711425, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=40483EQPT1 Facility's ID=ENG 1
** Description=Engine 1 Construction date=06-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40483E1 POINT 621360.632 3570973.936 0
SO SRCPARAM 40483E1 .0002898 5.85 952.59 31.94 .27
** NMED source ID=40483EQPT2 Facility's ID=ENG 2
** Description=Engine 2 Construction date=06-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40483E2 POINT 621368.168 3570980.957 0
SO SRCPARAM 40483E2 .0002898 4.39 790.93 14.04 .26
**********END OF 40483: Magic Cat 30 Wellpad 1
INFO**********************************
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** 18.91km away. Facility ID=38474 Name=Marlan Downey 09 State
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** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.326181, -103.376765, NAD83
** Total Sulfur Dioxide emissions=.1tons/year
*****************Facility sources: ****************************
** NMED source ID=38474EQPT1 Facility's ID=GEN-1
** Description=230 hp, CI nonroad generator Construction date=27-JAN-21
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38474E1 POINT 652786.765 3577748.917 0
SO SRCPARAM 38474E1 .0002898 3.05 857.59 77.9 .09
** NMED source ID=38474EQPT12 Facility's ID=FL-1 LP
** Description=Standard Flare Construction date=07-JUN-18
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38474E12 POINT 652794.301 3577755.938 0
SO SRCPARAM 38474E12 .0005796 18.59 1273 20 20.806
** NMED source ID=38474EQPT16 Facility's ID=FL-1 HP
** Description=Standard Flare Construction date=27-OCT-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38474E16 POINT 652787.515 3577759.49 0
SO SRCPARAM 38474E16 .060479 18.59 1273 20 13.484
**********END OF 38474: Marlan Downey 09 State
INFO************************************
************************************************************
** 18.97km away. Facility ID=39627 Name=Devon - Right Meow 31 CTB 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.256125, -103.718063, NAD83
** Total Sulfur Dioxide emissions=.19tons/year
*****************Facility sources: ****************************
** NMED source ID=39627EQPT9 Facility's ID=HT-1
** Description=Heater Treater 3.0 MMBtu/hr Construction date=21-AUG-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39627E9 POINT 620752.363 3569546.897 0
SO SRCPARAM 39627E9 .0005796 9.14 888.71 9.07 .31
** NMED source ID=39627EQPT10 Facility's ID=HT-2
** Description=Heater Treater 3.0 MMBtu/hr Construction date=21-AUG-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39627E10 POINT 620759.899 3569553.918 0
SO SRCPARAM 39627E10 .0005796 9.14 888.71 9.07 .31
** NMED source ID=39627EQPT14 Facility's ID=FL-1
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** Description=15.5 MMscfd Process/Stranded Gas Flare Construction date=21-AUG-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39627E14 POINT 620753.113 3569557.47 0
SO SRCPARAM 39627E14 .0113398 12.19 1273 20 16.116
**********END OF 39627: Devon - Right Meow 31 CTB 5
INFO**********************************
************************************************************
** 18.98km away. Facility ID=38981 Name=OXY - Red Tank 19 CGL
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.361423, -103.617748, WGS84
** Total Sulfur Dioxide emissions=.38tons/year
*****************Facility sources: ******************************
** NMED source ID=38981EQPT1 Facility's ID=REB 1
** Description=Reboiler 0.75 MMBtu/hr Construction date=07-JUN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38981E1 POINT 630051.773 3581337.703 0
SO SRCPARAM 38981E1 .0002898 4.57 588.71 .12 .24
** NMED source ID=38981EQPT2 Facility's ID=REB 2
** Description=Reboiler 0.75 MMBtu/hr Construction date=07-JUN-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38981E2 POINT 630059.309 3581344.724 0
SO SRCPARAM 38981E2 .0002898 4.57 588.71 .12 .24
** NMED source ID=38981EQPT5 Facility's ID=ENG-1/ COMP-1
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8315hr/yr, 24hr/day
SO LOCATION 38981E5 POINT 630052.523 3581348.276 0
SO SRCPARAM 38981E5 .00126 4.57 725.93 39.2 .34
** NMED source ID=38981EQPT10 Facility's ID=ENG-6/ COMP-6
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8100hr/yr, 24hr/day
SO LOCATION 38981E10 POINT 630044.926 3581346.184 0
SO SRCPARAM 38981E10 .00126 4.57 725.93 39.2 .34
** NMED source ID=38981EQPT9 Facility's ID=ENG-5/ COMP-5
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8175hr/yr, 24hr/day
SO LOCATION 38981E9 POINT 630040.685 3581339.284 0
SO SRCPARAM 38981E9 .00126 4.57 725.93 39.2 .34
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** NMED source ID=38981EQPT6 Facility's ID=ENG-2/ COMP-2
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8206hr/yr, 24hr/day
SO LOCATION 38981E6 POINT 630042.337 3581331.13 0
SO SRCPARAM 38981E6 .00126 4.57 725.93 39.2 .34
** NMED source ID=38981EQPT7 Facility's ID=ENG-3/ COMP-3
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8495hr/yr, 24hr/day
SO LOCATION 38981E7 POINT 630049.286 3581326.168 0
SO SRCPARAM 38981E7 .00126 4.57 725.93 39.2 .34
** NMED source ID=38981EQPT8 Facility's ID=ENG-4/ COMP-4
** Description=Compressor Engine CAT G3516J 1380-hp Construction date=07-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8279hr/yr, 24hr/day
SO LOCATION 38981E8 POINT 630057.969 3581327.31 0
SO SRCPARAM 38981E8 .00126 4.57 725.93 39.2 .34
**********END OF 38981: OXY - Red Tank 19 CGL
INFO**********************************
************************************************************
** 19.07km away. Facility ID=39821 Name=Cimarex - Red Tank 3 Fed 14H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3272, -103.67225, WGS84
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=39821EQPT3 Facility's ID=H1
** Description=2.0 MMBtu/hr Heater Treater Construction date=15-JAN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39821E3 VOLUME 624970.494 3577478.767 0
SO SRCPARAM 39821E3 .0002898 4.57 .47 .93
**********END OF 39821: Cimarex - Red Tank 3 Fed 14H
INFO**********************************
************************************************************
** 19.12km away. Facility ID=40942 Name=FMM West Pad
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=9900 NPR
** lat,long,datum=32.17888, -103.32444, NAD83
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=40942EQPT1 Facility's ID=GEN1
** Description=Generator #1 Construction date=05-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40942E1 POINT 657967.38 3561493.877 0
SO SRCPARAM 40942E1 .00126 4.57 810.93 9.97 .23
** NMED source ID=40942EQPT2 Facility's ID=GEN2
** Description=Generator #2 Construction date=05-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40942E2 POINT 657974.916 3561500.898 0
SO SRCPARAM 40942E2 .00126 4.57 810.93 9.97 .23
**********END OF 40942: FMM West Pad INFO**********************************
************************************************************
** 19.2km away. Facility ID=35603 Name=Cotton Draw Unit 7 CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6327 NOI
** lat,long,datum=32.151428, -103.715314, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=35603EQPT40 Facility's ID=21
** Description=Flare 1_EQ000172464 Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35603E40 POINT 621150.039 3557943.476 0
SO SRCPARAM 35603E40 .00126 12.19 1273 20 3.604
** NMED source ID=35603EQPT55 Facility's ID=21 SSM
** Description=Flare 1_EQ000172464 Construction date=03-AUG-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35603E55 POINT 621157.575 3557950.497 0
SO SRCPARAM 35603E55 .0002898 12.19 1273 20 20.806
**********END OF 35603: Cotton Draw Unit 7 CTB
INFO**********************************
************************************************************
** 19.21km away. Facility ID=41034 Name=Big Cat 9 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.323588, -103.67804, NAD83
** Total Sulfur Dioxide emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=41034EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=17-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E1 POINT 624430.427 3577071.597 0
SO SRCPARAM 41034E1 .0005796 5.85 723.71 34.47 .27
** NMED source ID=41034EQPT3 Facility's ID=FL-1 HP SSM
** Description=Flare 1 HP Construction date=17-MAY-23
```

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** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E3 POINT 624437.963 3577078.618 0
SO SRCPARAM 41034E3 .0002898 12.19 1273 20 4.652
** NMED source ID=41034EQPT4 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=17-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E4 VOLUME 624431.177 3577082.17 0
SO SRCPARAM 41034E4 .00126 9.14 .47 .93
** NMED source ID=41034EQPT13 Facility's ID=FL-1 LP SSM
** Description=Flare 1 Low Pressure Side Construction date=17-MAY-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E13 POINT 624423.58 3577080.078 0
SO SRCPARAM 41034E13 .0005796 12.19 1273 20 20.806
** NMED source ID=41034EQPT15 Facility's ID=ENG 2
** Description=ENG 2 Generator Engine Construction date=07-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E15 POINT 624419.339 3577073.178 0
SO SRCPARAM 41034E15 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=41034EQPT16 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=07-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E16 POINT 624420.991 3577065.024 0
SO SRCPARAM 41034E16 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=41034EQPT17 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=07-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41034E17 POINT 624427.94 3577060.062 0
SO SRCPARAM 41034E17 .0002898 3.17 1005.37 77.48 .15
**********END OF 41034: Big Cat 9 CTB 2 INFO**********************************
************************************************************
** 19.26km away. Facility ID=40044 Name=Garfield Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.264087, -103.718448, WGS84
** Total Sulfur Dioxide emissions=.13tons/year
****************Facility sources: ****************************
** NMED source ID=40044EQPT5 Facility's ID=GEN-1
** Description=Generator, 449 hp, PSI HD 14.6 L Construction date=20-DEC-21
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40044E5 POINT 620705.555 3570429.123 0
SO SRCPARAM 40044E5 .0002898 3.05 1023.15 102.72 .1
** NMED source ID=40044EQPT14 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=13-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40044E14 POINT 620713.091 3570436.144 0
SO SRCPARAM 40044E14 .00126 7.32 812.04 26.8 .38
** NMED source ID=40044EQPT15 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=13-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40044E15 POINT 620706.305 3570439.696 0
SO SRCPARAM 40044E15 .00126 7.32 812.04 26.8 .38
** NMED source ID=40044EQPT16 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=13-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40044E16 POINT 620698.708 3570437.604 0
SO SRCPARAM 40044E16 .00126 7.32 812.04 26.8 .38
** NMED source ID=40044EQPT17 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=13-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40044E17 POINT 620694.467 3570430.704 0
SO SRCPARAM 40044E17 .00126 7.32 812.04 26.8 .38
**********END OF 40044: Garfield Booster Station
INFO**********************************
************************************************************
** 19.27km away. Facility ID=40940 Name=FMM East Pad
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=9899 NPR
** lat,long,datum=32.17227, -103.32444, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=40940EQPT1 Facility's ID=NGGEN-1
** Description=NG Generator Engine #1 Construction date=06-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40940E1 POINT 657978.796 3560761.051 0
SO SRCPARAM 40940E1 .0002898 4.57 810.93 9.97 .23
** NMED source ID=40940EQPT2 Facility's ID=NGGEN-2
```

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** Description=NG Generator Engine #2 Construction date=06-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40940E2 POINT 657986.332 3560768.072 0
SO SRCPARAM 40940E2 .0002898 4.57 810.93 9.97 .23
**********END OF 40940: FMM East Pad INFO**********************************
************************************************************
** 19.31km away. Facility ID=9292 Name=Ragin Cajun 12 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.061393, -103.419267, NAD83
** Total Sulfur Dioxide emissions=25.27tons/year
*****************Facility sources: ****************************
** NMED source ID=9292EQPT3 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E3 POINT 649217.433 3548333.564 0
SO SRCPARAM 9292E3 .00126 6.28 873.71 25.31 .41
** NMED source ID=9292EQPT4 Facility's ID=ENG 2
** Description=ENG 2 Gas Lift Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E4 POINT 649224.969 3548340.585 0
SO SRCPARAM 9292E4 .0002898 3.51 1000.37 71.17 .13
** NMED source ID=9292EQPT5 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E5 POINT 649218.183 3548344.137 0
SO SRCPARAM 9292E5 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=9292EQPT6 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E6 POINT 649210.586 3548342.045 0
SO SRCPARAM 9292E6 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=9292EQPT7 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E7 POINT 649206.345 3548335.145 0
SO SRCPARAM 9292E7 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=9292EQPT8 Facility's ID=ENG 6
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** Description=ENG 6 Generator Engine Construction date=12-JAN-24
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E8 POINT 649207.997 3548326.991 0
SO SRCPARAM 9292E8 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=9292EQPT10 Facility's ID=FL-1 HP SSM
** Description=Flare 1 High Pressure Side Construction date=12-JAN-24
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E10 POINT 649214.946 3548322.029 0
SO SRCPARAM 9292E10 .0169719 12.19 1273 20 2.632
** NMED source ID=9292EQPT11 Facility's ID=FL-1 LP SSM
** Description=Flare 1 Low Pressure Side SSM Construction date=12-JAN-24
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E11 POINT 649223.629 3548323.171 0
SO SRCPARAM 9292E11 .2778886 12.19 1273 20 20.806
** NMED source ID=9292EQPT12 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=12-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E12 VOLUME 649229.339 3548330.099 0
SO SRCPARAM 9292E12 .2154566 9.14 .47 .93
** NMED source ID=9292EQPT13 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=12-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9292E13 VOLUME 649228.774 3548339.28 0
SO SRCPARAM 9292E13 .2154566 9.14 .47 .93
**********END OF 9292: Ragin Cajun 12 CTB 3
INFO**********************************
************************************************************
** 19.33km away. Facility ID=40185 Name=Golden Tee CTB
** Company ID=14056 Name=Avant Natural Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.354501, -103.4091, NAD83
** Total Sulfur Dioxide emissions=94.69tons/year
*****************Facility sources: ****************************
** NMED source ID=40185EQPT3 Facility's ID=FL-1 LP
** Description=Standard Flare Construction date=22-OCT-21
** SCC=unknown
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40185E3 POINT 649696.249 3580842.999 0
SO SRCPARAM 40185E3 .2015968 12.19 1273 20 2.632
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** NMED source ID=40185EQPT4 Facility's ID=FL-1 HP
** Description=Standard Flare Construction date=22-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40185E4 POINT 649703.785 3580850.02 0
SO SRCPARAM 40185E4 2.52248 12.19 1273 20 20.806
**********END OF 40185: Golden Tee CTB INFO************************************
************************************************************
** 19.34km away. Facility ID=38766 Name=Devon - Marwari 28 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1059, -103.687698, NAD83
** Total Sulfur Dioxide emissions=.36tons/year
*****************Facility sources: ****************************
** NMED source ID=38766EQPT9 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater Construction date=10-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2208hr/yr, 24hr/day
SO LOCATION 38766E9 VOLUME 623816.003 3552927.775 0
SO SRCPARAM 38766E9 .00126 9.14 .47 .93
** NMED source ID=38766EQPT10 Facility's ID=FL-1
** Description=15.5 MMscfd process & SSM Flare Construction date=10-JAN-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2208hr/yr, 24hr/day
SO LOCATION 38766E10 POINT 623823.539 3552934.796 0
SO SRCPARAM 38766E10 .0113398 12.19 1273 20 13.484
** NMED source ID=38766EQPT16 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater Treater Construction date=17-MAR-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2208hr/yr, 24hr/day
SO LOCATION 38766E16 VOLUME 623816.753 3552938.348 0
SO SRCPARAM 38766E16 .00126 9.14 .47 .93
**********END OF 38766: Devon - Marwari 28 CTB 1
INFO**********************************
************************************************************
** 19.4km away. Facility ID=39294 Name=Van Mar Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.0996, -103.6827, WGS84
** Total Sulfur Dioxide emissions=.92tons/year
*****************Facility sources: ****************************
** NMED source ID=39294EQPT1 Facility's ID=ENG-1
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4172hr/yr, 24hr/day
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SO LOCATION 39294E1 POINT 624296.137 3552235.128 0
SO SRCPARAM 39294E1 .00252 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT2 Facility's ID=ENG-2
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4321hr/yr, 24hr/day
SO LOCATION 39294E2 POINT 624303.673 3552242.149 0
SO SRCPARAM 39294E2 .00252 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT3 Facility's ID=ENG-3
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4415hr/yr, 24hr/day
SO LOCATION 39294E3 POINT 624296.887 3552245.701 0
SO SRCPARAM 39294E3 .00252 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT4 Facility's ID=ENG-4
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3984hr/yr, 24hr/day
SO LOCATION 39294E4 POINT 624289.29 3552243.609 0
SO SRCPARAM 39294E4 .00252 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT5 Facility's ID=ENG-5
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39294E5 POINT 624285.049 3552236.709 0
SO SRCPARAM 39294E5 .00252 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT6 Facility's ID=ENG-6
** Description=2500 hp, 4SLB Caterpillar 3608 Construction date=11-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39294E6 POINT 624286.701 3552228.555 0
SO SRCPARAM 39294E6 .00252 8.32 729.26 32.06 .55
** NMED source ID=39294EQPT14 Facility's ID=RBL-1
** Description=0.64 MMBtu/hr TEG dehy reboiler Construction date=11-JAN-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4415hr/yr, 24hr/day
SO LOCATION 39294E14 POINT 624293.65 3552223.593 0
SO SRCPARAM 39294E14 .0113398 7 588.71 1.1 .3
**********END OF 39294: Van Mar Compressor Station
INFO***********************************
************************************************************
** 19.42km away. Facility ID=39990 Name=Blondie 15 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
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** lat,long,datum=32.046132, -103.454927, NAD83
** Total Sulfur Dioxide emissions=.09tons/year
*****************Facility sources: ****************************
** NMED source ID=39990EQPT10 Facility's ID=FL-1 LP
** Description=Flare 1 Low Pressure Side Construction date=07-JUN-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39990E10 POINT 645875.07 3546592.952 0
SO SRCPARAM 39990E10 .0188997 12.19 1273 20 3.604
** NMED source ID=39990EQPT16 Facility's ID=HT-1
** Description=Heater Treater 1 EQ000770232 Construction date=17-JAN-24
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39990E16 VOLUME 645882.606 3546599.973 0
SO SRCPARAM 39990E16 .00126 9.14 .47 .93
**********END OF 39990: Blondie 15 CTB 3 INFO************************************
************************************************************
** 19.51km away. Facility ID=39153 Name=Harrier Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.068444, -103.645064, NAD83
** Total Sulfur Dioxide emissions=4.1tons/year
*****************Facility sources: ****************************
** NMED source ID=39153EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E2 POINT 627891.026 3548825.268 0
SO SRCPARAM 39153E2 .0251996 7.01 714.26 75.65 .36
** NMED source ID=39153EQPT3 Facility's ID=RBL-1
** Description=Dehydrator Reboiler Construction date=24-SEP-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8499hr/yr, 23hr/day
SO LOCATION 39153E3 POINT 627898.562 3548832.289 0
SO SRCPARAM 39153E3 .00126 3.05 588.71 2.59 .3
** NMED source ID=39153EQPT6 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E6 POINT 627891.776 3548835.841 0
SO SRCPARAM 39153E6 .0251996 7.01 714.26 75.65 .36
** NMED source ID=39153EQPT7 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8240hr/yr, 23hr/day
SO LOCATION 39153E7 POINT 627884.179 3548833.749 0
SO SRCPARAM 39153E7 .0125998 7.01 707.04 34.02 .46
** NMED source ID=39153EQPT8 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8339hr/yr, 23hr/day
SO LOCATION 39153E8 POINT 627879.938 3548826.849 0
SO SRCPARAM 39153E8 .0125998 7.01 707.04 34.02 .46
** NMED source ID=39153EQPT9 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E9 POINT 627881.59 3548818.695 0
SO SRCPARAM 39153E9 .0125998 7.01 707.04 34.02 .46
** NMED source ID=39153EQPT10 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E10 POINT 627888.539 3548813.733 0
SO SRCPARAM 39153E10 .0125998 7.01 707.04 34.02 .46
** NMED source ID=39153EQPT12 Facility's ID=Reb-2
** Description=Dehydrator Reboiler Construction date=24-SEP-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39153E12 POINT 627897.222 3548814.875 0
SO SRCPARAM 39153E12 .00126 3.05 588.71 2.59 .3
**********END OF 39153: Harrier Compressor Station
INFO**********************************
************************************************************
** 19.53km away. Facility ID=38648 Name=Devon - Alley Cat 17 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.308509, -103.695964, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=38648EQPT16 Facility's ID=GEN-1
** Description=Generator 1 Doosan PSI 21.9LNGP 550 HP Construction date=14-JAN-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6144hr/yr, 24hr/day
SO LOCATION 38648E16 POINT 622763.534 3575379.255 0
SO SRCPARAM 38648E16 .0002898 2.99 1005.37 215.19 .09
** NMED source ID=38648EQPT17 Facility's ID=GEN-2
** Description=Generator 2 Doosan PSI 21.9LNGP 550 HP Construction date=14-JAN-18
** SCC=20200253
```

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6144hr/yr, 24hr/day
SO LOCATION 38648E17 POINT 622771.07 3575386.276 0
SO SRCPARAM 38648E17 .0002898 2.99 1005.37 215.19 .09
**********END OF 38648: Devon - Alley Cat 17 CTB 3
INFO**********************************
************************************************************
** 19.54km away. Facility ID=40966 Name=Railsplitter 15 Wellpad 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9912 NOI
** lat,long,datum=32.042342, -103.464759, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=40966EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=06-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40966E1 POINT 644952.678 3546159.545 0
SO SRCPARAM 40966E1 .0002898 5.85 723.71 34.44 .27
**********END OF 40966: Railsplitter 15 Wellpad 6
INFO**********************************
************************************************************
** 19.56km away. Facility ID=30337 Name=Trionyx 6 Fed 1 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4442 NOI
** lat,long,datum=32.152656, -103.71995, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=30337EQPT13 Facility's ID=ECD-1
** Description=ECD-1_EQ000111990 Construction date=01-FEB-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 30337E13 POINT 620711.199 3558074.4 0
SO SRCPARAM 30337E13 .00126 6.1 1422.04 .18 .91
** NMED source ID=30337EQPT17 Facility's ID=FL-1 SSM
** Description=Flare 1_EQ000111798 Construction date=01-OCT-11
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 30337E17 POINT 620718.735 3558081.421 0
SO SRCPARAM 30337E17 .0002898 6.1 1273 20 20.806
**********END OF 30337: Trionyx 6 Fed 1 Battery
INFO**********************************
************************************************************
** 19.58km away. Facility ID=39379 Name=Winnebago 30 State Com CTB No1 and No2
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.357364, -103.409222, NAD83
```

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** Total Sulfur Dioxide emissions=1.47tons/year
*****************Facility sources: ****************************
** NMED source ID=39379EQPT11 Facility's ID=FL-1
** Description=Dual Tip Flare Construction date=26-FEB-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39379E11 POINT 649680.05 3581160.241 0
SO SRCPARAM 39379E11 .4460329 18.29 1273 20 2.632
** NMED source ID=39379EQPT16 Facility's ID=HTR-1
** Description=Heater Treater - CTB 1 Construction date=08-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7152hr/yr, 24hr/day
SO LOCATION 39379E16 VOLUME 649687.586 3581167.262 0
SO SRCPARAM 39379E16 .0002898 4.88 .47 .93
** NMED source ID=39379EQPT18 Facility's ID=FL-2
** Description=Tri-Tip Flare Construction date=09-DEC-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379E18 POINT 649680.8 3581170.814 0
SO SRCPARAM 39379E18 1.8962699 12.19 1273 20 2.632
** NMED source ID=39379EQPT20 Facility's ID=HTR-2
** Description=Heater Treater - CTB 2 Construction date=09-DEC-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379E20 VOLUME 649673.203 3581168.722 0
SO SRCPARAM 39379E20 .0002898 4.88 .47 .93
** NMED source ID=39379EQPT27 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=16-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39379E27 POINT 649668.962 3581161.822 0
SO SRCPARAM 39379E27 .00126 7.32 910.37 37.8 .36
**********END OF 39379: Winnebago 30 State Com CTB No1 and No2
INFO**********************************
************************************************************
** 19.6km away. Facility ID=40444 Name=Todd 36 Wellpad 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9606 NOI
** lat,long,datum=32.254405, -103.725426, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=40444EQPT3 Facility's ID=ENG-1
** Description=ENG 1 Construction date=26-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40444E3 POINT 620061.018 3569347.959 0
SO SRCPARAM 40444E3 .0002898 5.58 812.59 35.45 .2
** NMED source ID=40444EQPT4 Facility's ID=ENG-2
** Description=ENG 2 Construction date=26-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40444E4 POINT 620068.554 3569354.98 0
SO SRCPARAM 40444E4 .0002898 4.39 778.71 13.8 .26
**********END OF 40444: Todd 36 Wellpad 4 INFO************************************
************************************************************
** 19.6km away. Facility ID=41040 Name=Stray Cat 8 CTB 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.314883, -103.691626, NAD83
** Total Sulfur Dioxide emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=41040EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=27-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41040E1 POINT 623163.322 3576090.857 0
SO SRCPARAM 41040E1 .0002898 5.85 723.71 34.47 .27
** NMED source ID=41040EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Engine Construction date=27-APR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41040E2 POINT 623170.858 3576097.878 0
SO SRCPARAM 41040E2 .00126 5.85 772.59 37.4 .27
** NMED source ID=41040EQPT5 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=27-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41040E5 VOLUME 623164.072 3576101.43 0
SO SRCPARAM 41040E5 .0002898 9.14 .47 .93
** NMED source ID=41040EQPT6 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=27-APR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41040E6 VOLUME 623156.475 3576099.338 0
SO SRCPARAM 41040E6 .0002898 9.14 .47 .93
**********END OF 41040: Stray Cat 8 CTB 5 INFO************************************
************************************************************
** 19.67km away. Facility ID=40967 Name=Railsplitter 15 Wellpad 7
** Company ID=1516 Name=Devon Energy Production Company LP
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** SIC=1311 NAIC=21112    Permit=9913 NOI
** lat,long,datum=32.041833, -103.46205, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=40967EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=14-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40967E1 POINT 645209.284 3546106.758 0
SO SRCPARAM 40967E1 .0002898 5.85 723.71 34.44 .27
**********END OF 40967: Railsplitter 15 Wellpad 7
INFO**********************************
************************************************************
** 19.69km away. Facility ID=39395 Name=Murphy Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257753, -103.725422, NAD83
** Total Sulfur Dioxide emissions=.25tons/year
*****************Facility sources: ******************************
** NMED source ID=39395EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=05-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3319hr/yr, 24hr/day
SO LOCATION 39395E1 POINT 620056.987 3569719.119 0
SO SRCPARAM 39395E1 .00126 7.32 813.71 35.11 .38
** NMED source ID=39395EQPT2 Facility's ID=GEN-1
** Description=362 hp Gravity NG250 Construction date=05-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E2 POINT 620064.523 3569726.14 0
SO SRCPARAM 39395E2 .0002898 3.15 1005.37 110.34 .1
** NMED source ID=39395EQPT4 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=05-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5668hr/yr, 24hr/day
SO LOCATION 39395E4 POINT 620057.737 3569729.692 0
SO SRCPARAM 39395E4 .00126 7.32 813.71 35.11 .38
** NMED source ID=39395EQPT5 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=05-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5026hr/yr, 24hr/day
SO LOCATION 39395E5 POINT 620050.14 3569727.6 0
SO SRCPARAM 39395E5 .00126 7.32 813.71 35.11 .38
** NMED source ID=39395EQPT6 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=05-MAR-20
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E6 POINT 620045.899 3569720.7 0
SO SRCPARAM 39395E6 .00126 7.32 813.71 35.11 .38
** NMED source ID=39395EQPT7 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=05-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E7 POINT 620047.551 3569712.546 0
SO SRCPARAM 39395E7 .00126 7.32 813.71 35.11 .38
** NMED source ID=39395EQPT9 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=18-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E9 POINT 620054.5 3569707.584 0
SO SRCPARAM 39395E9 .00126 7.32 710.37 48.52 .38
** NMED source ID=39395EQPT10 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=18-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E10 POINT 620063.183 3569708.726 0
SO SRCPARAM 39395E10 .00126 7.32 710.37 48.52 .38
** NMED source ID=39395EQPT11 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=18-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39395E11 POINT 620068.893 3569715.654 0
SO SRCPARAM 39395E11 .00126 7.32 710.37 48.52 .38
**********END OF 39395: Murphy Booster Station
INFO**********************************
************************************************************
** 19.7km away. Facility ID=38122 Name=James 19 Federal 31H, 34H, 20-29 Fed 37H-39H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.2974, -103.706275, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=38122EQPT23 Facility's ID=H1
** Description=2.0 MMBTU Heater Treater Construction date=11-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38122E23 VOLUME 621807.635 3574135.948 0
SO SRCPARAM 38122E23 .0002898 4.57 .47 .93
** NMED source ID=38122EQPT24 Facility's ID=H2
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** Description=2.0 MMBTU Heater Treater Construction date=11-JAN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38122E24 VOLUME 621815.171 3574142.969 0
SO SRCPARAM 38122E24 .0002898 4.57 .47 .93
**********END OF 38122: James 19 Federal 31H, 34H, 20-29 Fed 37H-39H
INFO**********************************
************************************************************
** 19.72km away. Facility ID=758 Name=Cotton Draw Treater
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21113    Permit=2188 GCP4
** lat,long,datum=32.136589, -103.714068, Unknown
** Total Sulfur Dioxide emissions=23.8tons/year
*****************Facility sources: ******************************
** NMED source ID=758EQPT10 Facility's ID=RTO
** Description=RTO controls units Amine 1 Acid Gas and Flash Gas Construction
date=06-MAR-13
** SCC=31000209
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 758E10 POINT 621287.196 3556299.869 0
SO SRCPARAM 758E10 .6841691 7 1116.48 28 .3
**********END OF 758: Cotton Draw Treater INFO**********************************
************************************************************
** 19.76km away. Facility ID=35528 Name=Devon - Cotton Draw Unit 25 Bone Spring CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1876, -103.731956, NAD83
** Total Sulfur Dioxide emissions=.22tons/year
*****************Facility sources: ******************************
** NMED source ID=35528EQPT2 Facility's ID=10
** Description=Heater Treater 1 Construction date=02-AUG-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35528E2 POINT 619533.273 3561934.796 0
SO SRCPARAM 35528E2 .0002898 9.14 708.71 2.82 .34
** NMED source ID=35528EQPT3 Facility's ID=9
** Description=Heater Treater 2 Construction date=02-AUG-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35528E3 POINT 619540.809 3561941.817 0
SO SRCPARAM 35528E3 .0002898 9.14 708.71 2.82 .34
** NMED source ID=35528EQPT5 Facility's ID=19
** Description=Flare Construction date=02-AUG-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
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SO LOCATION 35528E5 POINT 619534.023 3561945.369 0
SO SRCPARAM 35528E5 .0100798 12.19 1273 20 12.132
** NMED source ID=35528EQPT19 Facility's ID=44
** Description=Heater Treater 3 Construction date=02-AUG-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35528E19 POINT 619526.426 3561943.277 0
SO SRCPARAM 35528E19 .0002898 9.14 708.71 2.82 .34
**********END OF 35528: Devon - Cotton Draw Unit 25 Bone Spring CTB
INFO**********************************
************************************************************
** 19.79km away. Facility ID=40452 Name=Salado Draw 16-9 South Battery No1
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.037731, -103.573011, WGS84
** Total Sulfur Dioxide emissions=.03tons/year
****************Facility sources: ****************************
** NMED source ID=40452EQPT3 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=25-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E3 POINT 634737.65 3545508.157 0
SO SRCPARAM 40452E3 .0002898 6.17 695.37 37.61 .25
** NMED source ID=40452EQPT45 Facility's ID=GEN-01
** Description=Generator   Engine Construction date=11-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E45 POINT 634745.186 3545515.178 0
SO SRCPARAM 40452E45 .0002898 4.51 840.37 177.36 .09
** NMED source ID=40452EQPT46 Facility's ID=GEN-02
** Description=Generator   Engine Construction date=11-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40452E46 POINT 634738.4 3545518.73 0
SO SRCPARAM 40452E46 .0002898 4.51 840.37 177.36 .09
**********END OF 40452: Salado Draw 16-9 South Battery No1
INFO**********************************
************************************************************
** 19.81km away. Facility ID=40969 Name=Railsplitter 15 Wellpad 9
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9914 NOI
** lat,long,datum=32.042597, -103.454508, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
****************Facility sources: ****************************
** NMED source ID=40969EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=14-MAR-23
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40969E1 POINT 645920.244 3546201.625 0
SO SRCPARAM 40969E1 .0002898 5.85 723.71 34.44 .27
** NMED source ID=40969EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=14-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40969E2 POINT 645927.78 3546208.646 0
SO SRCPARAM 40969E2 .0002898 4.39 778.71 13.8 .26
**********END OF 40969: Railsplitter 15 Wellpad 9
INFO**********************************
************************************************************
** 19.86km away. Facility ID=40448 Name=Right Meow 30 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9614 NOI
** lat,long,datum=32.281673, -103.71733, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=40448EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Construction date=04-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40448E1 POINT 620787.556 3572379.952 0
SO SRCPARAM 40448E1 .0002898 5.85 952.59 31.94 .27
** NMED source ID=40448EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Construction date=04-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40448E2 POINT 620795.092 3572386.973 0
SO SRCPARAM 40448E2 .0002898 4.39 790.93 14.04 .26
**********END OF 40448: Right Meow 30 Wellpad 2
INFO**********************************
************************************************************
** 19.88km away. Facility ID=31968 Name=Gaucho Unit 6H CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4928 NOI
** lat,long,datum=32.386111, -103.485261, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=31968EQPT4 Facility's ID=ECD-1
** Description=Flare 1_EQ000067075 Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8664hr/yr, 24hr/day
SO LOCATION 31968E4 POINT 642479.503 3584243.486 0
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SO SRCPARAM 31968E4 .0037799 6.1 1273 20 2.632
** NMED source ID=31968EQPT12 Facility's ID=Flare 1_7070 SSM
** Description=Flare 1_EQ000067070 Construction date=01-MAY-17
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31968E12 POINT 642487.039 3584250.507 0
SO SRCPARAM 31968E12 .0005796 6.1 1273 20 20.806
**********END OF 31968: Gaucho Unit 6H CTB INFO************************************
************************************************************
** 19.96km away. Facility ID=39735 Name=Devon - Railsplitter 15 CTB 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.039653, -103.459704, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=39735EQPT10 Facility's ID=HT-1
** Description=heater treater 1 Construction date=06-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39735E10 VOLUME 645434.258 3545868.239 0
SO SRCPARAM 39735E10 .0002898 9.14 .47 .93
** NMED source ID=39735EQPT11 Facility's ID=HT-2
** Description=heater treater 2 Construction date=06-NOV-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39735E11 VOLUME 645441.794 3545875.26 0
SO SRCPARAM 39735E11 .0002898 9.14 .47 .93
** NMED source ID=39735EQPT16 Facility's ID=FL-1
** Description=dual pressure (LP & HP), dual tip flare Construction date=06-NOV-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39735E16 POINT 645435.008 3545878.812 0
SO SRCPARAM 39735E16 .00126 12.19 1273 20 14.712
**********END OF 39735: Devon - Railsplitter 15 CTB 6
INFO**********************************
************************************************************
** 19.96km away. Facility ID=39295 Name=Devon - Todd 36 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257308, -103.728556, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=39295EQPT9 Facility's ID=HT-1
** Description=3.0 MMBtu/h Heater Treater Construction date=31-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
```

```
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39295E9 VOLUME 619762.348 3569666.285 0
SO SRCPARAM 39295E9 .00126 9.14 .47 .93
** NMED source ID=39295EQPT10 Facility's ID=HT-2
** Description=3.0 MMBtu/h Heater Treater Construction date=31-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39295E10 VOLUME 619769.884 3569673.306 0
SO SRCPARAM 39295E10 .00126 9.14 .47 .93
** NMED source ID=39295EQPT13 Facility's ID=GEN-1
** Description=Doosan 21.9L Generator 550 hp Construction date=31-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39295E13 POINT 619763.098 3569676.858 0
SO SRCPARAM 39295E13 .0002898 3.51 1005.37 215.24 .09
** NMED source ID=39295EQPT14 Facility's ID=GEN-4
** Description=Doosan 21.9L Generator 550 hp Construction date=31-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39295E14 POINT 619755.501 3569674.766 0
SO SRCPARAM 39295E14 .0002898 3.51 1005.37 215.24 .09
** NMED source ID=39295EQPT15 Facility's ID=GEN-2
** Description=Doosan 14.6L Generator 362 hp Construction date=31-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39295E15 POINT 619751.26 3569667.866 0
SO SRCPARAM 39295E15 .0002898 3.51 1005.37 136.19 .09
** NMED source ID=39295EQPT16 Facility's ID=GEN-3
** Description=Doosan 14.6L Generator 362 hp Construction date=31-DEC-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39295E16 POINT 619752.912 3569659.712 0
SO SRCPARAM 39295E16 .0002898 3.51 1005.37 136.19 .09
**********END OF 39295: Devon - Todd 36 CTB 3
INFO***********************************
************************************************************
** 19.99km away. Facility ID=38973 Name=Jennings 34 W1MD Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=8318 NOI
** lat,long,datum=32.079202, -103.668447, WGS84
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=38973EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=01-JAN-20
** SCC=31000312
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38973E1 POINT 625669.032 3549990.387 0
SO SRCPARAM 38973E1 .0002898 4.11 894.82 36.52 .13
**********END OF 38973: Jennings 34 W1MD Fed Com 1H Battery
INFO**********************************
************************************************************
** 20.03km away. Facility ID=39457 Name=Todd 36 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.254986, -103.729986, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=39457EQPT2 Facility's ID=ENG 1
** Description=Engine 1_EQ000641104 Cummins KTA19 380hp Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4128hr/yr, 24hr/day
SO LOCATION 39457E2 POINT 619630.687 3569407.277 0
SO SRCPARAM 39457E2 .0002898 4.39 1004.26 17.56 .26
** NMED source ID=39457EQPT4 Facility's ID=ENG 4
** Description=Cummins GTA38 760hp Construction date=30-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39457E4 POINT 619638.223 3569414.298 0
SO SRCPARAM 39457E4 .0002898 5.85 952.59 31.94 .27
**********END OF 39457: Todd 36 Wellpad 3 INFO**********************************
************************************************************
** 20.04km away. Facility ID=8248 Name=Coriander Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.3643, -103.63459, NAD83
** Total Sulfur Dioxide emissions=1.97tons/year
*****************Facility sources: ******************************
** NMED source ID=8248EQPT2 Facility's ID=E-1
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E2 POINT 628462.963 3581636.311 0
SO SRCPARAM 8248E2 .00126 6.52 689.26 26.34 .61
** NMED source ID=8248EQPT3 Facility's ID=E-2
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E3 POINT 628470.499 3581643.332 0
SO SRCPARAM 8248E3 .00126 6.52 689.26 26.34 .61
** NMED source ID=8248EQPT4 Facility's ID=E-3
```

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** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E4 POINT 628463.713 3581646.884 0
SO SRCPARAM 8248E4 .00126 6.52 689.26 26.34 .61
** NMED source ID=8248EQPT5 Facility's ID=E-4
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E5 POINT 628456.116 3581644.792 0
SO SRCPARAM 8248E5 .00126 6.52 698.15 28.4 .51
** NMED source ID=8248EQPT6 Facility's ID=E-5
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E6 POINT 628451.875 3581637.892 0
SO SRCPARAM 8248E6 .00126 6.52 698.15 28.4 .51
** NMED source ID=8248EQPT7 Facility's ID=E-6
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E7 POINT 628453.527 3581629.738 0
SO SRCPARAM 8248E7 .00126 6.52 698.15 28.4 .51
** NMED source ID=8248EQPT8 Facility's ID=E-7
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E8 POINT 628460.476 3581624.776 0
SO SRCPARAM 8248E8 .00126 6.52 698.15 28.4 .51
** NMED source ID=8248EQPT9 Facility's ID=ECD
** Description=Combustor Construction date=13-DEC-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E9 POINT 628469.159 3581625.918 0
SO SRCPARAM 8248E9 .0352794 6.1 1033.15 .3 1.19
** NMED source ID=8248EQPT10 Facility's ID=GEN-1
** Description=Generator Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E10 POINT 628474.869 3581632.846 0
SO SRCPARAM 8248E10 .0002898 1.8 572.59 15 .09
** NMED source ID=8248EQPT11 Facility's ID=H-1
** Description=H-1 Construction date=13-DEC-23
```

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** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8248E11 POINT 628474.304 3581642.027 0
SO SRCPARAM 8248E11 .0125998 4.72 477.59 8.33 .23
**********END OF 8248: Coriander Compressor Station
INFO**********************************
************************************************************
** 20.05km away. Facility ID=38154 Name=Ophelia 22 West CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0343, -103.5677, WGS84
** Total Sulfur Dioxide emissions=.19tons/year
*****************Facility sources: ****************************
** NMED source ID=38154EQPT5 Facility's ID=FL-2
** Description=Emerg  Flare Construction date=11-MAR-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38154E5 POINT 635244.21 3545134.441 0
SO SRCPARAM 38154E5 .00126 18.29 1273 20 2.632
** NMED source ID=38154EQPT6 Facility's ID=HTR-1
** Description=Heater Treater Construction date=11-MAR-22
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38154E6 VOLUME 635251.746 3545141.462 0
SO SRCPARAM 38154E6 .0002898 7.32 .47 .93
** NMED source ID=38154EQPT20 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=11-MAR-22
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38154E20 POINT 635244.96 3545145.014 0
SO SRCPARAM 38154E20 .0034523 12.19 1273 20 3.604
**********END OF 38154: Ophelia 22 West CTB
INFO**********************************
************************************************************
** 20.06km away. Facility ID=40206 Name=Devon - Right Meow 30 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.279834, -103.720615, NAD83
** Total Sulfur Dioxide emissions=.11tons/year
*****************Facility sources: ****************************
** NMED source ID=40206EQPT1 Facility's ID=HT-1
** Description=Heater Treater, 3 MMBtu/hr Construction date=04-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40206E1 VOLUME 620480.621 3572172.387 0
```

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SO SRCPARAM 40206E1 .0005796 9.14 .47 .93
** NMED source ID=40206EQPT2 Facility's ID=HT-2
** Description=Heater Treater, 1 MMBtu/hr Construction date=04-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40206E2 VOLUME 620488.157 3572179.408 0
SO SRCPARAM 40206E2 .0002898 9.14 .47 .93
** NMED source ID=40206EQPT14 Facility's ID=FL-1 LP
** Description=15.5 MMscf/d Flare, Pilot +Op Construction date=04-NOV-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40206E14 POINT 620481.371 3572182.96 0
SO SRCPARAM 40206E14 .0050399 12.19 1273 20 13.484
** NMED source ID=40206EQPT15 Facility's ID=FL-1 Int
** Description=15.5 MMscf/d Flare, Int Construction date=04-NOV-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40206E15 POINT 620473.774 3572180.868 0
SO SRCPARAM 40206E15 .0011466 12.19 1273 20 20.806
**********END OF 40206: Devon - Right Meow 30 CTB 1
INFO**********************************
************************************************************
** 20.09km away. Facility ID=35583 Name=Cotton Draw - Scissortail Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.171111, -103.731944, NAD83
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ******************************
** NMED source ID=35583EQPT1 Facility's ID=2
** Description=1380-hp Caterpillar G3516B Construction date=04-FEB-16
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8265hr/yr, 24hr/day
SO LOCATION 35583E1 POINT 619555.954 3560106.881 0
SO SRCPARAM 35583E1 .00126 4.57 806.48 33.38 .41
** NMED source ID=35583EQPT2 Facility's ID=3
** Description=1380-hp Caterpillar G3516B Construction date=04-FEB-16
** SCC=31000203
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8345hr/yr, 24hr/day
SO LOCATION 35583E2 POINT 619563.49 3560113.902 0
SO SRCPARAM 35583E2 .00126 4.57 806.48 33.38 .41
**********END OF 35583: Cotton Draw - Scissortail Compressor Station
INFO**********************************
************************************************************
** 20.11km away. Facility ID=38265 Name=Cave Lion 5 Federal 1H-5H
** Company ID=13519 Name=Marathon Oil Permian LLC
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.065611, -103.396472, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ****************************
** NMED source ID=38265EQPT2 Facility's ID=FLARE-LP
** Description=Low Pressure Flare Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38265E2 POINT 651362.523 3548832.935 0
SO SRCPARAM 38265E2 .00126 9.14 1273 20 20.806
**********END OF 38265: Cave Lion 5 Federal 1H-5H
INFO**********************************
************************************************************
** 20.11km away. Facility ID=39145 Name=Devon - Green Wave 20 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.031692, -103.493778, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=39145EQPT9 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater 1 Construction date=20-SEP-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39145E9 VOLUME 642228.982 3544940.292 0
SO SRCPARAM 39145E9 .0002898 9.14 .47 .93
** NMED source ID=39145EQPT10 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater Treater 2 Construction date=20-SEP-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39145E10 VOLUME 642236.518 3544947.313 0
SO SRCPARAM 39145E10 .0002898 9.14 .47 .93
**********END OF 39145: Devon - Green Wave 20 CTB 3
INFO**********************************
************************************************************
** 20.11km away. Facility ID=39427 Name=Marlan East Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3329, -103.366665, NAD83
** Total Sulfur Dioxide emissions=.13tons/year
*****************Facility sources: ****************************
** NMED source ID=39427EQPT7 Facility's ID=FL-1 HP
** Description=10 MMSCFD High pressure tip Flare SSM Construction date=24-FEB-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39427E7 POINT 653726.178 3578508.289 0
SO SRCPARAM 39427E7 .0856786 12.19 1273 20 20.806
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** NMED source ID=39427EQPT8 Facility's ID=FL-1 LP
** Description=0.6 MMSCFD low pressure tip Flare Construction date=24-FEB-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39427E8 POINT 653733.714 3578515.31 0
SO SRCPARAM 39427E8 .0037799 34.14 1273 20 5.505
** NMED source ID=39427EQPT23 Facility's ID=FL-2 LP
** Description=1.0 MMSCFD low pressure tip Flare, pilot & SSM Construction
date=23-NOV-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E23 POINT 653726.928 3578518.862 0
SO SRCPARAM 39427E23 .0037799 6.1 1273 20 5.505
** NMED source ID=39427EQPT26 Facility's ID=GEN-4
** Description=581 hp PSI 21.9L generator Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E26 POINT 653719.331 3578516.77 0
SO SRCPARAM 39427E26 .0002898 6.1 1023.15 19.37 .3
** NMED source ID=39427EQPT27 Facility's ID=GEN-5
** Description=581 hp PSI 21.9L generator Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E27 POINT 653715.09 3578509.87 0
SO SRCPARAM 39427E27 .0002898 6.1 1023.15 19.37 .3
** NMED source ID=39427EQPT28 Facility's ID=GEN-6
** Description=581 hp PSI 21.9L generator Construction date=23-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E28 POINT 653716.742 3578501.716 0
SO SRCPARAM 39427E28 .0002898 6.1 1023.15 19.37 .3
** NMED source ID=39427EQPT35 Facility's ID=GEN-3
** Description=581 hp PSI 21.9L generator Construction date=09-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E35 POINT 653723.691 3578496.754 0
SO SRCPARAM 39427E35 .0002898 6.1 1023.15 19.37 .3
** NMED source ID=39427EQPT40 Facility's ID=ENG-4
** Description=346hp Ajax DPC-360 Construction date=20-DEC-23
** SCC=20200252
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E40 POINT 653732.374 3578497.896 0
SO SRCPARAM 39427E40 .0002898 6.61 522.04 13.95 .34
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** NMED source ID=39427EQPT41 Facility's ID=ENG-5
** Description=384 hp Ajax DPC-2802LE Construction date=20-DEC-23
** SCC=20200252
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E41 POINT 653738.084 3578504.824 0
SO SRCPARAM 39427E41 .0002898 6.61 513.71 15.92 .34
** NMED source ID=39427EQPT42 Facility's ID=GEN-7
** Description=390 hp PSI 14.6L generator Construction date=01-JAN-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39427E42 POINT 653737.519 3578514.005 0
SO SRCPARAM 39427E42 .0002898 4.51 1023.15 112.53 .1
**********END OF 39427: Marlan East Tank Battery
INFO***********************************
************************************************************
** 20.12km away. Facility ID=40478 Name=Right Meow 30 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9631 NOI
** lat,long,datum=32.281641, -103.720421, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=40478EQPT1 Facility's ID=ENG 1
** Description=Other Construction date=02-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40478E1 POINT 620496.502 3572372.928 0
SO SRCPARAM 40478E1 .0002898 5.85 952.59 31.94 .27
** NMED source ID=40478EQPT2 Facility's ID=ENG 2
** Description=Other Construction date=02-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40478E2 POINT 620504.038 3572379.949 0
SO SRCPARAM 40478E2 .0002898 4.39 790.93 14.04 .26
**********END OF 40478: Right Meow 30 Wellpad 1
INFO***********************************
************************************************************
** 20.14km away. Facility ID=30324 Name=Aldabra 25 Fed 6H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4438 NOI
** lat,long,datum=32.26878, -103.72639, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=30324EQPT13 Facility's ID=Flare 1_4947 SSM
** Description=Flare 1_EQ000114947 Construction date=06-FEB-19
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 30324E13 POINT 619951.294 3570940.478 0
SO SRCPARAM 30324E13 .0002898 6.1 1273 20 .61
**********END OF 30324: Aldabra 25 Fed 6H INFO**********************************
************************************************************
** 20.17km away. Facility ID=38429 Name=Sand Dunes CTB 12
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=8173 NOI
** lat,long,datum=32.22853, -103.737, NAD83
** Total Sulfur Dioxide emissions=.13tons/year
*****************Facility sources: ******************************
** NMED source ID=38429EQPT3 Facility's ID=HTR-1
** Description=Heater Treater 4 MMBtu/hr Construction date=29-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7368hr/yr, 20hr/day
SO LOCATION 38429E3 POINT 619004.444 3566466.611 0
SO SRCPARAM 38429E3 .00126 6.71 533.15 4.51 .46
** NMED source ID=38429EQPT6 Facility's ID=HPS-1
** Description=Heated Production Separator 4 MMBtu/hr Construction date=29-APR-19
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8088hr/yr, 22hr/day
SO LOCATION 38429E6 VOLUME 619011.98 3566473.632 0
SO SRCPARAM 38429E6 .0050399 6.71 .47 .93
** NMED source ID=38429EQPT7 Facility's ID=HTR-2
** Description=Heater Treater 4 MMBtu/hr Construction date=29-APR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7368hr/yr, 20hr/day
SO LOCATION 38429E7 POINT 619005.194 3566477.184 0
SO SRCPARAM 38429E7 .00126 6.71 533.15 4.51 .46
** NMED source ID=38429EQPT8 Facility's ID=HPS-2
** Description=Heated Production Separator 4 MMBtu/hr Construction date=29-APR-19
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8088hr/yr, 22hr/day
SO LOCATION 38429E8 VOLUME 618997.597 3566475.092 0
SO SRCPARAM 38429E8 .00126 6.71 .47 .93
**********END OF 38429: Sand Dunes CTB 12 INFO**********************************
************************************************************
** 20.18km away. Facility ID=40112 Name=Bridge State 29 CTB#1
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.356315, -103.396307, WGS84
** Total Sulfur Dioxide emissions=40.66tons/year
*****************Facility sources: ******************************
** NMED source ID=40112EQPT11 Facility's ID=FL-1-VRUDOWN
** Description=Process Flare, 21 MMSCFD Construction date=25-AUG-21
** SCC=31000160
```

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40112E11 POINT 650897.132 3581062.079 0
SO SRCPARAM 40112E11 .0075599 12.19 1273 20 20.806
** NMED source ID=40112EQPT12 Facility's ID=FL-1-STRAND
** Description=Process Flare, 21 MMSCFD Construction date=25-AUG-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40112E12 POINT 650904.668 3581069.1 0
SO SRCPARAM 40112E12 1.1617016 12.19 1273 20 8.579
** NMED source ID=40112EQPT18 Facility's ID=ENG-1
** Description=Waukesha L5794GSI Construction date=28-MAR-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40112E18 POINT 650897.882 3581072.652 0
SO SRCPARAM 40112E18 .00126 7.32 886.48 20.42 .3
**********END OF 40112: Bridge State 29 CTB#1
INFO**********************************
************************************************************
** 20.23km away. Facility ID=8284 Name=Van Doo Dah 33 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.08244, -103.676132, NAD83
** Total Sulfur Dioxide emissions=.17tons/year
*****************Facility sources: ******************************
** NMED source ID=8284EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=20-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E1 POINT 624939.276 3550340.414 0
SO SRCPARAM 8284E1 .00126 5.85 772.59 37.37 .27
** NMED source ID=8284EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Engine Construction date=20-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E2 POINT 624946.812 3550347.435 0
SO SRCPARAM 8284E2 .0005796 5.85 723.71 34.47 .27
** NMED source ID=8284EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=20-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E3 POINT 624940.026 3550350.987 0
SO SRCPARAM 8284E3 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8284EQPT4 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=20-NOV-23
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E4 POINT 624932.429 3550348.895 0
SO SRCPARAM 8284E4 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8284EQPT5 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=20-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E5 POINT 624928.188 3550341.995 0
SO SRCPARAM 8284E5 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8284EQPT6 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=20-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E6 POINT 624929.84 3550333.841 0
SO SRCPARAM 8284E6 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8284EQPT7 Facility's ID=FL-1 HP
** Description=Flare 1 High Pressure Side Construction date=20-NOV-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E7 POINT 624936.789 3550328.879 0
SO SRCPARAM 8284E7 .0002898 12.19 1273 20 4.652
** NMED source ID=8284EQPT9 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=20-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E9 VOLUME 624945.472 3550330.021 0
SO SRCPARAM 8284E9 .00126 9.14 .47 .93
** NMED source ID=8284EQPT10 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=20-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E10 VOLUME 624951.182 3550336.949 0
SO SRCPARAM 8284E10 .00126 9.14 .47 .93
** NMED source ID=8284EQPT19 Facility's ID=FL-1 LP SSM
** Description=Flare 1 Low Pressure Side Construction date=20-NOV-23
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8284E19 POINT 624950.617 3550346.13 0
SO SRCPARAM 8284E19 .0008568 12.19 1273 20 20.806
**********END OF 8284: Van Doo Dah 33 CTB 3
INFO**********************************
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** 20.23km away. Facility ID=40183 Name=Falcon Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.1859, -103.7367, WGS84
** Total Sulfur Dioxide emissions=18.36tons/year
*****************Facility sources: ****************************
** NMED source ID=40183EQPT2 Facility's ID=ECD-1
** Description=Tank Combustor Construction date=22-OCT-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E2 POINT 619088.258 3561741.075 0
SO SRCPARAM 40183E2 .0002898 8.23 1273 20 1.52
** NMED source ID=40183EQPT3 Facility's ID=ECD-2
** Description=Dehydrator Combustor Construction date=22-OCT-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E3 POINT 619095.794 3561748.096 0
SO SRCPARAM 40183E3 .00126 8.08 1273 20 1.22
** NMED source ID=40183EQPT4 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E4 POINT 619089.008 3561751.648 0
SO SRCPARAM 40183E4 .0881986 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT5 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E5 POINT 619081.411 3561749.556 0
SO SRCPARAM 40183E5 .0881986 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT6 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E6 POINT 619077.17 3561742.656 0
SO SRCPARAM 40183E6 .0881986 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT7 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E7 POINT 619078.822 3561734.502 0
SO SRCPARAM 40183E7 .0881986 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT8 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=22-OCT-21
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E8 POINT 619085.771 3561729.54 0
SO SRCPARAM 40183E8 .0881986 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT9 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=22-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E9 POINT 619094.454 3561730.682 0
SO SRCPARAM 40183E9 .0881986 8.32 729.26 32.22 .55
** NMED source ID=40183EQPT18 Facility's ID=FL-1 SSM SSM
** Description=Maintenance flare Construction date=06-OCT-23
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40183E18 POINT 619100.164 3561737.61 0
SO SRCPARAM 40183E18 .0005796 10.67 1273 20 1.22
**********END OF 40183: Falcon Compressor Station
INFO**********************************
************************************************************
** 20.24km away. Facility ID=39522 Name=Cobber 21 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.033372, -103.475663, NAD83
** Total Sulfur Dioxide emissions=.28tons/year
*****************Facility sources: ****************************
** NMED source ID=39522EQPT1 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39522E1 VOLUME 643937.086 3545150.539 0
SO SRCPARAM 39522E1 .0005796 9.14 .47 .93
** NMED source ID=39522EQPT2 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=06-MAY-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39522E2 VOLUME 643944.622 3545157.56 0
SO SRCPARAM 39522E2 .0005796 9.14 .47 .93
** NMED source ID=39522EQPT5 Facility's ID=FL-1 LP
** Description=Flare Construction date=06-MAY-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39522E5 POINT 643937.836 3545161.112 0
SO SRCPARAM 39522E5 .0138598 12.19 1273 20 13.484
**********END OF 39522: Cobber 21 CTB 2 INFO**********************************
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************************************************************
** 20.32km away. Facility ID=5051 Name=Cotton Draw Unit 25 CTB 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.193284, -103.738667, NAD83
** Total Sulfur Dioxide emissions=.07tons/year
*****************Facility sources: ****************************
** NMED source ID=5051EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=31-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051E1 POINT 618893.219 3562557.47 0
SO SRCPARAM 5051E1 .00126 5.85 772.59 37.4 .27
** NMED source ID=5051EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Engine Construction date=31-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051E2 POINT 618900.755 3562564.491 0
SO SRCPARAM 5051E2 .0002898 4.39 1000.37 17.38 .26
** NMED source ID=5051EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Engine Construction date=31-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051E3 POINT 618893.969 3562568.043 0
SO SRCPARAM 5051E3 .0002898 4.39 1000.37 17.38 .26
** NMED source ID=5051EQPT6 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=31-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051E6 VOLUME 618886.372 3562565.951 0
SO SRCPARAM 5051E6 .0002898 9.14 .47 .93
** NMED source ID=5051EQPT7 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=31-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5051E7 VOLUME 618882.131 3562559.051 0
SO SRCPARAM 5051E7 .0002898 9.14 .47 .93
**********END OF 5051: Cotton Draw Unit 25 CTB 5
INFO**********************************
************************************************************
** 20.32km away. Facility ID=36592 Name=Stray Cat 8 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6753 NOI
** lat,long,datum=32.312361, -103.703086, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
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*****************Facility sources: ****************************
** NMED source ID=36592EQPT7 Facility's ID=26
** Description=Combustor 1_EQ000060559 Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36592E7 POINT 622087.843 3575798.153 0
SO SRCPARAM 36592E7 .0002898 6.1 1273 20 2.632
** NMED source ID=36592EQPT16 Facility's ID=15 SSM
** Description=Flare 1_EQ000060558 Construction date=01-SEP-16
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36592E16 POINT 622095.379 3575805.174 0
SO SRCPARAM 36592E16 .0002898 6.1 1273 20 20.806
**********END OF 36592: Stray Cat 8 Battery
INFO*************************************
************************************************************
** 20.33km away. Facility ID=37926 Name=Hallertau 4 Federal 1H 3H 4H 7H 8H Facility
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.07878, -103.67323, WGS84
** Total Sulfur Dioxide emissions=.26tons/year
*****************Facility sources: ****************************
** NMED source ID=37926EQPT2 Facility's ID=H1
** Description=2.0 MMBtu/hr Heater Treater Construction date=07-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7636hr/yr, 21hr/day
SO LOCATION 37926E2 VOLUME 625218.163 3549938.043 0
SO SRCPARAM 37926E2 .00126 4.57 .47 .93
** NMED source ID=37926EQPT3 Facility's ID=H2
** Description=2.0 MMBtu/hr Heater Treater Construction date=07-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7636hr/yr, 21hr/day
SO LOCATION 37926E3 VOLUME 625225.699 3549945.064 0
SO SRCPARAM 37926E3 .00126 4.57 .47 .93
** NMED source ID=37926EQPT5 Facility's ID=H3
** Description=2.0 MMBtu/hr Heater Treater Construction date=07-MAY-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37926E5 VOLUME 625218.913 3549948.616 0
SO SRCPARAM 37926E5 .00126 4.57 .47 .93
** NMED source ID=37926EQPT7 Facility's ID=FL1
** Description=4.5 MMBtu/hr Flare Construction date=30-JUN-17
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7636hr/yr, 21hr/day
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SO LOCATION 37926E7 POINT 625211.316 3549946.524 0
SO SRCPARAM 37926E7 .00126 8.23 1273 20 20.806
** NMED source ID=37926EQPT22 Facility's ID=ENG5
** Description=Compressor Engine Construction date=21-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37926E22 POINT 625207.075 3549939.624 0
SO SRCPARAM 37926E22 .00126 6.1 807.04 57.33 .3
** NMED source ID=37926EQPT25 Facility's ID=FL2 SSM
** Description=1.3 MMBtu/hr Flare Construction date=20-AUG-12
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37926E25 POINT 625208.727 3549931.47 0
SO SRCPARAM 37926E25 .0040319 12.19 1273 20 3.604
**********END OF 37926: Hallertau 4 Federal 1H 3H 4H 7H 8H Facility
INFO**********************************
************************************************************
** 20.33km away. Facility ID=38728 Name=El Mar 21 W0DM 2H W1CN  3H W0CN 4H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.034439, -103.581025, WGS84
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=38728EQPT30 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=25-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E30 POINT 633985.687 3545133.24 0
SO SRCPARAM 38728E30 .00126 6.1 706.48 43.31 .41
** NMED source ID=38728EQPT31 Facility's ID=ENG-06
** Description=Compressor Engine Construction date=25-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E31 POINT 633993.223 3545140.261 0
SO SRCPARAM 38728E31 .00126 7.16 819.82 33.86 .41
** NMED source ID=38728EQPT32 Facility's ID=ENG-07
** Description=Compressor Engine Construction date=25-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38728E32 POINT 633986.437 3545143.813 0
SO SRCPARAM 38728E32 .0002898 6.17 695.37 37.61 .25
**********END OF 38728: El Mar 21 W0DM 2H W1CN  3H W0CN 4H Battery
INFO**********************************
************************************************************
** 20.34km away. Facility ID=38789 Name=Cave Lion 26-35-5 Fed 2H 6H 8H 9H 12H 15H
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CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.065875, -103.392078, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=38789EQPT8 Facility's ID=ENG-1
** Description=690 hp CAT G3508B RICE Construction date=10-OCT-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8052hr/yr, 24hr/day
SO LOCATION 38789E8 POINT 651776.9 3548868.376 0
SO SRCPARAM 38789E8 .0002898 4.88 825.37 27.85 .3
** NMED source ID=38789EQPT12 Facility's ID=GEN-3
** Description=removed-390 hp Doosan D146L generator Construction date=10-OCT-19
** SCC=20200253
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=7858hr/yr, 24hr/day
** This source has been removed from the facility and is here for increment
expansion use.
SO LOCATION 38789E12 POINT 651784.436 3548875.397 0
SO SRCPARAM 38789E12 -.0002898 3.24 744.26 144.17 .09
**********END OF 38789: Cave Lion 26-35-5 Fed 2H 6H 8H 9H 12H 15H CTB
INFO************************************
************************************************************
** 20.37km away. Facility ID=38228 Name=Vast Gas Lift Station
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=7639 NOI
** lat,long,datum=32.036492, -103.590553, WGS84
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=38228EQPT1 Facility's ID=ENG-01
** Description=Caterpillar CG137 Construction date=21-MAR-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38228E1 POINT 633082.962 3545349.049 0
SO SRCPARAM 38228E1 .00126 5.11 790.93 22.8 .2
** NMED source ID=38228EQPT2 Facility's ID=ENG-02
** Description=Caterpillar CG137 Engine Construction date=21-MAR-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38228E2 POINT 633090.498 3545356.07 0
SO SRCPARAM 38228E2 .00126 5.11 790.93 22.8 .2
**********END OF 38228: Vast Gas Lift Station
INFO************************************
************************************************************
** 20.37km away. Facility ID=8008 Name=Comanche Peak Compressor Station
** Company ID=13928 Name=Pinon Midstream LLC
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** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.162344, -103.3153, WGS84
** Total Sulfur Dioxide emissions=.4tons/year
*****************Facility sources: ******************************
** NMED source ID=8008EQPT1 Facility's ID=ENG-1
** Description=2,500 bhp Compressor Engine 1 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E1 POINT 658857.893 3559674.053 0
SO SRCPARAM 8008E1 .00126 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT2 Facility's ID=ENG-2
** Description=2,500 bhp Compressor Engine 2 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E2 POINT 658865.429 3559681.074 0
SO SRCPARAM 8008E2 .00126 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT3 Facility's ID=ENG-3
** Description=2,500 bhp Compressor Engine 3 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E3 POINT 658858.643 3559684.626 0
SO SRCPARAM 8008E3 .00126 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT4 Facility's ID=ENG-4
** Description=2,500 bhp Compressor Engine 4 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E4 POINT 658851.046 3559682.534 0
SO SRCPARAM 8008E4 .00126 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT5 Facility's ID=ENG-5
** Description=2,500 bhp Compressor Engine 5 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E5 POINT 658846.805 3559675.634 0
SO SRCPARAM 8008E5 .00126 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT6 Facility's ID=ENG-6
** Description=2,500 bhp Compressor Engine 6 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E6 POINT 658848.457 3559667.48 0
SO SRCPARAM 8008E6 .00126 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT7 Facility's ID=ENG-7
** Description=2,500 bhp Compressor Engine 7 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E7 POINT 658855.406 3559662.518 0
SO SRCPARAM 8008E7 .00126 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT8 Facility's ID=ENG-8
** Description=2,500 bhp Compressor Engine 8 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E8 POINT 658864.089 3559663.66 0
SO SRCPARAM 8008E8 .00126 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT9 Facility's ID=ENG-9
** Description=2,500 bhp Compressor Engine 9 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E9 POINT 658869.799 3559670.588 0
SO SRCPARAM 8008E9 .00126 9.14 729.26 25.29 .61
** NMED source ID=8008EQPT10 Facility's ID=ENG-10
** Description=2,500 bhp Compressor Engine 10 Construction date=18-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8008E10 POINT 658869.234 3559679.769 0
SO SRCPARAM 8008E10 .00126 9.14 729.26 25.29 .61
**********END OF 8008: Comanche Peak Compressor Station
INFO**********************************
************************************************************
** 20.49km away. Facility ID=39888 Name=Zach 17 8 W1MD Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.037725, -103.598719, WGS84
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=39888EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=11-JUL-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E1 POINT 632310.07 3545475.701 0
SO SRCPARAM 39888E1 .0002898 6.19 695.37 37.61 .25
** NMED source ID=39888EQPT5 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=10-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39888E5 POINT 632317.606 3545482.722 0
SO SRCPARAM 39888E5 .0002898 4.57 778.71 13.94 .26
**********END OF 39888: Zach 17 8 W1MD Fed Com 1H Battery
INFO**********************************
************************************************************
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** 20.55km away. Facility ID=40208 Name=EOG - Jefe 29 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0979, -103.6966, WGS84
** Total Sulfur Dioxide emissions=.15tons/year
*****************Facility sources: ******************************
** NMED source ID=40208EQPT1 Facility's ID=HTR-1
** Description=Heater Treater, 1.5 MMBtu/hr Construction date=19-OCT-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40208E1 VOLUME 622986.757 3552030.728 0
SO SRCPARAM 40208E1 .0002898 4.88 .47 .93
** NMED source ID=40208EQPT10 Facility's ID=FL-1 SSM
** Description=FL-1 SSM Emissions Construction date=19-OCT-21
** SCC=30609903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40208E10 POINT 622994.293 3552037.749 0
SO SRCPARAM 40208E10 .0040319 1.22 1273 20 3.604
**********END OF 40208: EOG - Jefe 29 Fed Com CTB
INFO*************************************
************************************************************
** 20.56km away. Facility ID=38360 Name=Tour Bus 23 State No301H No502H No601H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.383781, -103.448242, WGS84
** Total Sulfur Dioxide emissions=11.55tons/year
*****************Facility sources: ******************************
** NMED source ID=38360EQPT6 Facility's ID=FL-1
** Description=Flare Construction date=21-SEP-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38360E6 POINT 645965.697 3584035.094 0
SO SRCPARAM 38360E6 .0113398 12.19 1273 20 5.505
** NMED source ID=38360EQPT7 Facility's ID=FL-2
** Description=Flare Construction date=21-SEP-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38360E7 POINT 645973.233 3584042.115 0
SO SRCPARAM 38360E7 .0113398 12.19 1273 20 5.505
** NMED source ID=38360EQPT8 Facility's ID=FL-3
** Description=Flare Construction date=21-SEP-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38360E8 POINT 645966.447 3584045.667 0
SO SRCPARAM 38360E8 .0113398 12.19 1273 20 5.505
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** NMED source ID=38360EQPT21 Facility's ID=ENG-1
** Description=Gas Lift Engine Construction date=12-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38360E21 POINT 645958.85 3584043.575 0
SO SRCPARAM 38360E21 .0002898 2.44 834.26 37.16 .2
**********END OF 38360: Tour Bus 23 State No301H No502H No601H
INFO**********************************
************************************************************
** 20.59km away. Facility ID=39519 Name=Tin Foil Federal 23 N CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8797 NOI
** lat,long,datum=32.1113, -103.3395, WGS84
** Total Sulfur Dioxide emissions=2.44tons/year
*****************Facility sources: ******************************
** NMED source ID=39519EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burner Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39519E4 VOLUME 656662.952 3553979.574 0
SO SRCPARAM 39519E4 .061739 4.57 .47 .93
** NMED source ID=39519EQPT5 Facility's ID=FL-01
** Description=Low Pressure Flare Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 14hr/day
SO LOCATION 39519E5 POINT 656670.488 3553986.595 0
SO SRCPARAM 39519E5 .0088199 12.19 1273 20 20.806
**********END OF 39519: Tin Foil Federal 23 N CTB
INFO**********************************
************************************************************
** 20.62km away. Facility ID=41036 Name=Red Tank 26 CPF
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=9950 NOI
** lat,long,datum=32.3662, -103.642697, WGS84
** Total Sulfur Dioxide emissions=.08tons/year
*****************Facility sources: ******************************
** NMED source ID=41036EQPT2 Facility's ID=HTR-1
** Description=Line Heater Construction date=12-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41036E2 POINT 627697.492 3581837.245 0
SO SRCPARAM 41036E2 .00126 3.05 310.93 2.25 .15
** NMED source ID=41036EQPT3 Facility's ID=HTR-2
** Description=Line Heater Construction date=12-MAY-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41036E3 POINT 627705.028 3581844.266 0
SO SRCPARAM 41036E3 .00126 3.05 310.93 2.25 .15
**********END OF 41036: Red Tank 26 CPF INFO**************************************
************************************************************
** 20.66km away. Facility ID=6934 Name=Bluehound Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.379834, -103.433963, WGS84
** Total Sulfur Dioxide emissions=93.07tons/year
*****************Facility sources: ******************************
** NMED source ID=6934EQPT1 Facility's ID=C-01
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E1 POINT 647315.397 3583617.082 0
SO SRCPARAM 6934E1 .0062999 6.71 728.15 24.75 .41
** NMED source ID=6934EQPT2 Facility's ID=C-02
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E2 POINT 647322.933 3583624.103 0
SO SRCPARAM 6934E2 .0062999 6.71 728.15 24.75 .41
** NMED source ID=6934EQPT3 Facility's ID=C-03
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E3 POINT 647316.147 3583627.655 0
SO SRCPARAM 6934E3 .0088199 6.71 695.93 26.58 .51
** NMED source ID=6934EQPT4 Facility's ID=C-04
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E4 POINT 647308.55 3583625.563 0
SO SRCPARAM 6934E4 .0088199 6.71 695.93 26.58 .51
** NMED source ID=6934EQPT5 Facility's ID=C-05
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E5 POINT 647304.309 3583618.663 0
SO SRCPARAM 6934E5 .0113398 6.71 686.48 24.93 .61
** NMED source ID=6934EQPT6 Facility's ID=C-06
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E6 POINT 647305.961 3583610.509 0
SO SRCPARAM 6934E6 .0113398 6.71 686.48 24.93 .61
** NMED source ID=6934EQPT7 Facility's ID=C-07
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E7 POINT 647312.91 3583605.547 0
SO SRCPARAM 6934E7 .0088199 6.71 695.93 26.58 .51
** NMED source ID=6934EQPT8 Facility's ID=C-08
** Description=Compressor Engine Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E8 POINT 647321.593 3583606.689 0
SO SRCPARAM 6934E8 .0088199 6.71 695.93 26.58 .51
** NMED source ID=6934EQPT12 Facility's ID=FL-HP
** Description=High Pressure Side of Process Flare Construction date=03-JAN-24
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E12 POINT 647327.303 3583613.617 0
SO SRCPARAM 6934E12 .0008568 9.14 1273 20 20.806
** NMED source ID=6934EQPT13 Facility's ID=FL-LP
** Description=Low Pressure Side of Process Flare Construction date=03-JAN-24
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E13 POINT 647326.738 3583622.798 0
SO SRCPARAM 6934E13 3.6728417 9.14 1273 20 4.652
** NMED source ID=6934EQPT14 Facility's ID=GEN-1
** Description=Generator Construction date=03-JAN-24
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E14 POINT 647319.903 3583629.276 0
SO SRCPARAM 6934E14 .00126 1.8 922.04 21.88 .15
** NMED source ID=6934EQPT16 Facility's ID=REB-1
** Description=Reboiler Construction date=03-JAN-24
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6934E16 POINT 647310.267 3583629.353 0
SO SRCPARAM 6934E16 .00126 3.05 588.71 .63 .61
** NMED source ID=6934EQPT17 Facility's ID=REB-2
** Description=Reboiler Construction date=03-JAN-24
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 6934E17 POINT 647303.006 3583622.687 0
SO SRCPARAM 6934E17 .0002898 3.05 588.71 .32 .61
**********END OF 6934: Bluehound Compressor Station
INFO**********************************
************************************************************
** 20.71km away. Facility ID=39193 Name=Devon - Todd 36 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.257628, -103.73671, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=39193EQPT2 Facility's ID=GEN 1
** Description=Generator 1 Construction date=16-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39193E2 POINT 618993.819 3569692.691 0
SO SRCPARAM 39193E2 .0002898 2.99 1005.37 215.25 .09
** NMED source ID=39193EQPT3 Facility's ID=GEN-2
** Description=Generator 2 Construction date=16-OCT-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39193E3 POINT 619001.355 3569699.712 0
SO SRCPARAM 39193E3 .0002898 2.99 1005.37 136.18 .09
**********END OF 39193: Devon - Todd 36 CTB 1
INFO**********************************
************************************************************
** 20.72km away. Facility ID=8128 Name=Van Doo Dah 33 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.082077, -103.682897, NAD83
** Total Sulfur Dioxide emissions=.16tons/year
*****************Facility sources: ******************************
** NMED source ID=8128EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engine Construction date=26-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E1 POINT 624301.275 3550292.355 0
SO SRCPARAM 8128E1 .00126 5.85 772.59 37.4 .27
** NMED source ID=8128EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Gas Lift Engine Construction date=26-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E2 POINT 624308.811 3550299.376 0
SO SRCPARAM 8128E2 .0002898 3.51 1000.37 71.17 .13
** NMED source ID=8128EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=26-OCT-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E3 POINT 624302.025 3550302.928 0
SO SRCPARAM 8128E3 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8128EQPT4 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=26-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E4 POINT 624294.428 3550300.836 0
SO SRCPARAM 8128E4 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8128EQPT5 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=26-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E5 POINT 624290.187 3550293.936 0
SO SRCPARAM 8128E5 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8128EQPT6 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=26-OCT-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E6 POINT 624291.839 3550285.782 0
SO SRCPARAM 8128E6 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8128EQPT7 Facility's ID=FL-1 HP SSM
** Description=Flare 1 High Pressure Side Construction date=26-OCT-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E7 POINT 624298.788 3550280.82 0
SO SRCPARAM 8128E7 .0002898 12.19 1273 20 4.652
** NMED source ID=8128EQPT9 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=26-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E9 VOLUME 624307.471 3550281.962 0
SO SRCPARAM 8128E9 .00126 9.14 .47 .93
** NMED source ID=8128EQPT10 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=26-OCT-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E10 VOLUME 624313.181 3550288.89 0
SO SRCPARAM 8128E10 .00126 9.14 .47 .93
** NMED source ID=8128EQPT27 Facility's ID=FL-1 LP SSM
** Description=Flare 1 Low Pressure Side Construction date=26-OCT-23
** SCC=31000160
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** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8128E27 POINT 624312.616 3550298.071 0
SO SRCPARAM 8128E27 .0008568 12.19 1273 20 20.806
**********END OF 8128: Van Doo Dah 33 CTB 2
INFO**********************************
************************************************************
** 20.75km away. Facility ID=37953 Name=EOG - Odin Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.02833, -103.57028, WGS84
** Total Sulfur Dioxide emissions=7.47tons/year
*****************Facility sources: ******************************
** NMED source ID=37953EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3608A4 2500hp Construction date=17-JUL-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8457hr/yr, 23hr/day
SO LOCATION 37953E1 POINT 635009.334 3544469.389 0
SO SRCPARAM 37953E1 .0251996 9.14 688.15 45.32 .46
** NMED source ID=37953EQPT6 Facility's ID=HTR-1
** Description=Heater Treater  2.0 MMBtu/hr Construction date=17-JUL-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37953E6 VOLUME 635016.87 3544476.41 0
SO SRCPARAM 37953E6 .0037421 2.44 .47 .93
** NMED source ID=37953EQPT8 Facility's ID=FL-1
** Description=Process Flare-100 scf/hr Construction date=17-JUL-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37953E8 POINT 635010.084 3544479.962 0
SO SRCPARAM 37953E8 .0002898 18 1273 20 20.806
** NMED source ID=37953EQPT10 Facility's ID=ENG-2
** Description=Caterpillar G3608A4 2500hp Construction date=17-JUL-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8463hr/yr, 23hr/day
SO LOCATION 37953E10 POINT 635002.487 3544477.87 0
SO SRCPARAM 37953E10 .0251996 9.14 688.15 45.32 .46
** NMED source ID=37953EQPT11 Facility's ID=ENG-3
** Description=Caterpillar G3608A4 2500hp Construction date=17-JUL-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8203hr/yr, 22hr/day
SO LOCATION 37953E11 POINT 634998.246 3544470.97 0
SO SRCPARAM 37953E11 .0251996 9.14 688.15 45.32 .46
** NMED source ID=37953EQPT12 Facility's ID=ENG-4
** Description=Caterpillar G3608A4 2500hp Construction date=17-JUL-20
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37953E12 POINT 634999.898 3544462.816 0
SO SRCPARAM 37953E12 .0251996 9.14 688.15 45.32 .46
** NMED source ID=37953EQPT13 Facility's ID=ENG-5
** Description=Caterpillar G3608A4 2500hp Construction date=17-JUL-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2827hr/yr, 24hr/day
SO LOCATION 37953E13 POINT 635006.847 3544457.854 0
SO SRCPARAM 37953E13 .0251996 9.14 688.15 45.32 .46
** NMED source ID=37953EQPT14 Facility's ID=ENG-6
** Description=Caterpillar G3608A4 2500hp Construction date=17-JUL-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8459hr/yr, 23hr/day
SO LOCATION 37953E14 POINT 635015.53 3544458.996 0
SO SRCPARAM 37953E14 .0251996 9.14 688.15 45.32 .46
** NMED source ID=37953EQPT15 Facility's ID=ENG-7
** Description=Caterpillar G3608A4 2500hp Construction date=17-JUL-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8520hr/yr, 23hr/day
SO LOCATION 37953E15 POINT 635021.24 3544465.924 0
SO SRCPARAM 37953E15 .0251996 9.14 688.15 45.32 .46
** NMED source ID=37953EQPT16 Facility's ID=ENG-8
** Description=Caterpillar G3608A4 2500hp Construction date=17-JUL-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8273hr/yr, 23hr/day
SO LOCATION 37953E16 POINT 635020.675 3544475.105 0
SO SRCPARAM 37953E16 .0251996 9.14 688.15 45.32 .46
** NMED source ID=37953EQPT17 Facility's ID=REB-1
** Description=Glycol Dehydrator Reboiler 2.0 MMBtu/hr Construction date=17-JUL-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37953E17 POINT 635013.84 3544481.583 0
SO SRCPARAM 37953E17 .0037421 2.44 533.15 19.05 .15
**********END OF 37953: EOG - Odin Compressor Station
INFO*************************************
************************************************************
** 20.75km away. Facility ID=39717 Name=Caza - Lennox 32 State Nos 9H 10H and 34
State No 1H Facility
** Company ID=13636 Name=Caza Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.355205, -103.384814, WGS84
** Total Sulfur Dioxide emissions=6.65tons/year
****************Facility sources: ****************************
```

```
** NMED source ID=39717CONT1 Facility's ID=FL-2-NO
** Description=0.25 MSCF/hr, Emergency Flare-NO-pilot only Construction
date=17-DEC-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39717C1 POINT 651980.528 3580955.279 0
SO SRCPARAM 39717C1 .0818987 4.57 1273 20 20.806
** NMED source ID=39717CONT2 Facility's ID=FL-1-NO
** Description=1.899 MSCF/hr Flare-NO-pilot Construction date=17-DEC-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39717C2 POINT 651988.064 3580962.3 0
SO SRCPARAM 39717C2 .4863523 4.57 1273 20 20.806
**********END OF 39717: Caza - Lennox 32 State Nos 9H 10H and 34 State No 1H
Facility INFO************************************
************************************************************
** 20.77km away. Facility ID=38151 Name=Tour Bus 23 State 503H and 504H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.383889, -103.442222, NAD83
** Total Sulfur Dioxide emissions=2.11tons/year
*****************Facility sources: ******************************
** NMED source ID=38151EQPT6 Facility's ID=FL-1
** Description=High Pressure Flare Construction date=16-JAN-18
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38151E6 POINT 646531.852 3584055.3 0
SO SRCPARAM 38151E6 .0592191 7.01 1273 20 5.885
** NMED source ID=38151EQPT7 Facility's ID=FL-2
** Description=Process Flare Construction date=16-JAN-18
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38151E7 POINT 646539.388 3584062.321 0
SO SRCPARAM 38151E7 .00252 4.88 1273 20 20.806
**********END OF 38151: Tour Bus 23 State 503H and 504H
INFO*************************************
************************************************************
** 20.77km away. Facility ID=38407 Name=EOG - Peachtree 24 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.024, -103.526, WGS84
** Total Sulfur Dioxide emissions=.66tons/year
*****************Facility sources: ******************************
** NMED source ID=38407EQPT2 Facility's ID=HTR-1
** Description=Heater 0.75 MM Btu/hr Construction date=19-MAR-19
** SCC=31000404
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38407E2 POINT 639197.672 3544045.579 0
SO SRCPARAM 38407E2 .0062999 5.18 588.71 3.41 .3
** NMED source ID=38407EQPT3 Facility's ID=HTR-2
** Description=Heater 1.5 MM Btu/hr Construction date=19-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38407E3 POINT 639205.208 3544052.6 0
SO SRCPARAM 38407E3 .0125998 5.18 588.71 6.83 .3
**********END OF 38407: EOG - Peachtree 24 Fed Com CTB
INFO**********************************
************************************************************
** 20.86km away. Facility ID=38418 Name=Sand Dunes CS 11
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.227111, -103.744527, NAD83
** Total Sulfur Dioxide emissions=7.92tons/year
*****************Facility sources: ******************************
** NMED source ID=38418EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=13-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5669hr/yr, 16hr/day
SO LOCATION 38418E4 POINT 618297.011 3566300.989 0
SO SRCPARAM 38418E4 .0503992 6.1 718.71 25.73 .61
** NMED source ID=38418EQPT5 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=13-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6206hr/yr, 17hr/day
SO LOCATION 38418E5 POINT 618304.547 3566308.01 0
SO SRCPARAM 38418E5 .0503992 6.1 718.71 25.73 .61
** NMED source ID=38418EQPT6 Facility's ID=REB-1
** Description=TEG Reboiler Construction date=13-FEB-19
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=768hr/yr, 2hr/day
SO LOCATION 38418E6 POINT 618297.761 3566311.562 0
SO SRCPARAM 38418E6 .0176397 5.79 533.15 .08 .46
** NMED source ID=38418EQPT12 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38418E12 POINT 618290.164 3566309.47 0
SO SRCPARAM 38418E12 .0415793 6.1 702.04 75.59 .3
** NMED source ID=38418EQPT13 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=28-SEP-21
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38418E13 POINT 618285.923 3566302.57 0
SO SRCPARAM 38418E13 .0415793 6.1 702.04 75.59 .3
** NMED source ID=38418EQPT14 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=13-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38418E14 POINT 618287.575 3566294.416 0
SO SRCPARAM 38418E14 .0503992 6.1 718.71 25.73 .61
**********END OF 38418: Sand Dunes CS 11 INFO**************************************
************************************************************
** 20.9km away. Facility ID=40263 Name=Cabra Nino 14 & 14-11 Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.38608, -103.445138, WGS84
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=40263EQPT10 Facility's ID=HT-04
** Description=Heater Treater Construction date=30-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40263E10 VOLUME 646253.999 3584294.217 0
SO SRCPARAM 40263E10 .0002898 4.57 .47 .93
**********END OF 40263: Cabra Nino 14 & 14-11 Battery
INFO**********************************
************************************************************
** 20.91km away. Facility ID=39482 Name=Devon- Boundary Raider 7 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.314024, -103.709312, NAD83
** Total Sulfur Dioxide emissions=.24tons/year
*****************Facility sources: ******************************
** NMED source ID=39482EQPT11 Facility's ID=FL-1
** Description=Flare 15.5 MMscfd Construction date=09-APR-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2568hr/yr, 24hr/day
SO LOCATION 39482E11 POINT 621499.482 3575975.437 0
SO SRCPARAM 39482E11 .0327595 12.19 1273 20 20.806
**********END OF 39482: Devon- Boundary Raider 7 CTB 2
INFO**********************************
************************************************************
** 20.93km away. Facility ID=39001 Name=Bonnyman Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.31725, -103.706917, WGS84
```

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** Total Sulfur Dioxide emissions=.26tons/year
*****************Facility sources: ******************************
** NMED source ID=39001EQPT1 Facility's ID=ENG-1
** Description=Engine CAT G3516B 1,380-hp Construction date=12-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7875hr/yr, 24hr/day
SO LOCATION 39001E1 POINT 621720.637 3576335.79 0
SO SRCPARAM 39001E1 .00126 7.32 809.82 36.76 .38
** NMED source ID=39001EQPT3 Facility's ID=ENG-2
** Description=Engine CAT G3516B 1,380-hp Construction date=12-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8413hr/yr, 24hr/day
SO LOCATION 39001E3 POINT 621728.173 3576342.811 0
SO SRCPARAM 39001E3 .00126 7.32 809.82 36.76 .38
** NMED source ID=39001EQPT4 Facility's ID=ENG-3
** Description=Engine CAT G3516B 1,380-hp Construction date=12-JUN-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8320hr/yr, 24hr/day
SO LOCATION 39001E4 POINT 621721.387 3576346.363 0
SO SRCPARAM 39001E4 .00126 7.32 809.82 36.76 .38
** NMED source ID=39001EQPT11 Facility's ID=GEN-1
** Description=Generator CAT G3406 276-hp Construction date=12-JUN-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39001E11 POINT 621713.79 3576344.271 0
SO SRCPARAM 39001E11 .0002898 3.76 835.93 39.68 .13
** NMED source ID=39001EQPT17 Facility's ID=ENG-4
** Description=Engine CAT G3606 1,875-hp Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39001E17 POINT 621709.549 3576337.371 0
SO SRCPARAM 39001E17 .00126 7.32 705.37 49.65 .38
** NMED source ID=39001EQPT18 Facility's ID=ENG-5
** Description=Engine CAT G3606 1,875-hp Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39001E18 POINT 621711.201 3576329.217 0
SO SRCPARAM 39001E18 .00126 7.32 705.37 49.65 .38
** NMED source ID=39001EQPT19 Facility's ID=ENG-6
** Description=Engine CAT G3606 1,875-hp Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39001E19 POINT 621718.15 3576324.255 0
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SO SRCPARAM 39001E19 .00126 7.32 705.37 49.65 .38
** NMED source ID=39001EQPT20 Facility's ID=ENG-7
** Description=Engine CAT G3606 1,875-hp Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39001E20 POINT 621726.833 3576325.397 0
SO SRCPARAM 39001E20 .00126 7.32 705.37 49.65 .38
**********END OF 39001: Bonnyman Compressor Station
INFO**********************************
************************************************************
** 20.94km away. Facility ID=6178 Name=Nitro Compressor Station
** Company ID=901 Name=Versado Gas Processors, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.398534, -103.516093, WGS84
** Total Sulfur Dioxide emissions=4.45tons/year
*****************Facility sources: ******************************
** NMED source ID=6178EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E3 POINT 639559.986 3585580.103 0
SO SRCPARAM 6178E3 .0062999 7.32 904.26 35.97 .41
** NMED source ID=6178EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E4 POINT 639567.522 3585587.124 0
SO SRCPARAM 6178E4 .0062999 7.32 904.26 35.97 .41
** NMED source ID=6178EQPT6 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E6 POINT 639560.736 3585590.676 0
SO SRCPARAM 6178E6 .0075599 7.92 867.59 32.25 .51
** NMED source ID=6178EQPT7 Facility's ID=ENG-7
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E7 POINT 639553.139 3585588.584 0
SO SRCPARAM 6178E7 .0075599 7.92 867.59 32.25 .51
** NMED source ID=6178EQPT8 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 6178E8 POINT 639548.898 3585581.684 0
SO SRCPARAM 6178E8 .0075599 8.84 707.04 46.51 .51
** NMED source ID=6178EQPT9 Facility's ID=ENG-9
** Description=Compressor Engine Construction date=11-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E9 POINT 639550.55 3585573.53 0
SO SRCPARAM 6178E9 .0075599 8.84 707.04 46.51 .51
** NMED source ID=6178EQPT10 Facility's ID=FL-1
** Description=Process flare Construction date=11-AUG-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E10 POINT 639557.499 3585568.568 0
SO SRCPARAM 6178E10 7.3834828 9.14 1273 20 4.652
** NMED source ID=6178EQPT15 Facility's ID=ENG-10
** Description=Compressor Engine Construction date=24-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E15 POINT 639566.182 3585569.71 0
SO SRCPARAM 6178E15 .0075599 8.84 707.04 46.51 .51
** NMED source ID=6178EQPT16 Facility's ID=ENG-11
** Description=Compressor Engine Construction date=24-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E16 POINT 639571.892 3585576.638 0
SO SRCPARAM 6178E16 .0075599 8.84 707.04 46.51 .51
** NMED source ID=6178EQPT17 Facility's ID=FL-1 SSM
** Description=Process flare Construction date=24-OCT-23
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6178E17 POINT 639571.327 3585585.819 0
SO SRCPARAM 6178E17 .0195675 9.14 1273 20 20.806
**********END OF 6178: Nitro Compressor Station
INFO**********************************
************************************************************
** 20.99km away. Facility ID=36430 Name=Enterprise - Devon Cotton Draw Compressor
Station
** Company ID=1477 Name=Enterprise Field Services, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.15561, -103.737017, WGS84
** Total Sulfur Dioxide emissions=1.52tons/year
*****************Facility sources: ******************************
** NMED source ID=36430EQPT1 Facility's ID=ENG-1
** Description=1863-hp Caterpillar G3606 LE Construction date=09-MAY-16
** SCC=20200202
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7618hr/yr, 21hr/day
SO LOCATION 36430E1 POINT 619097.79 3558382.859 0
SO SRCPARAM 36430E1 .0201597 8.84 699.26 76.41 .3
** NMED source ID=36430EQPT2 Facility's ID=ENG-2
** Description=1863-hp Caterpillar G3606 LE Construction date=09-MAY-16
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7706hr/yr, 21hr/day
SO LOCATION 36430E2 POINT 619105.326 3558389.88 0
SO SRCPARAM 36430E2 .0201597 8.84 699.26 76.41 .3
** NMED source ID=36430EQPT3 Facility's ID=GEN-1
** Description=50.6-hp Capstone/C200 Microturbine Construction date=09-MAY-16
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2208hr/yr, 6hr/day
SO LOCATION 36430E3 POINT 619098.54 3558393.432 0
SO SRCPARAM 36430E3 .00126 3.66 552.59 74.46 .08
** NMED source ID=36430EQPT5 Facility's ID=Htr-1
** Description=1.0 MMBtu/hr Heater Construction date=27-JUL-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4609hr/yr, 13hr/day
SO LOCATION 36430E5 POINT 619090.943 3558391.34 0
SO SRCPARAM 36430E5 .00126 4.57 588.71 4.85 .2
** NMED source ID=36430EQPT7 Facility's ID=GEN-3
** Description=146-hp PSI /8.1 LNA Construction date=27-JUL-19
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36430E7 POINT 619086.702 3558384.44 0
SO SRCPARAM 36430E7 .00126 1.83 922.04 68.31 .08
**********END OF 36430: Enterprise - Devon Cotton Draw Compressor Station
INFO**********************************
************************************************************
** 21.01km away. Facility ID=40179 Name=Red Tank 26 BOO Station
** Company ID=13962 Name=USA Compression Partners LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.365751, -103.650989, WGS84
** Total Sulfur Dioxide emissions=.42tons/year
*****************Facility sources: ****************************
** NMED source ID=40179EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E1 POINT 626917.931 3581777.603 0
SO SRCPARAM 40179E1 .00126 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT2 Facility's ID=ENG-2
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** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E2 POINT 626925.467 3581784.624 0
SO SRCPARAM 40179E2 .00126 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E3 POINT 626918.681 3581788.176 0
SO SRCPARAM 40179E3 .00126 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=28-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E4 POINT 626911.084 3581786.084 0
SO SRCPARAM 40179E4 .00126 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT10 Facility's ID=REB-1
** Description=Reboiler, 0.875 MMBtu/hr Construction date=28-SEP-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E10 POINT 626906.843 3581779.184 0
SO SRCPARAM 40179E10 .0002898 3.05 533.15 .16 .24
** NMED source ID=40179EQPT14 Facility's ID=REB-2
** Description=Reboiler, 0.875 MMBtu/hr Construction date=28-SEP-21
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E14 POINT 626908.495 3581771.03 0
SO SRCPARAM 40179E14 .0002898 3.05 533.15 .16 .24
** NMED source ID=40179EQPT16 Facility's ID=ENG-5
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=23-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E16 POINT 626915.444 3581766.068 0
SO SRCPARAM 40179E16 .00126 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT17 Facility's ID=ENG-6
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=23-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E17 POINT 626924.127 3581767.21 0
SO SRCPARAM 40179E17 .00126 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT18 Facility's ID=ENG-7
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=23-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E18 POINT 626929.837 3581774.138 0
SO SRCPARAM 40179E18 .00126 4.57 704.82 105.46 .3
** NMED source ID=40179EQPT19 Facility's ID=ENG-8
** Description=Compressor Engine, Caterpillar G3608-A4, 2500 hp Construction
date=23-SEP-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40179E19 POINT 626929.272 3581783.319 0
SO SRCPARAM 40179E19 .00126 4.57 704.82 105.46 .3
**********END OF 40179: Red Tank 26 BOO Station
INFO***********************************
************************************************************
** 21.02km away. Facility ID=33319 Name=Ragin Cajun Central Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5481 NOI
** lat,long,datum=32.037, -103.436, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=33319EQPT11 Facility's ID=23
** Description=Combustor 1_EQ000152428 Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8664hr/yr, 24hr/day
SO LOCATION 33319E11 POINT 647676.886 3545606.301 0
SO SRCPARAM 33319E11 .127258 6.1 1273 20 2.632
** NMED source ID=33319EQPT19 Facility's ID=17 SSM
** Description=Flare 1_EQ000152288 Construction date=18-AUG-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33319E19 POINT 647684.422 3545613.322 0
SO SRCPARAM 33319E19 .0002898 6.1 1273 20 20.806
**********END OF 33319: Ragin Cajun Central Battery
INFO***********************************
************************************************************
** 21.02km away. Facility ID=40046 Name=Crunch Berry CTB
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.399237, -103.51646, WGS84
** Total Sulfur Dioxide emissions=.01tons/year
```

**********Facility sources: **********
** NMED source ID=40046EQPT7 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=16-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40046E7 POINT 639524.385 3585657.563 0
SO SRCPARAM 40046E7 .0002898 4.57 863.15 24.17 .2
**********END OF 40046: Crunch Berry CTB INFO**********
**********
** 21.03km away. Facility ID=38518 Name=Tour Bus 23 State No 505H and 506H No101H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.383628, -103.434325, WGS84
** Total Sulfur Dioxide emissions=.02tons/year
**********Facility sources: **********
** NMED source ID=38518CONT1 Facility's ID=FL-2-LP
** Description=Flare Construction date=26-JUL-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3552hr/yr, 24hr/day
SO LOCATION 38518C1 POINT 647275.183 3584037.212 0
SO SRCPARAM 38518C1 .0050399 6 1273 20 2.632
** NMED source ID=38518EQPT14 Facility's ID=FL-1-LP
** Description=Flare Construction date=27-JUL-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38518E14 POINT 647282.719 3584044.233 0
SO SRCPARAM 38518E14 .0050399 6 1273 20 2.632
**********END OF 38518: Tour Bus 23 State No 505H and 506H No101H
INFO**********
**********
** 21.05km away. Facility ID=38200 Name=Cotton Draw Unit 118 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=7609 NOI
** lat,long,datum=32.194658, -103.746547, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
**********Facility sources: **********
** NMED source ID=38200EQPT13 Facility's ID=Flare 1_5356 SSM
** Description=Flare 1_EQ000155356 Construction date=01-APR-10
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38200E13 POINT 618148.623 3562701.102 0
SO SRCPARAM 38200E13 .0002898 6.1 1273 20 20.806
**********END OF 38200: Cotton Draw Unit 118 Battery
INFO**********
**********
** 21.06km away. Facility ID=40396 Name=Cotton Draw Unit 12 CTB 12

```
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.140607, -103.731556, NAD83
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=40396EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516B, 1380 hp Construction date=08-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40396E1 POINT 619632.389 3556725.729 0
SO SRCPARAM 40396E1 .00126 7.32 715.37 37.76 .38
** NMED source ID=40396EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516B, 1380 hp Construction date=08-APR-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40396E2 POINT 619639.925 3556732.75 0
SO SRCPARAM 40396E2 .00126 7.32 715.37 37.76 .38
** NMED source ID=40396EQPT4 Facility's ID=HT-1
** Description=3 MMBtu/h Heater Treater Construction date=08-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40396E4 VOLUME 619633.139 3556736.302 0
SO SRCPARAM 40396E4 .0002898 9.14 .47 .93
** NMED source ID=40396EQPT5 Facility's ID=HT-2
** Description=3 MMBtu/h Heater Treater Construction date=08-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40396E5 VOLUME 619625.542 3556734.21 0
SO SRCPARAM 40396E5 .0002898 9.14 .47 .93
**********END OF 40396: Cotton Draw Unit 12 CTB 12
INFO**********************************
************************************************************
** 21.12km away. Facility ID=32464 Name=EOG - Endurance 25 Fed Com No1H
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0208, -103.5236, NAD83
** Total Sulfur Dioxide emissions=.12tons/year
*****************Facility sources: ****************************
** NMED source ID=32464EQPT1 Facility's ID=ECD
** Description=Enclosed Combustion Device Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 32464E1 POINT 639429.187 3543693.926 0
SO SRCPARAM 32464E1 .0002898 7.01 1273 20 .71
** NMED source ID=32464EQPT7 Facility's ID=ENG-1
```

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** Description=Gas Lift Engine (203hp) Construction date=26-AUG-21
** SCC=31000220
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 32464E7 POINT 639436.723 3543700.947 0
SO SRCPARAM 32464E7 .00252 4.88 846.48 33.83 .13
**********END OF 32464: EOG - Endurance 25 Fed Com No1H
INFO**********************************
************************************************************
** 21.18km away. Facility ID=39840 Name=Cimarex - West Grama Ridge 7-6 Fed 1H, 3H
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.400133, -103.50458, WGS84
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=39840EQPT3 Facility's ID=GEN-1
** Description=Generator Engine 4SRB Construction date=01-JAN-11
** SCC=20100202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39840E3 POINT 640640.398 3585772.467 0
SO SRCPARAM 39840E3 .0002898 2.29 1023.15 215.25 .09
** NMED source ID=39840EQPT4 Facility's ID=H-1
** Description=Heater Treater 1 (2MM Btu/h) Construction date=11-JAN-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39840E4 VOLUME 640647.934 3585779.488 0
SO SRCPARAM 39840E4 .0002898 4.57 .47 .93
**********END OF 39840: Cimarex - West Grama Ridge 7-6 Fed 1H, 3H
INFO**********************************
************************************************************
** 21.19km away. Facility ID=38751 Name=Speedy 16 State Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=8115 NOI
** lat,long,datum=32.3963, -103.5733, WGS84
** Total Sulfur Dioxide emissions=13.13tons/year
*****************Facility sources: ******************************
** NMED source ID=38751EQPT3 Facility's ID=Flare-1
** Description=Emergency Flare Construction date=28-DEC-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38751E3 POINT 634182.543 3585259.188 0
SO SRCPARAM 38751E3 .377994 9.14 1273 20 2.632
** NMED source ID=38751EQPT5 Facility's ID=ENG
** Description=Gas Lift Compression Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=7343hr/yr, 23hr/day
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SO LOCATION 38751E5 POINT 634190.079 3585266.209 0
SO SRCPARAM 38751E5 0 7 730 28 .3
**********END OF 38751: Speedy 16 State Com CTB
INFO**********************************
************************************************************
** 21.23km away. Facility ID=41026 Name=Songbird Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.107066, -103.71317, WGS84
** Total Sulfur Dioxide emissions=22.59tons/year
*****************Facility sources: ******************************
** NMED source ID=41026EQPT2 Facility's ID=ECD-1
** Description=Enclosed Combustor Construction date=12-JUL-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E2 POINT 621410.992 3553028.055 0
SO SRCPARAM 41026E2 .0002898 7.14 1033.15 3.76 1.52
** NMED source ID=41026EQPT3 Facility's ID=ECD-2
** Description=Enclosed Combustor Construction date=12-JUL-23
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E3 POINT 621418.528 3553035.076 0
SO SRCPARAM 41026E3 .00126 10.67 1144.26 11.8 1.68
** NMED source ID=41026EQPT4 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E4 POINT 621411.742 3553038.628 0
SO SRCPARAM 41026E4 .1083583 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT5 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E5 POINT 621404.145 3553036.536 0
SO SRCPARAM 41026E5 .1083583 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT6 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E6 POINT 621399.904 3553029.636 0
SO SRCPARAM 41026E6 .1083583 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT7 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E7 POINT 621401.556 3553021.482 0
SO SRCPARAM 41026E7 .1083583 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT8 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E8 POINT 621408.505 3553016.52 0
SO SRCPARAM 41026E8 .1083583 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT9 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=12-JUL-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E9 POINT 621417.188 3553017.662 0
SO SRCPARAM 41026E9 .1083583 7.01 710.93 58.98 .41
** NMED source ID=41026EQPT20 Facility's ID=FL-1 SSM
** Description=Maintenance Flare Construction date=12-JUL-23
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41026E20 POINT 621422.898 3553024.59 0
SO SRCPARAM 41026E20 .0005796 10.67 1273 20 20.806
**********END OF 41026: Songbird Compressor Station
INFO**********************************
************************************************************
** 21.24km away. Facility ID=40511 Name=Cotton Draw Unit 26 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9653 NOI
** lat,long,datum=32.194366, -103.748606, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=40511EQPT1 Facility's ID=ENG 1
** Description=Engine 1 Construction date=24-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40511E1 POINT 617954.908 3562666.47 0
SO SRCPARAM 40511E1 .0002898 5.85 952.59 31.94 .27
** NMED source ID=40511EQPT2 Facility's ID=ENG 2
** Description=Engine 2 Construction date=24-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40511E2 POINT 617962.444 3562673.491 0
SO SRCPARAM 40511E2 .0002898 4.39 790.93 14.04 .26
**********END OF 40511: Cotton Draw Unit 26 Wellpad 2
INFO**********************************
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** 21.24km away. Facility ID=40849 Name=Colossus 18 19 Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.049509, -103.403121, NAD83
** Total Sulfur Dioxide emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=40849EQPT3 Facility's ID=GEN-01
** Description=Generator Engine 1 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E3 POINT 650761.244 3547038.519 0
SO SRCPARAM 40849E3 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT4 Facility's ID=GEN-02
** Description=Generator Engine 2 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E4 POINT 650768.78 3547045.54 0
SO SRCPARAM 40849E4 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT5 Facility's ID=GEN-03
** Description=Generator Engine 3 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E5 POINT 650761.994 3547049.092 0
SO SRCPARAM 40849E5 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT6 Facility's ID=GEN-04
** Description=Generator Engine 4 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E6 POINT 650754.397 3547047 0
SO SRCPARAM 40849E6 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT7 Facility's ID=GEN-05
** Description=Generator Engine 5 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E7 POINT 650750.156 3547040.1 0
SO SRCPARAM 40849E7 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT8 Facility's ID=GEN-06
** Description=Generator Engine 6 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E8 POINT 650751.808 3547031.946 0
SO SRCPARAM 40849E8 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT9 Facility's ID=GEN-07
** Description=Generator Engine 7 Construction date=20-JAN-23
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E9 POINT 650758.757 3547026.984 0
SO SRCPARAM 40849E9 .0002898 4.51 744.26 145.91 .09
** NMED source ID=40849EQPT10 Facility's ID=GEN-08
** Description=Generator Engine 8 Construction date=20-JAN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40849E10 POINT 650767.44 3547028.126 0
SO SRCPARAM 40849E10 .0002898 4.51 744.26 145.91 .09
**********END OF 40849: Colossus 18 19 Fed Com CTB
INFO**********************************
************************************************************
** 21.25km away. Facility ID=40103 Name=EOG - El Jefe LGL Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0956, -103.7039, WGS84
** Total Sulfur Dioxide emissions=4.98tons/year
*****************Facility sources: ****************************
** NMED source ID=40103EQPT4 Facility's ID=Flare-1
** Description=Dual-tip Flare 5.23-MMSCFD Construction date=17-AUG-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40103E4 POINT 622300.954 3551767.453 0
SO SRCPARAM 40103E4 .00126 12.19 1273 20 2.632
** NMED source ID=40103EQPT7 Facility's ID=Reboiler-1
** Description=Dehydrator Reboiler 1.0 MMBtu/hr Construction date=17-AUG-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40103E7 POINT 622308.49 3551774.474 0
SO SRCPARAM 40103E7 .00252 3.96 588.71 2.65 .3
** NMED source ID=40103EQPT8 Facility's ID=Heater-1
** Description=Separator Heater 1.5 MMBtu/hr Construction date=17-AUG-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40103E8 VOLUME 622301.704 3551778.026 0
SO SRCPARAM 40103E8 .0037799 3.96 .47 .93
** NMED source ID=40103EQPT9 Facility's ID=ENG-1
** Description=Caterpillar G3608 2500hp Construction date=17-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40103E9 POINT 622294.107 3551775.934 0
SO SRCPARAM 40103E9 .0239396 6.1 688.15 25.51 .61
** NMED source ID=40103EQPT10 Facility's ID=ENG-2
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** Description=Caterpillar G3608 2500hp Construction date=17-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40103E10 POINT 622289.866 3551769.034 0
SO SRCPARAM 40103E10 .0239396 6.1 688.15 25.51 .61
** NMED source ID=40103EQPT11 Facility's ID=ENG-3
** Description=Caterpillar G3608 2500hp Construction date=17-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40103E11 POINT 622291.518 3551760.88 0
SO SRCPARAM 40103E11 .0239396 6.1 688.15 25.51 .61
** NMED source ID=40103EQPT12 Facility's ID=ENG-4
** Description=Caterpillar G3608 2500hp Construction date=17-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40103E12 POINT 622298.467 3551755.918 0
SO SRCPARAM 40103E12 .0239396 6.1 688.15 25.51 .61
** NMED source ID=40103EQPT13 Facility's ID=ENG-5
** Description=Caterpillar G3608 2500hp Construction date=17-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40103E13 POINT 622307.15 3551757.06 0
SO SRCPARAM 40103E13 .0239396 6.1 688.15 25.51 .61
** NMED source ID=40103EQPT14 Facility's ID=ENG-6
** Description=Caterpillar G3606 1875hp Construction date=17-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40103E14 POINT 622312.86 3551763.988 0
SO SRCPARAM 40103E14 .0176397 4.57 701.48 27.86 .51
**********END OF 40103: EOG - El Jefe LGL Station
INFO**********************************
************************************************************
** 21.27km away. Facility ID=40247 Name=Cotton Draw Unit 26 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.192735, -103.74874, NAD83
** Total Sulfur Dioxide emissions=.41tons/year
*****************Facility sources: ****************************
** NMED source ID=40247EQPT1 Facility's ID=FL-1 LP
** Description=15.5 MMSCFD low pressure side, pilot & tanks Construction
date=14-DEC-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247E1 POINT 617944.381 3562485.515 0
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SO SRCPARAM 40247E1 .0302395 12.19 1273 20 14.712
** NMED source ID=40247EQPT3 Facility's ID=HT-1
** Description=3.0 MM Btu/hr heater treater EQ000889383 Construction date=14-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247E3 VOLUME 617951.917 3562492.536 0
SO SRCPARAM 40247E3 .00126 9.14 .47 .93
** NMED source ID=40247EQPT4 Facility's ID=HT-2
** Description=3.0 MM Btu/hr heater treater EQ000891675 Construction date=14-DEC-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247E4 VOLUME 617945.131 3562496.088 0
SO SRCPARAM 40247E4 .00126 9.14 .47 .93
** NMED source ID=40247EQPT14 Facility's ID=ENG 1
** Description=Gas Lift Engine Construction date=25-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247E14 POINT 617937.534 3562493.996 0
SO SRCPARAM 40247E14 .00126 5.85 772.59 37.4 .27
** NMED source ID=40247EQPT15 Facility's ID=ENG 2
** Description=Gas Lift Engine Construction date=25-MAY-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40247E15 POINT 617933.293 3562487.096 0
SO SRCPARAM 40247E15 .00126 5.85 772.59 37.4 .27
**********END OF 40247: Cotton Draw Unit 26 CTB 2
INFO************************************
************************************************************
** 21.28km away. Facility ID=634 Name=Compressor Station No139, GCP1-0442
** Company ID=583 Name=Natural Gas Pipeline Co of America
** SIC=4922 NAIC=48621    Permit=unknown
** lat,long,datum=32.104224, -103.336191, Unknown
** Total Sulfur Dioxide emissions=95tons/year
*****************Facility sources: ******************************
** NMED source ID=634EQPT2 Facility's ID=002
** Description= Construction date=06-JUL-01
** SCC=20200201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 634E2 POINT 656987.296 3553199.911 0
SO SRCPARAM 634E2 2.7316366 4.57 709.82 41.76 1.07
**********END OF 634: Compressor Station No139, GCP1-0442
INFO************************************
************************************************************
** 21.31km away. Facility ID=35680 Name=Thor 21 CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0234, -103.5715, WGS84
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=35680EQPT12 Facility's ID=F-HTR-1
** Description=Heater Treater Construction date=16-APR-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35680E12 VOLUME 634901.345 3543921.335 0
SO SRCPARAM 35680E12 .0002898 4.88 .47 .93
** NMED source ID=35680EQPT17 Facility's ID=HTR-1
** Description=Heater Treater Construction date=16-APR-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35680E17 VOLUME 634908.881 3543928.356 0
SO SRCPARAM 35680E17 .0002898 4.88 .47 .93
** NMED source ID=35680EQPT18 Facility's ID=HTR-2
** Description=Heater Treater Construction date=16-APR-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35680E18 VOLUME 634902.095 3543931.908 0
SO SRCPARAM 35680E18 .0002898 4.88 .47 .93
**********END OF 35680: Thor 21 CTB INFO************************************
************************************************************
** 21.34km away. Facility ID=9498 Name=Red Tank 27 Compressor Station
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.361872, -103.663167, WGS84
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=9498EQPT2 Facility's ID=REB-1
** Description=Glycol Reboiler Construction date=19-JAN-24
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9498E2 POINT 625777.48 3581333.19 0
SO SRCPARAM 9498E2 .0002898 3.05 533.15 .16 .24
** NMED source ID=9498EQPT3 Facility's ID=VCU-1
** Description=Vapor Combustor Unit Construction date=19-JAN-24
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 9498E3 POINT 625785.016 3581340.211 0
SO SRCPARAM 9498E3 .0062999 10.67 922.04 7.25 .2
**********END OF 9498: Red Tank 27 Compressor Station
INFO************************************
************************************************************
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** 21.36km away. Facility ID=40508 Name=Muskie 23 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9651 NOI
** lat,long,datum=32.029826, -103.447881, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=40508EQPT1 Facility's ID=ENG 1
** Description=Combustion Engine Construction date=19-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40508E1 POINT 646566.36 3544794.796 0
SO SRCPARAM 40508E1 .0002898 5.85 952.59 31.94 .27
** NMED source ID=40508EQPT2 Facility's ID=ENG 2
** Description=Combustion Engine Construction date=19-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40508E2 POINT 646573.896 3544801.817 0
SO SRCPARAM 40508E2 .0002898 4.39 790.93 14.04 .26
**********END OF 40508: Muskie 23 Wellpad 3
INFO***********************************
************************************************************
** 21.41km away. Facility ID=35139 Name=Salado Draw 19 CTB and CS
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=6109 NSR
** lat,long,datum=32.034917, -103.616556, NAD83
** Total Sulfur Dioxide emissions=21.71tons/year
*****************Facility sources: ******************************
** NMED source ID=35139EQPT2 Facility's ID=ENG-1
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6600hr/yr, 18hr/day
SO LOCATION 35139E2 POINT 630629.729 3545142.696 0
SO SRCPARAM 35139E2 .0680389 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT3 Facility's ID=ENG-2
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6402hr/yr, 17hr/day
SO LOCATION 35139E3 POINT 630637.265 3545149.717 0
SO SRCPARAM 35139E3 .0680389 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT4 Facility's ID=ENG-3
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=3738hr/yr, 10hr/day
SO LOCATION 35139E4 POINT 630630.479 3545153.269 0
SO SRCPARAM 35139E4 .0680389 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT6 Facility's ID=REB-1
** Description=Glycol Dehydration-Reboiler (1MMBtu/hr) Construction date=07-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35139E6 POINT 630622.882 3545151.177 0
SO SRCPARAM 35139E6 .0062999 6.1 533.15 2.5 .3
** NMED source ID=35139EQPT7 Facility's ID=HTR-1
** Description=Heater-Treater (4 MMBtu/hr) Construction date=07-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E7 VOLUME 630618.641 3545144.277 0
SO SRCPARAM 35139E7 .0264596 6.1 .47 .93
** NMED source ID=35139EQPT9 Facility's ID=HTR-2
** Description=Heater-Treater (4 MMBtu/hr) Construction date=07-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E9 VOLUME 630620.293 3545136.123 0
SO SRCPARAM 35139E9 .0264596 6.1 .47 .93
** NMED source ID=35139EQPT10 Facility's ID=HTR-3
** Description=Heater-Treater (4 MMBtu/hr) Construction date=07-JAN-15
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E10 VOLUME 630627.242 3545131.161 0
SO SRCPARAM 35139E10 .0264596 6.1 .47 .93
** NMED source ID=35139EQPT14 Facility's ID=ENG-4
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7385hr/yr, 20hr/day
SO LOCATION 35139E14 POINT 630635.925 3545132.303 0
SO SRCPARAM 35139E14 .0680389 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT16 Facility's ID=FLARE
** Description=Flare Construction date=11-FEB-16
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35139E16 POINT 630641.635 3545139.231 0
SO SRCPARAM 35139E16 .0541791 6.1 1273 20 18.61
** NMED source ID=35139EQPT21 Facility's ID=SEP-1
** Description=Heated Separator (4 MMBtu/hr) Construction date=12-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E21 VOLUME 630641.07 3545148.412 0
SO SRCPARAM 35139E21 .0264596 6.1 .47 .93
** NMED source ID=35139EQPT22 Facility's ID=SEP-2
** Description=Heated Separator (4 MMBtu/hr) Construction date=12-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E22 VOLUME 630634.235 3545154.89 0
SO SRCPARAM 35139E22 .0264596 6.1 .47 .93
** NMED source ID=35139EQPT23 Facility's ID=SEP-3
** Description=Heated Separator (4 MMBtu/hr) Construction date=12-OCT-17
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 35139E23 VOLUME 630624.599 3545154.967 0
SO SRCPARAM 35139E23 .0264596 6.1 .47 .93
** NMED source ID=35139EQPT24 Facility's ID=ENG-5
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7398hr/yr, 20hr/day
SO LOCATION 35139E24 POINT 630617.338 3545148.301 0
SO SRCPARAM 35139E24 .0680389 6.1 817.59 32.92 .41
** NMED source ID=35139EQPT25 Facility's ID=ENG-6
** Description=Caterpillar G3516B LE Compressor Engine (with Catalyst) Construction
date=21-MAR-16
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35139E25 POINT 630616.558 3545138.255 0
SO SRCPARAM 35139E25 .0680389 6.1 817.59 32.92 .41
**********END OF 35139: Salado Draw 19 CTB and CS
INFO***********************************
************************************************************
** 21.42km away. Facility ID=40315 Name=Muskie 23 CTB 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.031495, -103.44083, NAD83
** Total Sulfur Dioxide emissions=.42tons/year
*****************Facility sources: ******************************
** NMED source ID=40315EQPT1 Facility's ID=FL-1 LP
** Description=Flare LP Construction date=30-MAR-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40315E1 POINT 647229.586 3544989.414 0
SO SRCPARAM 40315E1 .0314995 12.19 1273 20 16.116
** NMED source ID=40315EQPT3 Facility's ID=HT-1
```

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** Description=Heater Treater 1 Construction date=30-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40315E3 VOLUME 647237.122 3544996.435 0
SO SRCPARAM 40315E3 .00126 9.14 .47 .93
** NMED source ID=40315EQPT4 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=30-MAR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40315E4 VOLUME 647230.336 3544999.987 0
SO SRCPARAM 40315E4 .00126 9.14 .47 .93
**********END OF 40315: Muskie 23 CTB 4 INFO**********************************
************************************************************
** 21.45km away. Facility ID=6933 Name=Cronus Compressor Station
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.347435, -103.684247, WGS84
** Total Sulfur Dioxide emissions=8.37tons/year
*****************Facility sources: ******************************
** NMED source ID=6933EQPT2 Facility's ID=ENG-1
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E2 POINT 623813.666 3579708.106 0
SO SRCPARAM 6933E2 .0264596 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT3 Facility's ID=ENG-2
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E3 POINT 623821.202 3579715.127 0
SO SRCPARAM 6933E3 .0264596 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT4 Facility's ID=ENG-3
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E4 POINT 623814.416 3579718.679 0
SO SRCPARAM 6933E4 .0264596 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT5 Facility's ID=ENG-4
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E5 POINT 623806.819 3579716.587 0
SO SRCPARAM 6933E5 .0264596 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT6 Facility's ID=ENG-5
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** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E6 POINT 623802.578 3579709.687 0
SO SRCPARAM 6933E6 .0264596 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT7 Facility's ID=ENG-6
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E7 POINT 623804.23 3579701.533 0
SO SRCPARAM 6933E7 .0264596 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT8 Facility's ID=ENG-7
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E8 POINT 623811.179 3579696.571 0
SO SRCPARAM 6933E8 .0264596 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT9 Facility's ID=ENG-8
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E9 POINT 623819.862 3579697.713 0
SO SRCPARAM 6933E9 .0264596 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT10 Facility's ID=ENG-9
** Description=CAT G3608 2500 hp engine Construction date=21-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E10 POINT 623825.572 3579704.641 0
SO SRCPARAM 6933E10 .0264596 6.1 703.15 46.33 .46
** NMED source ID=6933EQPT11 Facility's ID=FL-1
** Description=Process Flare Construction date=21-NOV-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E11 POINT 623825.007 3579713.822 0
SO SRCPARAM 6933E11 .0002898 12.19 1273 20 20.806
** NMED source ID=6933EQPT13 Facility's ID=Heater-1
** Description=0.75 MMbtu/h Seperator Heater Construction date=21-NOV-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E13 VOLUME 623818.172 3579720.3 0
SO SRCPARAM 6933E13 .00126 3.96 .47 .93
** NMED source ID=6933EQPT15 Facility's ID=Reboiler-1
** Description=2 MMbtu/hr Dehydrator Reboiler Construction date=21-NOV-23
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** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6933E15 POINT 623808.536 3579720.377 0
SO SRCPARAM 6933E15 .0037799 3.96 588.71 5.3 .3
**********END OF 6933: Cronus Compressor Station
INFO**********************************
************************************************************
** 21.45km away. Facility ID=40747 Name=Muskie 23 CTB 5
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.032987, -103.435491, NAD83
** Total Sulfur Dioxide emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=40747EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=13-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40747E2 VOLUME 647731.397 3545162.111 0
SO SRCPARAM 40747E2 .00126 9.14 .47 .93
** NMED source ID=40747EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=13-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40747E3 VOLUME 647738.933 3545169.132 0
SO SRCPARAM 40747E3 .00126 9.14 .47 .93
** NMED source ID=40747EQPT13 Facility's ID=FL-1 SSM
** Description=Flare 1 Construction date=13-OCT-22
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40747E13 POINT 647732.147 3545172.684 0
SO SRCPARAM 40747E13 .0002898 12.19 1273 20 5.505
**********END OF 40747: Muskie 23 CTB 5 INFO**********************************
************************************************************
** 21.45km away. Facility ID=40509 Name=Muskie 23 Wellpad 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9652 NOI
** lat,long,datum=32.030144, -103.444057, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=40509EQPT1 Facility's ID=ENG 1
** Description=Engine 1 Construction date=20-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40509E1 POINT 646926.991 3544835.246 0
SO SRCPARAM 40509E1 .0002898 5.85 256.07 31.94 .27
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** NMED source ID=40509EQPT2 Facility's ID=ENG 2
** Description=Engine 2 Construction date=20-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40509E2 POINT 646934.527 3544842.267 0
SO SRCPARAM 40509E2 .0002898 4.39 790.93 14.04 .26
**********END OF 40509: Muskie 23 Wellpad 4
INFO**********************************
************************************************************
** 21.47km away. Facility ID=8508 Name=Purrito 18 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.308076, -103.720666, NAD83
** Total Sulfur Dioxide emissions=.14tons/year
****************Facility sources: ******************************
** NMED source ID=8508EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Gas Lift Engine Construction date=05-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E1 POINT 620438.462 3575303.226 0
SO SRCPARAM 8508E1 .00126 5.85 772.59 37.4 .27
** NMED source ID=8508EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Generator Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E3 POINT 620445.998 3575310.247 0
SO SRCPARAM 8508E3 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8508EQPT4 Facility's ID=ENG 4
** Description=ENG 4 Generator Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E4 POINT 620439.212 3575313.799 0
SO SRCPARAM 8508E4 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8508EQPT5 Facility's ID=ENG 5
** Description=ENG 5 Generator Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E5 POINT 620431.615 3575311.707 0
SO SRCPARAM 8508E5 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8508EQPT6 Facility's ID=ENG 6
** Description=ENG 6 Generator Engine Construction date=05-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E6 POINT 620427.374 3575304.807 0
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SO SRCPARAM 8508E6 .0002898 3.17 1005.37 77.48 .15
** NMED source ID=8508EQPT11 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=05-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E11 VOLUME 620429.026 3575296.653 0
SO SRCPARAM 8508E11 .00126 9.14 .47 .93
** NMED source ID=8508EQPT12 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=05-DEC-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E12 VOLUME 620435.975 3575291.691 0
SO SRCPARAM 8508E12 .00126 9.14 .47 .93
** NMED source ID=8508EQPT21 Facility's ID=FL-1 LP SSM
** Description=Flare 1 Low Pressure Side Construction date=05-DEC-23
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 8508E21 POINT 620444.658 3575292.833 0
SO SRCPARAM 8508E21 .0008568 12.19 1273 20 20.806
**********END OF 8508: Purrito 18 CTB 1 INFO************************************
************************************************************
** 21.49km away. Facility ID=36830 Name=Rattlesnake 21 East CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0218, -103.5717, WGS84
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=36830EQPT2 Facility's ID=FL-1
** Description=Process Flare Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 36830E2 POINT 634884.801 3543743.712 0
SO SRCPARAM 36830E2 .00126 12.19 1273 20 20.806
** NMED source ID=36830EQPT4 Facility's ID=Heater-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8616hr/yr, 24hr/day
SO LOCATION 36830E4 VOLUME 634892.337 3543750.733 0
SO SRCPARAM 36830E4 .0002898 4.88 .47 .93
** NMED source ID=36830EQPT18 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=01-JAN-16
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36830E18 POINT 634885.551 3543754.285 0
```

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SO SRCPARAM 36830E18 .0002898 12.19 1273 20 20.806
**********END OF 36830: Rattlesnake 21 East CTB
INFO**********************************
************************************************************
** 21.52km away. Facility ID=38694 Name=Picante Compressor Station
** Company ID=12729 Name=Delaware Basin Midstream, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.037986, -103.626833, WGS84
** Total Sulfur Dioxide emissions=2.97tons/year
*****************Facility sources: ****************************
** NMED source ID=38694EQPT1 Facility's ID=CE-1
** Description=1875 hp Cat G3606 A4 Construction date=21-NOV-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8213hr/yr, 24hr/day
SO LOCATION 38694E1 POINT 629654.929 3545470.531 0
SO SRCPARAM 38694E1 .0037799 7.62 691.48 47.58 .3
** NMED source ID=38694EQPT2 Facility's ID=CE-2
** Description=1875 hp Cat 3606 A4 Construction date=21-NOV-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8286hr/yr, 24hr/day
SO LOCATION 38694E2 POINT 629662.465 3545477.552 0
SO SRCPARAM 38694E2 .0037799 7.62 691.48 47.58 .3
** NMED source ID=38694EQPT3 Facility's ID=CE-3
** Description=1875 hp Cat 3606 A4 Construction date=21-NOV-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7150hr/yr, 24hr/day
SO LOCATION 38694E3 POINT 629655.679 3545481.104 0
SO SRCPARAM 38694E3 .0037799 7.62 691.48 47.58 .3
** NMED source ID=38694EQPT4 Facility's ID=CE-4
** Description=1875 hp Cat 3606 A4 Construction date=21-NOV-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8436hr/yr, 24hr/day
SO LOCATION 38694E4 POINT 629648.082 3545479.012 0
SO SRCPARAM 38694E4 .0037799 7.62 691.48 47.58 .3
** NMED source ID=38694EQPT7 Facility's ID=GEN-1
** Description=Office Diesel Generator Construction date=21-NOV-18
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5986hr/yr, 16hr/day
SO LOCATION 38694E7 POINT 629643.841 3545472.112 0
SO SRCPARAM 38694E7 .0163797 1.83 655.37 33.71 .09
** NMED source ID=38694EQPT13 Facility's ID=EC-1
** Description=Enclosed Vapor Combustor Construction date=21-NOV-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8713hr/yr, 24hr/day
```

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SO LOCATION 38694E13 POINT 629645.493 3545463.958 0
SO SRCPARAM 38694E13 .0138598 7.01 1273 20 1.22
** NMED source ID=38694EQPT14 Facility's ID=CE-5
** Description=1875 hp Cat 3606 A4 Construction date=22-JUL-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38694E14 POINT 629652.442 3545458.996 0
SO SRCPARAM 38694E14 .0037799 7.62 691.48 47.58 .3
** NMED source ID=38694EQPT15 Facility's ID=GEN-2
** Description=Hot Start Diesel Generator Construction date=22-JUL-20
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38694E15 POINT 629661.125 3545460.138 0
SO SRCPARAM 38694E15 .0163797 1.83 655.37 33.71 .09
** NMED source ID=38694EQPT16 Facility's ID=FL-1 SSM
** Description=SSM Flare Construction date=15-JUL-22
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38694E16 POINT 629666.835 3545467.066 0
SO SRCPARAM 38694E16 .0005796 9.14 1273 20 .67
** NMED source ID=38694EQPT18 Facility's ID=GEN-3
** Description=Heat Trace Diesel Generator Construction date=15-JUL-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2781hr/yr, 24hr/day
SO LOCATION 38694E18 POINT 629666.27 3545476.247 0
SO SRCPARAM 38694E18 .0138598 1.83 588.71 37.03 .06
** NMED source ID=38694EQPT19 Facility's ID=GEN-4
** Description=Light Tower Diesel Generator Construction date=15-JUL-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38694E19 POINT 629659.435 3545482.725 0
SO SRCPARAM 38694E19 .0037799 1.83 572.59 20.75 .03
** NMED source ID=38694EQPT20 Facility's ID=GEN-5
** Description=Light Tower Diesel Generator Construction date=15-JUL-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38694E20 POINT 629649.799 3545482.802 0
SO SRCPARAM 38694E20 .0037799 1.83 572.59 20.75 .03
**********END OF 38694: Picante Compressor Station
INFO**********************************
************************************************************
** 21.56km away. Facility ID=30051 Name=CDU Booster Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21112    Permit=unknown
```

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** lat,long,datum=32.1431, -103.7384, WGS84
** Total Sulfur Dioxide emissions=1.67tons/year
*****************Facility sources: ****************************
** NMED source ID=30051EQPT1 Facility's ID=ENG-1
** Description=Waukesha L-7042GSI 1465 hp w/compressor Construction date=07-SEP-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4701hr/yr, 24hr/day
SO LOCATION 30051E1 POINT 618983.618 3556994.511 0
SO SRCPARAM 30051E1 .00252 4.57 917.59 32.92 .38
** NMED source ID=30051EQPT2 Facility's ID=ENG-2
** Description=Waukesha L-7042GSI 1465 hp w/compressor Construction date=07-SEP-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2540hr/yr, 24hr/day
SO LOCATION 30051E2 POINT 618991.154 3557001.532 0
SO SRCPARAM 30051E2 .00252 4.57 917.59 32.92 .38
** NMED source ID=30051EQPT3 Facility's ID=ENG-3
** Description=Waukesha L-7042GSI 1465 hp w/compressor Construction date=07-SEP-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3857hr/yr, 24hr/day
SO LOCATION 30051E3 POINT 618984.368 3557005.084 0
SO SRCPARAM 30051E3 .00252 4.57 917.59 32.92 .38
** NMED source ID=30051EQPT4 Facility's ID=ENG-4
** Description=Waukesha L-7042GSI 1465 hp w/compressor Construction date=07-SEP-11
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2544hr/yr, 24hr/day
SO LOCATION 30051E4 POINT 618976.771 3557002.992 0
SO SRCPARAM 30051E4 .00252 4.57 917.59 32.92 .38
** NMED source ID=30051EQPT7 Facility's ID=ENG-5
** Description=Caterpillar G3516B LE, 1380 hp w/compressor Construction
date=17-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8325hr/yr, 24hr/day
SO LOCATION 30051E7 POINT 671488.299 3592698.753 1063.1
SO SRCPARAM 30051E7 .00126 4.57 880.93 38.1 .38
** NMED source ID=30051EQPT8 Facility's ID=ENG-6
** Description=Caterpillar G3516B LE, 1380 hp w/compressor Construction
date=17-SEP-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 30051E8 POINT 671488.299 3592698.753 1063.1
SO SRCPARAM 30051E8 .00126 4.57 880.93 38.1 .38
** NMED source ID=30051EQPT10 Facility's ID=RBL-1
** Description=0.75 MMBtu/hr TEG Dehydrator Reboiler Construction date=22-AUG-19
** SCC=31000228
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8424hr/yr, 24hr/day
SO LOCATION 30051E10 POINT 618981.131 3556982.976 0
SO SRCPARAM 30051E10 .0113398 7.01 588.71 1.5 .32
**********END OF 30051: CDU Booster Station
INFO************************************
************************************************************
** 21.6km away. Facility ID=40799 Name=Exotic Cat 5 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.336131, -103.698909, NAD83
** Total Sulfur Dioxide emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=40799EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=28-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40799E2 VOLUME 622449.081 3578438.073 0
SO SRCPARAM 40799E2 .00126 9.14 .47 .93
** NMED source ID=40799EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=28-OCT-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40799E3 VOLUME 622456.617 3578445.094 0
SO SRCPARAM 40799E3 .00126 9.14 .47 .93
** NMED source ID=40799EQPT13 Facility's ID=FL-1 SSM
** Description=Flare 1 Construction date=28-OCT-22
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40799E13 POINT 622449.831 3578448.646 0
SO SRCPARAM 40799E13 .0002898 12.19 1273 20 5.885
**********END OF 40799: Exotic Cat 5 CTB 2 INFO************************************
************************************************************
** 21.6km away. Facility ID=39310 Name=Queso Blanco CTB
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.387722, -103.430306, NAD83
** Total Sulfur Dioxide emissions=1.67tons/year
*****************Facility sources: ******************************
** NMED source ID=39310EQPT11 Facility's ID=ENG-1
** Description=Caterpillar 690 hp compressor engine Construction date=01-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39310E11 POINT 647646.609 3584496.644 0
SO SRCPARAM 39310E11 .0002898 7.32 799.82 41.86 .1
** NMED source ID=39310EQPT16 Facility's ID=FL-1
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** Description=21 MMSCFD Tri-Tip Flare Construction date=01-JUN-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39310E16 POINT 647654.145 3584503.665 0
SO SRCPARAM 39310E16 .0477532 12.19 1273 20 5.505
**********END OF 39310: Queso Blanco CTB INFO**********************************
************************************************************
** 21.64km away. Facility ID=40510 Name=Cotton Draw Unit 26 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9654 NOI
** lat,long,datum=32.194398, -103.752865, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=40510EQPT1 Facility's ID=ENG 1
** Description=Engine 1 Construction date=25-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40510E1 POINT 617553.391 3562665.353 0
SO SRCPARAM 40510E1 .0002898 5.85 952.59 31.94 .27
** NMED source ID=40510EQPT2 Facility's ID=ENG 2
** Description=Engine 2 Construction date=25-JUL-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40510E2 POINT 617560.927 3562672.374 0
SO SRCPARAM 40510E2 .0002898 4.39 790.93 14.04 .26
**********END OF 40510: Cotton Draw Unit 26 Wellpad 1
INFO**********************************
************************************************************
** 21.66km away. Facility ID=40982 Name=Muskie 23 Wellpad 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9927 NOI
** lat,long,datum=32.030273, -103.437491, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=40982EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=23-MAR-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40982E1 POINT 647546.876 3544858.499 0
SO SRCPARAM 40982E1 .0002898 5.85 723.71 34.47 .27
**********END OF 40982: Muskie 23 Wellpad 6
INFO**********************************
************************************************************
** 21.67km away. Facility ID=33008 Name=Cotton Draw Unit 219 CTB
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5302 NOI
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** lat,long,datum=32.152661, -103.743528, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=33008EQPT18 Facility's ID=20
** Description=Flare 1_EQ000200149 Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 33008E18 POINT 618487.584 3558048.756 0
SO SRCPARAM 33008E18 .00126 12.19 1273 20 3.604
**********END OF 33008: Cotton Draw Unit 219 CTB
INFO**********************************
************************************************************
** 21.67km away. Facility ID=38071 Name=Rocco Compressor Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1321 NAIC=21113    Permit=unknown
** lat,long,datum=32.313694, -103.719139, WGS84
** Total Sulfur Dioxide emissions=.14tons/year
*****************Facility sources: ******************************
** NMED source ID=38071EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516J Engine Construction date=18-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8456hr/yr, 24hr/day
SO LOCATION 38071E1 POINT 620574.783 3575927.754 0
SO SRCPARAM 38071E1 .00126 7.32 812.04 38.04 .38
** NMED source ID=38071EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516J Engine Construction date=18-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7764hr/yr, 24hr/day
SO LOCATION 38071E2 POINT 620582.319 3575934.775 0
SO SRCPARAM 38071E2 .00126 7.32 812.04 38.4 .38
** NMED source ID=38071EQPT6 Facility's ID=ENG-3
** Description=Caterpillar G3516J Engine Construction date=18-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7919hr/yr, 24hr/day
SO LOCATION 38071E6 POINT 620575.533 3575938.327 0
SO SRCPARAM 38071E6 .00126 7.32 812.04 38.04 .38
** NMED source ID=38071EQPT7 Facility's ID=ENG-4
** Description=Caterpillar G3516J Engine Construction date=18-OCT-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8400hr/yr, 24hr/day
SO LOCATION 38071E7 POINT 620567.936 3575936.235 0
SO SRCPARAM 38071E7 .00126 7.32 812.04 38.04 .38
** NMED source ID=38071EQPT8 Facility's ID=ENG-5
** Description=Caterpillar G3516J Engine Construction date=18-OCT-18
** SCC=20200254
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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8447hr/yr, 24hr/day
SO LOCATION 38071E8 POINT 620563.695 3575929.335 0
SO SRCPARAM 38071E8 .00126 7.32 812.04 38.04 .38
** NMED source ID=38071EQPT14 Facility's ID=GEN-1
** Description=276-hp Caterpillar G3406 Construction date=18-OCT-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38071E14 POINT 620565.347 3575921.181 0
SO SRCPARAM 38071E14 .0002898 5.64 814.82 27.46 .15
** NMED source ID=38071EQPT15 Facility's ID=ENG-6
** Description=Caterpillar G3516TALE+ Engine Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38071E15 POINT 620572.296 3575916.219 0
SO SRCPARAM 38071E15 .00126 7.92 821.48 15.67 .61
** NMED source ID=38071EQPT16 Facility's ID=ENG-7
** Description=Caterpillar G3516TALE+ Engine Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38071E16 POINT 620580.979 3575917.361 0
SO SRCPARAM 38071E16 .00126 7.92 821.48 15.67 .61
** NMED source ID=38071EQPT17 Facility's ID=ENG-8
** Description=Caterpillar G3516TALE+ Engine Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38071E17 POINT 620586.689 3575924.289 0
SO SRCPARAM 38071E17 .00126 7.92 821.48 15.67 .61
** NMED source ID=38071EQPT18 Facility's ID=ENG-9
** Description=Caterpillar G3516TALE+ Engine Construction date=27-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38071E18 POINT 620586.124 3575933.47 0
SO SRCPARAM 38071E18 .00126 7.92 821.48 15.67 .61
**********END OF 38071: Rocco Compressor Station
INFO**********************************
************************************************************
** 21.7km away. Facility ID=40983 Name=Muskie 23 Wellpad 7
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9928 NOI
** lat,long,datum=32.031256, -103.433618, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
****************Facility sources: ****************************
** NMED source ID=40983EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=23-MAR-23
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40983E1 POINT 647911.061 3544972.774 0
SO SRCPARAM 40983E1 .0002898 5.85 723.71 34.44 .27
**********END OF 40983: Muskie 23 Wellpad 7
INFO**********************************
************************************************************
** 21.79km away. Facility ID=38680 Name=COG - Hennin Federal 3B CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=8051 NOI
** lat,long,datum=32.0779, -103.353847, WGS84
** Total Sulfur Dioxide emissions=1.5tons/year
*****************Facility sources: ****************************
** NMED source ID=38680EQPT3 Facility's ID=VCU-01
** Description=Vapor Combustion Unit Construction date=01-JAN-20
** SCC=30609903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38680E3 POINT 655365.734 3550255.939 0
SO SRCPARAM 38680E3 .00126 7.01 755.37 .3 1.22
** NMED source ID=38680EQPT4 Facility's ID=HT-01
** Description=Heater Treater Burners Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38680E4 VOLUME 655373.27 3550262.96 0
SO SRCPARAM 38680E4 .0138598 4.57 .47 .93
** NMED source ID=38680EQPT5 Facility's ID=FL-01
** Description=LP Flare Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 14hr/day
SO LOCATION 38680E5 POINT 655366.484 3550266.512 0
SO SRCPARAM 38680E5 .00126 21.34 1273 20 20.806
** NMED source ID=38680EQPT7 Facility's ID=HT-02
** Description=Heater Treater Burners Construction date=19-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38680E7 VOLUME 655358.887 3550264.42 0
SO SRCPARAM 38680E7 .0138598 4.57 .47 .93
** NMED source ID=38680EQPT8 Facility's ID=HT-03
** Description=Heater Treater Burners Construction date=19-OCT-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38680E8 VOLUME 655354.646 3550257.52 0
SO SRCPARAM 38680E8 .0138598 4.57 .47 .93
**********END OF 38680: COG - Hennin Federal 3B CTB
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INFO**********************************
************************************************************
** 21.79km away. Facility ID=37713 Name=Medusa LGL
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0183, -103.5671, WGS84
** Total Sulfur Dioxide emissions=.7tons/year
*****************Facility sources: ******************************
** NMED source ID=37713EQPT17 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=12-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37713E17 POINT 635324.399 3543361.462 0
SO SRCPARAM 37713E17 .00252 7.01 719.26 27.07 .52
** NMED source ID=37713EQPT18 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=12-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8748hr/yr, 24hr/day
SO LOCATION 37713E18 POINT 635331.935 3543368.483 0
SO SRCPARAM 37713E18 .00252 7.01 719.26 27.07 .52
** NMED source ID=37713EQPT20 Facility's ID=RBL-1
** Description=Dehy Reboiler Construction date=12-OCT-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37713E20 POINT 635325.149 3543372.035 0
SO SRCPARAM 37713E20 .0002898 3.96 588.71 .29 .91
** NMED source ID=37713EQPT22 Facility's ID=FL-1
** Description=Flare Construction date=11-JAN-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37713E22 POINT 635317.552 3543369.943 0
SO SRCPARAM 37713E22 .0088199 15.24 1273 20 .86
** NMED source ID=37713EQPT24 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=29-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37713E24 POINT 635313.311 3543363.043 0
SO SRCPARAM 37713E24 .00252 7.01 712.04 27.31 .52
** NMED source ID=37713EQPT25 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=29-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37713E25 POINT 635314.963 3543354.889 0
SO SRCPARAM 37713E25 .00252 7.01 712.04 27.31 .52
```

```
** NMED source ID=37713EQPT26 Facility's ID=FL-1 SSM
** Description=Flare Construction date=20-JUN-17
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37713E26 POINT 635321.912 3543349.927 0
SO SRCPARAM 37713E26 .0002898 15.24 1273 20 .86
** NMED source ID=37713EQPT27 Facility's ID=FL-1 SSM
** Description=Flare Construction date=20-JUN-17
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37713E27 POINT 635330.595 3543351.069 0
SO SRCPARAM 37713E27 .0002898 15.24 1273 20 .86
**********END OF 37713: Medusa LGL INFO************************************
************************************************************
** 21.8km away. Facility ID=37266 Name=Rattlesnake 28 West CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0194, -103.5743, WGS84
** Total Sulfur Dioxide emissions=.31tons/year
*****************Facility sources: ******************************
** NMED source ID=37266EQPT2 Facility's ID=HTR-1
** Description=0.75 MMBtu/hr heater treater Construction date=12-MAR-21
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37266E2 VOLUME 634650.289 3543481.43 0
SO SRCPARAM 37266E2 .0002898 4.88 .47 .93
** NMED source ID=37266EQPT5 Facility's ID=FL-2
** Description=Emergency Flare Construction date=12-MAR-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37266E5 POINT 634643.503 3543484.982 0
SO SRCPARAM 37266E5 .00126 18.29 1273 20 2.632
** NMED source ID=37266EQPT19 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=08-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37266E19 POINT 634635.906 3543482.89 0
SO SRCPARAM 37266E19 .0005796 3.96 803.71 59.13 .13
** NMED source ID=37266EQPT20 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=08-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37266E20 POINT 634631.665 3543475.99 0
SO SRCPARAM 37266E20 .00126 3.96 1003.71 82.6 .13
```

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** NMED source ID=37266EQPT21 Facility's ID=HTR-2
** Description=Heater Treater Construction date=08-DEC-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37266E21 POINT 634633.317 3543467.836 0
SO SRCPARAM 37266E21 .0002898 7.32 588.71 .19 1.83
** NMED source ID=37266EQPT22 Facility's ID=HTR-3
** Description=Heater Treater Construction date=08-DEC-23
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37266E22 VOLUME 634640.266 3543462.874 0
SO SRCPARAM 37266E22 .0002898 4.88 .47 .93
** NMED source ID=37266EQPT28 Facility's ID=FL-1 SSM
** Description=Combustion & Pilot Emissions 5 MMSCFD Construction date=04-AUG-16
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37266E28 POINT 634648.949 3543464.016 0
SO SRCPARAM 37266E28 .0060353 12.19 1273 20 3.604
**********END OF 37266: Rattlesnake 28 West CTB
INFO**********************************
************************************************************
** 21.83km away. Facility ID=31865 Name=Rattlesnake 13-12 Fed No 1H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=4888 NOI
** lat,long,datum=32.036997, -103.416189, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=31865EQPT5 Facility's ID=18
** Description=Combustor 1_EQ000065547 Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5640hr/yr, 24hr/day
SO LOCATION 31865E5 POINT 649547.704 3545633.236 0
SO SRCPARAM 31865E5 .00126 6.1 1273 20 2.632
** NMED source ID=31865EQPT12 Facility's ID=15 SSM
** Description=Flare 1_EQ000065546 Construction date=25-AUG-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31865E12 POINT 649555.24 3545640.257 0
SO SRCPARAM 31865E12 .0002898 6.1 1273 20 20.806
**********END OF 31865: Rattlesnake 13-12 Fed No 1H
INFO**********************************
************************************************************
** 21.84km away. Facility ID=7689 Name=Maestro Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
```

```
** lat,long,datum=32.10442, -103.32895, WGS84
** Total Sulfur Dioxide emissions=92.88tons/year
*****************Facility sources: ******************************
** NMED source ID=7689EQPT11 Facility's ID=FL-1
** Description=Flare Construction date=23-OCT-23
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E11 POINT 657670.262 3553232.212 0
SO SRCPARAM 7689E11 10.834568 9.14 1273 20 .61
** NMED source ID=7689EQPT14 Facility's ID=RBL-1
** Description=Reboiler Construction date=23-OCT-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E14 POINT 657677.798 3553239.233 0
SO SRCPARAM 7689E14 .0005796 3.05 422.04 5 .3
** NMED source ID=7689EQPT15 Facility's ID=RBL-2
** Description=Reboiler Construction date=23-OCT-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E15 POINT 657671.012 3553242.785 0
SO SRCPARAM 7689E15 .0005796 3.05 422.04 5 .3
** NMED source ID=7689EQPT19 Facility's ID=ENG-1
** Description=Caterpillar G3516J Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E19 POINT 657663.415 3553240.693 0
SO SRCPARAM 7689E19 .0075599 7.92 707.04 28.93 .41
** NMED source ID=7689EQPT20 Facility's ID=ENG-2
** Description=Caterpillar G3516J Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E20 POINT 657659.174 3553233.793 0
SO SRCPARAM 7689E20 .0075599 7.92 707.04 28.93 .41
** NMED source ID=7689EQPT21 Facility's ID=ENG-3
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E21 POINT 657660.826 3553225.639 0
SO SRCPARAM 7689E21 .0100798 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT22 Facility's ID=ENG-4
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 7689E22 POINT 657667.775 3553220.677 0
SO SRCPARAM 7689E22 .0100798 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT23 Facility's ID=ENG-5
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E23 POINT 657676.458 3553221.819 0
SO SRCPARAM 7689E23 .0100798 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT24 Facility's ID=ENG-6
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E24 POINT 657682.168 3553228.747 0
SO SRCPARAM 7689E24 .0100798 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT25 Facility's ID=ENG-7
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E25 POINT 657681.603 3553237.928 0
SO SRCPARAM 7689E25 .0100798 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT26 Facility's ID=ENG-8
** Description=Caterpillar G3606 A4 Construction date=23-OCT-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E26 POINT 657674.768 3553244.406 0
SO SRCPARAM 7689E26 .0100798 8.53 719.26 27.51 .51
** NMED source ID=7689EQPT27 Facility's ID=GEN-1
** Description=Natural Gas Fired Generator Construction date=23-OCT-23
** SCC=20200202
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E27 POINT 657665.132 3553244.483 0
SO SRCPARAM 7689E27 .00252 1.8 572.59 15 .08
** NMED source ID=7689EQPT36 Facility's ID=FL-1 SSM
** Description=Flare Construction date=23-OCT-23
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 7689E36 POINT 657657.871 3553237.817 0
SO SRCPARAM 7689E36 .0210039 9.14 1273 20 .61
**********END OF 7689: Maestro Compressor Station
INFO**********************************
************************************************************
** 21.85km away. Facility ID=39173 Name=Airstream 24 State Com CTB 2
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
```

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** lat,long,datum=32.386306, -103.420503, WGS84
** Total Sulfur Dioxide emissions=.1tons/year
*****************Facility sources: ****************************
** NMED source ID=39173EQPT16 Facility's ID=ENG-2
** Description=Caterpillar G3508BLE Construction date=01-JAN-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6456hr/yr, 24hr/day
SO LOCATION 39173E16 POINT 648571.105 3584353.234 0
SO SRCPARAM 39173E16 .0002898 4.57 772.59 64.19 .21
** NMED source ID=39173EQPT20 Facility's ID=ENG-1
** Description=Caterpillar G3516TALE Construction date=23-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39173E20 POINT 648578.641 3584360.255 0
SO SRCPARAM 39173E20 .00126 7.62 771.48 28.62 .41
** NMED source ID=39173EQPT21 Facility's ID=ENG-3
** Description=Caterpillar CG 137-8 Engine, 400 hp Construction date=23-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39173E21 POINT 648571.855 3584363.807 0
SO SRCPARAM 39173E21 .0002898 3.66 802.59 15.1 .25
** NMED source ID=39173EQPT22 Facility's ID=ENG-4
** Description=Caterpillar 3306 B Engine, 145 hp Construction date=23-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39173E22 POINT 648564.258 3584361.715 0
SO SRCPARAM 39173E22 .0002898 3.35 909.26 18.32 .15
** NMED source ID=39173EQPT23 Facility's ID=ENG-5
** Description=Caterpillar 3306 B Engine, 145 hp Construction date=23-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39173E23 POINT 648560.017 3584354.815 0
SO SRCPARAM 39173E23 .0002898 3.35 909.26 18.32 .15
** NMED source ID=39173EQPT24 Facility's ID=FL-1
** Description=21 MMSCFD Tri-Tip Flare Construction date=23-JUN-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39173E24 POINT 648561.669 3584346.661 0
SO SRCPARAM 39173E24 .00126 12.19 1273 20 2.632
**********END OF 39173: Airstream 24 State Com CTB 2
INFO*************************************
************************************************************
** 21.85km away. Facility ID=34966 Name=EOG - Ophelia 27 No703H & No 501H
** Company ID=289 Name=EOG Resources Inc - Midland Division
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** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0164, -103.5582, WGS84
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=34966EQPT12 Facility's ID=Flare-1
** Description=8 MMscfd DBI Process Flare Construction date=09-OCT-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 34966E12 POINT 636167.812 3543162.014 0
SO SRCPARAM 34966E12 .0002898 12.19 1273 20 .7
**********END OF 34966: EOG - Ophelia 27 No703H & No 501H
INFO*************************************
************************************************************
** 21.86km away. Facility ID=40184 Name=Almost Eddy 30 Fed Com CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0978, -103.7138, WGS84
** Total Sulfur Dioxide emissions=1.31tons/year
*****************Facility sources: ******************************
** NMED source ID=40184EQPT1 Facility's ID=FL-1
** Description=Process Flare Construction date=27-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40184E1 POINT 621363.804 3552000.149 0
SO SRCPARAM 40184E1 .0002898 12.19 1273 20 20.806
** NMED source ID=40184EQPT2 Facility's ID=FL-2
** Description=Emergency Flare Construction date=27-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40184E2 POINT 621371.34 3552007.17 0
SO SRCPARAM 40184E2 .0002898 18.29 1273 20 20.806
** NMED source ID=40184EQPT3 Facility's ID=HTR-1
** Description=Heater Treater Construction date=27-OCT-21
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40184E3 VOLUME 621364.554 3552010.722 0
SO SRCPARAM 40184E3 .0002898 4.88 .47 .93
** NMED source ID=40184EQPT12 Facility's ID=FL-1 SSM
** Description=Process Flare Construction date=27-OCT-21
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40184E12 POINT 621356.957 3552008.63 0
SO SRCPARAM 40184E12 .0368166 12.19 1273 20 3.604
**********END OF 40184: Almost Eddy 30 Fed Com CTB
INFO*************************************
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**************************************************************
** 21.88km away. Facility ID=40806 Name=Stray Cat 5 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9790 NOI
** lat,long,datum=32.3402, -103.698576, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=40806EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=07-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40806E3 POINT 622474.941 3578889.546 0
SO SRCPARAM 40806E3 .0002898 4.39 790.93 14.04 .26
**********END OF 40806: Stray Cat 5 Wellpad 2
INFO*********************************
**************************************************************
** 21.99km away. Facility ID=38447 Name=Red Tank 27-28 CTB
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=7840 NOI
** lat,long,datum=32.364893, -103.669665, WGS84
** Total Sulfur Dioxide emissions=.14tons/year
*****************Facility sources: ******************************
** NMED source ID=38447EQPT4 Facility's ID=HTR-1
** Description=NOI 3.0 MMBtu/h Heater Treater Construction date=13-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38447E4 POINT 625161.898 3581660.485 0
SO SRCPARAM 38447E4 .00126 5.49 533.15 1.27 .15
** NMED source ID=38447EQPT18 Facility's ID=HTR-2
** Description=NOI 3.0 MMBTU/h Heater Treater Construction date=26-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38447E18 VOLUME 625169.434 3581667.506 0
SO SRCPARAM 38447E18 .00126 5.49 .47 .93
** NMED source ID=38447EQPT19 Facility's ID=HTR-3
** Description=NOI 3.0 MMBTU/h Heater Treater Construction date=26-DEC-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38447E19 VOLUME 625162.648 3581671.058 0
SO SRCPARAM 38447E19 .00126 5.49 .47 .93
** NMED source ID=38447EQPT23 Facility's ID=CHS-1
** Description=NOI 12 MMBtu/h Heater Treater Construction date=07-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38447E23 POINT 625155.051 3581668.966 0
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SO SRCPARAM 38447E23 .00252 5.49 533.15 5.09 .15
**********END OF 38447: Red Tank 27-28 CTB INFO**********************************
************************************************************
** 22.01km away. Facility ID=37152 Name=EOG - Ophelia 27 East CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.015, -103.558611, WGS84
** Total Sulfur Dioxide emissions=.14tons/year
*****************Facility sources: ******************************
** NMED source ID=37152EQPT2 Facility's ID=FL-1
** Description=Process Flare Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37152E2 POINT 636131.063 3543006.295 0
SO SRCPARAM 37152E2 .0037799 12.19 1273 20 2.632
** NMED source ID=37152EQPT4 Facility's ID=HTR-1
** Description=Heater Treater (0.75 MMBtu/h) Construction date=01-JAN-20
** SCC=31000129
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 37152E4 VOLUME 636138.599 3543013.316 0
SO SRCPARAM 37152E4 .0002898 4.88 .47 .93
**********END OF 37152: EOG - Ophelia 27 East CTB
INFO**********************************
************************************************************
** 22.08km away. Facility ID=35495 Name=Cotton Draw Unit 11 Bone Spring Central Tank
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=6281 NOI
** lat,long,datum=32.149364, -103.746792, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=35495EQPT3 Facility's ID=28
** Description=Flare 1_EQ000200130 Construction date=01-JAN-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 35495E3 POINT 618184.016 3557679.674 0
SO SRCPARAM 35495E3 .00126 13.72 1273 20 3.604
** NMED source ID=35495EQPT15 Facility's ID=28 SSM
** Description=Flare 1_EQ000200130 Construction date=29-JUL-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35495E15 POINT 618191.552 3557686.695 0
SO SRCPARAM 35495E15 .0002898 13.72 1273 20 20.806
**********END OF 35495: Cotton Draw Unit 11 Bone Spring Central Tank
INFO**********************************
************************************************************
** 22.09km away. Facility ID=38845 Name=Tomb Raider 12-1 CTB 1
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** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.309223, -103.727492, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=38845EQPT2 Facility's ID=HT-1
** Description=3.0 MMBtu/hr Heater Treater Construction date=08-MAR-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38845E2 VOLUME 619794.296 3575422.732 0
SO SRCPARAM 38845E2 .0002898 9.14 .47 .93
** NMED source ID=38845EQPT16 Facility's ID=HT-2
** Description=3.0 MMBtu/hr Heater Treater Construction date=29-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38845E16 VOLUME 619801.832 3575429.753 0
SO SRCPARAM 38845E16 .0002898 9.14 .47 .93
**********END OF 38845: Tomb Raider 12-1 CTB 1
INFO***********************************
************************************************************
** 22.1km away. Facility ID=34418 Name=Mean Green 27 Fed 1H
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5922 NOI
** lat,long,datum=32.021942, -103.450797, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=34418EQPT16 Facility's ID=26
** Description=Combustor Construction date=18-AUG-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34418E16 POINT 646303.509 3543916.816 0
SO SRCPARAM 34418E16 .0037799 6.1 1273 20 2.632
** NMED source ID=34418EQPT19 Facility's ID=19 SSM
** Description=Flare 1_EQ000146727 Construction date=18-AUG-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34418E19 POINT 646311.045 3543923.837 0
SO SRCPARAM 34418E19 .0002898 6.1 1273 20 20.806
**********END OF 34418: Mean Green 27 Fed 1H
INFO***********************************
************************************************************
** 22.16km away. Facility ID=39684 Name=Tomb Raider 12 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.311422, -103.726875, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
```

**********Facility sources: **********
** NMED source ID=39684EQPT1 Facility's ID=ENG 2
** Description=Engine 2_EQ000476103 Construction date=01-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1944hr/yr, 24hr/day
SO LOCATION 39684E1 POINT 619849.489 3575667.202 0
SO SRCPARAM 39684E1 .0002898 5.58 812.59 35.45 .2
** NMED source ID=39684EQPT2 Facility's ID=ENG 1
** Description=Engine 1 EQ000476103 Construction date=01-JUN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39684E2 POINT 619857.025 3575674.223 0
SO SRCPARAM 39684E2 .0002898 4.39 790.93 14.04 .26
** NMED source ID=39684EQPT3 Facility's ID=ENG 3
** Description=Engine 3 Construction date=28-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39684E3 POINT 619850.239 3575677.775 0
SO SRCPARAM 39684E3 .0002898 4.39 790.93 14.04 .26
** NMED source ID=39684EQPT4 Facility's ID=ENG 4
** Description=Engine 4 Construction date=28-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39684E4 POINT 619842.642 3575675.683 0
SO SRCPARAM 39684E4 .0002898 4.39 790.93 14.04 .26
**********END OF 39684: Tomb Raider 12 Wellpad 1
INFO**********
**********
** 22.18km away. Facility ID=38781 Name=Devon - Mean Green 23 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.025583, -103.436314, NAD83
** Total Sulfur Dioxide emissions=.26tons/year
**********Facility sources: **********
** NMED source ID=38781EQPT8 Facility's ID=HT-1
** Description=Heater Treater 1, 3 MMBtu/hr Construction date=14-JAN-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38781E8 POINT 647665.559 3544340.169 0
SO SRCPARAM 38781E8 .0002898 9.14 708.71 2.82 .34
** NMED source ID=38781EQPT10 Facility's ID=FL-1
** Description=Flare, 12 MMscfd Construction date=14-JAN-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day

```
SO LOCATION 38781E10 POINT 647673.095 3544347.19 0
SO SRCPARAM 38781E10 .0163797 12.19 1273 20 14.712
**********END OF 38781: Devon - Mean Green 23 CTB 2
INFO***********************************
************************************************************
** 22.29km away. Facility ID=39783 Name=Caza - Sioux 25-36 State Fed Com 8H 9H 10H
11H 12H and 13H Production Facility
** Company ID=13636 Name=Caza Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.108575, -103.320298, WGS84
** Total Sulfur Dioxide emissions=1.08tons/year
*****************Facility sources: ******************************
** NMED source ID=39783EQPT1 Facility's ID=FL-1
** Description=Flare Construction date=30-DEC-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E1 POINT 658479.535 3553705.548 0
SO SRCPARAM 39783E1 .3049152 7.62 1273 20 4.652
** NMED source ID=39783EQPT3 Facility's ID=HT-1
** Description=Heater Treater Construction date=30-DEC-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E3 VOLUME 658487.071 3553712.569 0
SO SRCPARAM 39783E3 .00126 4.57 .47 .93
** NMED source ID=39783EQPT4 Facility's ID=HT-2
** Description=Heater Treater Construction date=30-DEC-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E4 VOLUME 658480.285 3553716.121 0
SO SRCPARAM 39783E4 .00126 4.57 .47 .93
** NMED source ID=39783EQPT5 Facility's ID=HT-3
** Description=Heater Treater Construction date=30-DEC-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E5 VOLUME 658472.688 3553714.029 0
SO SRCPARAM 39783E5 .00126 4.57 .47 .93
** NMED source ID=39783EQPT6 Facility's ID=HT-4
** Description=Heater Treater Construction date=30-DEC-20
** SCC=31000405
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39783E6 VOLUME 658468.447 3553707.129 0
SO SRCPARAM 39783E6 .00126 4.57 .47 .93
**********END OF 39783: Caza - Sioux 25-36 State Fed Com 8H 9H 10H 11H 12H and 13H
Production Facility INFO***********************************
************************************************************
```

```
** 22.4km away. Facility ID=40118 Name=El Campeon CTB 17N
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.044334, -103.38996, WGS84
** Total Sulfur Dioxide emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=40118EQPT30 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=27-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E30 POINT 652012.473 3546483.264 0
SO SRCPARAM 40118E30 .0002898 4.57 1003.71 28.06 .21
** NMED source ID=40118EQPT31 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=27-OCT-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E31 POINT 652020.009 3546490.285 0
SO SRCPARAM 40118E31 .0002898 4.57 1003.71 28.06 .21
** NMED source ID=40118EQPT32 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=27-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E32 POINT 652013.223 3546493.837 0
SO SRCPARAM 40118E32 .00126 4.57 805.37 74.49 .27
** NMED source ID=40118EQPT50 Facility's ID=ENG-3A
** Description=Compressor Engine Construction date=30-NOV-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E50 POINT 652005.626 3546491.745 0
SO SRCPARAM 40118E50 .0002898 4.57 1003.71 28.06 .21
** NMED source ID=40118EQPT51 Facility's ID=ENG-8
** Description=Compressor Engine Construction date=30-NOV-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40118E51 POINT 652001.385 3546484.845 0
SO SRCPARAM 40118E51 .00126 4.57 740.37 65.47 .27
**********END OF 40118: El Campeon CTB 17N INFO************************************
************************************************************
** 22.42km away. Facility ID=40175 Name=Sand Dunes 10 CS
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.229764, -103.760867, NAD83
** Total Sulfur Dioxide emissions=5.11tons/year
*****************Facility sources: ******************************
** NMED source ID=40175EQPT1 Facility's ID=ENG-1
```

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** Description=Compressor Engine CAT G3608A4 2500-hp Construction date=12-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E1 POINT 616753.876 3566577.217 0
SO SRCPARAM 40175E1 .0125998 6.1 718.71 26.21 .61
** NMED source ID=40175EQPT4 Facility's ID=REB-1
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=12-OCT-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E4 POINT 616761.412 3566584.238 0
SO SRCPARAM 40175E4 .0163797 5.79 533.15 .07 .46
** NMED source ID=40175EQPT8 Facility's ID=ENG-2
** Description=Compressor Engine CAT G3608A4 2500-hp Construction date=10-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E8 POINT 616754.626 3566587.79 0
SO SRCPARAM 40175E8 .0125998 6.1 718.71 26.21 .61
** NMED source ID=40175EQPT9 Facility's ID=ENG-3
** Description=Compressor Engine CAT G3608A4 2500-hp Construction date=10-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E9 POINT 616747.029 3566585.698 0
SO SRCPARAM 40175E9 .0125998 6.1 718.71 26.21 .61
** NMED source ID=40175EQPT10 Facility's ID=ENG-4
** Description=Compressor Engine CAT G3608A4 2500-hp Construction date=10-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E10 POINT 616742.788 3566578.798 0
SO SRCPARAM 40175E10 .0125998 6.1 718.71 26.21 .61
** NMED source ID=40175EQPT11 Facility's ID=REB-2
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=10-JUN-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E11 POINT 616744.44 3566570.644 0
SO SRCPARAM 40175E11 .0163797 5.79 533.15 .07 .46
** NMED source ID=40175EQPT12 Facility's ID=REB-3
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=10-JUN-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E12 POINT 616751.389 3566565.682 0
SO SRCPARAM 40175E12 .0163797 5.79 533.15 .07 .46
** NMED source ID=40175EQPT13 Facility's ID=REB-4
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=10-JUN-22
```

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** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E13 POINT 616760.072 3566566.824 0
SO SRCPARAM 40175E13 .0163797 5.79 533.15 .07 .46
** NMED source ID=40175EQPT14 Facility's ID=REB-5
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=10-JUN-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E14 POINT 616765.782 3566573.752 0
SO SRCPARAM 40175E14 .0163797 5.79 533.15 .07 .46
** NMED source ID=40175EQPT15 Facility's ID=REB-6
** Description=Dehy Reboiler 1.5 MMBtu/hr Construction date=10-JUN-22
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E15 POINT 616765.217 3566582.933 0
SO SRCPARAM 40175E15 .0163797 5.79 533.15 .07 .46
** NMED source ID=40175EQPT26 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=25-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40175E26 POINT 616758.382 3566589.411 0
SO SRCPARAM 40175E26 .0125998 6.1 718.71 26.21 .61
**********END OF 40175: Sand Dunes 10 CS INFO************************************
************************************************************
** 22.52km away. Facility ID=36802 Name=Salado Draw 23 Compressor Station & Tank
Battery
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21113    Permit=6832 NSR
** lat,long,datum=32.036306, -103.645306, NAD83
** Total Sulfur Dioxide emissions=13.49tons/year
*****************Facility sources: ******************************
** NMED source ID=36802EQPT5 Facility's ID=HTR-1
** Description=Heater/Treater Construction date=30-MAR-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E5 VOLUME 627912.894 3545262.259 0
SO SRCPARAM 36802E5 .0352794 6.1 .47 .93
** NMED source ID=36802EQPT6 Facility's ID=HTR-2
** Description=Heater/Treater Construction date=30-MAR-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E6 VOLUME 627920.43 3545269.28 0
SO SRCPARAM 36802E6 .0352794 6.1 .47 .93
** NMED source ID=36802EQPT7 Facility's ID=HTR-3
```

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** Description=Heater/Treater Construction date=30-MAR-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E7 VOLUME 627913.644 3545272.832 0
SO SRCPARAM 36802E7 .0352794 6.1 .47 .93
** NMED source ID=36802EQPT8 Facility's ID=HTR-4
** Description=Heater/Treater Construction date=30-MAR-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E8 VOLUME 627906.047 3545270.74 0
SO SRCPARAM 36802E8 .0352794 6.1 .47 .93
** NMED source ID=36802EQPT16 Facility's ID=HTR-5
** Description=Heater/Treater Construction date=20-MAR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E16 VOLUME 627901.806 3545263.84 0
SO SRCPARAM 36802E16 .0352794 6.1 .47 .93
** NMED source ID=36802EQPT19 Facility's ID=HTR-6
** Description=Heater/Treater Construction date=20-MAR-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E19 VOLUME 627903.458 3545255.686 0
SO SRCPARAM 36802E19 .0352794 6.1 .47 .93
** NMED source ID=36802EQPT20 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7390hr/yr, 20hr/day
SO LOCATION 36802E20 POINT 627910.407 3545250.724 0
SO SRCPARAM 36802E20 .0390594 8.84 717.04 20.97 .5
** NMED source ID=36802EQPT21 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E21 POINT 627919.09 3545251.866 0
SO SRCPARAM 36802E21 .0390594 8.84 717.04 20.97 .5
** NMED source ID=36802EQPT22 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=24-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E22 POINT 627924.8 3545258.794 0
SO SRCPARAM 36802E22 .0390594 8.84 717.04 20.97 .5
** NMED source ID=36802EQPT23 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=24-SEP-19
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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36802E23 POINT 627924.235 3545267.975 0
SO SRCPARAM 36802E23 .0390594 8.84 717.04 20.97 .5
** NMED source ID=36802EQPT27 Facility's ID=REB-1
** Description=Reboiler Construction date=07-JUN-17
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 36802E27 POINT 627917.4 3545274.453 0
SO SRCPARAM 36802E27 .0088199 4.88 533.15 2.52 .3
** NMED source ID=36802EQPT30 Facility's ID=FLARE-SSM
** Description=SSM Flaring Construction date=01-APR-16
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 36802E30 POINT 627907.764 3545274.53 0
SO SRCPARAM 36802E30 .0181185 19.81 1273 20 20.806
**********END OF 36802: Salado Draw 23 Compressor Station & Tank Battery
INFO**********************************
************************************************************
** 22.58km away. Facility ID=6157 Name=Tomb Raider 12 Wellpad 4
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10010 NOI
** lat,long,datum=32.312679, -103.731125, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=6157EQPT1 Facility's ID=ENG 1
** Description=Combustion Engine Construction date=28-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 6157E1 POINT 619447.724 3575801.807 0
SO SRCPARAM 6157E1 .0002898 4.39 790.93 14.04 .26
**********END OF 6157: Tomb Raider 12 Wellpad 4
INFO**********************************
************************************************************
** 22.58km away. Facility ID=39388 Name=Temp Control Minor, GCPTC-8678
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.268672, -103.753644, WGS84
** Total Sulfur Dioxide emissions=.13tons/year
*****************Facility sources: ****************************
** NMED source ID=39388EQPT1 Facility's ID=TEMPFLARE
** Description=Temporary Flare Construction date=28-FEB-20
** SCC=30600903
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39388E1 POINT 617384.416 3570898.362 0
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SO SRCPARAM 39388E1 .0037799 18.29 1273 20 2.632
**********END OF 39388: Temp Control Minor, GCPTC-8678
INFO*********************************
************************************************************
** 22.58km away. Facility ID=38375 Name=Calmon 35 Fed CTB No2
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=7788 NOI
** lat,long,datum=32.268667, -103.753639, NAD83
** Total Sulfur Dioxide emissions=.08tons/year
*****************Facility sources: ****************************
** NMED source ID=38375EQPT1 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000128
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38375E1 VOLUME 617384.893 3570897.813 0
SO SRCPARAM 38375E1 .00126 3.66 .47 .93
** NMED source ID=38375EQPT2 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000128
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38375E2 VOLUME 617392.429 3570904.834 0
SO SRCPARAM 38375E2 .00126 3.66 .47 .93
** NMED source ID=38375EQPT6 Facility's ID=VCU-1
** Description=Vapor Combustion Unit Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38375E6 POINT 617385.643 3570908.386 0
SO SRCPARAM 38375E6 .00126 9.14 1273 20 20.806
** NMED source ID=38375EQPT7 Facility's ID=VCU-2
** Description=Vapor Combustion Unit Construction date=01-JAN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38375E7 POINT 617378.046 3570906.294 0
SO SRCPARAM 38375E7 .00126 9.14 1273 20 20.806
** NMED source ID=38375EQPT8 Facility's ID=FL-1
** Description=Emergency Flare (pilot only) Construction date=14-MAR-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38375E8 POINT 617373.805 3570899.394 0
SO SRCPARAM 38375E8 .00126 9.14 1273 20 20.806
** NMED source ID=38375EQPT22 Facility's ID=VCU-3
** Description=Vapor Combustion Unit Construction date=14-MAR-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
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SO LOCATION 38375E22 POINT 617375.457 3570891.24 0
SO SRCPARAM 38375E22 .00126 9.14 1273 20 20.806
**********END OF 38375: Calmon 35 Fed CTB No2
INFO***********************************
************************************************************
** 22.61km away. Facility ID=40908 Name=Boundary Raider 6 Wellpad 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9860 NOI
** lat,long,datum=32.339804, -103.709229, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=40908EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Compressor Engine Construction date=31-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40908E1 POINT 621472.86 3578833.511 0
SO SRCPARAM 40908E1 .0002898 5.85 772.59 21.02 .27
**********END OF 40908: Boundary Raider 6 Wellpad 3
INFO***********************************
************************************************************
** 22.61km away. Facility ID=40926 Name=Bora Bora 13 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.309025, -103.734012, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=40926EQPT2 Facility's ID=HT-1
** Description=HT-1 Heater Treater Construction date=13-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40926E2 VOLUME 619180.718 3575393.512 0
SO SRCPARAM 40926E2 .0002898 9.14 .47 .93
** NMED source ID=40926EQPT3 Facility's ID=HT-2
** Description=HT-2 Heater Treater Construction date=13-MAR-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40926E3 VOLUME 619188.254 3575400.533 0
SO SRCPARAM 40926E3 .0002898 9.14 .47 .93
**********END OF 40926: Bora Bora 13 CTB 2 INFO***********************************
************************************************************
** 22.66km away. Facility ID=5906 Name=Bora Bora 13 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10003 NOI
** lat,long,datum=32.310983, -103.733303, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=5906EQPT1 Facility's ID=ENG-1
```

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** Description=Combustion Engine Construction date=14-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5906E1 POINT 619244.902 3575611.364 0
SO SRCPARAM 5906E1 .0002898 3.51 1000.37 71.17 .13
**********END OF 5906: Bora Bora 13 Wellpad 2
INFO**********************************
************************************************************
** 22.67km away. Facility ID=39591 Name=Black Marlin A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.135789, -103.300103, NAD83
** Total Sulfur Dioxide emissions=3.57tons/year
*****************Facility sources: ******************************
** NMED source ID=39591EQPT8 Facility's ID=FL-1 LP
** Description=Flare, low-pressure side of dual tip, 24.74 Mscf/hr Construction
date=07-JUL-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1464hr/yr, 24hr/day
SO LOCATION 39591E8 POINT 660337.562 3556752.536 0
SO SRCPARAM 39591E8 .0100798 12.19 1273 20 20.806
** NMED source ID=39591EQPT9 Facility's ID=FL-1 HP
** Description=Flare, high-pressure side of dual tip, 229.17 Mscf/hr Construction
date=07-JUL-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1464hr/yr, 24hr/day
SO LOCATION 39591E9 POINT 660345.098 3556759.557 0
SO SRCPARAM 39591E9 .0718189 12.19 1273 20 3.604
** NMED source ID=39591EQPT14 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=11-FEB-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591E14 POINT 660338.312 3556763.109 0
SO SRCPARAM 39591E14 .00126 4.57 724.26 110.64 .2
** NMED source ID=39591EQPT16 Facility's ID=TRB-1
** Description=Elec Generating Turbine Construction date=11-FEB-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591E16 POINT 660330.715 3556761.017 0
SO SRCPARAM 39591E16 .0062999 4.57 537.04 11.49 .08
** NMED source ID=39591EQPT17 Facility's ID=TRB-2
** Description=Elec Generating Turbine Construction date=11-FEB-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 39591E17 POINT 660326.474 3556754.117 0
SO SRCPARAM 39591E17 .0062999 4.57 537.04 11.49 .08
** NMED source ID=39591EQPT18 Facility's ID=TRB-3
** Description=Elec Generating Turbine Construction date=11-FEB-22
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591E18 POINT 660328.126 3556745.963 0
SO SRCPARAM 39591E18 .0062999 4.57 537.04 11.49 .08
** NMED source ID=39591EQPT20 Facility's ID=FL-1 HP SSM
** Description=Flare, high-pressure side of dual tip, 229.17 Mscf/hr Construction
date=01-JAN-20
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39591E20 POINT 660335.075 3556741.001 0
SO SRCPARAM 39591E20 .0719197 12.19 1273 20 3.604
**********END OF 39591: Black Marlin A CTB INFO************************************
************************************************************
** 22.7km away. Facility ID=34629 Name=Mean Green 23 Fed 1H Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5970 NOI
** lat,long,datum=32.021667, -103.433222, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=34629EQPT16 Facility's ID=Flare 1_0769 SSM
** Description=Flare 1_EQ000160769 Construction date=01-JAN-15
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34629E16 POINT 647963.879 3543910.268 0
SO SRCPARAM 34629E16 .0002898 6.1 1273 20 20.806
**********END OF 34629: Mean Green 23 Fed 1H Battery
INFO**********************************
************************************************************
** 22.78km away. Facility ID=39267 Name=Ghost Compressor Station
** Company ID=12729 Name=Delaware Basin Midstream, LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.034, -103.6461, WGS84
** Total Sulfur Dioxide emissions=3.02tons/year
*****************Facility sources: ****************************
** NMED source ID=39267EQPT1 Facility's ID=CE-1
** Description=1875 hp Caterpillar G3606 A4 Engine Construction date=17-DEC-19
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1101hr/yr, 24hr/day
SO LOCATION 39267E1 POINT 627841.121 3545005.683 0
SO SRCPARAM 39267E1 .0037799 7.62 691.48 47.61 .3
** NMED source ID=39267EQPT2 Facility's ID=CE-2
** Description=1875 hp Caterpillar G3606 A4 Engine Construction date=17-DEC-19
```

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** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1188hr/yr, 24hr/day
SO LOCATION 39267E2 POINT 627848.657 3545012.704 0
SO SRCPARAM 39267E2 .0037799 7.62 691.48 47.61 .3
** NMED source ID=39267EQPT3 Facility's ID=CE-3
** Description=1875 hp Caterpillar G3606 A4 Engine Construction date=17-DEC-19
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1141hr/yr, 24hr/day
SO LOCATION 39267E3 POINT 627841.871 3545016.256 0
SO SRCPARAM 39267E3 .0037799 7.62 691.48 47.61 .3
** NMED source ID=39267EQPT4 Facility's ID=CE-4
** Description=1875 hp Caterpillar G3606 A4 Engine Construction date=17-DEC-19
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=973hr/yr, 24hr/day
SO LOCATION 39267E4 POINT 627834.274 3545014.164 0
SO SRCPARAM 39267E4 .0037799 7.62 691.48 47.61 .3
** NMED source ID=39267EQPT7 Facility's ID=GEN-1
** Description=63 hp Kohler KDI 2504 Diesel Generator Construction date=17-DEC-19
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=940hr/yr, 24hr/day
SO LOCATION 39267E7 POINT 627830.033 3545007.264 0
SO SRCPARAM 39267E7 .0163797 1.83 854.26 16.18 .08
** NMED source ID=39267EQPT11 Facility's ID=EC-1
** Description=12.2 MM Btu/hr Enclosed Vapor Combustor Construction date=17-DEC-19
** SCC=31000215
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1240hr/yr, 24hr/day
SO LOCATION 39267E11 POINT 627831.685 3544999.11 0
SO SRCPARAM 39267E11 .0138598 7.01 1273 20 1.22
** NMED source ID=39267EQPT12 Facility's ID=CE-5
** Description=1875 hp Caterpillar G3606 A4 Engine Construction date=14-AUG-20
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39267E12 POINT 627838.634 3544994.148 0
SO SRCPARAM 39267E12 .0037799 7.62 691.48 47.61 .3
** NMED source ID=39267EQPT16 Facility's ID=GEN-2
** Description=134 hp Caterpillar Diesel Generator Construction date=08-JUN-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39267E16 POINT 627847.317 3544995.29 0
SO SRCPARAM 39267E16 .0377994 2.13 620.93 29.81 .09
** NMED source ID=39267EQPT17 Facility's ID=GEN-3
** Description=11.6 hp Allmand Night Lite Kubota Generator Construction
date=08-JUN-22
```

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** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39267E17 POINT 627853.027 3545002.218 0
SO SRCPARAM 39267E17 .00252 1.83 572.59 27.52 .03
** NMED source ID=39267EQPT18 Facility's ID=GEN-4
** Description=11.3 hp Allmand Night Lite Mitsubishi Generator Construction
date=08-JUN-22
** SCC=20200102
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39267E18 POINT 627852.462 3545011.399 0
SO SRCPARAM 39267E18 .00252 1.83 572.59 25.53 .03
** NMED source ID=39267EQPT21 Facility's ID=FL-1 SSM
** Description=10 MMSCFD SSM Flare Construction date=08-JUN-22
** SCC=31000215
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39267E21 POINT 627845.627 3545017.877 0
SO SRCPARAM 39267E21 .0002898 12.19 1273 20 .67
**********END OF 39267: Ghost Compressor Station
INFO************************************
************************************************************
** 22.79km away. Facility ID=38835 Name=Cal Mon CGL
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.26998, -103.755572, WGS84
** Total Sulfur Dioxide emissions=.36tons/year
*****************Facility sources: ******************************
** NMED source ID=38835EQPT1 Facility's ID=REB-1
** Description=Reboiler Construction date=26-FEB-19
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38835E1 POINT 617201.139 3571041.257 0
SO SRCPARAM 38835E1 .0002898 4.57 533.15 .14 .24
** NMED source ID=38835EQPT2 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=26-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8665hr/yr, 24hr/day
SO LOCATION 38835E2 POINT 617208.675 3571048.278 0
SO SRCPARAM 38835E2 .00252 4.57 816.48 26.79 .46
** NMED source ID=38835EQPT3 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=26-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8565hr/yr, 24hr/day
SO LOCATION 38835E3 POINT 617201.889 3571051.83 0
SO SRCPARAM 38835E3 .00252 4.57 816.48 26.79 .46
```

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** NMED source ID=38835EQPT4 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=26-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38835E4 POINT 617194.292 3571049.738 0
SO SRCPARAM 38835E4 .00252 4.57 816.48 26.79 .46
** NMED source ID=38835EQPT5 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=26-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38835E5 POINT 617190.051 3571042.838 0
SO SRCPARAM 38835E5 .00252 4.57 816.48 26.79 .46
** NMED source ID=38835EQPT8 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=06-MAR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38835E8 POINT 617191.703 3571034.684 0
SO SRCPARAM 38835E8 .00252 4.57 816.48 26.79 .46
**********END OF 38835: Cal Mon CGL INFO**************************************
************************************************************
** 22.82km away. Facility ID=38863 Name=Pinestraw CTB
** Company ID=13544 Name=Ameredev II LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.165108, -103.287681, WGS84
** Total Sulfur Dioxide emissions=94.42tons/year
*****************Facility sources: ******************************
** NMED source ID=38863EQPT20 Facility's ID=FL-1
** Description=20,000 Mscfd Flare Construction date=25-MAR-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=1152hr/yr, 24hr/day
SO LOCATION 38863E20 POINT 661457.671 3560021.604 0
SO SRCPARAM 38863E20 273.6815158 18.29 1273 20 20.806
** NMED source ID=38863EQPT29 Facility's ID=TF-1
** Description=700 Mscfd Flare Construction date=16-MAR-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38863E29 POINT 661465.207 3560028.625 0
SO SRCPARAM 38863E29 5.987425 9.14 1273 20 7.785
** NMED source ID=38863EQPT33 Facility's ID=TF-1 SSM
** Description=700 Mscfd Flare Construction date=16-MAR-22
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38863E33 POINT 661458.421 3560032.177 0
SO SRCPARAM 38863E33 .4967975 9.14 1273 20 2.632
```

**********END OF 38863: Pinestraw CTB INFO**********
**********
** 22.91km away. Facility ID=37746 Name=Paduca Breaks Central Gathering Facility
** Company ID=12729 Name=Delaware Basin Midstream, LLC
** SIC=1311 NAIC=211111   Permit=unknown
** lat,long,datum=32.06243, -103.69265, WGS84
** Total Sulfur Dioxide emissions=1.26tons/year
**********Facility sources: **********
** NMED source ID=37746EQPT1 Facility's ID=CE-1
** Description=1380hp Caterpillar G3516J Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7991hr/yr, 24hr/day
SO LOCATION 37746E1 POINT 623407.16 3548103.16 0
SO SRCPARAM 37746E1 .00252 7.01 717.04 29.47 .41
** NMED source ID=37746EQPT2 Facility's ID=CE-2
** Description=1380hp Caterpillar G3516J Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8230hr/yr, 21hr/day
SO LOCATION 37746E2 POINT 623414.696 3548110.181 0
SO SRCPARAM 37746E2 .00252 7.01 717.04 29.47 .41
** NMED source ID=37746EQPT3 Facility's ID=CE-3
** Description=1380hp Caterpillar G3516J Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8237hr/yr, 24hr/day
SO LOCATION 37746E3 POINT 623407.91 3548113.733 0
SO SRCPARAM 37746E3 .00252 7.01 717.04 29.47 .41
** NMED source ID=37746EQPT4 Facility's ID=CE-4
** Description=1380hp Caterpillar G3516J Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8356hr/yr, 24hr/day
SO LOCATION 37746E4 POINT 623400.313 3548111.641 0
SO SRCPARAM 37746E4 .00252 7.01 717.04 29.47 .41
** NMED source ID=37746EQPT5 Facility's ID=CE-5
** Description=1380hp Caterpillar G3516B Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8124hr/yr, 24hr/day
SO LOCATION 37746E5 POINT 623396.072 3548104.741 0
SO SRCPARAM 37746E5 .00252 7.01 805.93 33.86 .41
** NMED source ID=37746EQPT6 Facility's ID=CE-6
** Description=1380hp Caterpillar G3516B Compressor Engine Construction

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date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8057hr/yr, 24hr/day
SO LOCATION 37746E6 POINT 623397.724 3548096.587 0
SO SRCPARAM 37746E6 .00252 7.01 805.93 33.86 .41
** NMED source ID=37746EQPT7 Facility's ID=CE-7
** Description=1380hp Caterpillar G3516B Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8275hr/yr, 24hr/day
SO LOCATION 37746E7 POINT 623404.673 3548091.625 0
SO SRCPARAM 37746E7 .00252 7.01 717.04 29.47 .41
** NMED source ID=37746EQPT8 Facility's ID=CE-8
** Description=1380hp Caterpillar G3516B Compressor Engine Construction
date=18-APR-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7630hr/yr, 24hr/day
SO LOCATION 37746E8 POINT 623413.356 3548092.767 0
SO SRCPARAM 37746E8 .00252 7.01 805.93 33.86 .41
** NMED source ID=37746EQPT9 Facility's ID=EC-1
** Description=10 MMBTtu/h Enclosed Vapor Combustor (Tanks) Construction
date=18-APR-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8713hr/yr, 24hr/day
SO LOCATION 37746E9 POINT 623419.066 3548099.695 0
SO SRCPARAM 37746E9 .00252 6.1 1273 20 1.22
** NMED source ID=37746EQPT10 Facility's ID=EC-2
** Description=10 MMBtu/h Enclosed Vapor Combustor (Dehydrator) Construction
date=18-APR-17
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8697hr/yr, 24hr/day
SO LOCATION 37746E10 POINT 623418.501 3548108.876 0
SO SRCPARAM 37746E10 .0075599 7.62 1273 20 1.37
** NMED source ID=37746EQPT11 Facility's ID=LH-1
** Description=1.5 MMBTU/h Line Heater Construction date=18-APR-17
** SCC=31000406
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8643hr/yr, 24hr/day
SO LOCATION 37746E11 POINT 623411.666 3548115.354 0
SO SRCPARAM 37746E11 .0005796 3.66 478.15 3.26 .3
** NMED source ID=37746EQPT12 Facility's ID=DHR-1
** Description=1.5 MMBTU/h Dehydrator Reboiler Construction date=18-APR-17
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8678hr/yr, 24hr/day
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SO LOCATION 37746E12 POINT 623402.03 3548115.431 0
SO SRCPARAM 37746E12 .0005796 3.66 478.15 3.26 .3
** NMED source ID=37746EQPT18 Facility's ID=CE-9
** Description=1775hp Caterpillar G3606A3 Compressor Engine Construction
date=18-APR-17
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8312hr/yr, 24hr/day
SO LOCATION 37746E18 POINT 623394.769 3548108.765 0
SO SRCPARAM 37746E18 .0037799 7.01 742.59 70.71 .3
** NMED source ID=37746RPNT9 Facility's ID=FL-1 SSM
** Description=Flare for SSM Activities Construction date=25-JUL-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37746R9 POINT 623393.989 3548098.719 0
SO SRCPARAM 37746R9 .0002898 9.14 1273.15 19.99 .67
**********END OF 37746: Paduca Breaks Central Gathering Facility
INFO**********************************
************************************************************
** 22.92km away. Facility ID=39668 Name=Talco A CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.047219, -103.375839, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ******************************
** NMED source ID=39668EQPT9 Facility's ID=ENG-1
** Description=1380 HP Compressor Engine Construction date=13-JAN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39668E9 POINT 653341.057 3546823.077 0
SO SRCPARAM 39668E9 .0005796 4.57 730.37 38.25 .36
** NMED source ID=39668EQPT21 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=25-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39668E21 POINT 653348.593 3546830.098 0
SO SRCPARAM 39668E21 .0002898 4.57 812.59 35.36 .2
**********END OF 39668: Talco A CTB INFO**********************************
************************************************************
** 22.97km away. Facility ID=40783 Name=Uncle Richard TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.167285, -103.285446, NAD83
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=40783EQPT5 Facility's ID=GEN-1
** Description=4-Stroke Rich Burn Generator Construction date=30-NOV-22
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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E5 POINT 661664.595 3560266.318 0
SO SRCPARAM 40783E5 .0002898 6.1 1023.15 39.53 .21
** NMED source ID=40783EQPT6 Facility's ID=GEN-2
** Description=4-Stroke Rich Burn Generator Construction date=30-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E6 POINT 661672.131 3560273.339 0
SO SRCPARAM 40783E6 .0002898 6.1 1023.15 39.53 .21
** NMED source ID=40783EQPT7 Facility's ID=GEN-3
** Description=4-Stroke Rich Burn Generator Construction date=30-NOV-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E7 POINT 661665.345 3560276.891 0
SO SRCPARAM 40783E7 .0002898 6.1 1023.15 39.53 .21
** NMED source ID=40783EQPT19 Facility's ID=ENG-3
** Description=384-hp Ajax DPC 2802 LE engine Construction date=17-JAN-24
** SCC=20200252
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40783E19 POINT 661657.748 3560274.799 0
SO SRCPARAM 40783E19 .0002898 6.61 513.71 15.92 .34
**********END OF 40783: Uncle Richard TB INFO**********************************
************************************************************
** 23.02km away. Facility ID=33076 Name=Aldabra 26 and 27 Battery
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=5335 NOI
** lat,long,datum=32.269714, -103.758175, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=33076EQPT14 Facility's ID=Flare 1_0747 SSM
** Description=Flare 1_EQ000170747 Construction date=06-FEB-19
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 33076E14 POINT 616956.311 3571008.928 0
SO SRCPARAM 33076E14 .0002898 6.1 1273 20 .61
**********END OF 33076: Aldabra 26 and 27 Battery
INFO**********************************
************************************************************
** 23.02km away. Facility ID=40538 Name=Red Stag 5 32 Battery No1
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.414995, -103.48726, WGS84
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
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```
** NMED source ID=40538EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=08-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E1 POINT 642246.14 3587443.08 0
SO SRCPARAM 40538E1 .0002898 6.17 695.37 37.61 .25
** NMED source ID=40538EQPT13 Facility's ID=HT-02
** Description=Heater Treater Construction date=08-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40538E13 POINT 642253.676 3587450.101 0
SO SRCPARAM 40538E13 .0002898 4.57 533.15 7.86 .46
**********END OF 40538: Red Stag 5 32 Battery No1
INFO**********************************
************************************************************
** 23.1km away. Facility ID=39502 Name=Matador- Grevey Com Tank Battery
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.033733, -103.395678, WGS84
** Total Sulfur Dioxide emissions=1tons/year
*****************Facility sources: ****************************
** NMED source ID=39502EQPT6 Facility's ID=FL-1 HP
** Description=standard Flare High pressure tip Construction date=10-JUN-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39502E6 POINT 651490.006 3545299.976 0
SO SRCPARAM 39502E6 .0287653 13.72 1273 20 20.806
**********END OF 39502: Matador- Grevey Com Tank Battery
INFO**********************************
************************************************************
** 23.1km away. Facility ID=35661 Name=ConocoPhillips - Red Hills West 16 State No2
** Company ID=198 Name=ConocoPhillips Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.047424, -103.675312, WGS84
** Total Sulfur Dioxide emissions=.59tons/year
*****************Facility sources: ****************************
** NMED source ID=35661EQPT13 Facility's ID=ENG-1
** Description=1340hp Caterpillar 3516TA 4SULB Compressor Engine Construction
date=09-DEC-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5095hr/yr, 24hr/day
SO LOCATION 35661E13 POINT 625064.322 3546459.608 0
SO SRCPARAM 35661E13 .0169719 6.52 740.37 49.56 .3
**********END OF 35661: ConocoPhillips - Red Hills West 16 State No2
INFO**********************************
************************************************************
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** 23.11km away. Facility ID=31720 Name=Bootleg Ridge Compressor Station
** Company ID=14157 Name=Targa Northern Delaware LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.3087, -103.7402, NAD83
** Total Sulfur Dioxide emissions=3.97tons/year
*****************Facility sources: ****************************
** NMED source ID=31720EQPT3 Facility's ID=REB-1
** Description=1.0 MMBtu/hr dehy reboiler Construction date=20-FEB-14
** SCC=31000302
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8708hr/yr, 24hr/day
SO LOCATION 31720E3 POINT 618598.559 3575350.618 0
SO SRCPARAM 31720E3 .00252 3.05 588.71 2.65 .3
** NMED source ID=31720EQPT6 Facility's ID=17-0536
** Description=Cat G3516B, 1380 hp 4SLB Construction date=20-FEB-14
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8127hr/yr, 22hr/day
SO LOCATION 31720E6 POINT 618606.095 3575357.639 0
SO SRCPARAM 31720E6 .0176397 7.01 699.82 26.24 .46
** NMED source ID=31720EQPT11 Facility's ID=17-0641
** Description=Cat G3516B, 1380 hp 4SLB Construction date=19-OCT-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8064hr/yr, 22hr/day
SO LOCATION 31720E11 POINT 618599.309 3575361.191 0
SO SRCPARAM 31720E11 .0176397 7.01 699.82 26.24 .46
** NMED source ID=31720EQPT12 Facility's ID=17-0644
** Description=Cat G3516B, 1380 hp 4SLB Construction date=19-OCT-17
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8233hr/yr, 23hr/day
SO LOCATION 31720E12 POINT 618591.712 3575359.099 0
SO SRCPARAM 31720E12 .0176397 7.01 699.82 26.24 .46
** NMED source ID=31720EQPT13 Facility's ID=17-0535
** Description=Cat G3516B, 1380 hp 4SLB Construction date=15-NOV-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7842hr/yr, 21hr/day
SO LOCATION 31720E13 POINT 618587.471 3575352.199 0
SO SRCPARAM 31720E13 .0176397 7.01 699.82 26.24 .46
** NMED source ID=31720EQPT14 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=06-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31720E14 POINT 618589.123 3575344.045 0
SO SRCPARAM 31720E14 .0214197 7.01 718.15 34.32 .46
** NMED source ID=31720EQPT15 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=06-NOV-22
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 31720E15 POINT 618596.072 3575339.083 0
SO SRCPARAM 31720E15 .0214197 7.01 718.15 34.32 .46
**********END OF 31720: Bootleg Ridge Compressor Station
INFO**********************************
************************************************************
** 23.11km away. Facility ID=37267 Name=Salado Draw CTB 24
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=7014 GCP6
** lat,long,datum=32.022908, -103.628783, Unknown
** Total Sulfur Dioxide emissions=2.56tons/year
*****************Facility sources: ****************************
** NMED source ID=37267EQPT1 Facility's ID=HTR-1
** Description=4.0 MMBtu/hr Heater Treater Construction date=09-AUG-16
** SCC=31000403
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37267E1 VOLUME 629492.014 3543796.689 0
SO SRCPARAM 37267E1 .0368166 6.1 .47 .93
** NMED source ID=37267EQPT8 Facility's ID=HTR-2
** Description=4.0 MMBtu/hr Heater Treater Construction date=07-NOV-16
** SCC=31000403
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2184hr/yr, 6hr/day
SO LOCATION 37267E8 VOLUME 629499.55 3543803.71 0
SO SRCPARAM 37267E8 .0368166 6.1 .47 .93
**********END OF 37267: Salado Draw CTB 24 INFO**********************************
************************************************************
** 23.13km away. Facility ID=38058 Name=Hallertau 5 Federal 7-11H, 16H Facility
** Company ID=8757 Name=Cimarex Energy Co of Colorado
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.067439, -103.7018, NAD83
** Total Sulfur Dioxide emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=38058EQPT18 Facility's ID=H-1
** Description=Heater treater 1; 2.0 MMBtu/h Construction date=18-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8563hr/yr, 23hr/day
SO LOCATION 38058E18 POINT 568241.173 3595198.763 0
SO SRCPARAM 38058E18 .0002898 4.57 477.59 4.05 .15
** NMED source ID=38058EQPT19 Facility's ID=H-2
** Description=Heater treater 2; 2.0 MMBtu/hr Construction date=18-DEC-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8563hr/yr, 23hr/day
SO LOCATION 38058E19 POINT 568241.173 3595198.763 0
SO SRCPARAM 38058E19 .0002898 4.57 477.59 4.05 .15
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** NMED source ID=38058EQPT25 Facility's ID=ENG-3
** Description=Caterpillar G3516 TALE; 1340 hp Construction date=10-AUG-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38058E25 POINT 622537.451 3548658.584 0
SO SRCPARAM 38058E25 .00126 6.22 819.26 59.31 .3
**********END OF 38058: Hallertau 5 Federal 7-11H, 16H Facility
INFO**********************************
************************************************************
** 23.13km away. Facility ID=5881 Name=Bora Bora 13 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=10002 NOI
** lat,long,datum=32.311067, -103.738924, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=5881EQPT1 Facility's ID=ENG-1
** Description=Combustion Engine Construction date=14-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5881E1 POINT 618715.604 3575614.436 0
SO SRCPARAM 5881E1 .0002898 3.51 1000.37 71.17 .13
**********END OF 5881: Bora Bora 13 Wellpad 1
INFO**********************************
************************************************************
** 23.14km away. Facility ID=37521 Name=EOG - Endurance 36 South CTB
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.002772, -103.529239, WGS84
** Total Sulfur Dioxide emissions=.07tons/year
*****************Facility sources: ******************************
** NMED source ID=37521EQPT2 Facility's ID=FL-1
** Description=Process Flare Construction date=20-OCT-16
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37521E2 POINT 638923.797 3541688.099 0
SO SRCPARAM 37521E2 .0014364 12.19 1273 20 2.632
** NMED source ID=37521EQPT4 Facility's ID=HTR-1
** Description=Heater Treater Construction date=01-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 37521E4 VOLUME 638931.333 3541695.12 0
SO SRCPARAM 37521E4 .0002898 4.57 .47 .93
** NMED source ID=37521EQPT17 Facility's ID=HTR-2
** Description=Heater Treater Construction date=01-JAN-16
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37521E17 VOLUME 638924.547 3541698.672 0
SO SRCPARAM 37521E17 .0002898 4.88 .47 .93
**********END OF 37521: EOG - Endurance 36 South CTB
INFO**********************************
************************************************************
** 23.21km away. Facility ID=39798 Name=Black Sheep 4 33 B3OB Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.414586, -103.472886, WGS84
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=39798EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=25-OCT-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39798E1 POINT 643598.543 3587416.962 0
SO SRCPARAM 39798E1 .0002898 6.17 695.37 37.61 .25
**********END OF 39798: Black Sheep 4 33 B3OB Fed Com 1H Battery
INFO**********************************
************************************************************
** 23.22km away. Facility ID=37766 Name=Endurance Localized Gas Lift
** Company ID=289 Name=EOG Resources Inc - Midland Division
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.0022, -103.5352, WGS84
** Total Sulfur Dioxide emissions=.68tons/year
*****************Facility sources: ****************************
** NMED source ID=37766EQPT22 Facility's ID=Flare-1
** Description=Flare, 5.25 MMSCFD Construction date=16-DEC-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37766E22 POINT 638361.543 3541617.041 0
SO SRCPARAM 37766E22 .0088199 4.57 1273 20 .91
** NMED source ID=37766EQPT23 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=30-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37766E23 POINT 638369.079 3541624.062 0
SO SRCPARAM 37766E23 .00252 7.01 699.26 26.64 .52
** NMED source ID=37766EQPT24 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=30-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37766E24 POINT 638362.293 3541627.614 0
SO SRCPARAM 37766E24 .00252 7.01 699.26 26.64 .52
** NMED source ID=37766EQPT25 Facility's ID=ENG-3
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** Description=Compressor Engine Construction date=30-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37766E25 POINT 638354.696 3541625.522 0
SO SRCPARAM 37766E25 .00252 7.01 699.26 26.64 .52
** NMED source ID=37766EQPT26 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=30-AUG-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37766E26 POINT 638350.455 3541618.622 0
SO SRCPARAM 37766E26 .00252 7.01 699.26 26.64 .52
** NMED source ID=37766EQPT28 Facility's ID=Flare-1 SSM
** Description=Flare, 5.25 MMSCFD Construction date=20-JUN-17
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 37766E28 POINT 638352.107 3541610.468 0
SO SRCPARAM 37766E28 .0002898 4.57 1273 20 .91
**********END OF 37766: Endurance Localized Gas Lift
INFO**********************************
************************************************************
** 23.24km away. Facility ID=40769 Name=Mule 23 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.121818, -103.747189, NAD83
** Total Sulfur Dioxide emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=40769EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=16-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40769E2 VOLUME 618182.097 3554625.587 0
SO SRCPARAM 40769E2 .00126 9.14 .47 .93
** NMED source ID=40769EQPT11 Facility's ID=ENG-1
** Description=ENG-1 Combustion Engine Construction date=16-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40769E11 POINT 618189.633 3554632.608 0
SO SRCPARAM 40769E11 .00126 7.01 809.26 57.36 .3
** NMED source ID=40769EQPT13 Facility's ID=FL-1 SSM
** Description=Flare 1 SSM Construction date=16-NOV-22
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40769E13 POINT 618182.847 3554636.16 0
SO SRCPARAM 40769E13 .0002898 12.19 1273 20 6.579
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**********END OF 40769: Mule 23 CTB 2 INFO**********
**********
** 23.25km away. Facility ID=40178 Name=Sand Dunes 10 CTB
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21112    Permit=9386 GCP6
** lat,long,datum=32.235589, -103.769003, NAD83
** Total Sulfur Dioxide emissions=.18tons/year
**********Facility sources: **********
** NMED source ID=40178EQPT9 Facility's ID=HPS-1
** Description=Heated Production Separator Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E9 POINT 615979.832 3567214.148 0
SO SRCPARAM 40178E9 .00126 6.71 533.15 .21 .46
** NMED source ID=40178EQPT10 Facility's ID=HPS-2
** Description=Heated Production Separator Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E10 POINT 615987.368 3567221.169 0
SO SRCPARAM 40178E10 .00126 6.71 533.15 .21 .46
** NMED source ID=40178EQPT11 Facility's ID=HPS-3
** Description=Heated Production Separator Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E11 POINT 615980.582 3567224.721 0
SO SRCPARAM 40178E11 .00126 6.71 533.15 .21 .46
** NMED source ID=40178EQPT12 Facility's ID=HTR-1
** Description=Heater Treater Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E12 POINT 615972.985 3567222.629 0
SO SRCPARAM 40178E12 .00126 6.71 533.15 .21 .46
** NMED source ID=40178EQPT13 Facility's ID=HTR-2
** Description=Heater Treater Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E13 POINT 615968.744 3567215.729 0
SO SRCPARAM 40178E13 .00126 6.71 533.15 .21 .46
** NMED source ID=40178EQPT14 Facility's ID=HTR-3
** Description=Heater Treater Construction date=12-SEP-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40178E14 POINT 615970.396 3567207.575 0
SO SRCPARAM 40178E14 .00126 6.71 533.15 .21 .46

**********END OF 40178: Sand Dunes 10 CTB INFO**********
**********
** 23.27km away. Facility ID=39715 Name=Big Sinks Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.103717, -103.736182, WGS84
** Total Sulfur Dioxide emissions=2.6tons/year
**********Facility sources: **********
** NMED source ID=39715EQPT1 Facility's ID=ENG-1
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E1 POINT 619244.032 3552631.106 0
SO SRCPARAM 39715E1 .00252 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT5 Facility's ID=ECD-1
** Description=ECD-1 (176.5 MSCF/d) Construction date=18-OCT-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E5 POINT 619251.568 3552638.127 0
SO SRCPARAM 39715E5 .0440993 8.23 1273 20 1.52
** NMED source ID=39715EQPT6 Facility's ID=RBL-1
** Description=Reboiler 1 MMBTU/hr Construction date=18-OCT-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E6 POINT 619244.782 3552641.679 0
SO SRCPARAM 39715E6 .0151198 3.66 588.71 2.34 .32
** NMED source ID=39715EQPT8 Facility's ID=ENG-2
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E8 POINT 619237.185 3552639.587 0
SO SRCPARAM 39715E8 .00252 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT9 Facility's ID=ENG-3
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E9 POINT 619232.944 3552632.687 0
SO SRCPARAM 39715E9 .00252 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT10 Facility's ID=ENG-4
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E10 POINT 619234.596 3552624.533 0
SO SRCPARAM 39715E10 .00252 8.32 729.26 32.06 .55

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** NMED source ID=39715EQPT11 Facility's ID=ENG-5
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E11 POINT 619241.545 3552619.571 0
SO SRCPARAM 39715E11 .00252 8.32 729.26 32.06 .55
** NMED source ID=39715EQPT12 Facility's ID=ENG-6
** Description=Caterpillar 3608 2500 hp Construction date=18-OCT-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39715E12 POINT 619250.228 3552620.713 0
SO SRCPARAM 39715E12 .00252 8.32 729.26 32.06 .55
**********END OF 39715: Big Sinks Compressor Station
INFO**********************************
************************************************************
** 23.33km away. Facility ID=40192 Name=Blue Marlin CTB
** Company ID=14282 Name=Civitas Permian Operating LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.113114, -103.304683, NAD83
** Total Sulfur Dioxide emissions=6.32tons/year
*****************Facility sources: ****************************
** NMED source ID=40192EQPT1 Facility's ID=ENG-1
** Description=Caterpillar G3516J, 1308 hp Construction date=28-OCT-21
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E1 POINT 659945.078 3554231.841 0
SO SRCPARAM 40192E1 .00126 4.57 724.26 110.64 .2
** NMED source ID=40192EQPT2 Facility's ID=ENG-2
** Description=Caterpillar G3516J, 1308 hp Construction date=28-OCT-21
** SCC=20200256
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E2 POINT 659952.614 3554238.862 0
SO SRCPARAM 40192E2 .00126 4.57 724.26 110.64 .2
** NMED source ID=40192EQPT3 Facility's ID=FL-1 LP
** Description=500 MSCFD LP Flare Construction date=28-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E3 POINT 659945.828 3554242.414 0
SO SRCPARAM 40192E3 .0113398 18.29 1273 20 2.632
** NMED source ID=40192EQPT4 Facility's ID=FL-1 HP
** Description=18 MMSCFD HP Flare Construction date=28-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E4 POINT 659938.231 3554240.322 0
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SO SRCPARAM 40192E4 .065519 18.29 1273 20 3.604
** NMED source ID=40192EQPT5 Facility's ID=FL-2 LP
** Description=500 MSCFD LP Flare Construction date=28-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E5 POINT 659933.99 3554233.422 0
SO SRCPARAM 40192E5 .0113398 18.29 1273 20 2.632
** NMED source ID=40192EQPT6 Facility's ID=FL-2 HP
** Description=18 MMSCFD HP Flare Construction date=28-OCT-21
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E6 POINT 659935.642 3554225.268 0
SO SRCPARAM 40192E6 .065519 18.29 1273 20 3.604
** NMED source ID=40192EQPT7 Facility's ID=HT-1
** Description=2 MMBtu/h Heater Treater Construction date=28-OCT-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E7 VOLUME 659942.591 3554220.306 0
SO SRCPARAM 40192E7 .0062999 4.57 .47 .93
** NMED source ID=40192EQPT20 Facility's ID=TRB-1
** Description=Elec Generating Turbine 244 kW Construction date=28-OCT-21
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E20 POINT 659951.274 3554221.448 0
SO SRCPARAM 40192E20 .0062999 7 588 10 .7
** NMED source ID=40192EQPT21 Facility's ID=TRB-2
** Description=Elec Generating Turbine 244 kW Construction date=28-OCT-21
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E21 POINT 659956.984 3554228.376 0
SO SRCPARAM 40192E21 .0062999 7 588 10 .7
** NMED source ID=40192EQPT22 Facility's ID=TRB-3
** Description=Elec Generating Turbine 244 kW Construction date=28-OCT-21
** SCC=20100201
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40192E22 POINT 659956.419 3554237.557 0
SO SRCPARAM 40192E22 .0062999 7 588 10 .7
**********END OF 40192: Blue Marlin CTB INFO************************************
************************************************************
** 23.34km away. Facility ID=38008 Name=Todd-Apache 6 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=7526 NOI
** lat,long,datum=32.338263, -103.720513, NAD83
** Total Sulfur Dioxide emissions=.05tons/year
```

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**********Facility sources: ****************************
** NMED source ID=38008EQPT36 Facility's ID=HT-1
** Description=Heater Treater 1 EQ000070979 Construction date=21-SEP-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38008E36 VOLUME 620412.901 3578649.93 0
SO SRCPARAM 38008E36 .0002898 9.14 .47 .93
** NMED source ID=38008EQPT37 Facility's ID=HT-2
** Description=Heater Treater 2 EQ000070962 Construction date=21-SEP-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38008E37 VOLUME 620420.437 3578656.951 0
SO SRCPARAM 38008E37 .0002898 9.14 .47 .93
** NMED source ID=38008EQPT38 Facility's ID=FL-1 LP
** Description=Flare Low Pressure Side EQ000070988 Construction date=29-JUN-18
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38008E38 POINT 620413.651 3578660.503 0
SO SRCPARAM 38008E38 .0037799 12.19 1273 20 .61
** NMED source ID=38008EQPT42 Facility's ID=FL-HP SSM
** Description=Flare High Pressure Side EQ000070988 Construction date=07-NOV-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38008E42 POINT 620406.054 3578658.411 0
SO SRCPARAM 38008E42 .0002898 12.19 1273 20 .61
**********END OF 38008: Todd-Apache 6 CTB 1
INFO**********************************
************************************************************
** 23.45km away. Facility ID=39498 Name=Chevron - Dagger Lake Section 4 CS
** Company ID=164 Name=Chevron USA Inc - Midland
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.41645, -103.57656, NAD83
** Total Sulfur Dioxide emissions=10.07tons/year
**********Facility sources: ****************************
** NMED source ID=39498EQPT1 Facility's ID=REB-1
** Description=1.5 MMBtu/hr TEG Reboiler Construction date=16-APR-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E1 POINT 633846.16 3587489.016 0
SO SRCPARAM 39498E1 .0037799 5.41 533.15 1.69 .46
** NMED source ID=39498EQPT2 Facility's ID=ENG-1
** Description=1875 hp Caterpillar G3606 compressor engine Construction
date=16-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E2 POINT 633853.696 3587496.037 0
SO SRCPARAM 39498E2 .0377994 8.84 708.71 28.65 .5
** NMED source ID=39498EQPT3 Facility's ID=ENG-2
** Description=1875 hp Caterpillar G3606 compressor engine Construction
date=16-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E3 POINT 633846.91 3587499.589 0
SO SRCPARAM 39498E3 .0377994 8.84 708.71 28.65 .5
** NMED source ID=39498EQPT4 Facility's ID=ENG-3
** Description=1875 hp Caterpillar G3606 compressor engine Construction
date=16-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E4 POINT 633839.313 3587497.497 0
SO SRCPARAM 39498E4 .0377994 8.84 708.71 28.65 .5
** NMED source ID=39498EQPT5 Facility's ID=ENG-4
** Description=1875 hp Caterpillar G3606 compressor engine Construction
date=16-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E5 POINT 633835.072 3587490.597 0
SO SRCPARAM 39498E5 .0377994 8.84 708.71 28.65 .5
** NMED source ID=39498EQPT7 Facility's ID=ENG-6
** Description=2500 hp Caterpillar G3608 compressor engine Construction
date=16-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E7 POINT 633836.724 3587482.443 0
SO SRCPARAM 39498E7 .0516592 8.84 718.71 26.21 .61
** NMED source ID=39498EQPT8 Facility's ID=FLARE
** Description=Flare, pilot, purge, preditable SSM Construction date=16-APR-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E8 POINT 633843.673 3587477.481 0
SO SRCPARAM 39498E8 .0302395 22.86 1273 20 14.712
** NMED source ID=39498EQPT12 Facility's ID=ENG-5
** Description=2500 hp Caterpillar G3608 compressor engine Construction
date=03-NOV-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39498E12 POINT 633852.356 3587478.623 0
SO SRCPARAM 39498E12 .0516592 8.84 718.71 26.21 .61
```

**********END OF 39498: Chevron - Dagger Lake Section 4 CS
INFO**********
**********
** 23.46km away. Facility ID=38939 Name=ConocoPhillips - Zia Hill 25E
** Company ID=1455 Name=ConocoPhillips - Midland Office
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.018611, -103.626667, WGS84
** Total Sulfur Dioxide emissions=.55tons/year
**********Facility sources: **********
** NMED source ID=38939EQPT1 Facility's ID=ENG1
** Description=690 hp Caterpillar 3508ULB Construction date=03-MAY-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4831hr/yr, 24hr/day
SO LOCATION 38939E1 POINT 629697.913 3543322.876 0
SO SRCPARAM 38939E1 .0075599 6.1 785.93 27.49 .3
** NMED source ID=38939EQPT2 Facility's ID=AUXH1
** Description=2 MMBTU/hr heater Construction date=03-MAY-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6216hr/yr, 24hr/day
SO LOCATION 38939E2 POINT 629705.449 3543329.897 0
SO SRCPARAM 38939E2 .0037799 4.57 672.04 4.45 .3
** NMED source ID=38939EQPT3 Facility's ID=AUXH2
** Description=2 MMBTU/hr heater Construction date=03-MAY-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38939E3 POINT 629698.663 3543333.449 0
SO SRCPARAM 38939E3 .0037799 4.57 672.04 4.45 .3
** NMED source ID=38939EQPT4 Facility's ID=FL1
** Description=8.4 MMscfd Dual Tip Flare Construction date=03-MAY-19
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6696hr/yr, 24hr/day
SO LOCATION 38939E4 POINT 629691.066 3543331.357 0
SO SRCPARAM 38939E4 .00252 9.14 1273 20 20.806
**********END OF 38939: ConocoPhillips - Zia Hill 25E
INFO**********
**********
** 23.58km away. Facility ID=40762 Name=Mule 23 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.121859, -103.751118, NAD83
** Total Sulfur Dioxide emissions=.05tons/year
**********Facility sources: **********
** NMED source ID=40762EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=01-NOV-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40762E2 VOLUME 617811.382 3554625.828 0
SO SRCPARAM 40762E2 .00126 9.14 .47 .93
** NMED source ID=40762EQPT11 Facility's ID=ENG-1
** Description=ENG-1 Combustion Engine Construction date=01-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40762E11 POINT 617818.918 3554632.849 0
SO SRCPARAM 40762E11 .00126 7.01 809.26 57.36 .3
** NMED source ID=40762EQPT15 Facility's ID=FL-1 SSM
** Description=Flare 1 Construction date=01-NOV-22
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40762E15 POINT 617812.132 3554636.401 0
SO SRCPARAM 40762E15 .0002898 12.19 1273 20 5.505
**********END OF 40762: Mule 23 CTB 1 INFO**********************************
************************************************************
** 23.61km away. Facility ID=39859 Name=Franklin - Paul Foster CTB
** Company ID=13826 Name=Franklin Mountain Energy LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.082102, -103.324553, NAD83
** Total Sulfur Dioxide emissions=.1tons/year
*****************Facility sources: ****************************
** NMED source ID=39859EQPT1 Facility's ID=GEN-01
** Description=Diesel Generator  1675 hp Construction date=19-FEB-21
** SCC=20100102
** Potential operating rate=480hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39859E1 POINT 658123.64 3550764.371 0
SO SRCPARAM 39859E1 .00252 5.49 777.59 971.4 .3
SO EMISFACT 39859E1 HROFDY 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
**********END OF 39859: Franklin - Paul Foster CTB
INFO**********************************
************************************************************
** 23.63km away. Facility ID=38796 Name=Ram 3 Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.413757, -103.45107, WGS84
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=38796EQPT20 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=09-JUN-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E20 POINT 645651.503 3587354.582 0
SO SRCPARAM 38796E20 .0002898 6.17 695.37 37.61 .25
** NMED source ID=38796EQPT39 Facility's ID=ENG-06
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** Description=Compressor Engine Construction date=28-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E39 POINT 645659.039 3587361.603 0
SO SRCPARAM 38796E39 .0002898 6.17 695.37 37.61 .25
** NMED source ID=38796EQPT40 Facility's ID=ENG-07
** Description=Compressor Engine Construction date=28-SEP-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38796E40 POINT 645652.253 3587365.155 0
SO SRCPARAM 38796E40 .0002898 6.17 695.37 37.61 .25
**********END OF 38796: Ram 3 Battery INFO**********************************
************************************************************
** 23.65km away. Facility ID=5127 Name=Exmoor 15 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.134797, -103.758413, NAD83
** Total Sulfur Dioxide emissions=.11tons/year
*****************Facility sources: ******************************
** NMED source ID=5127EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Engine Construction date=19-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5127E1 POINT 617106.64 3556052.13 0
SO SRCPARAM 5127E1 .00126 6.28 873.71 25.31 .41
** NMED source ID=5127EQPT3 Facility's ID=FL-1 HP SSM
** Description=Flare 1 High Pressure Side Construction date=19-JUN-23
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5127E3 POINT 617114.176 3556059.151 0
SO SRCPARAM 5127E3 .0002898 12.19 1273 20 4.652
** NMED source ID=5127EQPT6 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=19-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5127E6 VOLUME 617107.39 3556062.703 0
SO SRCPARAM 5127E6 .00126 9.14 .47 .93
** NMED source ID=5127EQPT7 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=19-JUN-23
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5127E7 VOLUME 617099.793 3556060.611 0
SO SRCPARAM 5127E7 .00126 9.14 .47 .93
** NMED source ID=5127EQPT16 Facility's ID=FL-1 LP SSM
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** Description=Flare 1 Low Pressure Side Construction date=19-JUN-23
** SCC=31000160
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 5127E16 POINT 617095.552 3556053.711 0
SO SRCPARAM 5127E16 .0008568 12.19 1273 20 20.806
**********END OF 5127: Exmoor 15 CTB 2 INFO**********************************
**************************************************************
** 23.7km away. Facility ID=37912 Name=ConocoPhillips - War Hammer 25 WF1
** Company ID=198 Name=ConocoPhillips Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.015556, -103.624722, WGS84
** Total Sulfur Dioxide emissions=.3tons/year
*****************Facility sources: ****************************
** NMED source ID=37912EQPT1 Facility's ID=ENG1
** Description=690 hp Caterpillar G3508ULB Construction date=04-SEP-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4831hr/yr, 24hr/day
SO LOCATION 37912E1 POINT 629885.925 3542986.545 0
SO SRCPARAM 37912E1 .0088199 7.1 725.93 34.78 .25
**********END OF 37912: ConocoPhillips - War Hammer 25 WF1
INFO**********************************
**************************************************************
** 23.72km away. Facility ID=40403 Name=Red Hills West Unit #023H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.05045, -103.689887, WGS84
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ****************************
** NMED source ID=40403EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=23-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40403E1 POINT 623684.113 3546778.266 0
SO SRCPARAM 40403E1 .0002898 6.17 695.37 37.61 .25
**********END OF 40403: Red Hills West Unit #023H Battery
INFO**********************************
**************************************************************
** 23.72km away. Facility ID=35048 Name=Salado Draw Compressor Station
** Company ID=12729 Name=Delaware Basin Midstream, LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.037364, -103.670419, WGS84
** Total Sulfur Dioxide emissions=1.24tons/year
*****************Facility sources: ****************************
** NMED source ID=35048EQPT13 Facility's ID=CE-1
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=7091hr/yr, 24hr/day
SO LOCATION 35048E13 POINT 625540.041 3545350.073 0
SO SRCPARAM 35048E13 .0037799 7.01 805.93 32.31 .41
** NMED source ID=35048EQPT14 Facility's ID=CE-2
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6776hr/yr, 24hr/day
SO LOCATION 35048E14 POINT 625547.577 3545357.094 0
SO SRCPARAM 35048E14 .0037799 7.01 805.93 32.31 .41
** NMED source ID=35048EQPT15 Facility's ID=CE-3
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6817hr/yr, 24hr/day
SO LOCATION 35048E15 POINT 625540.791 3545360.646 0
SO SRCPARAM 35048E15 .0037799 7.01 805.93 32.31 .41
** NMED source ID=35048EQPT16 Facility's ID=CE-4
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7031hr/yr, 24hr/day
SO LOCATION 35048E16 POINT 625533.194 3545358.554 0
SO SRCPARAM 35048E16 .0037799 7.01 761.48 32.31 .41
** NMED source ID=35048EQPT18 Facility's ID=CE-5
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7401hr/yr, 24hr/day
SO LOCATION 35048E18 POINT 625528.953 3545351.654 0
SO SRCPARAM 35048E18 .0037799 7.01 761.48 32.31 .41
** NMED source ID=35048EQPT19 Facility's ID=CE-6
** Description=1380 hp Caterpillar G3516B Construction date=23-NOV-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7594hr/yr, 24hr/day
SO LOCATION 35048E19 POINT 625530.605 3545343.5 0
SO SRCPARAM 35048E19 .0037799 7.01 761.48 32.31 .41
** NMED source ID=35048EQPT20 Facility's ID=CE-7
** Description=1380 hp Caterpillar G3516B Construction date=23-NOV-15
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8011hr/yr, 24hr/day
SO LOCATION 35048E20 POINT 625537.554 3545338.538 0
SO SRCPARAM 35048E20 .0037799 7.01 805.93 32.31 .41
** NMED source ID=35048EQPT21 Facility's ID=CE-8
** Description=1380 hp Caterpillar G3516B Construction date=20-JAN-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8392hr/yr, 24hr/day
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SO LOCATION 35048E21 POINT 625546.237 3545339.68 0
SO SRCPARAM 35048E21 .0037799 7.01 761.48 32.31 .41
** NMED source ID=35048EQPT22 Facility's ID=DHR-1
** Description=Dehydrator Reboiler Construction date=20-JAN-21
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4622hr/yr, 24hr/day
SO LOCATION 35048E22 POINT 625551.947 3545346.608 0
SO SRCPARAM 35048E22 .0005796 6.1 477.59 .98 .46
** NMED source ID=35048EQPT24 Facility's ID=EC-1
** Description=Enclosed Vapor Combustor - Tanks Construction date=31-DEC-15
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8742hr/yr, 24hr/day
SO LOCATION 35048E24 POINT 625551.382 3545355.789 0
SO SRCPARAM 35048E24 .00252 7.62 922.04 1.97 1.37
** NMED source ID=35048EQPT25 Facility's ID=TO-1
** Description=Thermal Oxidizer Construction date=20-JAN-21
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5051hr/yr, 24hr/day
SO LOCATION 35048E25 POINT 625544.547 3545362.267 0
SO SRCPARAM 35048E25 .0100798 10.67 1172.04 4.13 1.07
** NMED source ID=35048EQPT29 Facility's ID=SSM-FL1
** Description=Flare for SSM Activities Construction date=07-SEP-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 35048E29 POINT 625534.911 3545362.344 0
SO SRCPARAM 35048E29 .0002898 12.19 1273 20 20.806
**********END OF 35048: Salado Draw Compressor Station
INFO**********************************
************************************************************
** 23.73km away. Facility ID=38744 Name=Moon Compressor Station
** Company ID=13796 Name=Cotton Draw Midstream LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.0929, -103.7339, WGS84
** Total Sulfur Dioxide emissions=.12tons/year
****************Facility sources: ****************************
** NMED source ID=38744EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8238hr/yr, 24hr/day
SO LOCATION 38744E1 POINT 619473.442 3551434.503 0
SO SRCPARAM 38744E1 .00126 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT4 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=7814hr/yr, 24hr/day
SO LOCATION 38744E4 POINT 619480.978 3551441.524 0
SO SRCPARAM 38744E4 .00126 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT5 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7896hr/yr, 24hr/day
SO LOCATION 38744E5 POINT 619474.192 3551445.076 0
SO SRCPARAM 38744E5 .00126 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT6 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7968hr/yr, 24hr/day
SO LOCATION 38744E6 POINT 619466.595 3551442.984 0
SO SRCPARAM 38744E6 .00126 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT7 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8234hr/yr, 24hr/day
SO LOCATION 38744E7 POINT 619462.354 3551436.084 0
SO SRCPARAM 38744E7 .00126 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT8 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=17-APR-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8446hr/yr, 24hr/day
SO LOCATION 38744E8 POINT 619464.006 3551427.93 0
SO SRCPARAM 38744E8 .00126 7.32 806.48 37.76 .38
** NMED source ID=38744EQPT13 Facility's ID=FL-1
** Description=Process Flare Construction date=17-APR-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8446hr/yr, 24hr/day
SO LOCATION 38744E13 POINT 619470.955 3551422.968 0
SO SRCPARAM 38744E13 0 6.1 1273 20 20.806
**********END OF 38744: Moon Compressor Station
INFO***********************************
************************************************************
** 23.76km away. Facility ID=38506 Name=Tomb Raider 1 CTB 3
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.339961, -103.724672, NAD83
** Total Sulfur Dioxide emissions=.16tons/year
*****************Facility sources: ******************************
** NMED source ID=38506EQPT3 Facility's ID=ENG-1
** Description=Caterpillar CG137-8 400 hp Construction date=09-JUL-18
** SCC=20200253
```

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** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38506E3 POINT 620019.227 3578833.502 0
SO SRCPARAM 38506E3 .0002898 4.39 778.71 15 .26
** NMED source ID=38506EQPT7 Facility's ID=HT-1
** Description=Heater Treater 1, 1.0 mm btu/h Construction date=19-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E7 VOLUME 620026.763 3578840.523 0
SO SRCPARAM 38506E7 .0002898 9.14 .47 .93
** NMED source ID=38506EQPT8 Facility's ID=HT-2
** Description=Heater Treater 2, 1.0 mm btu/h Construction date=19-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E8 VOLUME 620019.977 3578844.075 0
SO SRCPARAM 38506E8 .0002898 9.14 .47 .93
** NMED source ID=38506EQPT9 Facility's ID=HT-3
** Description=Heater Treater 3, 1.0 mm btu/h Construction date=19-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E9 VOLUME 620012.38 3578841.983 0
SO SRCPARAM 38506E9 .0002898 9.14 .47 .93
** NMED source ID=38506EQPT10 Facility's ID=HT-4
** Description=Heater Treater 4, 1.0 mm btu/h Construction date=19-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E10 VOLUME 620008.139 3578835.083 0
SO SRCPARAM 38506E10 .0002898 9.14 .47 .93
** NMED source ID=38506EQPT11 Facility's ID=HT-5
** Description=Heater Treater 5, 1.0 mm btu/h Construction date=19-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E11 VOLUME 620009.791 3578826.929 0
SO SRCPARAM 38506E11 .0002898 9.14 .47 .93
** NMED source ID=38506EQPT12 Facility's ID=HT-6
** Description=Heater Treater 6, 1.0 mm btu/h Construction date=09-JUL-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E12 VOLUME 620016.74 3578821.967 0
SO SRCPARAM 38506E12 .0002898 9.14 .47 .93
** NMED source ID=38506EQPT18 Facility's ID=FL-1
** Description=Flare, 12.7 MM scf/d Construction date=19-JUL-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38506E18 POINT 620025.423 3578823.109 0
SO SRCPARAM 38506E18 .0050399 12.19 1273 20 10.193
** NMED source ID=38506EQPT20 Facility's ID=ENG-2
** Description=Caterpillar CG137-8 400 hp
 Construction date=19-JUL-18
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38506E20 POINT 620031.133 3578830.037 0
SO SRCPARAM 38506E20 .0002898 4.39 778.71 15 .26
**********END OF 38506: Tomb Raider 1 CTB 3
INFO**********************************
************************************************************
** 23.81km away. Facility ID=39793 Name=Devon - Galapagos 14 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.308785, -103.748574, NAD83
** Total Sulfur Dioxide emissions=.2tons/year
*****************Facility sources: ******************************
** NMED source ID=39793EQPT1 Facility's ID=FL-1
** Description=Flare (15.5 MM SCFD) Construction date=18-DEC-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E1 POINT 617810.06 3575350.806 0
SO SRCPARAM 39793E1 .0113398 12.19 1273 20 16.116
** NMED source ID=39793EQPT3 Facility's ID=GEN-1
** Description=Generator 1 (550 hp) 4SRB Construction date=18-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E3 POINT 617817.596 3575357.827 0
SO SRCPARAM 39793E3 .0002898 3.51 1005.37 215.22 .09
** NMED source ID=39793EQPT4 Facility's ID=GEN-2
** Description=Generator 1 (550 hp) 4SRB Construction date=18-DEC-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E4 POINT 617810.81 3575361.379 0
SO SRCPARAM 39793E4 .0002898 3.51 1005.37 215.22 .09
** NMED source ID=39793EQPT5 Facility's ID=HT-1
** Description=Heater Treater (3 MM BTU/hr) Construction date=18-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E5 VOLUME 617803.213 3575359.287 0
SO SRCPARAM 39793E5 .0005796 9.14 .47 .93
** NMED source ID=39793EQPT6 Facility's ID=HT-2
** Description=Heater Treater (3 MM BTU/hr) Construction date=18-DEC-20
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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39793E6 VOLUME 617798.972 3575352.387 0
SO SRCPARAM 39793E6 .0005796 9.14 .47 .93
**********END OF 39793: Devon - Galapagos 14 CTB 2
INFO**********************************
************************************************************
** 23.84km away. Facility ID=39205 Name=Mewbourne - Armstrong 26 25 W1IP Fed Com 1H
Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.101567, -103.741636, WGS84
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=39205EQPT25 Facility's ID=ENG-03
** Description=690 HP Compressor Engine Construction date=09-DEC-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39205E25 POINT 618732.181 3552386.744 0
SO SRCPARAM 39205E25 .0002898 5.49 694.82 25.77 .3
**********END OF 39205: Mewbourne - Armstrong 26 25 W1IP Fed Com 1H Battery
INFO**********************************
************************************************************
** 23.93km away. Facility ID=38056 Name=Wildcat Compressor Station
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=7474 Title V
** lat,long,datum=32.201944, -103.777778, NAD83
** Total Sulfur Dioxide emissions=21.86tons/year
*****************Facility sources: ******************************
** NMED source ID=38056EQPT5 Facility's ID=ENG1
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8476hr/yr, 24hr/day
SO LOCATION 38056E5 POINT 615195.456 3563474.912 0
SO SRCPARAM 38056E5 .0297305 7.62 704.82 90.17 .46
** NMED source ID=38056EQPT6 Facility's ID=ENG2
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8045hr/yr, 24hr/day
SO LOCATION 38056E6 POINT 615202.992 3563481.933 0
SO SRCPARAM 38056E6 .0313231 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT7 Facility's ID=ENG3
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
```

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** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8432hr/yr, 24hr/day
SO LOCATION 38056E7 POINT 615196.206 3563485.485 0
SO SRCPARAM 38056E7 .0298855 7.62 704.82 90.17 .46
** NMED source ID=38056EQPT8 Facility's ID=ENG4
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7003hr/yr, 24hr/day
SO LOCATION 38056E8 POINT 615188.609 3563483.393 0
SO SRCPARAM 38056E8 .062999 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT9 Facility's ID=ENG5
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6682hr/yr, 24hr/day
SO LOCATION 38056E9 POINT 615184.368 3563476.493 0
SO SRCPARAM 38056E9 .062999 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT10 Facility's ID=ENG6
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7009hr/yr, 24hr/day
SO LOCATION 38056E10 POINT 615186.02 3563468.339 0
SO SRCPARAM 38056E10 .062999 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT11 Facility's ID=ENG7
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38056E11 POINT 615192.969 3563463.377 0
SO SRCPARAM 38056E11 .062999 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT12 Facility's ID=ENG8
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38056E12 POINT 615201.652 3563464.519 0
SO SRCPARAM 38056E12 .062999 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT21 Facility's ID=ENG9
** Description=Caterpillar 3616TA Natural Gas Engine-5000hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38056E21 POINT 615207.362 3563471.447 0
SO SRCPARAM 38056E21 .062999 7.62 704.82 90.2 .46
** NMED source ID=38056EQPT23 Facility's ID=ENG11
** Description=Caterpillar 3516TA Natural Gas Engine-1380hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=4693hr/yr, 24hr/day
SO LOCATION 38056E23 POINT 615206.797 3563480.628 0
SO SRCPARAM 38056E23 .0251996 6.1 809.26 59.28 .3
** NMED source ID=38056EQPT24 Facility's ID=ENG12
** Description=Caterpillar 3516TA Natural Gas Engine-1380hp Construction
date=07-FEB-19
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5475hr/yr, 24hr/day
SO LOCATION 38056E24 POINT 615199.962 3563487.106 0
SO SRCPARAM 38056E24 .0251996 6.1 809.26 59.28 .3
** NMED source ID=38056EQPT32 Facility's ID=FL1-FL3 A,B
** Description=Flares 1-3 (HP-LP Pilots, purge & normal ops) Construction
date=07-FEB-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38056E32 POINT 615190.326 3563487.183 0
SO SRCPARAM 38056E32 .00252 44.2 1273 20 3.604
** NMED source ID=38056EQPT33 Facility's ID=SSM-Flaring
** Description=Flares 1-3 (HP and LP Pilots) Construction date=07-FEB-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38056E33 POINT 615183.065 3563480.517 0
SO SRCPARAM 38056E33 .0014364 44.2 1273 20 2.632
** NMED source ID=38056EQPT35 Facility's ID=HTR1
** Description=Fuel Line Heater-0.75 MMBtu/hr Construction date=10-SEP-20
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38056E35 POINT 615182.285 3563470.471 0
SO SRCPARAM 38056E35 .0011466 4.57 699.82 1.96 .23
**********END OF 38056: Wildcat Compressor Station
INFO**********************************
************************************************************
** 23.96km away. Facility ID=40119 Name=Red Hills West 22 W0AP Fed Com No2H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.033583, -103.668553, WGS84
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
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** NMED source ID=40119EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine (Caterpillar G3516J) Construction date=02-SEP-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40119E3 POINT 625721.412 3544933.096 0
SO SRCPARAM 40119E3 .00126 6.27 774.82 50.87 .3
**********END OF 40119: Red Hills West 22 W0AP Fed Com No2H Battery
INFO**********************************
************************************************************
** 23.99km away. Facility ID=40035 Name=Tenderloin Federal 1 B CTB
** Company ID=11135 Name=COG Operating LLC
** SIC=1311 NAIC=21112    Permit=9257 NOI
** lat,long,datum=32.42602, -103.52262, WGS84
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=40035EQPT4 Facility's ID=ENG-01
** Description=Compressor engine Construction date=29-OCT-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40035E4 POINT 638903.944 3588618.85 0
SO SRCPARAM 40035E4 .0002898 5.49 1000.37 50.23 .15
** NMED source ID=40035EQPT5 Facility's ID=ENG-02
** Description=Compressor engine Construction date=29-OCT-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40035E5 POINT 638911.48 3588625.871 0
SO SRCPARAM 40035E5 .0002898 5.49 1000.37 50.23 .15
** NMED source ID=40035EQPT6 Facility's ID=ENG-03
** Description=Compressor engine Construction date=29-OCT-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40035E6 POINT 638904.694 3588629.423 0
SO SRCPARAM 40035E6 .0002898 5.49 1000.37 50.23 .15
**********END OF 40035: Tenderloin Federal 1 B CTB
INFO**********************************
************************************************************
** 24.01km away. Facility ID=40506 Name=Belloq 11 CTB 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.31475, -103.74722, NAD83
** Total Sulfur Dioxide emissions=.05tons/year
*****************Facility sources: ****************************
** NMED source ID=40506EQPT2 Facility's ID=HT-1
** Description=Heater Treater 1 Construction date=01-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40506E2 VOLUME 617929.805 3576013.571 0
SO SRCPARAM 40506E2 .0005796 9.14 .47 .93
** NMED source ID=40506EQPT3 Facility's ID=HT-2
** Description=Heater Treater 2 Construction date=01-JUL-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40506E3 VOLUME 617937.341 3576020.592 0
SO SRCPARAM 40506E3 .0005796 9.14 .47 .93
** NMED source ID=40506EQPT12 Facility's ID=FL-1 SSM SSM
** Description=Flare Construction date=01-JUL-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40506E12 POINT 617930.555 3576024.144 0
SO SRCPARAM 40506E12 .0002898 12.19 1273 20 6.579
**********END OF 40506: Belloq 11 CTB 2 INFO**********************************
************************************************************
** 24.03km away. Facility ID=38508 Name=OXY - North Corridor East Central Gas Lift
** Company ID=633 Name=OXY USA Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.264425, -103.770981, WGS84
** Total Sulfur Dioxide emissions=.31tons/year
*****************Facility sources: ****************************
** NMED source ID=38508EQPT1 Facility's ID=ENG-1
** Description=Compressor Engine G3516B Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7693hr/yr, 24hr/day
SO LOCATION 38508E1 POINT 615756.864 3570408.712 0
SO SRCPARAM 38508E1 .00126 4.57 816.48 26.27 .46
** NMED source ID=38508EQPT2 Facility's ID=ENG-2
** Description=Compressor Engine G3516B Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7687hr/yr, 24hr/day
SO LOCATION 38508E2 POINT 615764.4 3570415.733 0
SO SRCPARAM 38508E2 .00126 4.57 816.48 26.27 .46
** NMED source ID=38508EQPT3 Facility's ID=ENG-3
** Description=Compressor Engine G3516B Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7701hr/yr, 24hr/day
SO LOCATION 38508E3 POINT 615757.614 3570419.285 0
SO SRCPARAM 38508E3 .00126 4.57 816.48 26.27 .46
** NMED source ID=38508EQPT4 Facility's ID=ENG-4
** Description=Compressor Engine G3516B Construction date=19-JUL-18
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
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** Actual operating rate=7665hr/yr, 24hr/day
SO LOCATION 38508E4 POINT 615750.017 3570417.193 0
SO SRCPARAM 38508E4 .00126 4.57 816.48 26.27 .46
** NMED source ID=38508EQPT7 Facility's ID=REB-1
** Description=Glycol Dehydrator Reboiler Construction date=19-JUL-18
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38508E7 POINT 615745.776 3570410.293 0
SO SRCPARAM 38508E7 .0002898 3.05 533.15 .12 .24
** NMED source ID=38508EQPT9 Facility's ID=ENG-5
** Description=Compressor Engine G3516B Construction date=01-MAR-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38508E9 POINT 615747.428 3570402.139 0
SO SRCPARAM 38508E9 .00126 4.57 816.48 26.27 .46
**********END OF 38508: OXY - North Corridor East Central Gas Lift
INFO**********************************
************************************************************
** 24.15km away. Facility ID=40838 Name=Belloq 11 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9829 NOI
** lat,long,datum=32.312163, -103.750552, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=40838EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=12-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40838E2 POINT 617619.471 3575723.116 0
SO SRCPARAM 40838E2 .0002898 5.85 772.59 21.02 .27
**********END OF 40838: Belloq 11 Wellpad 1
INFO**********************************
************************************************************
** 24.23km away. Facility ID=32209 Name=XTO - PLU No411 Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.192768, -103.780229, WGS84
** Total Sulfur Dioxide emissions=.04tons/year
*****************Facility sources: ******************************
** NMED source ID=32209EQPT21 Facility's ID=HPF
** Description=5 MMscfd High Pressure Flare-SSM Construction date=21-AUG-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 32209E21 POINT 614975.973 3562455.066 0
SO SRCPARAM 32209E21 .0011466 6.1 1273 20 20.806
**********END OF 32209: XTO - PLU No411 Battery
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INFO**********************************
************************************************************
** 24.26km away. Facility ID=39823 Name=Dark Horse Treating Facility
** Company ID=13928 Name=Pinon Midstream LLC
** SIC=4932 NAIC=22121    Permit=9058 NSR
** lat,long,datum=32.120112, -103.289663, WGS84
** Total Sulfur Dioxide emissions=4.73tons/year
*****************Facility sources: ******************************
** NMED source ID=39823EQPT1 Facility's ID=C-1200
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=28-DEC-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E1 POINT 661350.011 3555030.08 0
SO SRCPARAM 39823E1 .0151198 9.6 718.15 26 .61
** NMED source ID=39823EQPT2 Facility's ID=H-1600
** Description=Stabilizer Hot Oil Heater Construction date=28-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E2 VOLUME 661357.547 3555037.101 0
SO SRCPARAM 39823E2 .0251996 5.49 .47 .93
** NMED source ID=39823EQPT6 Facility's ID=FL-1850
** Description=Emergency Flare Construction date=28-DEC-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E6 POINT 661350.761 3555040.653 0
SO SRCPARAM 39823E6 .00126 36.27 1273 20 1.07
** NMED source ID=39823EQPT10 Facility's ID=C-1210
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=28-DEC-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E10 POINT 661343.164 3555038.561 0
SO SRCPARAM 39823E10 .0151198 9.6 718.15 26 .61
** NMED source ID=39823EQPT11 Facility's ID=C-1220
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=28-DEC-20
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E11 POINT 661338.923 3555031.661 0
SO SRCPARAM 39823E11 .0151198 9.6 718.15 26 .61
** NMED source ID=39823EQPT12 Facility's ID=C-1230
** Description=2500-hp Caterpillar G3608 A4 Compressor Engine Construction
date=28-DEC-20
** SCC=20200254
```

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E12 POINT 661340.575 3555023.507 0
SO SRCPARAM 39823E12 .0151198 9.6 718.15 26 .61
** NMED source ID=39823EQPT13 Facility's ID=H-1605
** Description=Amine Hot Oil Heater Construction date=28-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E13 VOLUME 661347.524 3555018.545 0
SO SRCPARAM 39823E13 .2771956 8.84 .47 .93
** NMED source ID=39823EQPT14 Facility's ID=H-1606
** Description=Amine Hot Oil Heater Construction date=28-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E14 VOLUME 661356.207 3555019.687 0
SO SRCPARAM 39823E14 .2771956 8.84 .47 .93
** NMED source ID=39823EQPT15 Facility's ID=H-1607
** Description=Amine Hot Oil Heater Construction date=28-DEC-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E15 VOLUME 661361.917 3555026.615 0
SO SRCPARAM 39823E15 .2771956 8.84 .47 .93
** NMED source ID=39823EQPT22 Facility's ID=FL-1981
** Description=Dehy Regen Combustor ECD Construction date=28-DEC-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39823E22 POINT 661361.352 3555035.796 0
SO SRCPARAM 39823E22 .0075599 7.62 1273 20 1.22
**********END OF 39823: Dark Horse Treating Facility
INFO**********************************
************************************************************
** 24.26km away. Facility ID=39663 Name=Coltrane-Bebop and Big Sinks 1 12 W1BO Fed
Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.078278, -103.728501, WGS84
** Total Sulfur Dioxide emissions=.1tons/year
*****************Facility sources: ******************************
** NMED source ID=39663EQPT8 Facility's ID=HT-02
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E8 VOLUME 620002.057 3549819.563 0
SO SRCPARAM 39663E8 .0002898 4.57 .47 .93
** NMED source ID=39663EQPT12 Facility's ID=HT-06
```

```
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E12 VOLUME 620009.593 3549826.584 0
SO SRCPARAM 39663E12 .0002898 4.57 .47 .93
** NMED source ID=39663EQPT13 Facility's ID=HT-07
** Description=Heater Treater Construction date=25-SEP-22
** SCC=31000107
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E13 VOLUME 620002.807 3549830.136 0
SO SRCPARAM 39663E13 .0002898 4.57 .47 .93
** NMED source ID=39663EQPT59 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=01-FEB-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E59 POINT 619995.21 3549828.044 0
SO SRCPARAM 39663E59 .00126 7.16 819.82 33.86 .41
** NMED source ID=39663EQPT62 Facility's ID=GEN-02
** Description=Generator Engine Construction date=01-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E62 POINT 619990.969 3549821.144 0
SO SRCPARAM 39663E62 .0002898 4.51 930.37 88.12 .09
** NMED source ID=39663EQPT63 Facility's ID=GEN-03
** Description=Generator Engine Construction date=01-FEB-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E63 POINT 619992.621 3549812.99 0
SO SRCPARAM 39663E63 .0002898 4.51 930.37 88.12 .09
** NMED source ID=39663EQPT66 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=13-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E66 POINT 619999.57 3549808.028 0
SO SRCPARAM 39663E66 .0002898 4.57 989.82 70.41 .13
** NMED source ID=39663EQPT67 Facility's ID=ENG-04
** Description=Compressor Engine Construction date=13-JUL-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E67 POINT 620008.253 3549809.17 0
SO SRCPARAM 39663E67 .0002898 4.11 894.82 36.52 .13
** NMED source ID=39663EQPT73 Facility's ID=ENG-05
** Description=Compressor Engine Construction date=08-DEC-23
```

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** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39663E73 POINT 620013.963 3549816.098 0
SO SRCPARAM 39663E73 .0002898 4.57 989.82 70.41 .13
**********END OF 39663: Coltrane-Bebop and Big Sinks 1 12 W1BO Fed Com 1H Battery
INFO**********************************
**************************************************************
** 24.27km away. Facility ID=38846 Name=Tomb Raider 1 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.337958, -103.733158, NAD83
** Total Sulfur Dioxide emissions=.12tons/year
*****************Facility sources: ****************************
** NMED source ID=38846EQPT1 Facility's ID=HT-1
** Description=Heater Treater Construction date=27-NOV-19
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 38846E1 POINT 619223.192 3578601.969 0
SO SRCPARAM 38846E1 .0005796 9.14 888.71 9.07 .31
** NMED source ID=38846EQPT17 Facility's ID=FL-01 LP
** Description=Flare Construction date=01-JAN-18
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38846E17 POINT 619230.728 3578608.99 0
SO SRCPARAM 38846E17 .0201597 12.19 1273 20 10.609
**********END OF 38846: Tomb Raider 1 CTB 1
INFO**********************************
**************************************************************
** 24.3km away. Facility ID=39634 Name=Chimichangas 12 State Com CTB 1
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.410174, -103.41928, NAD83
** Total Sulfur Dioxide emissions=6.49tons/year
*****************Facility sources: ****************************
** NMED source ID=39634EQPT9 Facility's ID=FL-1
** Description=21 MMscf/d Tri-Tip Flare Construction date=26-AUG-20
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=3072hr/yr, 24hr/day
SO LOCATION 39634E9 POINT 648647.03 3587001.121 0
SO SRCPARAM 39634E9 .186477 12.19 1273 20 5.505
** NMED source ID=39634EQPT11 Facility's ID=ENG-1
** Description=Caterpillar 3408 Compressor Engine, 400 hp Construction
date=23-JUN-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
```

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SO LOCATION 39634E11 POINT 648654.566 3587008.142 0
SO SRCPARAM 39634E11 .0005796 3.66 802.59 15.1 .25
**********END OF 39634: Chimichangas 12 State Com CTB 1
INFO**********************************
************************************************************
** 24.31km away. Facility ID=39692 Name=Dagger Lake North TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.418668, -103.602166, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=39692EQPT18 Facility's ID=ENG-1
** Description=Caterpillar 3516J  1380 hp Construction date=20-MAY-21
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=7208hr/yr, 24hr/day
SO LOCATION 39692E18 POINT 631435.003 3587703.126 0
SO SRCPARAM 39692E18 .0005796 6.1 707.04 205.89 .15
**********END OF 39692: Dagger Lake North TB
INFO**********************************
************************************************************
** 24.39km away. Facility ID=31539 Name=ConocoPhillips - Golden Spur Fed Production
Location
** Company ID=198 Name=ConocoPhillips Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.003126, -103.4406, NAD83
** Total Sulfur Dioxide emissions=.16tons/year
*****************Facility sources: ******************************
** NMED source ID=31539EQPT8 Facility's ID=ENG1
** Description=276 hp Caterpillar 3406TA Engine Construction date=23-JAN-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2372hr/yr, 24hr/day
SO LOCATION 31539E8 POINT 647296.7 3541844.716 0
SO SRCPARAM 31539E8 .0037799 4.15 836.48 27.46 .15
** NMED source ID=31539EQPT10 Facility's ID=HT1
** Description=0.5 MMBtu/hr Heater Treater Construction date=23-JAN-20
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2424hr/yr, 24hr/day
SO LOCATION 31539E10 VOLUME 647304.236 3541851.737 0
SO SRCPARAM 31539E10 .00126 6.1 .47 .93
**********END OF 31539: ConocoPhillips - Golden Spur Fed Production Location
INFO**********************************
************************************************************
** 24.41km away. Facility ID=34038 Name=PLU Big Sinks 3-25-31 Tank Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.16455, -103.77727, WGS84
** Total Sulfur Dioxide emissions=.19tons/year
```

**********Facility sources: **********
** NMED source ID=34038EQPT13 Facility's ID=HPF SSM
** Description=High Pressure Flare Construction date=03-SEP-20
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34038E13 POINT 615290.465 3559330.082 0
SO SRCPARAM 34038E13 .0048887 8.84 1273 20 5.505
** NMED source ID=34038EQPT14 Facility's ID=LPF SSM
** Description=Low Pressure Flare Construction date=30-SEP-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 34038E14 POINT 615298.001 3559337.103 0
SO SRCPARAM 34038E14 .0005796 8.84 1273 20 20.806
**********END OF 34038: PLU Big Sinks 3-25-31 Tank Battery
INFO**********
**********
** 24.52km away. Facility ID=40839 Name=Belloq 11 Wellpad 2
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=9827 NOI
** lat,long,datum=32.31229, -103.754908, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
**********Facility sources: **********
** NMED source ID=40839EQPT3 Facility's ID=ENG 3
** Description=ENG 3 Combustion Engine Construction date=06-JAN-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40839E3 POINT 617209.218 3575732.422 0
SO SRCPARAM 40839E3 .0002898 5.85 772.59 21.02 .27
**********END OF 40839: Belloq 11 Wellpad 2
INFO**********
**********
** 24.52km away. Facility ID=38848 Name=Devon - Belloq 11 CTB 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.314692, -103.753403, NAD83
** Total Sulfur Dioxide emissions=.06tons/year
**********Facility sources: **********
** NMED source ID=38848CONT1 Facility's ID=FL-1
** Description=15.5 MMscf/d Flare - Process & Produced Gas Construction
date=03-MAY-19
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38848C1 POINT 617347.807 3576000.353 0
SO SRCPARAM 38848C1 .00126 12.19 1273 20 13.159
** NMED source ID=38848EQPT3 Facility's ID=HT-1
** Description=Heater Treater Construction date=03-MAY-19

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** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38848E3 POINT 617355.343 3576007.374 0
SO SRCPARAM 38848E3 .0002898 9.14 708.71 2.82 .34
** NMED source ID=38848EQPT15 Facility's ID=GEN-1
** Description=Generator 550 hp Construction date=03-MAY-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6072hr/yr, 24hr/day
SO LOCATION 38848E15 POINT 617348.557 3576010.926 0
SO SRCPARAM 38848E15 .0002898 3.51 1005.37 77.49 .15
** NMED source ID=38848EQPT16 Facility's ID=GEN-2
** Description=Generator 362 hp Construction date=03-MAY-19
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=6072hr/yr, 24hr/day
SO LOCATION 38848E16 POINT 617340.96 3576008.834 0
SO SRCPARAM 38848E16 .0002898 3.51 1005.37 49.03 .15
** NMED source ID=38848EQPT20 Facility's ID=GEN-4
** Description=Generator 550 hp Construction date=24-APR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=2712hr/yr, 24hr/day
SO LOCATION 38848E20 POINT 617336.719 3576001.934 0
SO SRCPARAM 38848E20 .0002898 3.51 1005.37 77.49 .15
**********END OF 38848: Devon - Belloq 11 CTB 1
INFO**********************************
************************************************************
** 24.66km away. Facility ID=40735 Name=Ranger Peak Compressor Station
** Company ID=13928 Name=Pinon Midstream LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.114295, -103.288249, NAD83
** Total Sulfur Dioxide emissions=.37tons/year
*****************Facility sources: ******************************
** NMED source ID=40735EQPT1 Facility's ID=ENG-1
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E1 POINT 661493.669 3554387.29 0
SO SRCPARAM 40735E1 .00126 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT2 Facility's ID=ENG-2
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E2 POINT 661501.205 3554394.311 0
SO SRCPARAM 40735E2 .00126 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT3 Facility's ID=ENG-3
```

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** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E3 POINT 661494.419 3554397.863 0
SO SRCPARAM 40735E3 .00126 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT4 Facility's ID=ENG-4
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E4 POINT 661486.822 3554395.771 0
SO SRCPARAM 40735E4 .00126 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT5 Facility's ID=ENG-5
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E5 POINT 661482.581 3554388.871 0
SO SRCPARAM 40735E5 .00126 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT6 Facility's ID=ENG-6
** Description=Engine Construction date=06-OCT-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E6 POINT 661484.233 3554380.717 0
SO SRCPARAM 40735E6 .00126 9.14 729.26 25.29 .61
** NMED source ID=40735EQPT8 Facility's ID=FLARE-1
** Description=Flare Construction date=06-OCT-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E8 POINT 661491.182 3554375.755 0
SO SRCPARAM 40735E8 .00126 18.29 1273 20 20.806
** NMED source ID=40735EQPT14 Facility's ID=ENG-8
** Description=Engine Construction date=07-JUN-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40735E14 POINT 661499.865 3554376.897 0
SO SRCPARAM 40735E14 .00126 9.14 868.15 19.6 .46
**********END OF 40735: Ranger Peak Compressor Station
INFO**********************************
************************************************************
** 24.66km away. Facility ID=39393 Name=Armstrong 26 23 W1EE Fed Com 1H Battery
** Company ID=537 Name=Mewbourne Oil Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.100586, -103.751058, WGS84
** Total Sulfur Dioxide emissions=.08tons/year
****************Facility sources: ****************************
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** NMED source ID=39393EQPT1 Facility's ID=ENG-01
** Description=Compressor Engine Construction date=28-JUN-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39393E1 POINT 617844.372 3552267.655 0
SO SRCPARAM 39393E1 .00126 7.16 819.82 33.86 .41
** NMED source ID=39393EQPT5 Facility's ID=HT-01
** Description=Heater Treater Construction date=28-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39393E5 VOLUME 617851.908 3552274.676 0
SO SRCPARAM 39393E5 .0002898 4.57 .47 .93
** NMED source ID=39393EQPT6 Facility's ID=HT-02
** Description=Heater Treater Construction date=28-JUN-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8760hr/yr, 24hr/day
SO LOCATION 39393E6 VOLUME 617845.122 3552278.228 0
SO SRCPARAM 39393E6 .0002898 4.57 .47 .93
** NMED source ID=39393EQPT27 Facility's ID=ENG-02
** Description=Compressor Engine Construction date=03-NOV-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39393E27 POINT 617837.525 3552276.136 0
SO SRCPARAM 39393E27 .0002898 5.49 857.04 38.28 .2
** NMED source ID=39393EQPT30 Facility's ID=HT-06
** Description=Heater Treater Construction date=03-NOV-21
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39393E30 VOLUME 617833.284 3552269.236 0
SO SRCPARAM 39393E30 .0002898 4.57 .47 .93
** NMED source ID=39393EQPT35 Facility's ID=ENG-03
** Description=Compressor Engine Construction date=08-DEC-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39393E35 POINT 617834.936 3552261.082 0
SO SRCPARAM 39393E35 .0002898 4.57 989.82 70.41 .13
**********END OF 39393: Armstrong 26 23 W1EE Fed Com 1H Battery
INFO***********************************
************************************************************
** 24.68km away. Facility ID=27650 Name=Concrete Mobility -  GCP5-3802
** Company ID=10457 Name=Concrete Mobility
** SIC=3273 NAIC=32732    Permit=3802 GCP5
** lat,long,datum=32.06515, -103.7215, WGS84
** Total Sulfur Dioxide emissions=50tons/year
```

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*****************Facility sources: ******************************
** NMED source ID=27650ACT 1 Facility's ID=GCP-5
** Description=200 YPD Concrete Batch Plant Construction date=15-AUG-08
** SCC=30501199
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 27650@1 VOLUME 620680.094 3548372.058 0
SO SRCPARAM 27650@1 1.4383302 10 220 9.3
**********END OF 27650: Concrete Mobility -  GCP5-3802
INFO*********************************
************************************************************
** 24.74km away. Facility ID=41074 Name=El Campeon EC1a CTB20 Satellite
** Company ID= Name=
** SIC=1311 NAIC=21112    Permit=9978 NOI
** lat,long,datum=32.023042, -103.383104, NAD83
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
** NMED source ID=41074EQPT5 Facility's ID=GEN-1
** Description=Generator Engine 1 Construction date=18-MAY-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 41074E5 POINT 652695.202 3544132.455 0
SO SRCPARAM 41074E5 .0002898 3.66 1005.37 43.59 .2
**********END OF 41074: El Campeon EC1a CTB20 Satellite
INFO*********************************
************************************************************
** 24.79km away. Facility ID=40356 Name=PLU 16 Twin Wells Ranch West Tank Battery
** Company ID=939 Name=XTO Energy Inc
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.208522, -103.787086, WGS84
** Total Sulfur Dioxide emissions=.35tons/year
*****************Facility sources: ******************************
** NMED source ID=40356EQPT1 Facility's ID=HPF
** Description=HIGH PRESSURE FLARE Construction date=07-APR-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E1 POINT 614309.884 3564194.192 0
SO SRCPARAM 40356E1 .0002898 30.48 1273 20 20.806
** NMED source ID=40356EQPT3 Facility's ID=HTR1
** Description=HEATER TREATER BURNER: 4.0 MMBTU/HR Construction date=07-APR-22
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E3 POINT 614317.42 3564201.213 0
SO SRCPARAM 40356E3 .0005796 12.19 810.93 10.15 .3
** NMED source ID=40356EQPT4 Facility's ID=HTR2
** Description=HEATER TREATER BURNER: 4.0 MMBTU/HR Construction date=07-APR-22
** SCC=31000404
```

```
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E4 POINT 614310.634 3564204.765 0
SO SRCPARAM 40356E4 .0005796 12.19 810.93 10.15 .3
** NMED source ID=40356EQPT5 Facility's ID=LPF
** Description=LOW PRESSURE FLARE Construction date=07-APR-22
** SCC=31000205
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E5 POINT 614303.037 3564202.673 0
SO SRCPARAM 40356E5 .00126 12.19 1273 20 2.632
** NMED source ID=40356EQPT12 Facility's ID=HPF SSM
** Description=HIGH PRESSURE FLARE Construction date=07-APR-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E12 POINT 614298.796 3564195.773 0
SO SRCPARAM 40356E12 .0023058 30.48 1273 20 3.604
** NMED source ID=40356EQPT13 Facility's ID=LPF SSM
** Description=LOW PRESSURE FLARE Construction date=07-APR-22
** SCC=31000205
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40356E13 POINT 614300.448 3564187.619 0
SO SRCPARAM 40356E13 .0051785 12.19 1273 20 3.604
**********END OF 40356: PLU 16 Twin Wells Ranch West Tank Battery
INFO***********************************
************************************************************
** 24.87km away. Facility ID=38575 Name=Lusitano 27 Wellpad 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.107913, -103.758301, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ******************************
** NMED source ID=38575EQPT3 Facility's ID=ENG 3
** Description=COMPRESSOR ENGINE Construction date=09-MAY-22
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38575E3 POINT 617151.552 3553072 0
SO SRCPARAM 38575E3 .00126 7.01 809.26 57.36 .3
**********END OF 38575: Lusitano 27 Wellpad 6
INFO***********************************
************************************************************
** 24.88km away. Facility ID=38394 Name=Vitalizer State No502H
** Company ID=13537 Name=Permian Resources
** SIC=1311 NAIC=21112    Permit=7796 GCP6
** lat,long,datum=32.42895, -103.467767, WGS84
** Total Sulfur Dioxide emissions=.01tons/year
*****************Facility sources: ******************************
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** NMED source ID=38394EQPT4 Facility's ID=FL-1
** Description=12.1 MSCF/d Process Flare Construction date=09-MAY-18
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38394E4 POINT 644057.106 3589016.344 0
SO SRCPARAM 38394E4 .0002898 12.19 1273 20 20.806
**********END OF 38394: Vitalizer State No502H
INFO**********************************
************************************************************
** 24.88km away. Facility ID=39820 Name=Aleutian 10 Wellpad 1
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3123, -103.759228, NAD83
** Total Sulfur Dioxide emissions=.02tons/year
*****************Facility sources: ****************************
** NMED source ID=39820EQPT1 Facility's ID=ENG 1
** Description=ENG 1 Combustion Engine Construction date=01-FEB-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39820E1 POINT 616802.506 3575728.814 0
SO SRCPARAM 39820E1 .0002898 5.85 952.59 31.94 .27
** NMED source ID=39820EQPT2 Facility's ID=ENG 2
** Description=ENG 2 Combustion Engine Construction date=19-DEC-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39820E2 POINT 616810.042 3575735.835 0
SO SRCPARAM 39820E2 .0002898 5.85 772.59 38.07 .27
**********END OF 39820: Aleutian 10 Wellpad 1
INFO**********************************
************************************************************
** 24.93km away. Facility ID=39043 Name=Frizzle Fry 15 Fed Com CTB
** Company ID=13519 Name=Marathon Oil Permian LLC
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.3982, -103.66847, NAD83
** Total Sulfur Dioxide emissions=.03tons/year
*****************Facility sources: ****************************
** NMED source ID=39043EQPT4 Facility's ID=ENG-2
** Description=Combustion Engine Construction date=03-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39043E4 POINT 625228.37 3585354.364 0
SO SRCPARAM 39043E4 .0002898 4.51 1000.37 50.23 .15
** NMED source ID=39043EQPT5 Facility's ID=ENG-3
** Description=Combustion Engine Construction date=03-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
```

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** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39043E5 POINT 625235.906 3585361.385 0
SO SRCPARAM 39043E5 .0002898 3.84 846.48 39.23 .12
** NMED source ID=39043EQPT6 Facility's ID=GEN-1
** Description=Generator-1 Construction date=03-MAR-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 39043E6 POINT 625229.12 3585364.937 0
SO SRCPARAM 39043E6 .0002898 2.99 794.26 96.56 .09
**********END OF 39043: Frizzle Fry 15 Fed Com CTB
INFO**********************************
************************************************************
** 24.96km away. Facility ID=40120 Name=Nina Cortell South TB
** Company ID=12665 Name=Matador Production Company
** SIC=1311 NAIC=21112    Permit=unknown
** lat,long,datum=32.399713, -103.66639, NAD83
** Total Sulfur Dioxide emissions=.05tons/year
*****************Facility sources: ******************************
** NMED source ID=40120EQPT1 Facility's ID=GEN-1
** Description=PSI Generator, 581hp Construction date=01-SEP-21
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=5447hr/yr, 24hr/day
SO LOCATION 40120E1 POINT 625421.914 3585524.537 0
SO SRCPARAM 40120E1 .0002898 6.1 1023.15 19.37 .3
** NMED source ID=40120EQPT40 Facility's ID=ENG-9
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E40 POINT 625429.45 3585531.558 0
SO SRCPARAM 40120E40 .0005796 6.1 804.82 50.99 .3
** NMED source ID=40120EQPT41 Facility's ID=ENG-10
** Description=Compressor Engine Construction date=13-DEC-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40120E41 POINT 625422.664 3585535.11 0
SO SRCPARAM 40120E41 .00126 6.1 701.48 77.75 .3
**********END OF 40120: Nina Cortell South TB
INFO**********************************
************************************************************
** 24.96km away. Facility ID=39770 Name=Island Booster Station
** Company ID=9960 Name=DCP Operating Company LP
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.31525, -103.758347, NAD83
** Total Sulfur Dioxide emissions=.25tons/year
*****************Facility sources: ******************************
** NMED source ID=39770EQPT5 Facility's ID=GEN-1
```

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** Description=Moser DRG250 Generator Construction date=25-NOV-20
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E5 POINT 616881.657 3576056.809 0
SO SRCPARAM 39770E5 .0002898 3.15 1023.15 102.72 .1
** NMED source ID=39770EQPT11 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=10-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E11 POINT 616889.193 3576063.83 0
SO SRCPARAM 39770E11 .00126 7.32 724.26 32 .38
** NMED source ID=39770EQPT12 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=10-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E12 POINT 616882.407 3576067.382 0
SO SRCPARAM 39770E12 .00126 7.32 724.26 32 .38
** NMED source ID=39770EQPT13 Facility's ID=ENG-6
** Description=Compressor Engine Construction date=10-MAY-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E13 POINT 616874.81 3576065.29 0
SO SRCPARAM 39770E13 .00126 7.32 724.26 32 .38
** NMED source ID=39770EQPT17 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=30-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E17 POINT 616870.569 3576058.39 0
SO SRCPARAM 39770E17 .00126 7.92 702.59 26.01 .61
** NMED source ID=39770EQPT18 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=30-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E18 POINT 616872.221 3576050.236 0
SO SRCPARAM 39770E18 .00126 7.92 702.59 26.01 .61
** NMED source ID=39770EQPT19 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=30-NOV-22
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 39770E19 POINT 616879.17 3576045.274 0
SO SRCPARAM 39770E19 .00126 7.92 702.59 26.01 .61
**********END OF 39770: Island Booster Station
INFO**********************************
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**********************************************************
** 24.99km away. Facility ID=40887 Name=Flight Compressor Station
** Company ID=14143 Name=Northwind Midstream Partners LLC
** SIC=1311 NAIC=21113    Permit=unknown
** lat,long,datum=32.425808, -103.448452, WGS84
** Total Sulfur Dioxide emissions=77.36tons/year
*****************Facility sources: ****************************
** NMED source ID=40887EQPT15 Facility's ID=ENG-1
** Description=Compressor Engine Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E15 POINT 645878.308 3588694.214 0
SO SRCPARAM 40887E15 .0251996 7.62 682.04 90.5 .46
** NMED source ID=40887EQPT16 Facility's ID=ENG-2
** Description=Compressor Engine Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E16 POINT 645885.844 3588701.235 0
SO SRCPARAM 40887E16 .0125998 7.62 714.82 103.97 .3
** NMED source ID=40887EQPT17 Facility's ID=ENG-3
** Description=Compressor Engine Construction date=05-SEP-23
** SCC=20200253
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E17 POINT 645879.058 3588704.787 0
SO SRCPARAM 40887E17 .0125998 7.62 714.82 103.97 .3
** NMED source ID=40887EQPT18 Facility's ID=ENG-4
** Description=Compressor Engine Construction date=05-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E18 POINT 645871.461 3588702.695 0
SO SRCPARAM 40887E18 .0125998 7.62 714.82 103.97 .3
** NMED source ID=40887EQPT19 Facility's ID=ENG-5
** Description=Compressor Engine Construction date=05-SEP-23
** SCC=20200254
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E19 POINT 645867.22 3588695.795 0
SO SRCPARAM 40887E19 .0125998 7.62 714.82 103.97 .3
** NMED source ID=40887EQPT22 Facility's ID=RBL-1
** Description=TEG Glycol Regen Heater Construction date=05-SEP-23
** SCC=31000228
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E22 POINT 645868.872 3588687.641 0
SO SRCPARAM 40887E22 .00126 5.18 588.71 6.83 .3
** NMED source ID=40887EQPT27 Facility's ID=FL-1 SSM SSM
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** Description=Flare Start-Up, Shutdown & Maintenance Construction date=05-SEP-23
** SCC=30600904
** Potential operating rate=0hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 40887E27 POINT 645875.821 3588682.679 0
SO SRCPARAM 40887E27 2.1500173 22.86 1273 20 2.632
**********END OF 40887: Flight Compressor Station
INFO**********************************
************************************************************
** 25km away. Facility ID=38039 Name=Lusitano 27 CTB 6
** Company ID=1516 Name=Devon Energy Production Company LP
** SIC=1311 NAIC=21112    Permit=7458 NOI
** lat,long,datum=32.106058, -103.758672, NAD83
** Total Sulfur Dioxide emissions=.06tons/year
*****************Facility sources: ****************************
** NMED source ID=38039EQPT9 Facility's ID=HT-1
** Description=Heater Treater 1 EQ000070240 Construction date=18-SEP-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38039E9 VOLUME 617118.915 3552865.959 0
SO SRCPARAM 38039E9 .0002898 9.14 .47 .93
** NMED source ID=38039EQPT10 Facility's ID=HT-2
** Description=Heater Treater 2 EQ000070245 Construction date=18-SEP-18
** SCC=31000404
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38039E10 VOLUME 617126.451 3552872.98 0
SO SRCPARAM 38039E10 .0002898 9.14 .47 .93
** NMED source ID=38039EQPT11 Facility's ID=FL-1 LP
** Description=Flare Low Pressure Side EQ000329113 Construction date=18-SEP-18
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=8784hr/yr, 24hr/day
SO LOCATION 38039E11 POINT 617119.665 3552876.532 0
SO SRCPARAM 38039E11 .0037799 12.19 1273 20 .61
** NMED source ID=38039EQPT18 Facility's ID=FL-1 HP
** Description=Flare High Pressure Side EQ000329113 Construction date=01-JUN-18
** SCC=31000160
** Potential operating rate=8760hr/yr, 0hr/day
** Actual operating rate=0hr/yr, 0hr/day
SO LOCATION 38039E18 POINT 617112.068 3552874.44 0
SO SRCPARAM 38039E18 .0002898 12.19 1273 20 .61
**********END OF 38039: Lusitano 27 CTB 6 INFO**********************************
SO SRCGROUP NAAQS 29885C5 29885E24 29885E28
SO SRCGROUP NAAQS 29885E32 29885E34 29885E37
SO SRCGROUP NAAQS 29885E38 29885E39 29885E40 29885E44
SO SRCGROUP NAAQS 29885E47 29885E49 29885E50 29885E51 29885E53
SO SRCGROUP NAAQS 29885E55 29885E56 29885E57
SO SRCGROUP NAAQS 29885E58 29885E59 29885E60 29885E63
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SO SRCGROUP NAAQS 29885E64 29885E65 29885E66
SO SRCGROUP NAAQS 29885E67 29885E71 29885E72
SO SRCGROUP NAAQS 29885E73 29885E74 29885E77
SO SRCGROUP NAAQS 29885E78 29885E85 29885E87 29885E88 29885E89 29885R7
SO SRCGROUP NAAQS 33152E63 3152E216 3152E218 39982E1 39982E2 39982E5
SO SRCGROUP NAAQS 39982E6 38504E5 39913E1 40312E1 39788E2 40140E9
SO SRCGROUP NAAQS 40140E10 39685E1 39685E3 40063@1 40875E1 38952E3
SO SRCGROUP NAAQS 38952E6 38952E11 34645E1 34645E2 34645E3 34645E4
SO SRCGROUP NAAQS 34645E5 34645E6 34645E7 34645E8 34645E19 39951E3
SO SRCGROUP NAAQS 39998E2 39998E3 39998E4 39998E12 39998E13 39998E15
SO SRCGROUP NAAQS 39998E19 38910E1 38910E2 38910E3 38910E4 38910E5
SO SRCGROUP NAAQS 38910E6 38910E7 38910E8 38910E15 38910E16 38910E19
SO SRCGROUP NAAQS 38910E20 32699E3 32699E4 32699E5 40279E1 40266E2
SO SRCGROUP NAAQS 40266E3 40266E4 40266E5 40266E6 40266E7 40266E8
SO SRCGROUP NAAQS 40266E9 40266E11 38948E15 38948E17 38948E25 38948E26
SO SRCGROUP NAAQS 38948E27 38948E29 38948E30 35483E17 35483E18 35483E21
SO SRCGROUP NAAQS 38491E1 38491E2 38491E3 38491E4 38491E5 38491E6
SO SRCGROUP NAAQS 38491E8 38491E9 38491E10 38491E11 38491E16 38491E17
SO SRCGROUP NAAQS 40277E24 40277E25 33901E6 33901E24 38310E6 38310E7
SO SRCGROUP NAAQS 39780E2 39780E6 40276E1 38279E1 38279E9 38279E10
SO SRCGROUP NAAQS 38279E11 38949E13 38949E16 38949E21 38949E24 38401E1
SO SRCGROUP NAAQS 38401E2 38401E3 38401E4 38401E5 38401E7 38401E8
SO SRCGROUP NAAQS 38401E9 38401E15 38401E16 38401E17 38401E6 40239E4
SO SRCGROUP NAAQS 40239E5 40233E3 40233E4 40296E2 40296E3 40275E2
SO SRCGROUP NAAQS 40275E3 40275E4 40275E5 40275E20 763E7 39997E2 39997E4
SO SRCGROUP NAAQS 39997E12 39997E13 39997E14 39997E15 39074E1 39074E6
SO SRCGROUP NAAQS 39857E4 40031E2 40031E6 40031E7 40031E8 40031E9
SO SRCGROUP NAAQS 40031E10 40031E11 40031E12 40031E13 40031E14 34824E3
SO SRCGROUP NAAQS 34824E11 34824E24 34824E25 35136E3 40078E3 40078E4
SO SRCGROUP NAAQS 40078E19 38567E20 38567E21 38567E30 39075E12 35517E19
SO SRCGROUP NAAQS 35517E20 35517E21 35517E22 35517E23 35517E25 35517E26
SO SRCGROUP NAAQS 39577E11 39577E12 38830E8 38830E14 38830E51 37770E9
SO SRCGROUP NAAQS 37770E10 37770E11 37770E12 37770E16 37770E18 37770E19
SO SRCGROUP NAAQS 40077E1 40077E4 40077E5 40416E2 40416E9 40416E10
SO SRCGROUP NAAQS 38546E8 38546E9 39081C1 39081E9 39081E19 38644E7
SO SRCGROUP NAAQS 40536E1 40536E2 38141E6 38141E7 38448E2 38448E16
SO SRCGROUP NAAQS 38448E17 38448E18 38448E19 38448E20 38448E21 38448E28
SO SRCGROUP NAAQS 39956E2 39956E8 39956E9 39956E11 39956E16 39956E17
SO SRCGROUP NAAQS 39956E18 39956E19 39956E20 38489E1 38489E2 38489E6
SO SRCGROUP NAAQS 38489E7 38489E11 38489E12 38489E13 38489E19 38489E20
SO SRCGROUP NAAQS 38489E21 40537E1 40537E2 5694E1 5694E2 5694E4 5694E5
SO SRCGROUP NAAQS 5694E11 40081E4 40081E5 40081E18 39360E13 39975E10
SO SRCGROUP NAAQS 38358E16 38358E20 38358E39 40752E2 40752E8 40213E2
SO SRCGROUP NAAQS 40213E3 40324E2 38349E5 38349E6 38349E7 38349E18
SO SRCGROUP NAAQS 38349E19 38349E20 38349E21 39031E14 39031E16 39031E18
SO SRCGROUP NAAQS 39420E8 39420E9 38706E3 39958E17 40214E2 40214E3
SO SRCGROUP NAAQS 38295E1 38295E2 38295E11 40380E2 40380E3 40380E4
SO SRCGROUP NAAQS 40380E5 40380E6 40380E7 40380E9 39005E6 39005E7
SO SRCGROUP NAAQS 39005E8 39005E17 39005E18 39005E19 39005E20 38561E3
SO SRCGROUP NAAQS 40080E1 40080E4 40080E5 38110E4 38110E15 38330E3
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SO SRCGROUP NAAQS 38785E3 38093E8 38093E10 38093E12 38093E14 40883E2
SO SRCGROUP NAAQS 40883E8 36132E1 36132E7 36132E8 36132E10 36132E11
SO SRCGROUP NAAQS 36132E12 36132E13 36132E27 36132E31 36132E33 36132E34
SO SRCGROUP NAAQS 36132E32 36132E9 39148E1 39148E2 39148E3 39148E4
SO SRCGROUP NAAQS 39148E5 39148E6 39148E7 39148E8 39148E13 39148E14
SO SRCGROUP NAAQS 39148E15 39148E16 36279E1
SO SRCGROUP NAAQS 36279E2 36279E3 36279E9 40158E1 40158E2 40158E4
SO SRCGROUP NAAQS 40158E5 40158E6 40158E7 40158E8 40158E9 40158E10
SO SRCGROUP NAAQS 40158E11 40158E13 40158E18 40158E19 39944E2 39944E3
SO SRCGROUP NAAQS 39977E1 39977E3 39977E17 39977E18 40159E13 40159E14
SO SRCGROUP NAAQS 40159E15 39179E1 39179E2 39179E10 39179E15 39179E16
SO SRCGROUP NAAQS 39179E17 39179E18 39179E19 39179E20 34027E4 34027E5
SO SRCGROUP NAAQS 34027E6 34027E7 34027E8 34027E9 34027E10 34027E16
SO SRCGROUP NAAQS 34027E23 34027E24 34027E25 34027E26 36420E6 36420E7
SO SRCGROUP NAAQS 33556E6 38810E13 38810E31 38810E32 38958E9 33454E11
SO SRCGROUP NAAQS 32175E1 32175E2 38366E17 38366E19 40211E20 40211E21
SO SRCGROUP NAAQS 40211E28 40199E1 40199E8 40199E9 31804E2 33674E6
SO SRCGROUP NAAQS 33674E7 33674E8 40800E1 40800E2 40800E3 39309E13
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SO SRCGROUP PSD 38508E1 38508E2 38508E3 38508E4 38508E7 38508E9 40838E2
SO SRCGROUP PSD 32209E21 39823E1 39823E2 39823E6 39823E10 39823E11
SO SRCGROUP PSD 39823E12 39823E13 39823E14 39823E15 39823E22 39663E8
SO SRCGROUP PSD 39663E12 39663E13 39663E59 39663E62 39663E63 39663E66
SO SRCGROUP PSD 39663E67 39663E73 38846E1 38846E17 39634E9 39634E11
SO SRCGROUP PSD 39692E18 31539E8 31539E10 34038E13 34038E14 40839E3
SO SRCGROUP PSD 38848C1 38848E3 38848E15 38848E16 38848E20 40735E1
SO SRCGROUP PSD 40735E2 40735E3 40735E4 40735E5 40735E6 40735E8 40735E14
SO SRCGROUP PSD 39393E1 39393E5 39393E6 39393E27 39393E30 39393E35
SO SRCGROUP PSD 27650@1 41074E5 40356E1 40356E3 40356E4 40356E5 40356E12
SO SRCGROUP PSD 40356E13 38575E3 38394E4 39820E1 39820E2 39043E4 39043E5
SO SRCGROUP PSD 39043E6 40120E1 40120E40 40120E41 39770E5 39770E11
SO SRCGROUP PSD 39770E12 39770E13 39770E17 39770E18 39770E19 40887E15
SO SRCGROUP PSD 40887E16 40887E17 40887E18 40887E19 40887E22 40887E27
SO SRCGROUP PSD 38039E9 38039E10 38039E11 38039E18
SO FINISHED
** Receptor near center of domain added to aid import into GUI programs.
RE STARTING
RE ELEVUNIT METERS
RE DISCCART 639114, 3565730 3000 3000
RE Finished

** Meteorolgy options. May not be the actual met file used for this model.
ME STARTING
ME SURFFILE 'C:\MET\AERMET\HOBBS_Artesia-NWS_Midland-ua_2015.SFC' FREE
ME PROFFILE 'C:\MET\AERMET\HOBBS_Artesia-NWS_Midland-ua_2015.PFL'
ME SURFDATA  722676 2015
ME UAIRDATA  23023 2015 'MIDLAND INTERNATIONAL AP, TX'
ME PROFBASE 1110 METERS
ME FINISHED

OU STARTING
OU PLOTFILE 1, 3, 24, PERIOD NAAQS 'C:\Models\DELETEME_2015_SO2.GRF' 31
OU PLOTFILE 1, 3, 24, PERIOD PSD 'C:\Models\DELETEME_2015_SO2.GRF' 31
OU SUMMFILE 'C:\Models\DELETEME_2015_SO2.SUM'
OU Finished
```

# APPENDIX F. SURROUNDING SOURCE CALCULATION

Leo Thorsness Facility
ID=38504

| | | | | |
|---|---|---|---|---|
| ID=HR-1 | 38504A1 | 0.0138598 | rate=8760hr/yr, | |
| ID=ENG-5 | 38504E3 | 0.00126 | rate=8760hr/yr, | |
| ID=GEN-1 | 38504E5 | 0.0050399 | rate=1067hr/yr, | 3hr/day |
| ID=HT-1 | 38504E6 | 0.0005796 | rate=8760hr/yr, | |
| ID=HT-2 | 38504E7 | 0.0005796 | rate=6192hr/yr, | 17hr/day |
| ID=ENG-2 | 38504E26 | 0.00252 | rate=0hr/yr, | |
| ID=ENG-6 | 38504E27 | 0.00252 | rate=3888hr/yr, | 11hr/day |

Broadside 12 Facility 2
ID=40140
NOI Permit=9357

| | | | |
|---|---|---|---|
| ID=ROAD-1 | 40140A1 | 0.0277196 | rate=8760hr/yr, |

Broadside Wellpad 2
ID=40312
NOI Permit=9510

| | | | |
|---|---|---|---|
| ID=ENG-1 | 40312E1 | 0.0088199 | rate=0hr/yr, |

Broadside 12 Facility 1
ID=39913
NOI Permit=9134

| | | | |
|---|---|---|---|
| ID=ROAD-1 | 39913A1 | 0.0277196 | rate=8064hr/yr, |
| ID=ENG | 39913E2 | 0.0037799 | rate=8064hr/yr, |
| ID=HT-1 | 39913E4 | 0.0005796 | rate=8064hr/yr, |

Roswell Ready Mix Concrete Batch Plant
ID=40063

| | | | |
|---|---|---|---|
| ID=40063ACT | 40063@1 | 2.7328336 | g/s |
| | | 0.19572997 | g/s |
| | | 1.55343862 | |

| Facility Name | AQB Source ID | $PM_{10}$ (lb/hr) | $PM_{2.5}$ (lb/hr) | $PM_{30}$:$PM_{10}$ Ratio[1,2] | $PM_{30}$:$PM_{2.5}$ Ratio[1,2] | $PM_{10}$ (lb/hr)[3] | $PM_{2.5}$ (lb/hr)[3] |
|---|---|---|---|---|---|---|---|
| Roswell Ready Mix Concrete Batch Plant | 40063@1 | 21.69 | 21.69 | 2.11 | 13.96 | 10.28 | 1.55 |

[1] Assumes TSP = $PM_{30}$

[2] Ratio based on particle size multipler from AP-42 Chapter 13.2.4.

[3] Modified Emission Rates (lb/hr) = Original Emission Rates (lb/hr) / Ratio ($PM_{30}$:$PM_{10}$ / $PM_{30}$:$PM_{2.5}$)

| Facility Name | Unit ID | Model ID | SS File Emission Rate | Annual Emission Rate from Permit / Application | Hours Per Day | Hours Per Year | Short Term Emission Rate | Long Term Emission Rate |
|---|---|---|---|---|---|---|---|---|
| | | | g/s | tpy | hrs | hrs | g/s | g/s |
| Leo Thorsness Facility | ID=HR-1 | 38504A1 | 0.0138598 | *0.08* | 24 | 8760 | 0.0138598 | 0.002301331 |
| Leo Thorsness Facility | ID=ENG-5 | 38504E3 | 0.00126 | - | 24 | 8760 | 0.00126 | 0.00126 |
| Leo Thorsness Facility | ID=GEN-1 | 38504E5 | 0.0050399 | - | 3 | 1067 | 0.000629988 | 0.000613878 |
| Leo Thorsness Facility | ID=HT-1 | 38504E6 | 0.0005796 | - | 24 | 8760 | 0.0005796 | 0.0005796 |
| Leo Thorsness Facility | ID=HT-2 | 38504E7 | 0.0005796 | - | 17 | 6192 | 0.00041055 | 0.00040969 |
| Leo Thorsness Facility | ID=ENG-2 | 38504E26 | 0.00252 | - | 24 | 8760 | 0.00252 | 0.00252 |
| Leo Thorsness Facility | ID=ENG-6 | 38504E27 | 0.00252 | - | 11 | 3888 | 0.001155 | 0.001118466 |
| Broadside 12 Facility 2 | ID=ROAD-1 | 40140A1 | 0.0277196 | *0.038* | 24 | 8760 | 0.0277196 | 0.001093132 |
| Broadside 12 Facility 1 | ID=ROAD-1 | 39913A1 | 0.0277196 | *0.038* | 24 | 8760 | 0.0277196 | 0.001093132 |
| Broadside 12 Facility 1 | ID=ENG | 39913E2 | 0.0037799 | - | - | - | 0.0037799 | 0.0037799 |
| Broadside 12 Facility 1 | ID=HT-1 | 39913E4 | 0.0005796 | - | - | - | 0.0005796 | 0.0005796 |

# APPENDIX G. GCP-5 PERMIT

**CONSTRUCTION PERMIT NO: GCP-5**

| *Registration No.*<br>*(For NMED use only* |
|---|

**GENERAL PERMIT CATEGORY: Concrete Batch Plants**

**ISSUED BY: New Mexico Environment Department**

Date of Issuance 9/12/06

JIM NORTON, Director
Environmental Protection Division

Air Quality Permit No. GCP-5 for Concrete Batch Plants (Permit) is issued by the Air Quality Bureau (AQB) of the New Mexico Environment Department (Department) under Title 20 Chapter 2 Part 72 of the New Mexico Administrative Code. [20.2.72 NMAC – *Construction Permits*, Section 220 – *General Permits*] The Department issues general permits in order to register groups of sources that have similar operations, processes, and emissions and that are subject to the same or substantially similar requirements. [20.2.72.220.A(1) NMAC] General permits provide an additional permitting option for specific types of sources that can meet the predetermined permit requirements. [20.2.72.220.C(1) NMAC]

This Permit authorizes the owner or operator to construct, modify, and operate a Concrete Batch plant (Facility) in New Mexico (excluding Bernalillo County and Tribal lands) under the conditions set forth herein as long as all conditions of this Permit are continually met.

An owner or operator who registers for and receives approval to construct under this Permit, will have satisfied the State of New Mexico's requirement for obtaining an air quality permit prior to constructing, modifying, or operating a source of air pollutants. However, other federal, state, or local agencies may have additional requirements such as zoning restrictions.

All terms written with initial capital letters are defined in Section VII – *Acronyms and Definitions*, of this Permit. Regulatory authority, if applicable, is cited in brackets. Please refer to the guidance document for this Permit for details, descriptions, and registration instructions. Questions regarding eligibility for this Permit can be directed to the Air Quality Bureau of the Environment Department at (505) 827-1494, or visit the New Mexico Environment Department's Web Site at http://www.nmenv.state.nm.us/AQB.

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## SECTION I. APPLICABILITY

### I.A. FACILITIES ALLOWED TO REGISTER UNDER THIS GENERAL CONSTRUCTION PERMIT.

The owner or operator may apply for registration of a Concrete Batch plant under this Permit if:

1. The Facility's purpose is to produce Concrete or Concrete products [SIC 3271, 3272 (with Department approval), or 3273];
2. The Facility can comply with all of the requirements of this Permit;
3. The Facility includes any combination of the following Emissions Units used in the production of concrete (and no others) within the Property Boundary:
   a. Permanent or temporary Facility that will have an actual production rate less than or equal to 2400 yards per day (YPD),
   b. Any combination of stockpiles or haul roads,
   c. Conveyers (belt, pneumatic, screw, etc.),
   d. Silos, bins, and hoppers,
   e. Mixers,
   f. Truck loading stations,
   g. Associated emission control systems (air pollution control devices),
   h. Natural gas, diesel, or propane fired heaters with a heat input rate of less than 25 MMBtu per hour that are used to heat water for the concrete mix,
   i. Internal combustion engines, including generators when grid power is not available,
   j. Systems for screening, handling, storing, and weighing aggregate,
   k. Systems for loading, transferring, and storing mineral filler,
   l. Sources exempt under 20.2.72.202 NMAC,
   m. Equipment for storing, measuring and dispensing cement dye, retardants, accelerants or other chemical admixtures,
   n. Truck washing stations,
   o. Wheel washing stations, or
   p. Other equipment typically found at concrete batch plants.

### I.B. EXCLUDED SOURCES

The following facilities cannot register for this Permit:

1. A Facility that does not meet the requirements in Subsection III.C - *Siting Restrictions*;
2. A facility subject to any federal New Source Performance Standard (NSPS) other than 40 CFR § 60 Subparts A and Kb;
3. A facility subject to a National Emissions Standard for Hazardous Air Pollutants (NESHAP) or Maximum Achievable Control Technology (MACT);
4. A Facility that operates in conjunction with another facility on the same property, except as allowed in Subsection III.E – *Co-Locations*;

5. A Facility subject to 20.2.72 NMAC, Sections 400 through 499 – *Permitting for Toxic Air Pollutants;*
6. A facility that processes slag, asbestos tailings or asbestos-containing waste materials; or
7. A facility that encapsulates and/or disposes of radionuclides or hazardous solid waste.

### I.C. PERMITTING ALTERNATIVES

1. The owner or operator of a Facility subject to 20.2.72 NMAC who does not choose to register or whose Facility fails to qualify for this Permit shall apply for a Construction Permit pursuant to 20.2.72 NMAC – *Construction Permits* and must receive such permit prior to construction.

### I.D. FACILITIES WITH BOTH A CONSTRUCTION PERMIT (PART 72) AND A GENERAL CONSTRUCTION PERMIT

1. A Facility that has a Construction Permit under 20.2.72 NMAC may also register for a GCP-5. Subparagraphs II.C.2.b and IV.C.1.i of this Permit contain specific requirements for Facilities that have both a GCP-5 and a Construction Permit.

### I.E. LARGE AND SMALL FACILITIES

1. Table I.E.1 shall govern the applicability of requirements in this GCP to Permitted Facilities based on daily production, which correlates directly with potential emissions. The permittee shall operate the Facility in accordance with one of the operating scenarios in the table. The Facility's initial operating size, when the GCP is granted by the Department, shall be based on information provided by the applicant on the registration form. [see II.C.5.a]

**TABLE I.E.1 REQUIREMENT APPLICABILITY**

| * Facility Size (YPD) | Requirements |
|---|---|
| Greater than 360 yards of concrete per calendar day. | Plants in this category are subject to all requirements in this GCP. |
| Less than or equal to 360 yards of concrete per calendar day. | Plants in this category are subject to all requirements in this GCP except: III.F.2.e, III.F.10.b, IV.A.1.b, IV.A.2, and IV.B.3.j |

* Some extremely small Facilities may emit less than 10 pounds per hour and less than 25 TPY of any single pollutant, and can therefore operate under a NOI instead of a GCP. Any Facility capable of loading more than13.9 TPH of cement or more than 2.9 TPH of fly-ash will exceed the 10 pound per hour limit. An applicant who thinks that his Facility may qualify for a NOI shall submit an NOI application to the Department.

## SECTION II. REGISTRATION PROCESS

### II.A. GENERAL

1. The applicant shall complete the current GCP-5 registration form provided by the Department, submit it to the Department, and provide a copy to the nearest Department Field

Office. [20.2.72.220.A(2)(b) NMAC] Field office locations are found on the Department's Website at http://www.nmenv.state.nm.us/NMED/field_op.html. Within thirty (30) days of receiving an application to register under this Permit, the Department shall review the application and shall grant or deny the registration. The owner or operator of a Facility approved for registration will receive a package containing a copy of the registration form, a copy of this GCP, and the approval letter.

2. Construction, operation or relocation of a Facility shall not begin until the owner or operator has received written authorization from the Department. The Department shall notify the owner or operator of approval or denial by certified mail. [20.2.72.200.E NMAC and 20.2.72.220.C(6)(a) NMAC]

### II.B. PUBLIC NOTIFICATION

1. The applicant shall provide public notice, including newspaper advertisement and posting at the Facility site, 15 days prior to submitting the registration form to the Department, in accordance with 20.2.72.220.C(2) NMAC. (See *GCP-5 Instructions and Guidance* for a public notice template.)

### II.C. REGISTRATION FORM

GCP-5 permit application forms, available from District offices and the Department's website, (http://www.nmenv.state.nm.us/aqb/index.html) shall be completed with the following information and attachments, and submitted to the address on the registration form.

1. General Information
   a. The Facility's site name and the contact person's name, address, phone number, e-mail address and fax number;
   b. The name of the company and the person(s) that own(s) and operate(s) the Facility;
   c. The date the application was notarized; and
   d. The primary four (4) digit Standard Industrial Classification (SIC) code. For concrete Facilities the SIC code will be one of the following:

      3271 Concrete Block and Brick,

      3272 Concrete Products, Except Block and Brick,

      3273 Ready-Mixed Concrete.

2. Initial Facility Status
   a. Whether the Facility is currently constructed and is operating in New Mexico;
   b. Whether the Facility currently has a Construction Permit(s), if so, the current permit number(s), and whether the existing permit(s) will remain active or not;
   c. Whether the application was submitted in response to a Notice of Violation; if so the NOV file number;
   d. Whether the Facility is an excluded source as described in Subsection I.B. – *Excluded Sources* of this Permit; and
   e. The type of material processed by the Facility.
3. Initial Facility Location
   a. The Section, Range, Township, county, and elevation;

b. The Universal Transverse Mercator (UTM) Easting and Northing coordinates (specify NAD-27 or NAD-83), zone, and latitude and longitude coordinates at the center of the Facility's Area of Operations;

c. The name and zip code of the nearest New Mexico town or tribal community;

d. The direction and distance from the Facility to the nearest town or tribal community;

e. The direction and distance from the perimeter of the Area of Operations to the nearest occupied structure;

f. Detailed written driving instructions to the Facility from the nearest town or tribal community;

g. The status of the land (e.g., Private, State, Federal, Tribal); and

h. The name, location, distance and direction from the Facility to any Class I Areas within three (3) miles of the perimeter of the Area of Operations.

4. Initial Operating Schedule

   a. The anticipated month and year that construction will start at this site; and

   b. The anticipated month and year that operation will start at this site.

5. Initial Facility Information

   a. The Facility's maximum proposed production rate, YPD and YPY;

   b. The area (in acres) to which public access is restricted;

   c. The area (in acres) of disturbed earth;

   d. The area (in acres) covered by storage piles and operations;

   e. The haul road length(s) and dust control measures;

   f. The equipment list, excluding engine driven vehicles, with the manufacturer and model number, (if the manufacturer and model number is not available - please indicate), equipment size or capacity, and the function or purpose of each piece of equipment;

   g. The manufacturer's maximum design capacity for each piece of equipment; and

   h. The manufacturer's recommended pressure drop across the Filter(s). If the manufacturer's recommendations are unavailable or are no longer relevant, include a statement that the Facility will use the results of a successful compliance test to establish normal operating range for the Filter(s).

6. Other Required Information and Attachments

   a. A process flow sheet and/or block diagram indicating individual equipment, emission points, unit numbers, and types of controls applied to those points;

   b. A plot plan drawn to scale, showing emission points denoted by unit number, Area of Operations, structures, tanks, fences, Restricted Area, and the Property Boundary of the property owned, leased or under direct control of the owner or operator;

   c. An appropriate legible map, such as a 7.5 minute United States Geological Survey (USGS) Topographic Quadrangle map, that shows the proposed location of the Facility;

   d. Documentation showing that the applicant has given the public notice described in Subsection II.B – *Public Notification*;

   e. A description of the methods by which public access to the Restricted Area is limited;

f. A preliminary operational plan defining the measures to be taken to mitigate source emissions during:

(1) Facility malfunctions, startup, shutdown, or scheduled maintenance as defined in 20.2.7 NMAC, and

(2) Weather conditions that would cause exceedence of the visible emission requirement in paragraph III.A.6. Reasonable measures to be employed include, but are not limited to, application of additional water to storage piles and haul roads.

g. The contact name, address, and date that a copy of the application was sent or delivered to a field office;

h. Certification by the Facility's owner, operator, or authorized representative before a notary public that all of the information included in the registration form is true and complete to the best of the signing individual's knowledge [20.2.72.203 A(12) NMAC]; and

i. A check or money order for the fees required by 20.2.75 NMAC. [payable to: NM Environment Department, AQB.]

## II.D. FEES

1. Permit and annual fees shall be determined pursuant to 20.2.75 NMAC – *Construction Permit Fees.*

2. A Facility that meets the definition of a Small Business [20.2.75.7.F NMAC] shall pay discounted fees [20.2.75.11.C NMAC]. A Facility that has total onsite engine capacity less than or equal to 180 hp (excluding mobile sources) and produces less than or equal to 130,000 YPY shall be considered to emit less than 50 TPY of any regulated air contaminant, and 75 TPY of all regulated air contaminants.

3. In the first year after the Department approves registration under this permit, the Facility's emissions shall be based on the proposed maximum production rate on the registration (subparagraph II.C.5.a). Each year thereafter, the Facility's emissions shall be determined by the annual production during the previous year. If the Facility's Small Business status changes, the next annual fee will change to reflect the new status. Regardless of Small Business status, the Facility may continue to operate under this GCP permit.

## II.E. MODELING

1. The Department has completed general air dispersion modeling for affected Facilities and has used the results to develop the requirements in this Permit. Therefore, air dispersion modeling is not required from the Applicant.

## II.F. REASONS THE DEPARTMENT MAY DENY A REGISTRATION

The Department may deny registration under this Permit if:

1. The registration form is not complete;

2. The Facility is not a source qualified to register for this General Permit;

3. The facility cannot continuously meet the terms and conditions of the Permit [20.2.72.220.C(3) NMAC]; or

4. Any criteria listed in 20.2.72.208 NMAC are applicable.

## SECTION III. FACILITY OPERATING REQUIREMENTS

### III.A. GENERAL TERMS AND CONDITIONS

1. The owner or operator shall operate the Facility using only the equipment described in the registration form or other equipment that has been reported to the department in accordance with Subsection IV.C – *Department Notification*, paragraphs 1.d and 1.e.
2. The owner or operator shall install, operate, and maintain the equipment in accordance with manufacturer's specifications and recommendations unless otherwise specified by a condition of this GCP.
3. The Facility shall use only gasoline, pipeline quality natural gas, liquefied petroleum gas (LPG)/propane, and/or #2 diesel fuel with a sulfur content equal to or less than 0.05 % by weight to fuel engines and heaters.
4. Facility production shall not exceed 2400 cubic yards of concrete per day.
5. A copy of the registration forms, this GCP, and the Department's approval letter, shall be maintained onsite and shall be made available to any representative of the Department upon request.
6. No visible emissions from the permitted Facility shall be observed crossing the perimeter of the Restricted Area for more than a total of five (5) minutes in any two (2) consecutive hours during Facility operation. Compliance with this condition shall be determined by fugitive emission test(s) conducted in accordance with 40 CFR § 60.11 and Reference Method 22 in 40 CFR § 60, Appendix A. During atmospheric conditions under which emissions cannot be controlled to meet the "no visible emission" requirement, the Facility shall either:
   a. cease operations, or
   b. execute the applicable measures set out in Subsection II.C. – *Registration Form*, paragraph 6.f, and perform the notification required in Subsection IV.C – *Department Notification*, paragraph 2.

### III.B. APPLICABLE REGULATIONS

1. The owner or operator registered under this Permit shall comply with any applicable portion of Title 20 of the New Mexico Administrative Code, Chapter 2, Air Quality. [20.2 NMAC]
2. The Department considers a Facility registered and operating under this Permit to be in compliance with the following state regulations as those regulations existed on the date of issuance of this Permit:
   a) 20.2.3 NMAC – *Ambient Air Quality Standards*
   b) 20.2.7 NMAC – *Excess Emissions During Malfunctions, Startup, Shutdown, or Scheduled Maintenance*
   c) 20.2.61 NMAC – *Smoke and Visible Air Emissions*
   d) 20.2.72 NMAC – *Construction Permits*
   e) 20.2.73 NMAC – *Notice of Intent and Emission Inventory Requirements*

f) 20.2.75 NMAC – *Construction Permit Fees*

3. The Department considers a Facility registered under and operating in compliance under this Permit to be in compliance with the federal Clean Air Act (CAA). [42 U.S.C. s/s 7401 et seq. (1970)]
4. The owner or operator shall be responsible for compliance with the current versions of any applicable state and federal regulations.

## III.C. Siting Restrictions

1. The Facility shall meet the following siting restrictions:

**Table III.C.1 Siting Restrictions**

| | Distance 'a' in this table shall be verified when the permitted Facility commences operation. Distance 'b' is continuously applicable during the permit period. | **Distance** |
|---|---|---|
| a. | Minimum distance from the perimeter of the Area of Operations to any Class I Area perimeter. | 4.82 km (3 miles) |
| b. | Minimum distance between any emission source of the permitted Facility and the perimeter of the Restricted Area, except where the haul road crosses the Restricted Area perimeter. | 13 meters (14 yards) |

## III.D. Relocation

1. The owner or operator shall notify the Department of any relocations in accordance with requirements in Subsection IV.C – *Department Notification*, subparagraphs 1.h and 1.i.
2. When operations cease at the site of a permitted Facility, prior to leaving the site, owners or operators should employ reasonable measures to reduce or avoid wind-blown particulate matter.

## III.E. Co-locations

1. A Facility registered under this permit may co-locate with a Hot Mix Asphalt and/or an Aggregate Processing Facility within the Property Boundary if:
   a. Such other source is permitted under 20.2.72 NMAC – *Construction Permits* or under a GCP;
   b. Each facility meets all requirements of its own permit; and
   c. No visible emissions from any co-located facility shall cross the perimeter of the Restricted Area per the requirement in paragraph III.A.6.
2. The daily production for co-located facilities shall not exceed the limits prescribed in Table III.E.1.

**Table III.E.1 Production Limitations**

| Facility/Source Type | Production |
|---|---|
| Aggregate Processing Facility | 7800 TPD |
| Hot Mix Asphalt Plant | 7800 TPD |
| Concrete Batch Plant | 2400 YPD |

3. For any co-located facilities, the minimum distance at the time of co-location from the perimeter of the Area of Operations to any existing state park, recreation area, schoolyard, private residence, office building, or other occupied structure shall be greater than ¼ mile.

## III.F. Emissions Restrictions and Conditions

1. Haul Roads and aggregate stockpiles shall be considered emission sources. Each stockpile shall be contained within a three walled bunker.
2. The Facility's truck-loading point shall control PM emissions by implementing the following controls and operational procedures to comply with paragraph III.A.6. All such control devices shall be maintained in working order. The Facility shall:
   a. Use only washed sand;
   b. Keep sand and aggregate piles controlled during hours of operation;
   c. Put at least 15% of the mix water into the trucks before adding dry batch ingredients;
   d. For truck mix Facilities, inject cementaceous materials through the central portion of a concentric boot surrounded by an aggregate curtain; and
   e. For truck mix Facilities, install and operate a commercially designed and manufactured negative-pressure canopy over the truck loading point. The canopy shall be designed-for and sized-to the permitted Facility and shall be operated such that it effectively controls truck-loading emissions during normal operations.
3. All displaced air from silos shall pass through a Filter before being vented to the atmosphere.
4. The design efficiency of Filters shall be no less than:

**Table III.F.1 Minimum Filter Efficiency**

| Filter Type | Filter Efficiency |
|---|---|
| Sock (allowed on silo(s) only) | 95.0% |
| Cartridge | 99.9% |
| Bag House/Fabric | 99.9% |

5. Filter fines shall be recycled via a closed loop system into a controlled silo.
6. The Facility's silo(s) and Filter(s) shall not exhibit visible emissions for more than a total of five (5) minutes in any consecutive two (2) hour period. [40 CFR § 60.92] Compliance with this condition shall be determined in accordance with procedures in Reference Method 22 in 40 CFR § 60, Appendix A.
7. No visible emissions from the Facility shall cross the perimeter of the Restricted Area per paragraph III.A.6.
8. Silos shall be equipped with audible and visual alarms, which activate prior to the silo being 95 percent full.

9. Haul roads shall, at a minimum, use basecourse and watering to control fugitive emissions.
10. If, at any time, the minimum distance from the perimeter of the Area of Operations to any state park, recreation area, schoolyard, private residence, office building, or other occupied structure is or becomes less than ¼ mile, haul road fugitive emissions shall be controlled by:
    a. surfactant, or by paving and sweeping traffic areas (within 25 meters of the area of operations perimeter), and
    b. use of wheel washing equipment at truck exit(s).
11. Haul roads greater than one (1) mile in length are not allowed by this GCP.
12. Central Mix Facilities shall install, operate and maintain the mixer and associated control equipment as per the manufacturer's specifications.
13. Prior to producing 1920 cubic YPD of concrete, the permittee shall install and maintain a cartridge filter or a baghouse on all silos.

### III.G. Other Emissions Limitations

1. The annual emissions from the permitted Facility, including fugitive sources of emissions, shall not exceed the emissions limitations in Table III.G.1 – *Total Annual Emission Limitations.* [20.2.70 NMAC]

**Table III.G.1 Total Annual Emission Limitations**

| Pollutant | Emissions Limitation |
|---|---|
| Nitrogen Oxides ($NO_x$) | 95 tons per year |
| Carbon Monoxide (CO) | 95 tons per year |
| Volatile Organic Compounds (VOCs) | 95 tons per year |
| Total Suspended Particulate (TSP) | 95 tons per year |
| Sulfur Dioxide ($SO_2$) | 50 tons per year |
| Any one (1) Hazardous Air Pollutant (HAP) | 8 tons per year |
| Sum of all Hazardous Air Pollutants (HAPs) | 23 tons per year |

For co-located plants, if the plant and the co-located source 1) belong to the same "major group" (i.e., which have the same first two digit code) as described in the Standard Industrial Classification Manual, 1972, as amended by the 1977 Supplement; 2) are under the control of the same person (or persons under common control); and 3) are located on one or more contiguous or adjacent properties, then the total emissions from the co-located plant and source shall not exceed the emissions limitations in this table. [40 CFR 52.21(b)(6)] These limits ensure that the plant will not be a major source under 20.2.70 NMAC.

### III.H. Requirements for Stationary Combustion Equipment

1. This subsection does not apply to tailpipe emissions from engines used to propel vehicles on the property.
2. All combustion source emissions shall be vented vertically.
3. Emissions from stationary internal combustion engines and heaters shall not exhibit greater than 20% opacity. Compliance with this requirement shall be determined by opacity test

observations conducted in accordance with 20.2.61 NMAC and Reference Method 9 in 40 CFR § 60 Appendix A.

## SECTION IV. MONITORING, RECORDKEEPING AND NOTIFICATION REQUIREMENTS

### IV.A. MONITORING

1. The registered Facility shall monitor and record the loading activity status of silos and trucks and the pressure (inches of water) across the Filter(s) using a differential pressure gauge:
   a. Each time a silo is being filled;
   b. Each time a concrete truck is being filled;
2. The pressure and loading activity status shall be recorded by a CEMS or data-logger.
3. The records shall confirm that the Filter(s) are being employed per subparagraph III.F.2.e and paragraph III.F.3. The pressure data shall confirm whether the Filter(s) are operating within manufacturer's specifications, or, if manufacturers specifications are not available, within the operating parameters established by Method 22 during initial compliance tests. [Subsection IV.D – *Compliance Testing*, paragraph 9]

### IV.B. RECORDKEEPING

1. Compliance with recordkeeping requirements for this Permit shall be based on Department inspections of records and logs.
2. The owner or operator shall retain records for at least two (2) years after collection either on-site or at a local business office. [20.2.72.220.A(2) NMAC] The owner or operator shall make all records required by this permit available to Department personnel upon request.
3. The owner or operator shall collect and retain the following records:
   a. Actual hours of operation (e.g., beginning and end of operation) for each day of the operation;
   b. Monitoring required under Subsection IV.A- *Monitoring*;
   c. Weekly total production and the monthly rolling 12 month total production;
   d. Number of haul truck trips per day including materials delivery and product;
   e. Fuel delivery manifest that includes the, type of fuel, and number of gallons purchased;
   f. The quantity and frequency of water or surfactant application to haul roads;
   g. The frequency of haul road sweeping (if paved);
   h. Other haul road control measures (if used);
   i. Copies of the manufacturer's (or applicant's proposed) maintenance and operating requirements and records demonstrating conformance with said requirements; and
   j. Copies of documentation that substantiates compliance with the requirement in subparagraph III.F.2.e.

### IV.C. DEPARTMENT NOTIFICATION

1. The owner or operator shall notify the Air Quality Bureau in writing:

a. Within thirty (30) days after the actual date that operations ceased;

b. Within fifteen (15) days if the Facility is permitted as a small business and it no longer qualifies as such, either because its rolling 12 month total production exceeds the quantity in paragraph II.D.2, or because it fails to meet any other criteria defined in 20.2.75.7.F NMAC. This notification shall contain the permit number and "Change of Small Business Status" in the subject line.

c. Prior to making changes to the Facility that affect any information on the registration form [20.2.72.220.D NMAC] except as noted in subparagraphs e through i of this paragraph;

d. Prior to but no earlier than fifteen (15) days before any changes in equipment, using the GCP-5 *Substitution and Equipment Exchange* form or the *Reporting Additional Equipment* form. (Forms are available from the Department's Web Site);

e. Within fifteen (15) days after a change of the Facility ownership;

f. Within fifteen (15) days after a change of the contact person's name, address, phone number, e-mail address and/or fax number;

g. Within fifteen (15) days after the actual date of initial startup of the Facility;

h. Within fifteen (15) days prior to any relocation of the Facility in accordance with the Department's *Relocation Application* form. Relocated Facilities shall continue to meet all requirements of this Permit. Relocation shall not occur until the owner or operator has received written authorization from the Department [20.2.72.220.C.6(a) NMAC].

i. On the *Relocation Application* whether the Facility will continue to operate under GCP-5 or under a regular Construction Permit, and specify the applicable permit or registration number.

2. The owner or operator of a Facility that:

   a. produces excess emissions due to air pollution control equipment malfunctions (e.g. damaged/torn bags), or

   b. violates the visible emission requirement in paragraph III.A.6

   shall notify the Department within twenty-four (24) hours by telephone or fax. The owner or operator shall submit written notification to the Department within ten (10) days after the start of the next business day. All such notifications and actions shall be in accordance with the procedures in 20.2.7 NMAC – *Excess Emissions During Malfunction, Startup, Shutdown, or Scheduled Maintenance*. If the visible emission requirement in paragraph III.A.6 was exceeded due to weather conditions, the owner/operator shall document the weather parameters at the time and the measures taken to reduce or mitigate the emissions.

## IV.D. COMPLIANCE TESTING

1. The owner or operator shall perform initial compliance tests on each heater greater than 5 MMBtu and each combustion engine that has a site rating equal to or greater than 180 hp. The tests shall be conducted in accordance with EPA Reference Methods 1 through 4, Method 7E for NOx, Method 9 for opacity, and Method 10 for CO, contained in 40 CFR § 60, Appendix A; and with the requirements of Subpart A, *General Provisions*, 40CFR § 60.8(f). For NOx and CO, portable analyzer tests will be considered equivalent if Department guidelines (available from the Compliance section of AQB's website) are

followed; however, the Department reserves the right to request Method testing in specific cases. Alternative test methods may be used if approved by the Department. The results of the NOx tests shall be expressed as nitrogen dioxide ($NO_2$) using a molecular weight of 46 lb/lb mole in all calculations (each ppm of $NO/NO_2$ is equivalent to $1.194 \times 10^{-7}$ lb/SCF).

2. Additional compliance tests shall be conducted if it is deemed necessary by the Department to demonstrate that the Facility is in compliance with all the applicable regulations or permit conditions. Compliance test requirements from previous permits (if any) are still in effect, unless the tests have been satisfactorily completed.
3. If any equipment, required by this subsection to undergo initial compliance test(s), is added, changed out, or replaced at the permitted Facility, the owner or operator shall perform a compliance test on the new unit within 60 days of notification (IV.C.1.d), consistent with the requirements of this subsection, unless waived by the Department in writing.
4. The owner or operator shall conduct these tests within sixty (60) days of initial startup of the Facility.
5. The owner or operator shall allow a representative of the Department to be present at the test.
6. The owner or operator shall observe the following pre-testing and testing procedures:
   a. The owner or operator of the Facility shall provide, for the Department Enforcement Program Manager's approval, a written test protocol at least thirty (30) days prior to the anticipated pre-test meeting date.
      (1) The protocol shall describe the test methods or standard operating procedures to be used (including sampling locations), and shall describe data reduction procedures.
      (2) The owner or operator shall identify in the protocol any proposed variation from the established sampling and analytical procedures or from the conditions in this permit.
   b. The test protocol and compliance test report shall conform to the standard format specified by the Department. The current version of the format may be obtained from the Department's Web Site or from the Compliance section of AQB's website.
   c. The owner or operator shall provide the following performance test facilities for the Department:
      (1) Sampling ports necessary for any test methods specified by this Permit,
      (2) Safe sampling platforms,
      (3) Safe access to sampling platforms, and
      (4) Utilities for sampling and test equipment.
   d. Where necessary to prevent cyclonic flow in the stack, the owner or operator shall install flow straighteners in accordance with EPA Reference Method 1 in 40 CFR § 60, Appendix A.
7. During engine and heater compliance tests [Subsection IV.D, paragraph 1], the owner or operator shall monitor and record the Facility's hourly production rate. This information shall be included with the test report that is required to be furnished to the Department and shall be listed in tabular form or as part of the summary page of the test report.
8. Engine compliance tests [Subsection IV.D, paragraph 1] shall be conducted at 90 percent or greater of the engine's site rated capacity, as stated in the registration form of this Permit, and

at additional loads when requested by the Department. The load and the parameters used to calculate it shall be recorded to document operating conditions and shall be included with the test report to the Department.

9. Initial compliance tests on Filters shall demonstrate compliance with paragraph III.F.6, or shall establish an operating range in which there are no visible emissions per paragraph III.F.6. Results shall be furnished to the Department for use as a baseline data set during future compliance inspections as a comparison of Facility performance versus opacity.
10. The owner or operator shall submit one copy of the test protocol and compliance test results to the Enforcement Program Manager of the Department no later than forty five (45) days after the completion of the testing.

## SECTION V. CHANGES THAT PREVENT MEETING THE GENERAL PERMIT REQUIREMENTS

1. The owner or operator shall not change or add equipment that prevents the Facility from complying with the conditions of this permit.
2. Prior to making any modification that would result in the Facility not being able to meet the conditions of this permit; the owner or operator shall obtain a Regular Construction Permit under 20.2.72 NMAC from the Department. [ 20.2.72.220.D(2) NMAC]

## SECTION VI. RIGHTS OF THE ENVIRONMENT DEPARTMENT AND THE REGISTERED FACILITY

### VI.A. PROPERTY ACCESS AND RECORD REVIEW

1. The Department may access the Facility and the nearest operations office of the Facility during operational hours to inspect the equipment at the Facility and any records to ensure that the Facility has operated and continues to operate in compliance with the conditions of this permit. Operational hours shall include all times when employees are present and emissions may be occurring. [Air Quality Control Act, NMSA 1978. Section 74-2-5.1A]

### VI.B. CANCELLATION OF REGISTRATION

1. The Department may cancel registration under this Permit if the owner or operator of the Facility has not notified the Department within two (2) years of approved registration that the construction or modification has begun. The Department may also cancel the registration if construction work is suspended for one (1) year.
2. The Department shall cancel the registration if the owner or operator of the Facility ceases operation for five (5) years or more. [20.2.72.211.A NMAC]

### VI.C. REVOCATION OF REGISTRATION

1. The Department may revoke a registration under this Permit in writing:
   a. If the owner or operator of the Facility has knowingly and willfully misrepresented a fact on the registration form; or
   b. Pursuant to an Administrative Compliance Order or Court Order.

## VI.D. Appeals of Department Permitting Actions

1. Any party affected by the Department's approval, denial or revocation of a registration under this Permit may appeal to the Environmental Improvement Board (EIB) within thirty (30) days of the Department's decision pursuant to Subsections F through H of 20.2.72.207 NMAC and 20.2.72.220.C(5) NMAC.

## VI.E. Revision of the General Construction Permit

1. The Department may revise this Permit pursuant to 20.2.72.220.B NMAC. New Facilities are required to comply with the new GCP-5 transition schedule within the time frame stated in the new version.

## SECTION VII. ACRONYMS AND DEFINITIONS

### VII.A. ACRONYMS

| | |
|---|---|
| AC | Asphalt Concrete |
| APF | Aggregate Processing Facility |
| (AQB) | Air Quality Bureau |
| AQCR | Air Quality Control Regions |
| CO | Carbon monoxide |
| CBP | Concrete Batch Plant |
| CEMS | Continuous Emissions Monitoring System |
| CFR | Code of Federal Regulations |
| EIB | Environmental Improvement Board |
| GCP | General Construction Permit |
| HAP | Hazardous Air Pollutant |
| HMA | Hot Mix Asphalt |
| NAAQS | National Ambient Air Quality Standards [40 CFR Part 50] |
| NAIC | North American Industrial Classification |
| NESHAP | National Emission Standards for Hazardous Air Pollutants [40 CFR Part 61 and 63] |
| NMAAQS | New Mexico Ambient Air Quality Standards [20.2.3 NMAC] |
| NMAC | New Mexico Administrative Code |
| NMED | New Mexico Environment Department |
| NOI | Notice Of Intent |
| NOV | Notice Of Violation |
| $NO_x$ | Oxides of nitrogen |
| NSPS | New Source Performance Standards [40 CFR Part 60] |
| MACT | Maximum Achievable Control Technology |
| PM | Particulate Matter |
| $PM_{10}$ | Particulate Matter with an aerodynamic diameter of 10 microns or less |
| ppm | Parts Per Million |
| PSD | Prevention of Significant Deterioration [20.2.74 NMAC] |
| SCF | Standard Cubic Foot |
| SIC | Standard Industrial Classification |
| $SO_2$ | Sulfur Dioxide |
| TPH | Tons Per Hour |
| U.S. EPA | United States Environmental Protection Agency |
| VOC | Volatile organic compound |
| YPD | (cubic) Yards Per Day |
| YPH | (cubic) Yards Per Hour |
| YPY | (cubic) Yards Per Year |

## VII.B. DEFINITIONS

**"Area of Operations"** means the area within the Restricted Area which contains all Emissions Units and activities which may produce air contaminants, including Emissions Units and activities listed in Subsection I.A. – *Facilities Allowed to Register*, paragraph 3, all disturbed lands and all haul roads except the haul road between the Restricted Area and the Property Boundary. Disturbed lands include all active mining areas, stockpiles, and overburden removal areas used for operation of the Facility.

**"Aggregate Processing Facility "** means any facility or plant that utilizes any combination of equipment or machinery that is used to quarry, separate, screen, combine, or crush, any nonmetallic mineral.

**"Air Quality Control Region" (AQCR)** means an interstate or intrastate area designated by the U.S. Environmental Protection Agency (EPA) for the attainment and maintenance of National Ambient Air Quality Standards (NAAQS).

**"Asphalt"** means the bituminous substance used to bind aggregate together to make asphalt concrete (AC).

**"Concrete"** means a conglomerate of gravel, pebbles, sand, broken stone, blast-furnace slag or cinders, or fly-ash (termed the aggregate) embedded in a matrix of either mortar or cement mixed with water.

**"Concrete Batch Plant"** means any facility or plant used to manufacture concrete by mixing water, aggregate, and cement.

**"Department"** is the State of New Mexico Environment Department, Air Quality Bureau.

**"Emissions Units"** means any building, structure, equipment, facility, installation (including temporary installations), operation or stationary source, which emits or has the potential to emit any air pollutant subject to regulation under the Act.

**"Filter"** means the equipment used by the Facility to capture dust and particulate matter. As used in this GCP, the term Filter includes baghouses, fabric filters, sock filters, and cartridge filters.

**"Fugitive Emissions"** means those emissions, which could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.

**"Haul Road"** means any on-site road that is not accessible to the general public and is connected to the facility or the nearest public road.

**"Hazardous Air Pollutants"** are air pollutants that are designated as hazardous by the U.S. EPA in the Clean Air Act and listed in 40 CFR Part 61 Section 112b.

**"Hot Mix Asphalt Plant"** means any facility or plant that utilizes any combination of equipment or machinery to store, deliver, or manufacture Asphalt Concrete by mixing Asphalt and heated aggregate.

**"National Ambient Air Quality Standards"** means the primary (health based) and secondary (welfare-based) federal ambient air quality standards promulgated by the U.S. EPA pursuant to Section 112 of the federal Clean Air Act.

**"NSPS" (New Source Performance Standards)** means the regulatory requirements, guidelines and emission limitations promulgated by the U.S. EPA pursuant to Section 111 of the Federal Clean Air Act and 40 CFR Part 60.

**"Opacity"** means the degree to which emissions reduce the transmission of light and obscure the view of an object in the background.

**"Owner or Operator"** is any person who owns or operates a process or process equipment at the source for which coverage under the Permit has been granted.

**"Property Boundary"** means the outside edge of the property, which includes all the equipment, registered under this Permit. The property may consist of one or more continuous and adjacent properties if they are owned, leased, or under direct control of the owner or operator.

**"Ready Mix Plant** or "Redi Mix" or "central mix" means a plant that combines and mixes **Concrete** ingredients with water in a drum at the Facility, before loading the mix into a truck for transport to the point of use.

**"Restricted Area"** means the area to which public access is restricted.

**"Stack Emissions"** means emissions that are released to the atmosphere from a capture system through a stack or other point source discharge on the Facility.

**"Transit Mix Plant"** means a plant where Concrete ingredients are put into trucks and mixed by rotation of the drum on the way to the job-site.

# APPENDIX H. GCP-5 PERMIT # 9285

| Mail Application To: | | For Department use only: |
|---|---|---|
| New Mexico Environment Department<br>Air Quality Bureau<br>Technical Services Unit<br>525 Camino de los Marquez, Suite 1<br>Santa Fe, New Mexico, 87505<br><br>Phone (505) 476-4300<br>Fax (505) 476-4375<br>https://www.env.nm.gov/air-quality/ | | RECEIVED<br>JUN 17 2021<br>Air Quality Bureau<br>AIRS #: AI #: |

# General Construction Permit GCP-5

## Multi-Form for Concrete Batch Plants

(Locating outside of Bernalillo County and Tribal Communities)

Use this form for any combination of the following permitting activities: **Initial registration** of a facility for a GCP-5 permit, GCP-5 facility **relocations**, GCP-5 **substitution of equipment** notification, and reporting of **additional equipment** for GCP-5 facilities.

### Acknowledgements (Mark all that apply):

☒ **I am submitting this form for an initial GCP-5 registration.**

☐ **I am submitting this form for relocation.** A complete form is required for all relocations including the Equipment List.

☐ **I am submitting this form for equipment substitutions, removals, or additions.** Sections I, VII, VIII and IX.1 are required in addition to the certification form on page 10. Applicable provisions of the GCP-5 may require compliance tests for equipment installed following this notification. Include other sections if information is changing that should be reported in those sections.

☐ **I acknowledge that a pre-application meeting is available to me upon request.**

☐ **I have sent a copy of this application to the nearest Department Field Office (required for initial registrations only).**

☐ **Public notice was posted prior to submitting this form to NMED.**

☐ **I have published the public notice required by Condition II.B.1 of GCP-5 (required for initial registrations only).**

☐ **This facility qualifies to receive assistance from the Small Business Environmental Assistance program (SBEAP) and qualifies for 50% of the current application and permit fees.** To see if you qualify for SBEAP assistance and a fee reduction go to https://www.env.nm.gov/air-quality/small-biz-criteria/

☐ **This facility qualifies to receive assistance from the Small Business Environmental Assistance Program (SBEAP) but does not qualify for 50% of the current application and permit fees.** To see if you qualify for SBEAP assistance go to https://www.env.nm.gov/air-quality/small-biz-criteria/

☒ **I have enclosed a check for the required fee: ☒ initial registration fee: $4,260 prior to 1/1/2021 or $4,320 beginning 1/1/2021; OR ☐ relocation fee $426 prior to 1/1/2021 or $432 beginning 1/1/2021.** There is an annual fee in addition to the registration fee: www.env.nm.gov/air-quality/permit-fees-2/

For facilities qualifying as a "small business" under 20.2.75.7.F NMAC, these fees are or $2,130 and $213 respectively prior to 1/1/2021 or $2,160 and $216 respectively beginning 1/1/2021, provided that NMED has a Small Business Certification Form from your company on file. This form can be found at: https://www.env.nm.gov/air-quality/frequently-requested-forms/
**Provide your Check Number:** _____ **and Amount:** _____.

**This facility is a ☒ Truck Mix ☐ Central Mix ☐ Other (specify):**

| I | Company Information | | |
|---|---|---|---|
| 1 | a) Company name: Roswell Ready Mix | | b) Date application notarized: 6/16 /2021 |
| 2 | a) Facility name: Delaware Basin Concrete Plant | b) 4-digit SIC code: 3273 | c) 6-digit NAICS code: **327320** |
| 3 | Company mailing address: 4100 S. Lea St. Roswell, NM 88203 | | This facility is: ☐ Stationary ☒ Portable |

| | | | |
|---|---|---|---|
| 4 | Permit # (unless this is a new facility): | | AI # (unless this is a new facility): |
| 5 | a) Contact person: Danny Carr | | b) Title: General Manager |
| 6 | a) Phone No: 575-408-0715 | b) Fax No: | c) e-mail: dcarr@nmreadymix.com |
| 7 | Will this facility operate in conjunction with other air regulated parties on the same property? ☒ No ☐ Yes<br>If yes, what is the name and permit number (if known) of the other facility? | | |
| 8 | a) If you have hired a consultant, provide name and contact info: | | |
| 9 | a) Phone No: | b) Fax No: | c) e-mail: |

## II Applicability

| | | |
|---|---|---|
| 1 | Is your facility listed under a NESHAP or MACT? | ☒No ☐Yes |
| 2 | Will your facility process radioactive materials? | ☒No ☐Yes |
| 3 | Will your facility process materials that include any listed Hazardous Air Pollutants (HAPs)? | ☒No ☐Yes |
| 4 | Will your facility process asbestos tailings, or asbestos containing waste materials? | ☒No ☐Yes |
| 5 | Is your facility subject to 20.2.72 NMAC, Subpart IV, *Permitting for Toxic Air Pollutants?* | ☒No ☐Yes |
| 6 | Will this facility be located less than three (3) miles from a Class I (Wilderness) area? See AQB Modeling website for a map of Class I areas at: http://www.env.nm.gov/aqb/modeling/class1areas.html | ☒No ☐Yes |
| 7 | Will this facility use any fuels other than natural gas, liquefied petroleum gas (LPG)/propane, gasoline, and # 2 diesel fuel with a sulfur content greater than 0.05% by weight? | ☒No ☐Yes |
| If you answered ***Yes*** to any of questions 1-7, your facility **does not** qualify for this general construction permit. You need to submit an application for a regular permit under 20 NMAC 2.72 *Construction Permits*. | | |
| 8 | Will your facility meet the location requirements as described in Sections III.C. and III.E. of this general construction permit? | ☐No ☒Yes |
| 9 | Is your facility's primary purpose to produce concrete and concrete products per Condition I.A.1 of this general construction permit? | ☐No ☒Yes |
| 10 | Is your facility's production rate less than or equal to 2400 yards of concrete per day (YPD) as required by Condition III.A.4. of this General Construction Permit? | ☐No ☒Yes |
| 11 | Does your facility include any combination of the Emissions Units listed in Section I.A.3. of the general construction permit, and no others? | ☐No ☒Yes |
| 12 | Can your facility comply with all of the applicable state and federal regulations listed in Section III.B. of the general construction permit? | ☐No ☒Yes |
| 13 | Will the perimeter of the Area of Operations of your facility be located more than one-quarter mile (1/4) from an existing recreation area, private residence, office building, school, or other occupied structure? OR, if your facility does not meet this setback, will the haul road fugitive emissions meet the control requirements as described in Condition III.F.10? | ☐No ☒Yes |
| 14 | If you plan to co-locate this facility with an asphalt facility or a crushing facility, will your facility comply with the location requirements as described in Section III.E – *Co-Locations* of this general construction permit? If this facility is not co-located, check "Yes". | ☐No ☒Yes |
| 15 | Will the minimum distance between any emission source of the permitted Facility and the perimeter of the Restricted Area (except where the haul road crosses the Restricted Area perimeter) be at least 13 meters (14 yards)? | ☐No ☒Yes |
| 16 | Will the haul road control measures meet or exceed the requirements as described in Section III.F of this general construction permit? | ☐No ☒Yes |
| If you answered ***NO*** to any of questions 8-18, your facility **does not** qualify for the general construction permit. You need to submit an application for an individual permit under 20. 2.72 NMAC *Construction Permits*. | | |

## III Current Facility Status

| | | | |
|---|---|---|---|
| 1 | Has this facility previously been issued a general construction permit? ☒Yes ☐No | If yes, the registration No. is:GCP5-1514 | |
| 2 | Has this facility already been constructed? XYes No | If yes, is it currently operating in New Mexico? ☐Yes ☒No | |
| 3 | Does this facility have a 20.2.72.200.A (or B) NMAC construction permit or a 20.2.73 NMAC Notice of Intent (NOI)? ☐Yes ☒No | | If yes, the permit (or NOI) #, and whether the permit will remain active or not: |
| 4 | Is this application in response to a Notice of Violation (NOV)? ☐Yes ☒No If so, provide current permit #: | If yes, NOV date: | NOV Tracking No. |
| 5 | This Facility is submitting this application as a Small Business and will operate under the small business product limitation in the GCP, Section II.D.2 – *Fees*. ☐Yes ☒No | | |

| | |
|---|---|
| 6 | This Facility will operate as a Small Business under Condition II.D. I understand additional reporting requirements are necessary prior to operating over the HP and TPY limits set in condition II.D.2, and as required in Condition IV.C.1.b. ☐Yes ☒No |

## IV Facility Location Information

Please use Montana's Graphical Locater to convert Lat/Long to UTM systems, found at: http://rcn.montana.edu/resources/converter.aspx

| | | | | | |
|---|---|---|---|---|---|
| 1 | a) Section: 7 | b) Range: 34E | c) Township: 24S | d) County: Lea | e) Elevation (ft): 3599 |
| 2 | a) UTM Zone: ☐12 or ☒13 | b) UTME (to nearest 0.01 km): 640185 | | c) UTMN (to nearest 0.01 km): 3566686 | |
| | d) Specify which datum is used: | ☐ NAD 27 | ☒ NAD 83 | ☐ WGS 83 | |
| AND | a) Latitude (decimal degrees): 32.22806 | b) Longitude (decimal degrees): -103.51224 | | | |
| 3 | Name and zip code of nearest New Mexico town and/or tribal community: Jal NM, 88252 | | | | |
| 4 | Detailed Driving Instructions including direction and distance from nearest NM town and/or tribal community (attach a road map if necessary). If there is no street address, provide public road mileage marker: From 3rd St and NM 128, Drive 20.4 miles W on NM 128 to Delaware Basin Rd. Turn N and drive 1.25 miles to haul road on W to the area of operations. | | | | |
| 5 | The facility is 20.5 (distance) miles West (direction) of Jal, NM (nearest town). | | | | |
| 6 | Direction and distance to the nearest occupied structure from the perimeter of the Area of Operations: More than 3.5 miles<br><br>On Attachment C (page 6) required map, indicate (circle) all residences within ¼ mile of area of operations. | | | | |
| 7 | Land Status of Facility (check one): ☒ Private ☐ Indian/Pueblo ☐ Government ☐ BLM ☐ Forest Service ☐ Military | | | | |
| 8 | Name and county of the nearest Class I Area and its direction from the facility: Carlsbad Caverns 267° | | | | |
| 9 | Shortest distance from the facility to the boundary of the nearest Class I Area (to the nearest 1 km): 89 km | | | | |

## V Initial Operating Schedule

| | |
|---|---|
| 1 | Month and year of anticipated construction of the new or modified facility: June 2021 |
| 2 | Month and year of anticipated completion date at this proposed site: June 2022 |

## VI Other Facility Information

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | Maximum proposed production | 350 | yards/day | 2 | Total miles of haul road (one way) | .25 | miles |
| 3 | Maximum proposed production | 30000 | yards/year | 4 | Estimated Number of Haul truck trips/day (round trip) | 6 | trips/day |
| 5 | Area of disturbed earth | 5 | acres | 6 | Area of storage pile & operations | 5 | acres |

7 a) **Restricted Area**: Provide a written description of the method(s) to be used to restrict public access to the restricted area. Method(s) used to delineate the Restricted Area: The location is fenced on the South along NM 128 and on the East along Delaware Basin Rd. "NO TRESPASSING" signs are posted near the haul road entrance on the east side of the facility. The operation is very remote to the general public.

"**Restricted Area**" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area.

| | |
|---|---|
| 8 | Describe the control measures that will be used on haul roads to meet the fugitive emission requirements described in Section III.F. of this General Construction Permit:<br>Water |
| 9 | Provide the manufacturer's recommended pressure drop across the filter(s), as required by Condition II.C.5.h:<br>12-20 psi |
| 10 | Provide a preliminary operational plan(s) defining the measures to mitigate source emissions during:<br>1) Facility malfunctions, start up, shutdown, scheduled maintenance as defined in 20.2.7 NMAC, and<br>2) weather conditions that would cause an exceedance of the visible emission requirement in Section III.A.6. of the permit.<br><br>During malfunctions, start up, shutdown, scheduled maintenances, and weather exceedances the plant will shut down until it can operate without exceedances. |

## VII Process Equipment Information, including silos (use additional sheets if necessary)

| Unit Number (match attachments) | Component Description (or unit's function). Also enter all silos and control devices. | Manufacturer | Manufacture Date | Model Number | Equipment Size, Capacity or Maximum Process Rate | Manufacturers Emission Factors for Regulated Air Pollutants (for engines or generators). For control devices, enter efficiency. | Date of most recent Compliance Test in New Mexico (or "None") |
|---|---|---|---|---|---|---|---|
| | **Concrete Plant** | | | | | | |
| 01 | FEED BIN | **CEMCO** | 1994 | 150 | 150 YPH | | |
| 02 | CONVEYOR BELT | **CEMCO** | 1994 | 150 | 150 YPH | | |
| 03 | AGGREGATE BIN | **CEMCO** | 1994 | 150 | 15 CY | | |
| 04 | SAND BIN | **CEMCO** | 1994 | 150 | 10 CY | | |
| 05 | CONVEYOR BELT | **CEMCO** | 1994 | 150 | 150 YPH | | |
| 06 | CBP | **CUMMINS** | 1994 | | 150 YPH | | |
| 07 | DIESEL GENERATOR FOR HYDRAULIC PUMP | **CUMMINS** | 1994 | JDXL | 37-75 kW/100HP MAX | N/A < 185 HP | |
| S1 | FLY ASH | **CEMCO** | 1994 | 150 | 150 YPH | | |
| S2 | CEMENT | **CEMCO** | 1994 | 150 | 150 YPH | | |
| S2a | BAGHOUSE | **CEMCO** | 1994 | 150 | 150 YPH | | |
| | | | | | | | |
| | | | | | | | |
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[1] To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

## VIII Storage Tank Information (Note: this data will be used to determine 40 CFR 60 Subpart Kb applicability) (Use additional sheets if necessary)

| Tank No. | Materials Stored | Date Installed (MM/DD/YY) | Capacity (bbl) | Capacity ($M^3$) | Diameter (M) | Height (M) | True Vapor Pressure (kPa) | Annual Through-puts (gal) | Annual Turnovers |
|---|---|---|---|---|---|---|---|---|---|
| S1 | FLY ASH | JUNE 2021 | 50 TONS | | 4 | 14 | | | |
| S2 | CEMENT | JUNE 2021 | 75 TONS | | | | | | |
| T1 | PROPANE | JUNE 2021 | 250 GAL | | 4' | 4' | 9.2psig @ 60°F | 600 | 2.4 |
| T2 | DIESEL | JUNE 2021 | 150 GAL | | 4' | 4' | 0.009psig @ 70°F | 2000 | 13.3 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

## IX Required Attachments

**The following Attachments are required. Please label each document and verify you have provided the requested information by checking the checkboxes below. A complete application shall include:**

**Attachment # 1 Process Flow Sheet:** For **initial** registration applications and for all **substitutions**, removals, and **additions** of equipment applications; include a process flow sheet and/or block diagram indicating:

- ☒ All regulated equipment (Numbering or naming system should cross reference with Attachment #2)
- ☒ All emission points
- ☒ Types of control (if any) applied to those points.

**Attachment # 2 Facility Layout Map:** Provide a satellite photo or commercial scale map) showing the proposed **layout** of the Facility and the surrounding area including at least 0.25-mile (but not greater than 0.5 mile) distance from the Restricted Area **in all directions**. The map shall also include (show) the following:

- ☒ Include the label "Facility Layout Map" and the name of the facility
- ☒ A graphical scale
- ☒ An indicator showing which direction is north
- ☒ The UTM coordinates (or Longitudinal coordinate system on both axis)
- ☒ All emissions units, structures, tanks
- ☒ The access haul roads from the Area of Operations to the perimeter of the Property Boundary. Label the length.
- ☒ Any relevant topographic features of the area
- ☒ Any co-located particulate sources
- ☒ Facility Property Boundary
- ☒ The perimeter of the Restricted Area (fence line). For the complete definition, refer to the 'Definitions' at the end of the GCP permit). If more than one type of barrier is used, identify the types and locations of each barrier that will be used to restrict access from the public.
- ☒ The perimeter of the Area of Operations (see 'Definitions' at the end of the GCP permit).
- ☒ If it will fit on this map, identify the Property Boundary owned, leased, or under direct control of the applicant and/or owner or operator (refer to the Definitions at the end of the GCP permit). If it will not fit on this map, show Property Boundary on the Facility Location Map.

**Attachment # 3 Facility Location Map:** Provide a satellite photo at least 7 miles on each side or commercial scale map such as a 7.5-minute United States Geological Survey (USGS) topographic quadrangle, with the facility shown at or near the center showing the proposed **location** of the Facility. The map shall also include the following:

- ☒ Include the label "Facility Location Map" and the name of the facility.
- ☒ A minimum radius around the plant of 5 km (3.1 miles), showing any Class I area(s)
- ☒ A graphical scale
- ☒ An indicator showing which direction is north
- ☒ The UTM coordinates (or Longitudinal coordinate system on both axis)
- ☒ Any relevant topographic features of the area

**Attachment # 4 Public Notice:** Documentation that **public notice** has been initiated

1) ☒ Include the General Posting of Notice-Certification (find the Posting Certification in Part X of this registration form), including location of posted notice, along with the posted sample; date of posting, and name of person posting the notice. **This posting is required for both initial applications and relocation applications.** Additionally, provide a verbal description the posting location. The posting at the facility **must be readable by the public from the nearest public road without trespassing on private property**. Do not post it behind a locked gate or on the haul road inside private property.

**A newspaper ad is not required for relocation applications**

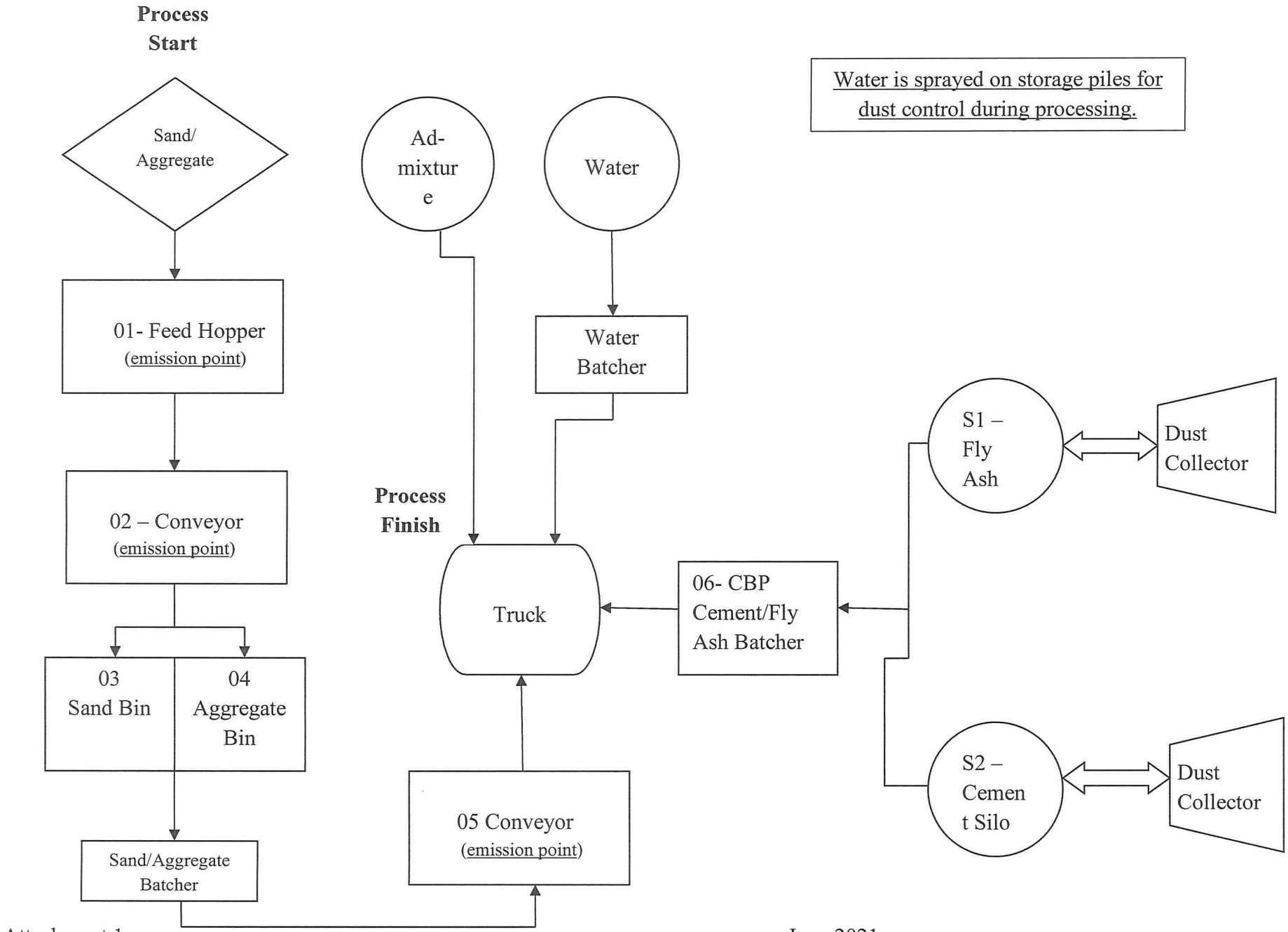
**2a)** ☐ For initial GCP applications, include an original or copy of the actual newspaper advertisement. The original or copy of the advertisement must include the header showing the date and newspaper or publication title.

**OR**

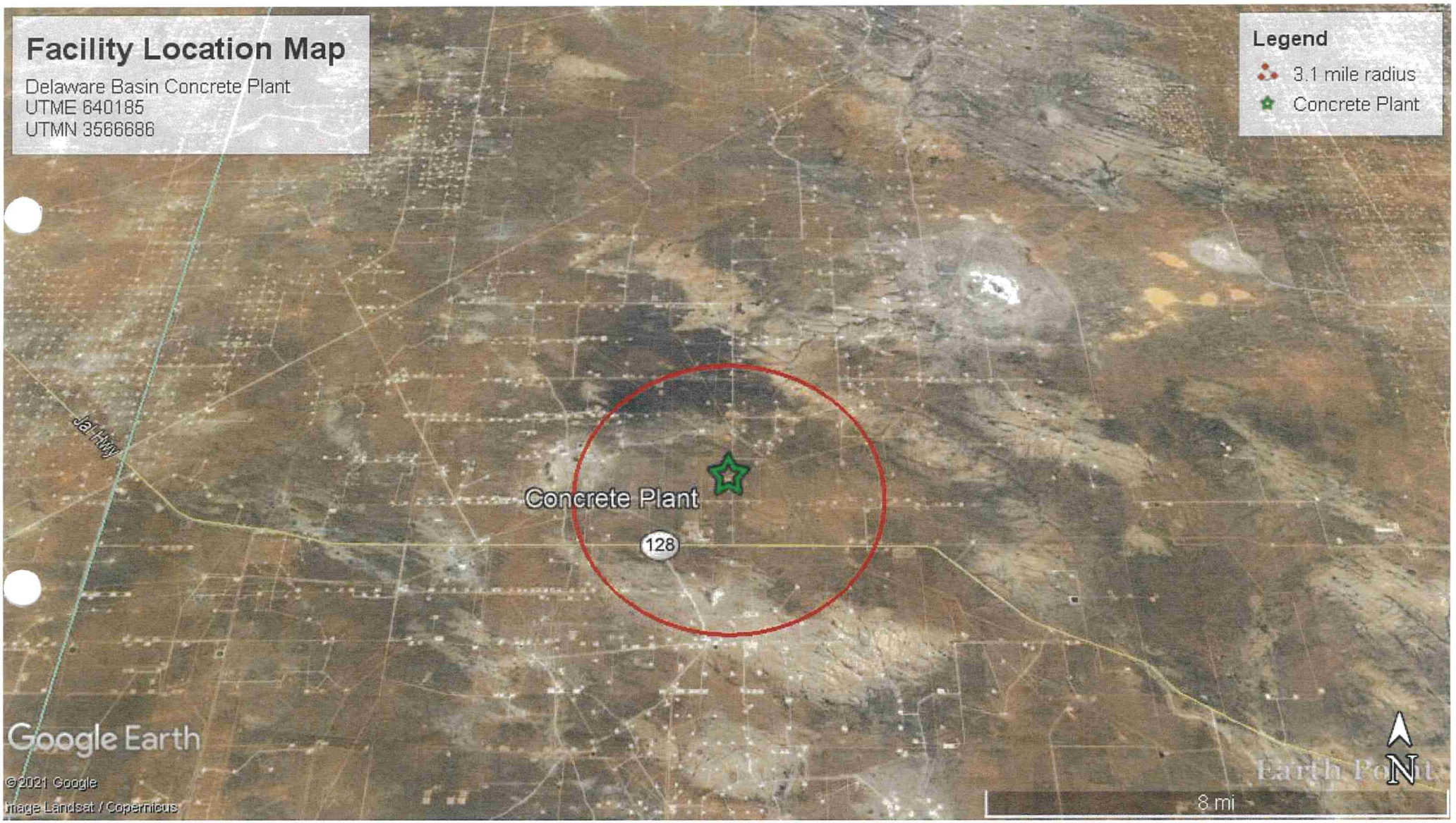
**2b)** ☒ For initial GCP applications, include an affidavit from the newspaper or publication stating that the advertisements were published. The affidavit must include the date of the advertisements' publication, and a legible photocopy of the entire ad.

**Attachment #5 Certification:**

☒ Certification by the Facility's owner or operator, or authorized representative before a notary public that all of the information included in the registration form is true and complete to the best of his or her knowledge (find the Certification in Part XI of this registration form).


Process Start
Sand/ Aggregate
Ad-mixture
Water
Water is sprayed on storage piles for dust control during processing.
01- Feed Hopper (emission point)
Water Batcher
S1 – Fly Ash
Dust Collector
02 – Conveyor (emission point)
Process Finish
Truck
06- CBP Cement/Fly Ash Batcher
03 Sand Bin
04 Aggregate Bin
S2 – Cement Silo
Dust Collector
05 Conveyor (emission point)
Sand/Aggregate Batcher


Facility Layout Map
Delaware Basin Concrete Plant
UTME 640185
UTMN 3566686
Legend
Concrete Plant
Delaware Basin Rd
Public Road
Haul road inside
Area of Operations
0.30 miles
Batch Plant
Loaction see
Attatchment #1
Restricted Area &
Property Lease Boundary
21
Required Setback
Concrete Plant
Area of Operations
Google Earth
© 2021 Google
Earth Point
N
600 ft


Facility Location Map
Delaware Basin Concrete Plant
UTME 640185
UTMN 3566686
Legend
3.1 mile radius
Concrete Plant
Concrete Plant
128
Google Earth
© 2021 Google
Image Landsat / Copernicus
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N

# NOTICE

**Roswell Ready Mix** announces its intent to apply to the New Mexico Environment Department for an air quality permit to construct a General Construction Permit, **GCP-5_XXXX (Concrete Batch Plant)**. The name of this facility is **Delaware Basin Concrete Plant**. The expected date of the submittal of our application for an air quality permit to the Air Quality Bureau is **6/18/2021.** This notice is a requirement according to New Mexico air quality regulations.

The exact location of the facility is **UTM Zone 13, UTM Easting 640185, UTM Northing 3566686**. The approximate location of this site is **20.5** miles **West** of **Jal, New Mexico**, in **Lea** county.
Air emissions of any regulated air contaminant will be less than or equal to **[do not change TPY provided]**:

| | Tons per year (TPY) |
|---|---|
| 1. Total Suspended Particulates | 95 |
| 2. Nitrogen Oxides ($NO_x$) | 95 |
| 3. Carbon Monoxide (CO) | 95 |
| 4. Volatile Organic Compounds (VOC) | 95 |
| 5. Sulfur Dioxide ($SO_2$) | 50 |
| 6. Any one (1) Hazardous Air Pollutant (HAP) | 8 |
| 7. Sum of all Hazardous Air Pollutants (HAPs) | 23 |

The standard operating schedule of this facility will be **during daylight hours only.**
The owner and/or operator of the Plant is:
**Roswell Ready Mix**
**4100 S. Lea**
**Roswell, NM 88203**
If you have any questions or comments about construction or operation of above facility, and want your comments to be made as a part of the permit review process, you must submit your comments in writing to the address below:

Permits Programs Manager
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico, 87505
(505) 476-4300

Other comments and questions may be submitted verbally.
Please refer to the company name and site name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice.
Este es un aviso de la Agencia de Calidad de Aire del Departamento de Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor de comunicarse con la oficina de Calidad de Aire al teléfono 505-476-5557.

**Notice of Non-Discrimination**

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non- discrimination programs, policies or procedures, you may contact: Kristine Pintado, Non-Discrimination Coordinator, New Mexico Environment Department, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. If you believe that you have been discriminated against with respect to a NMED program or activity, you may contact the Non-Discrimination Coordinator identified above or visit our website at https://www.env.nm.gov/NMED/EJ/index.html to learn how and where to file a complaint of discrimination.

*NOTICE IS POSTED ON A READY MIX SIGN RIGHT NEXT TO THE ENTRANCE OF PROPERTY*



# NOTICE

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Este es un aviso de la Agencia de Calidad de Aire del Departamento de Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor de comunicarse con la oficina de Calidad de Aire al teléfono 505-476-5557.

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# Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
June 15, 2021
and ending with the issue dated
June 15, 2021.

Publisher

Sworn and subscribed to before me this 15th day of June 2021.

Business Manager

My commission expires
January 29, 2023
(Seal)

OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico
My Commission Expires 1-29-23

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL LEGAL LEGAL

**LEGAL NOTICE**
**June 15, 2021**

**Roswell Ready Mix** announces its intent to apply to the New Mexico Environment Department for an air quality permit to construct a General Construction Permit, **GCP-5_XXXX (Concrete Batch Plant).** The name of this facility is **Delaware Basin Concrete Plant.** The expected date of the submittal of our application for an air quality permit to the Air Quality Bureau is **6/18/2021.** This notice is a requirement according to New Mexico air quality regulations.

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| 5. Sulfur Dioxide (SO2) | 50 |
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| 7. Sum of all Hazardous Air Pollutants (HAPs) | 23 |

The standard operating schedule of this facility will be **during daylight hours only.**
The owner and/or operator of the Plant is:
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**4100 S. Lea**
**Roswell, NM 88203**
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(505) 476-4300

Other comments and questions may be submitted verbally.
Please refer to the company name and site name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice.
Este es un aviso de la Agencia de Calidad de Aire del Departamento de Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor de comunicarse con la oficina de Calidad de Aire al teléfono 505-476-5557.

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**#36564**

67114953 00255254

ROSWELL READY MIX
5505 DUNHAM
HOBBS, NM 88240

MAILED
6/16/21

**X Posting Certification**

# Posting Certification

## General Posting of Notices

### General Construction Permits (GCPs)

I, William Siegel, the undersigned, certify that on 06/03/2021, I posted a true and correct copy of the attached Public Notice in a publicly accessible and conspicuous place at the facility entrance of the property on which the facility is, or is proposed to be, located.

Signed this 16th day of JUNE, 2021

Signature

06-16-2021
Date

William Siegel — Printed Name

Compliance Tech — Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

## XI Certification

**Company Name:** Roswell Ready Mix

I, William Siegel, hereby certify that the information and data submitted in this application are true and as accurate as possible, to the best of my knowledge and professional expertise and experience.

Signed this 16th day of JUNE 2021, upon my oath or affirmation, before a notary of the State of New Mexico.

WK Siegel
**Signature**

6-16-2021
**Date**

William Siegel
**Printed Name**

Compliance Tech
**Title**

Scribed and sworn before me on this 16th day of JUNE, 2021

My authorization as a notary of the State of NEW MEXICO expires on the 4th day of MARCH, 2025.

Shawn T. Martin
**Notary's Signature**

06-16-2021
**Date**

SHAWN T. MARTIN
**Notary's Printed Name**

OFFICIAL SEAL
SHAWN T. MARTIN
NOTARY PUBLIC - STATE OF NEW MEXICO
My Commission Expires 03-04-2025

# APPENDIX I. AP-42 CHAPTER 13.2.4

## 13.2.4 Aggregate Handling And Storage Piles

### 13.2.4.1 General

Inherent in operations that use minerals in aggregate form is the maintenance of outdoor storage piles. Storage piles are usually left uncovered, partially because of the need for frequent material transfer into or out of storage.

Dust emissions occur at several points in the storage cycle, such as material loading onto the pile, disturbances by strong wind currents, and loadout from the pile. The movement of trucks and loading equipment in the storage pile area is also a substantial source of dust.

### 13.2.4.2 Emissions And Correction Parameters

The quantity of dust emissions from aggregate storage operations varies with the volume of aggregate passing through the storage cycle. Emissions also depend on 3 parameters of the condition of a particular storage pile: age of the pile, moisture content, and proportion of aggregate fines.

When freshly processed aggregate is loaded onto a storage pile, the potential for dust emissions is at a maximum. Fines are easily disaggregated and released to the atmosphere upon exposure to air currents, either from aggregate transfer itself or from high winds. As the aggregate pile weathers, however, potential for dust emissions is greatly reduced. Moisture causes aggregation and cementation of fines to the surfaces of larger particles. Any significant rainfall soaks the interior of the pile, and then the drying process is very slow.

Silt (particles equal to or less than 75 micrometers [μm] in diameter) content is determined by measuring the portion of dry aggregate material that passes through a 200-mesh screen, using ASTM-C-136 method.[1] Table 13.2.4-1 summarizes measured silt and moisture values for industrial aggregate materials.

Table 13.2.4-1. TYPICAL SILT AND MOISTURE CONTENTS OF MATERIALS AT VARIOUS INDUSTRIES[a]

| Industry | No. Of Facilities | Material | Silt Content (%) | | | Moisture Content (%) | | |
|---|---|---|---|---|---|---|---|---|
| | | | No. Of Samples | Range | Mean | No. Of Samples | Range | Mean |
| Iron and steel production | 9 | Pellet ore | 13 | 1.3 - 13 | 4.3 | 11 | 0.64 - 4.0 | 2.2 |
| | | Lump ore | 9 | 2.8 - 19 | 9.5 | 6 | 1.6 - 8.0 | 5.4 |
| | | Coal | 12 | 2.0 - 7.7 | 4.6 | 11 | 2.8 - 11 | 4.8 |
| | | Slag | 3 | 3.0 - 7.3 | 5.3 | 3 | 0.25 - 2.0 | 0.92 |
| | | Flue dust | 3 | 2.7 - 23 | 13 | 1 | — | 7 |
| | | Coke breeze | 2 | 4.4 - 5.4 | 4.9 | 2 | 6.4 - 9.2 | 7.8 |
| | | Blended ore | 1 | — | 15 | 1 | — | 6.6 |
| | | Sinter | 1 | — | 0.7 | 0 | — | — |
| | | Limestone | 3 | 0.4 - 2.3 | 1.0 | 2 | ND | 0.2 |
| Stone quarrying and processing | 2 | Crushed limestone | 2 | 1.3 - 1.9 | 1.6 | 2 | 0.3 - 1.1 | 0.7 |
| | | Various limestone products | 8 | 0.8 - 14 | 3.9 | 8 | 0.46 - 5.0 | 2.1 |
| Taconite mining and processing | 1 | Pellets | 9 | 2.2 - 5.4 | 3.4 | 7 | 0.05 - 2.0 | 0.9 |
| | | Tailings | 2 | ND | 11 | 1 | — | 0.4 |
| Western surface coal mining | 4 | Coal | 15 | 3.4 - 16 | 6.2 | 7 | 2.8 - 20 | 6.9 |
| | | Overburden | 15 | 3.8 - 15 | 7.5 | 0 | — | — |
| | | Exposed ground | 3 | 5.1 - 21 | 15 | 3 | 0.8 - 6.4 | 3.4 |
| Coal-fired power plant | 1 | Coal (as received) | 60 | 0.6 - 4.8 | 2.2 | 59 | 2.7 - 7.4 | 4.5 |
| Municipal solid waste landfills | 4 | Sand | 1 | — | 2.6 | 1 | — | 7.4 |
| | | Slag | 2 | 3.0 - 4.7 | 3.8 | 2 | 2.3 - 4.9 | 3.6 |
| | | Cover | 5 | 5.0 - 16 | 9.0 | 5 | 8.9 - 16 | 12 |
| | | Clay/dirt mix | 1 | — | 9.2 | 1 | — | 14 |
| | | Clay | 2 | 4.5 - 7.4 | 6.0 | 2 | 8.9 - 11 | 10 |
| | | Fly ash | 4 | 78 - 81 | 80 | 4 | 26 - 29 | 27 |
| | | Misc. fill materials | 1 | — | 12 | 1 | — | 11 |

[a] References 1-10. ND = no data.

13.2.4.3 Predictive Emission Factor Equations

Total dust emissions from aggregate storage piles result from several distinct source activities within the storage cycle:

1. Loading of aggregate onto storage piles (batch or continuous drop operations).
2. Equipment traffic in storage area.
3. Wind erosion of pile surfaces and ground areas around piles.
4. Loadout of aggregate for shipment or for return to the process stream (batch or continuous drop operations).

Either adding aggregate material to a storage pile or removing it usually involves dropping the material onto a receiving surface. Truck dumping on the pile or loading out from the pile to a truck with a front-end loader are examples of batch drop operations. Adding material to the pile by a conveyor stacker is an example of a continuous drop operation.

The quantity of particulate emissions generated by either type of drop operation, per kilogram (kg) (ton) of material transferred, may be estimated, with a rating of A, using the following empirical expression:[11]

$$E = k(0.0016) \frac{\left(\frac{U}{2.2}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \text{ (kg/megagram [Mg])} \quad (1)$$

$$E = k(0.0032) \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \text{ (pound [lb]/ton)}$$

where:

E = emission factor
k = particle size multiplier (dimensionless)
U = mean wind speed, meters per second (m/s) (miles per hour [mph])
M = material moisture content (%)

The particle size multiplier in the equation, k, varies with aerodynamic particle size range, as follows:

| Aerodynamic Particle Size Multiplier (k) For Equation 1 | | | | |
|---|---|---|---|---|
| < 30 µm | < 15 µm | < 10 µm | < 5 µm | < 2.5 µm |
| 0.74 | 0.48 | 0.35 | 0.20 | 0.053[a] |

[a] Multiplier for < 2.5 µm taken from Reference 14.

The equation retains the assigned quality rating if applied within the ranges of source conditions that were tested in developing the equation, as follows. Note that silt content is included, even though silt content does not appear as a correction parameter in the equation. While it is reasonable to expect that silt content and emission factors are interrelated, no significant correlation between the 2 was found during the derivation of the equation, probably because most tests with high silt contents were conducted under lower winds, and vice versa. It is recommended that estimates from the equation be reduced 1 quality rating level if the silt content used in a particular application falls outside the range given:

| Ranges Of Source Conditions For Equation 1 | | | |
|---|---|---|---|
| Silt Content (%) | Moisture Content (%) | Wind Speed | |
| | | m/s | mph |
| 0.44 - 19 | 0.25 - 4.8 | 0.6 - 6.7 | 1.3 - 15 |

To retain the quality rating of the equation when it is applied to a specific facility, reliable correction parameters must be determined for specific sources of interest. The field and laboratory procedures for aggregate sampling are given in Reference 3. In the event that site-specific values for

correction parameters cannot be obtained, the appropriate mean from Table 13.2.4-1 may be used, but the quality rating of the equation is reduced by 1 letter.

For emissions from equipment traffic (trucks, front-end loaders, dozers, etc.) traveling between or on piles, it is recommended that the equations for vehicle traffic on unpaved surfaces be used (see Section 13.2.2). For vehicle travel between storage piles, the silt value(s) for the areas among the piles (which may differ from the silt values for the stored materials) should be used.

Worst-case emissions from storage pile areas occur under dry, windy conditions. Worst-case emissions from materials-handling operations may be calculated by substituting into the equation appropriate values for aggregate material moisture content and for anticipated wind speeds during the worst case averaging period, usually 24 hours. The treatment of dry conditions for Section 13.2.2, vehicle traffic, "Unpaved Roads", follows the methodology described in that section centering on parameter p. A separate set of nonclimatic correction parameters and source extent values corresponding to higher than normal storage pile activity also may be justified for the worst-case averaging period.

### 13.2.4.4 Controls[12-13]

Watering and the use of chemical wetting agents are the principal means for control of aggregate storage pile emissions. Enclosure or covering of inactive piles to reduce wind erosion can also reduce emissions. Watering is useful mainly to reduce emissions from vehicle traffic in the storage pile area. Watering of the storage piles themselves typically has only a very temporary slight effect on total emissions. A much more effective technique is to apply chemical agents (such as surfactants) that permit more extensive wetting. Continuous chemical treating of material loaded onto piles, coupled with watering or treatment of roadways, can reduce total particulate emissions from aggregate storage operations by up to 90 percent.[12]

### References For Section 13.2.4


1. C. Cowherd, Jr., *et al., Development Of Emission Factors For Fugitive Dust Sources*, EPA-450/3-74-037, U. S. Environmental Protection Agency, Research Triangle Park, NC, June 1974.

2. R. Bohn, *et al., Fugitive Emissions From Integrated Iron And Steel Plants*, EPA-600/2-78-050, U. S. Environmental Protection Agency, Cincinnati, OH, March 1978.

3. C. Cowherd, Jr., *et al., Iron And Steel Plant Open Dust Source Fugitive Emission Evaluation*, EPA-600/2-79-103, U. S. Environmental Protection Agency, Cincinnati, OH, May 1979.

4. *Evaluation Of Open Dust Sources In The Vicinity Of Buffalo, New York*, EPA Contract No. 68-02-2545, Midwest Research Institute, Kansas City, MO, March 1979.

5. C. Cowherd, Jr., and T. Cuscino, Jr., *Fugitive Emissions Evaluation*, MRI-4343-L, Midwest Research Institute, Kansas City, MO, February 1977.

6. T. Cuscino, Jr., *et al., Taconite Mining Fugitive Emissions Study*, Minnesota Pollution Control Agency, Roseville, MN, June 1979.

7. *Improved Emission Factors For Fugitive Dust From Western Surface Coal Mining Sources*, 2 Volumes, EPA Contract No. 68-03-2924, PEDCo Environmental, Kansas City, MO, and Midwest Research Institute, Kansas City, MO, July 1981.

8. *Determination Of Fugitive Coal Dust Emissions From Rotary Railcar Dumping*, TRC, Hartford, CT, May 1984.

9. *PM-10 Emission Inventory Of Landfills In the Lake Calumet Area*, EPA Contract No. 68-02-3891, Midwest Research Institute, Kansas City, MO, September 1987.

10. *Chicago Area Particulate Matter Emission Inventory — Sampling And Analysis*, EPA Contract No. 68-02-4395, Midwest Research Institute, Kansas City, MO, May 1988.

11. *Update Of Fugitive Dust Emission Factors In AP-42 Section 11.2*, EPA Contract No. 68-02-3891, Midwest Research Institute, Kansas City, MO, July 1987.

12. G. A. Jutze, *et al., Investigation Of Fugitive Dust Sources Emissions And Control*, EPA-450/3-74-036a, U. S. Environmental Protection Agency, Research Triangle Park, NC, June 1974.

13. C. Cowherd, Jr., *et al., Control Of Open Fugitive Dust Sources*, EPA-450/3-88-008, U. S. Environmental Protection Agency, Research Triangle Park, NC, September 1988.

14. C. Cowherd, *Background Document for Revisions to Fine Fraction Ratios &sed for AP-42 Fugitive Dust Emission Factors*. Prepared by Midwest Research Institute for Western Governors Association, Western Regional Air Partnership, Denver, CO, February 1, 2006.

# APPENDIX J. PUBLIC NOTICE FOR GCP-5 PERMIT #9285

# NOTICE

**Roswell Ready Mix** announces its intent to apply to the New Mexico Environment Department for an air quality permit to construct a General Construction Permit, **GCP-5_XXXX (Concrete Batch Plant)**. The name of this facility is **Delaware Basin Concrete Plant**. The expected date of the submittal of our application for an air quality permit to the Air Quality Bureau is **6/18/2021.** This notice is a requirement according to New Mexico air quality regulations.

The exact location of the facility is **UTM Zone 13, UTM Easting 640185, UTM Northing 3566686**. The approximate location of this site is **20.5** miles **West** of **Jal, New Mexico**, in **Lea** county.
Air emissions of any regulated air contaminant will be less than or equal to **[do not change TPY provided]**:

| | Tons per year (TPY) |
|---|---|
| 1. Total Suspended Particulates | 95 |
| 2. Nitrogen Oxides ($NO_x$) | 95 |
| 3. Carbon Monoxide (CO) | 95 |
| 4. Volatile Organic Compounds (VOC) | 95 |
| 5. Sulfur Dioxide ($SO_2$) | 50 |
| 6. Any one (1) Hazardous Air Pollutant (HAP) | 8 |
| 7. Sum of all Hazardous Air Pollutants (HAPs) | 23 |

The standard operating schedule of this facility will be **during daylight hours only.**
The owner and/or operator of the Plant is:
**Roswell Ready Mix**
**4100 S. Lea**
**Roswell, NM 88203**
If you have any questions or comments about construction or operation of above facility, and want your comments to be made as a part of the permit review process, you must submit your comments in writing to the address below:

Permits Programs Manager
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico, 87505
(505) 476-4300

Other comments and questions may be submitted verbally.
Please refer to the company name and site name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice.
Este es un aviso de la Agencia de Calidad de Aire del Departamento de Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor de comunicarse con la oficina de Calidad de Aire al teléfono 505-476-5557.

**Notice of Non-Discrimination**

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non- discrimination programs, policies or procedures, you may contact: Kristine Pintado, Non-Discrimination Coordinator, New Mexico Environment Department, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. If you believe that you have been discriminated against with respect to a NMED program or activity, you may contact the Non-Discrimination Coordinator identified above or visit our website at https://www.env.nm.gov/NMED/EJ/index.html to learn how and where to file a complaint of discrimination.

# APPENDIX K. GCP-O&G PERMIT # 7899

**Acknowledgements Section - Leo Thorsness Facility**

**Construction Status** Existing Permitted (or NOI) Facility

☑ I acknowledge that a pre-application meeting is available to me upon request.

☑ For new registrations or modifications, a check for the registration fee will be sent to the Department for ten fee points for GCP-O&G or $500 for NOIs. We cannot begin processing your action until the full fee is received by the Department. You will receive an email when your action is assigned for review.

☑ There is an annual fee for GCP-O&G in addition to the registration fee: www.env.nm.gov/air-quality/permit-fees-2/ (No annual fee for NOIs. (Facilities qualifying as a 'small business' under 20.2.75.7.F NMAC qualify for reduced fees, provided that NMED has a Small Business Certification Form from your company on file. This form can be found at: www.env.nm.gov/aqb/sbap/Small_Business_Forms.html)

☑ There are required attachments in addition to inputting data in the program. I will include the required attachments.

**1.** Is the facility located in Bernalillo County, on tribal lands, or in a nonattainment area?
○ Yes ◉ No

**2.** Is the facility's SIC code 1311, 1321, 4619, 4612 or 4922? (Other SIC codes may be approved provided that all the equipment at the facility is allowed in the GCP-Oil & Gas Permit. Non-Oil and Gas NOIs should use the paper Universal Application.
◉ Yes ○ No

**GCP-O&G Acknowledgements and Applicability**

Do not use Portal for administrative changes identified in the GCP O&G Permit Condition C101.A. Please use the Permitting Administrative Multiform to submit these requests to the department by mail. www.env.nm.gov/air-quality/air-quality-permit-applications-forms-and-related-information/

☑ The emissions specified in this Registration Form will establish the emission limits in the GCP-Oil and Gas.

**1.** This is a GCP-Oil and Gas Registration Form for an existing facility currently operating under GCP-1 or GCP-4? (No fee required)
◉ No ○ Yes

**2.** Does the regulated equipment under this GCP-Oil and Gas Registration include any combination of Allowable Equipment listed in Table 104 of the GCP Oil & Gas Permit, and no others?
◉ Yes ○ No

**3.** Will the regulated equipment as specified in this GCP-Oil and Gas Registration emit less than the total emissions in Table 106 of the GCP-Oil and Gas permit?
◉ Yes ○ No

**4.** Does all equipment comply with the stack parameter requirements as established in the GCP-Oil and Gas Permit?
◉ Yes ○ No

**5.** Equipment shall be at least 100 meters (m) from any stack to terrain that is five (5) or more meters above the top of the stack. Will the equipment at the facility meet this terrain requirement?
◉ Yes ○ No

**6.** Is the facility at least 150 m from any source that emits over 25 tons/year of NOx? This is the distance between the two nearest stacks that emit NOx at each of the facilities. Not the facility boundaries or the center to center distances.
◉ Yes ○ No

**7.** Is the facility at least 3 miles from any Class I area? This is the distance from the nearest facility boundary to the nearest boundary of the Class I area.
◉ Yes ○ No

New Mexico Environment Department
Air Quality Bureau
Permitting Section
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505-1816

Phone: (505) 476-4300
Fax: (505) 476-4375
www.env.nm.gov/air-quality/

**For Department use only:**

# Electronic Permitting Application

**Use this application for NOI and GCP-Oil and Gas Permits.**

Use this application for: the initial application, modifications, revisions and when converting from another permit type. Please fill out all sections so that they have check marks and attach all required documents for review. Coordination with AQB is encouraged for first time users. Please use the Request NMED Support button if you would like to set up a walk through.

## Section 1 - Facility Information

### Section 1-A: Company Information - Leo Thorsness Facility

**Last modified by Ikard, Kristin on 10-APR-23.**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | **Facility Name:** Leo Thorsness Facility | | | | AI # (if known): 38504 | Updating permit #: |
| a | SIC Code: 1311 - Crude petroleum and natural gas<br>NAICS Code: 21112 - Crude Petroleum Extraction<br>Facility Type: 146 - Oil & Gas  Secondary Facility Type: 272 - O&G-Production Facility | | | | Reset Selections | |
| 2 | **Company Name (Owns facility):** Matador Production Company | | | | Phone: 971-371-5472 | Fax: |
| a | Mailing Address: One Lincoln Centre | Address 2: 5400 LBJ Free | City: Dallas | State: Texas | ZIP Code: 75240 | |
| 3 | **Billing Party:** Matador Production Company<br>Select an organization | | | | Phone: 971-371-5472 | Fax: |
| a | Mailing Address: One Lincoln Centre | Address 2: 5400 LBJ Free | City: Dallas | State: Texas | ZIP Code: 75240 | |
| 4 | **Consultant Company:** MHT Consulting LLC<br>Select an organization | | | | Phone: 405-206-1455 | Fax: |
| a | Mailing Address: PO Box 351 | Address 2: | City: Piedmont | State: Oklahoma | ZIP Code: 73078 | |
| 5 | **Consultant Contact:**<br>First Name: Kristin  M.I.:  Last Name: Ikard  Title: Consultant | | | | Phone: 405-206-1455<br>Email: kristin@mhtconsulting.us | Fax: |
| a | Mailing Address: PO Box 351 | Address 2: | City: Piedmont | State: Oklahoma | ZIP Code: 73078 | |
| 6 | **Plant Operator Company:** Matador Production Company<br>Select an organization | | | | | |
| a | Plant Operator Company Address: One Lincoln Centre | Address 2: 5400 LBJ Free | City: Dallas | State: Texas | ZIP Code: 75240 | |
| b | **Plant Operator Contact:**<br>First Name: Casey  M.I.:  Last Name: Snow  Title: Operator | | | | Phone: 971-371-5200<br>Email: csnow@matadorresources.com | Fax: |
| c | Mailing Address: One Lincoln Centre | Address 2: 5400 LBJ Free | City: Dallas | State: Texas | ZIP Code: 75240 | |
| 7 | **Air Permit:** Select a person | | | | | |
| a | **Air Permit Contact:**<br>First Name: Kha  M.I.:  Last Name: Mach  Title: Engineer | | | | Phone: 972-371-5472<br>Email: kha.mach@matadorresources.com | Fax: |
| b | Mailing Address: 5400 LBJ Freeway | Address 2: Ste 1500 | City: Dallas | State: Texas | ZIP Code: 75240 | |

**Comments** (2000 character maximum)

**Section 1-C: Facility Input Capacity & Production Rate - Leo Thorsness Facility**
**Last modified by Ikard, Kristin on 10-APR-23.**

Enter the maximum hourly, daily, and annual throughput of oil, gas, natural gas liquids (NGL), and produced water.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | **OIL** | | | | | | | |
| a | Current: | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | 23.96 bbl/h | Daily: | 575 bbl/d | Annually: | 209875 | bbl/y |
| 2 | **Natural Gas** | | | | | | | |
| a | Current | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | 75 M SCF/h | Daily: | 1.80 MM SCF/d | Annually: | 657 | MM SCF/y |
| 3 | **Natural Gas Liquids** | | | | | | | |
| a | Current | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | | Daily: | | Annually: | | |
| 4 | **Produced Water** | | | | | | | |
| a | Current | Hourly: | | Daily: | | Annually: | | |
| b | Proposed | Hourly: | 58.33 bbl/h | Daily: | 1400 bbl/d | Annually: | 511000 | bbl/y |

**Comments** (2000 character maximum)

**Section 1-D: Facility Location Information - Leo Thorsness Facility**
**Last modified by Ikard, Kristin on 10-APR-23.**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Section: | Range: | Township: | County: Lea | Elevation (ft): 3608 |
| 2 | UTM Zone: ○ 12 or ◉ 13 | | | Datum: ○ NAD 27 ◉ NAD 83 ○ WGS 84 | |
| a | UTM E (in meters, to nearest 10 meters): 638135 | | | UTM N (in meters, to nearest 10 meters): 3566126 | |
| b | Latitude: 32.223267 dec deg. N | | | Longitude: -103.534069 dec deg. W | |
| 3 | Facility/Plant Address: | City: Jal | State: New Mexico | ZIP Code: 88252 | District: 004 Field Office: Select one |
| | (If no facility street address, leave blank) | | | | |
| 4 | The facility is 21.53 miles NW of Jal (nearest town). | | | | |
| 5 | Detailed Driving Instructions from nearest NM town (attach a road map if necessary): From Jal, NM, proceed northwest on NM-128 (W. Kansas Ave.) to Delaware Basin Rd. (approximately 21 miles). Continue traveling west beyond Delaware Basin Rd. for 1.65 mi to the unnamed road on the right. Turn right and travel 0.91 mi north and the facility is on the right; however, one must travel around the facility directly north to access the facility. | | | | |
| 6 | Status of land at facility: Private | | | | |
| 7 | Select nearest Class I area: Class I - Carlsbad Caverns National Park | | | | |
| 8 | Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 49.1 km | | | | |
| 9 | Is this a portable stationary source as defined in 20.2.72.7.X NMAC? ○ Yes ◉ No | | | | |
| 10 | Will this facility operate in conjunction with other air regulated parties on the same property? ○ Yes ◉ No<br>If yes, what is the name and permit number (if known) of the other facility? | | | | |

**Comments** (2000 character maximum)

## Section 1-E: Proposed Operating Schedule - Leo Thorsness Facility

**Last modified by Ikard, Kristin on 10-APR-23.**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Facility **maximum** operating (hours/day): 24 | days/week: 7 | weeks/year: 52 | hours/year: 8760 | |
| 2 | Facility's maximum daily operating schedule (if less than 24 hours/day)? Start Time: | | End Time: | | |
| 3 | Month and year of anticipated start of construction (mm/yyyy): | | | | |
| 4 | Month and year of anticipated construction completion (mm/yyyy): | | | | |
| 5 | Month and year of anticipated startup of new or modified facility (mm/yyyy): | | | | |
| 6 | Will this facility operate at this site for more than one year? ◉ Yes ○ No | | | | |

The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.

**Comments** (2000 character maximum)

**Last modified by Ikard, Kristin on 10-APR-23.**

| **Section 1-F - Current Facility Status - Leo Thorsness Facility** | | | |
|---|---|---|---|
| 1 | Has this Facility already been constructed?<br>(•) Yes ( ) No | If yes, is it currently operating in New Mexico?<br>(•) Yes ( ) No | |
| 2 | Does this facility currently have a construction permit or Notice of Intent (NOI) (20.2.72 NMAC or 20.2.73 NMAC)?<br>(•) Yes ( ) No | If yes, the permit No or NOI No:<br>7899 | Will it remain active or not:<br>(•) Yes ( ) No |
| 3 | Is this Registration in response to a Notice of Violation (NOV)?<br>( ) Yes (•) No<br>If so, provide current permit #: | If yes,NOV date: | NOV tracking No: |
| 4 | Facility is Synthetic Minor Source | | |

**Comments** (2000 character maximum)

## Table 2-A: Regulated Emission Sources

| Edit | NMED SI ID | Category Type | NMED SI Status | Unit Number[1] | Source Description | Manufacturer | Model # | Serial # | Rated Capacity[3] | Permitted Capacity[3] | Date[2] of Manufacture or Reconstruction / Date[2] of Installation /Construction | Controlled by Unit # Emissions vented to Stack # | Source Classification Code (SCC) | Disposition | Applicable State & Federal Regulation(s) (i.3. 20.x.x, JJJJ, ...) | Complete | Replicate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | EQPT-2 | Equipment Internal combustion engine | Active 08/28/2020 | ENG-2 | Cummins G855, 188 HP | Cummins | G855 | 25404106 | | 1800.00 rpm | 02/01/15 02/01/15 | | 2-02-002-53 | To Be Replaced | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-3 | Equipment Internal combustion engine | Active 08/28/2020 | ENG-5 | Caterpillar G3306, 203 HP | Caterpillar | G3306 | G6X04164 | 203.00 hp | 203.00 hp | 08/01/08 08/01/14 | C-5 | 2-02-002-53 | Existing (unchanged) | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | EQPT-4 | Equipment Internal combustion engine | Active 08/28/2020 | ENG-6 | Caterpillar G3406NA, 215hp | Caterpillar | G3406NA | 4FD04111 | 215 hp | 215 hp | 10/01/11 10/01/21 | C-6 | 2-02-002-53 | Existing (unchanged) | 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ | ☑ | Replicate |
| Edit | EQPT-24 | Equipment Process Flare | Active 08/28/2020 | FL-1 HP | HP Flare 6 MMscfd | ICT Energy Solutions | 6MM | ICT-1203 | 6.00 MM SCF/d | 6.00 MM SCF/d | 01/01/18 | | 3-10-001-60 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-25 | Equipment Process Flare | Active 08/28/2020 | FL-1 LP | LP Flare 0.2MMscfd | ICT Energy Solutions | FL-LP | ICT-1203 | 0.20 MM SCF/d | 0.20 MM SCF/d | 01/01/18 | | 3-10-001-60 | To Be Revised | NA | ☑ | Replicate |
| Edit | RPNT-1 | Release Point Fugitives | Active 08/28/2020 | FUG-1 | Fugitives | NA | NA | NA | | | | | 3-10-888-11 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-5 | Equipment Internal combustion engine | Active 08/28/2020 | GEN-1 | PSI 390 HP generator | Power Solutions Intl | 14L | EZZOG802061 | 390.00 hp | 390.00 hp | 06/08/18 06/08/18 | C-1 | 2-02-002-53 | Existing (unchanged) | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |
| Edit | AREA-1 | Area Roads | Active 08/28/2020 | HR-1 | haul road | N/A | N/A | N/A | | | | | 3-10-888-11 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-6 | Equipment Heater Treater/Stack Pak | Active 08/28/2020 | HT-1 | Heater Treater, 0.5 MMBtu/hr | Global Vessel | TBD | LV6880 | 0.50 MM BTU/h | 0.50 MM BTU/h | 01/01/17 | | 3-10-004-04 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-7 | Equipment Heater Treater/Stack Pak | Active 08/28/2020 | HT-2 | Heater Treater, 0.5 MMBtu/hr | Ignite | N/A | ICT-1751 | 0.50 MM BTU/h | 0.50 MM BTU/h | 01/01/17 | | 3-10-004-04 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | RPNT-3 | Release Point Fugitives | Active 09/29/2021 | MALF | Malfunctions | N/A | N/A | N/A | | | | | 3-10-888-11 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-14 | Equipment Loading/Unloading Rack | Active 08/28/2020 | OLOAD-1 | Oil Truck Loading-1 | NA | NA | NA | 8814750 gal/y | 8814750 gal/y | | | 4-04-002-50 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-8 | Equipment Tank - Above Ground | Active 08/28/2020 | OT-1 | Oil Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000087 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-9 | Equipment Tank - Above Ground | Active 08/28/2020 | OT-2 | Oil Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000092 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-10 | Equipment Tank - Above Ground | Active 08/28/2020 | OT-3 | Oil Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000086 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-11 | Equipment Tank - Above Ground | Active 08/28/2020 | OT-4 | Oil Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000097 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-12 | Equipment Tank - Above Ground | Active 08/28/2020 | OT-5 | Oil Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000193 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-13 | Equipment Tank - Above Ground | Active 08/28/2020 | OT-6 | Oil Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000333 | 400.00 bbl | 400.00 bbl | 01/01/18 | | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-22 | Equipment Pump | Active 08/28/2020 | PP- 1 | Transfer Pump 1 | N/A | N/A | N/A | | | | | 3-10-888-11 | Existing (unchanged) | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-21 | Equipment Loading/Unloading Rack | Active 08/28/2020 | PWLOAD-1 | Produced Water Truck Loading-1 | NA | NA | NA | 21462000.00 gal/y | 21462000.00 gal/y | | | 4-04-002-50 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-15 | Equipment Tank - Above Ground | Active 08/28/2020 | PWT-1 | Produced Water Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000085 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-16 | Equipment Tank - Above Ground | Active 08/28/2020 | PWT-2 | Produced Water Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000073 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-17 | Equipment Tank - Above Ground | Active 08/28/2020 | PWT-3 | Produced Water Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000064 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-18 | Equipment Tank - Above Ground | Active 08/28/2020 | PWT-4 | Produced Water Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000095 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-19 | Equipment Tank - Above Ground | Active 08/28/2020 | PWT-5 | Produced Water Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000205 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-20 | Equipment Tank - Above Ground | Active 08/28/2020 | PWT-6 | Produced Water Tank 400 bbl | Steelmation | 400-bbl | P-000-323-740-000328 | 400.00 bbl | 400 bbl | 01/01/18 | | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | RPNT-2 | Release Point Fugitives | Active 08/28/2020 | SSM-1 | SSM | NA | NA | NA | | | | | 3-10-888-11 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-0 | Equipment Internal combustion engine | New | ENG-2 | Caterpillar G3406NA, 215hp | Caterpillar | G3406NA | TBD | 215.00 hp | 215.00 hp | | C-2 | 2-02-002-53 | Replacement Unit | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart JJJJ | ☑ | Replicate |

Add a New Regulated Source

[1] Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.

[2] Specify dates required to determine regulatory applicability. If only year or month is known use 01/01/yyyy or mm/01/yyyy.

[3] To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

## Table 2C - Emissions Reduction Equipment

☐ **This Table was intentionally left blank.**

In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions. **Also include reductions from process equipment in this table. Entering process equipment in this table is for data entry purposes only, the process vs control analysis will be used to determine process or control status for VRUs.** Only list control equipment for TAPs if the TAPs maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B.

| Edit | Reduction Equipment Unit No. | Reduction Equipment Description | Date Installed (mm/dd/yyyy). | Reduced Pollutants | Reducing Emissions for Unit Numbers | Efficiency (% Reduction by Weight) | Method used to estimate reduction | Reduction Type | Complete |
|---|---|---|---|---|---|---|---|---|---|
| Edit | C-5 | NSCR (Non-Selective Catalytic Reduction) | | Carbon Monoxide | ENG-5 | 86 | Design calculation | PRIMARY | ☑ |
| Edit | C-5 | NSCR (Non-Selective Catalytic Reduction) | | Volatile Organic Compounds (VOC) | ENG-5 | 0 | Design calculation | PRIMARY | ☑ |
| Edit | C-5 | NSCR (Non-Selective Catalytic Reduction) | | Nitrogen Dioxide | ENG-5 | 93 | Design calculation | PRIMARY | ☑ |
| Edit | C-6 | NSCR (Non-Selective Catalytic Reduction) | | Nitrogen Dioxide | ENG-6 | 94 | Design calculation | PRIMARY | ☑ |
| Edit | C-6 | NSCR (Non-Selective Catalytic Reduction) | | Carbon Monoxide | ENG-6 | 88 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | FL-1 HP | 98.0 | Design calculation | PRIMARY | |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | FL-1 LP | 98.0 | Design calculation | PRIMARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | OLOAD-1 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | OT-1 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | OT-1 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | OT-2 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | OT-2 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | OT-3 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | OT-3 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | OT-4 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | OT-4 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | OT-5 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | OT-5 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | OT-6 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | OT-6 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | PP- 1 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | PWLOAD-1 | | Design calculation | PRIMARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | PWT-1 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | PWT-1 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | PWT-2 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | PWT-2 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | PWT-3 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | PWT-3 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | PWT-4 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | PWT-4 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | PWT-5 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | PWT-5 | 98 | Design calculation | SECONDARY | |
| Edit | FL-1 LP | Flare | | Volatile Organic Compounds (VOC) | PWT-6 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | | Flare | | Volatile Organic Compounds (VOC) | PWT-6 | 98 | Design calculation | SECONDARY | |
| Edit | C-2 | NSCR (Non-Selective Catalytic Reduction) | | Carbon Monoxide | ENG-2 | 88 | Design calculation | PRIMARY | ☑ |
| Edit | C-2 | NSCR (Non-Selective Catalytic Reduction) | | Nitrogen Dioxide | ENG-2 | 94 | Design calculation | PRIMARY | ☑ |

Add Reduction Equipment for Unit [Select one] Add

How to complete the table: In the drop down, select regulated sources from Table 2A where emissions are reduced and click "Add." Then add reduced pollutants and associated reduction devices for each. If a pollutant has emissions reduced by more than one device please add a line for each device and label them as primary, secondary, tertiary. Click "Edit" to update reduced pollutants and devices for each regulated source.

Comments (4000 character maximum)

**List each reduction device and all sources they serve, e.g. FL-1: Oil tanks 1-4, loading, VRU downtime. FL-2: compressor and sales downtime. For NOIs, indicate the enforceability behind each device or clarify if it is voluntary and no credit is being claimed for the reduction, e.g., FL-1: Oil tanks 1-8 (OOOOa). FL-1: Loading (voluntary, no emissions reduction credit claimed.)**

ENG-2, ENG-5, ENG-6: NSCR; NOx, CO, VOC
GEN-1: NSCR; NOx, CO, VOC (EPA-certified so no control % shown)
FL-1 LP: OT-1 ¿ OT-6, PWT-1 ¿ PWT-6, PP-1, OLOAD-1; VOC
FL-1 HP: Stranded Gas; VOC
VRU: there is an electric VRU off the tanks but no control is shown

## *Table 2-D: Maximum Emissions* (under normal operating conditions)

**This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | **EQPT-3** | **Active 08/28/2020** | ENG-5 | 6.52 | 28.56 | 6.52 | 28.56 | 0.37 | 1.61 | 0.0006 | 0.003 | 0.01 | 0.06 | 0.01 | 0.06 | - | - | - | - | ☑ |
| Edit | **EQPT-4** | **Active 08/28/2020** | ENG-6 | 7.62 | 33.36 | 7.62 | 33.36 | 0.47 | 2.04 | 0.0007 | 0.003 | 0.02 | 0.07 | 0.02 | 0.07 | - | - | - | - | ☑ |
| Edit | **EQPT-24** | **Active 08/28/2020** | FL-1 HP | 0.0142 | 0.0623 | 0.0648 | 0.284 | 5070.61 | 887.36 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-25** | **Active 08/28/2020** | FL-1 LP | 0.0142 | 0.0623 | 0.0648 | 0.284 | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **RPNT-1** | **Active 08/28/2020** | FUG-1 | - | - | - | - | 2.47 | 10.84 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-5** | **Active 08/28/2020** | GEN-1 | 0.86 | 3.77 | 1.72 | 7.53 | 0.70 | 3.08 | 0.002 | 0.008 | 0.04 | 0.18 | 0.04 | 0.18 | - | - | - | - | ☑ |
| Edit | **AREA-1** | **Active 08/28/2020** | HR-1 | - | - | - | - | - | - | - | - | 1.05 | 0.74 | 0.11 | 0.08 | - | - | - | - | ☑ |
| Edit | **EQPT-6** | **Active 08/28/2020** | HT-1 | 0.049 | 0.215 | 0.041 | 0.18 | 0.003 | 0.013 | - | - | 0.004 | 0.018 | 0.004 | 0.018 | - | - | - | - | ☑ |
| Edit | **EQPT-7** | **Active 08/28/2020** | HT-2 | 0.049 | 0.215 | 0.041 | 0.18 | 0.003 | 0.013 | - | - | 0.004 | 0.018 | 0.004 | 0.018 | - | - | - | - | ☑ |
| Edit | **RPNT-3** | **Active 09/29/2021** | MALF | - | - | - | - | - | 10 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-14** | **Active 08/28/2020** | OLOAD-1 | - | - | - | - | 83.68 | 34.19 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-8** | **Active 08/28/2020** | OT-1 | - | - | - | - | 17.66 | 77.35 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-9** | **Active 08/28/2020** | OT-2 | - | - | - | - | 17.66 | 77.35 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-10** | **Active 08/28/2020** | OT-3 | - | - | - | - | 17.66 | 77.35 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-11** | **Active 08/28/2020** | OT-4 | - | - | - | - | 17.66 | 77.35 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-12** | **Active 08/28/2020** | OT-5 | - | - | - | - | 17.66 | 77.35 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-13** | **Active 08/28/2020** | OT-6 | - | - | - | - | 17.66 | 77.35 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-22** | **Active 08/28/2020** | PP- 1 | - | - | - | - | 1.95 | 8.53 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-21** | **Active 08/28/2020** | PWLOAD-1 | - | - | - | - | 0.02 | 0.02 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-15** | **Active 08/28/2020** | PWT-1 | - | - | - | - | 0.91 | 3.98 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-16** | **Active 08/28/2020** | PWT-2 | - | - | - | - | 0.91 | 3.98 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-17** | **Active 08/28/2020** | PWT-3 | - | - | - | - | 0.91 | 3.98 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-18** | **Active 08/28/2020** | PWT-4 | - | - | - | - | 0.91 | 3.98 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-19** | **Active 08/28/2020** | PWT-5 | - | - | - | - | 0.91 | 3.98 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-20** | **Active 08/28/2020** | PWT-6 | - | - | - | - | 0.91 | 3.98 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **RPNT-2** | **Active 08/28/2020** | SSM-1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **new** | **New** | ENG-2 | 7.62 | 33.36 | 7.62 | 33.36 | 0.47 | 2.04 | 0.0007 | 0.003 | 0.02 | 0.07 | 0.02 | 0.07 | - | - | - | - | ☑ |
| | | | **Totals** | 22.75 | 99.6 | 23.69 | 103.74 | 5272.17 | 1447.72 | 0.0 | 0.02 | 1.15 | 1.16 | 0.21 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | |

[1] **Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**Comments** (2000 character maximum)

## Table 2-E: Requested Allowable Emissions

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Facility totals are a summation of all the emissions entered for equipment in this table plus total tpy SSM emissions from Table 2F.

**GCP-O&G:** Combustion emissions from malfunction events are not allowed under this permit.

**NOI:** Malfunction emissions are not allowed under a Notice of Intent.

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | EQPT-3 | Active 08/28/2020 | ENG-5 | 0.45 | 1.96 | 0.9 | 3.92 | 0.37 | 1.61 | 0.0006 | 0.003 | 0.01 | 0.06 | 0.01 | 0.06 | - | - | - | - | ☑ |
| Edit | EQPT-4 | Active 08/28/2020 | ENG-6 | 0.47 | 2.08 | 0.95 | 4.15 | 0.47 | 2.04 | 0.0007 | 0.003 | 0.02 | 0.07 | 0.02 | 0.07 | - | - | - | - | ☑ |
| Edit | EQPT-24 | Active 08/28/2020 | FL-1 HP | 21.5192 | 3.888 | 98.1023 | 17.7249 | 101.48 | 18.03 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-25 | Active 08/28/2020 | FL-1 LP | 0.2407 | 1.206 | 1.0973 | 5.4977 | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | RPNT-1 | Active 08/28/2020 | FUG-1 | - | - | - | - | 2.47 | 10.84 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-5 | Active 08/28/2020 | GEN-1 | 0.86 | 3.77 | 1.72 | 7.53 | 0.70 | 3.08 | 0.002 | 0.008 | 0.04 | 0.18 | 0.04 | 0.18 | - | - | - | - | ☑ |
| Edit | AREA-1 | Active 08/28/2020 | HR-1 | - | - | - | - | - | - | - | - | 1.05 | 0.74 | 0.11 | 0.08 | - | - | - | - | ☑ |
| Edit | EQPT-6 | Active 08/28/2020 | HT-1 | 0.049 | 0.215 | 0.041 | 0.18 | 0.003 | 0.013 | - | - | 0.004 | 0.018 | 0.004 | 0.018 | - | - | - | - | ☑ |
| Edit | EQPT-7 | Active 08/28/2020 | HT-2 | 0.049 | 0.215 | 0.041 | 0.18 | 0.003 | 0.013 | - | - | 0.004 | 0.018 | 0.004 | 0.018 | - | - | - | - | ☑ |
| Edit | RPNT-3 | Active 09/29/2021 | MALF | - | - | - | - | - | 10 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-14 | Active 08/28/2020 | OLOAD-1 | - | - | - | - | 3.31 | 1.35 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-8 | Active 08/28/2020 | OT-1 | - | - | - | - | 0.70 | 3.06 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-9 | Active 08/28/2020 | OT-2 | - | - | - | - | 0.70 | 3.06 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-10 | Active 08/28/2020 | OT-3 | - | - | - | - | 0.70 | 3.06 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-11 | Active 08/28/2020 | OT-4 | - | - | - | - | 0.70 | 3.06 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-12 | Active 08/28/2020 | OT-5 | - | - | - | - | 0.70 | 3.06 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-13 | Active 08/28/2020 | OT-6 | - | - | - | - | 0.70 | 3.06 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-22 | Active 08/28/2020 | PP- 1 | - | - | - | - | 0.1 | 0.46 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-21 | Active 08/28/2020 | PWLOAD-1 | - | - | - | - | 0.02 | 0.02 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-15 | Active 08/28/2020 | PWT-1 | - | - | - | - | 0.03 | 0.16 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-16 | Active 08/28/2020 | PWT-2 | - | - | - | - | 0.03 | 0.16 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-17 | Active 08/28/2020 | PWT-3 | - | - | - | - | 0.03 | 0.16 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-18 | Active 08/28/2020 | PWT-4 | - | - | - | - | 0.03 | 0.16 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-19 | Active 08/28/2020 | PWT-5 | - | - | - | - | 0.03 | 0.16 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-20 | Active 08/28/2020 | PWT-6 | - | - | - | - | 0.03 | 0.16 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | RPNT-2 | Active 08/28/2020 | SSM-1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | new | New | ENG-2 | 0.47 | 2.08 | 0.95 | 4.15 | 0.47 | 2.04 | 0.0007 | 0.003 | 0.02 | 0.07 | 0.02 | 0.07 | - | - | - | - | ☑ |
| | | | SSM Totals | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | Totals | 24.11 | 15.41 | 103.8 | 43.33 | 113.78 | 78.82 | 0.0 | 0.02 | 1.15 | 1.16 | 0.21 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | |

[1]**Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**Comments** (2000 character maximum)

## Table 2-F: Startup, Shutdown, and Routine Maintenance (SSM) Emissions

☐ **This table is intentionally left blank as all SSM emissions at this facility do not require an increase in Requested Allowables greater than those listed in Table 2-E.**

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)2, including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). Provide emissions calculations for all SSM emissions reported in this table. Refer to the guidance "Startup, Shutdown, Maintenance Emissions in Permits" (www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | **EQPT-3** | **Active 08/28/2020** | ENG-5 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-4** | **Active 08/28/2020** | ENG-6 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-24** | **Active 08/28/2020** | FL-1 HP | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-25** | **Active 08/28/2020** | FL-1 LP | | | | | | | | | | | | | | | | | ☑ |
| Edit | **RPNT-1** | **Active 08/28/2020** | FUG-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-5** | **Active 08/28/2020** | GEN-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **AREA-1** | **Active 08/28/2020** | HR-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-6** | **Active 08/28/2020** | HT-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-7** | **Active 08/28/2020** | HT-2 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **RPNT-3** | **Active 09/29/2021** | MALF | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-14** | **Active 08/28/2020** | OLOAD-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-8** | **Active 08/28/2020** | OT-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-9** | **Active 08/28/2020** | OT-2 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-10** | **Active 08/28/2020** | OT-3 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-11** | **Active 08/28/2020** | OT-4 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-12** | **Active 08/28/2020** | OT-5 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-13** | **Active 08/28/2020** | OT-6 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-22** | **Active 08/28/2020** | PP- 1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-21** | **Active 08/28/2020** | PWLOAD-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-15** | **Active 08/28/2020** | PWT-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-16** | **Active 08/28/2020** | PWT-2 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-17** | **Active 08/28/2020** | PWT-3 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-18** | **Active 08/28/2020** | PWT-4 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-19** | **Active 08/28/2020** | PWT-5 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **EQPT-20** | **Active 08/28/2020** | PWT-6 | | | | | | | | | | | | | | | | | ☑ |
| Edit | **RPNT-2** | **Active 08/28/2020** | SSM-1 | - | - | - | - | - | 10 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **new** | **New** | ENG-2 | | | | | | | | | | | | | | | | | ☑ |
| | | | **Totals** | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

**[1]Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**[2]For instance, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in the table below. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.**

**Comments** (2000 character maximum)

## Table 2-H: Stack Exit Conditions

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Please enter the stack information for the original source, not the control or reduction equipment.

For equipment that doesn't have an actual stack or fugitive stack please just list it as having a default fugitive stack with a height of 10 ft. This field is required by our database.

| Edit | Stack Description | Unit number | Orientation (H=Horizontal V=Vertical) | Rain Caps (Yes or No) | Height Above Ground (ft) | Temp. (F) | Flow Rate (acfs) | Flow Rate (dscfs) | Moisture by Volume (%) | Velocity (ft/sec) | Inside Diameter (ft) | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | Caterpillar G3306 203hp | ENG-5 | Vertical | No | 15 | 1126 | 15.78 | | | 184.54 | 0.33 | ☑ |
| Edit | Caterpillar 215 hp | ENG-6 | Vertical | No | 8.2 | 1158 | 17.08 | | | 241.68 | 0.3 | ☑ |
| Edit | Flare-1 high pressure | FL-1 HP | Vertical | No | 45 | 1000 | 19 | | | 353.07 | 0.5 | ☑ |
| Edit | Flare-LP | FL-1 LP | Vertical | No | 46.33 | 1000 | 1 | | | 5.01 | 0.18 | ☑ |
| Edit | FUG | FUG-1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | GEN-1 | GEN-1 | Vertical | No | 10 | 1350 | 31.58 | | | 369.27 | 0.33 | ☑ |
| Edit | haul roads | HR-1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | HT-1 | HT-1 | Vertical | No | 20 | 300 | 15 | | | 6.86 | 0.67 | ☑ |
| Edit | HT-2 | HT-2 | Vertical | No | 20 | 300 | 15 | | | 6.86 | 0.67 | ☑ |
| Edit | Malf | MALF | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | Oil Loading | OLOAD-1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | OT-1 to 6 | OT-1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | OT-1 to 6 | OT-2 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | OT-1 to 6 | OT-3 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | OT-1 to 6 | OT-4 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | OT-1 to 6 | OT-5 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | OT-1 to 6 | OT-6 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | Transfer Pump 1 | PP- 1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | PW Truck Loading | PWLOAD-1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | PWT-1 to 6 | PWT-1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | PWT-1 to 6 | PWT-2 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | PWT-1 to 6 | PWT-3 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | PWT-1 to 6 | PWT-4 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | PWT-1 to 6 | PWT-5 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | PWT-1 to 6 | PWT-6 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | SSM | SSM-1 | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | ENG-2 | ENG-2 | Vertical | No | 8.2 | 1158 | 17.08 | | | 241.68 | 0.3 | ☑ |

Add Stack Conditions to Select one Add

**Comments** (2000 character maximum)

## Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

☐ **By marking this table as intentionally left blank, you certify that the Total and individual HAPs for this facility are less than 1 ton per year.**

Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.

**GCPs:** Report the potential emission rate for each HAP from each HAP emitting emission unit listed in Table 2A. For each emission unit, HAPs shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Emissions less than 0.0001 lb/hr or 0.0001 tpy and emission units that do not emit HAPs shall be omitted from the table. Each facility-wide Individual HAP total and the facility-wide Total HAPs is the sum of all HAP sources entered in the Table. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAA. Include tank-flashing emission estimates of HAP in this table.

**NOIs:** Report the individual and/or Total HAPs for each piece of equipment in Table 2A, only if the facility total for that pollutant is greater than or equal to 1 tpy.

| Edit | Unit No. | Total HAPs | | Formaldehyde HAP | | Benzene HAP | | Toluene; (Methyl benzene) HAP | | Xylenes (total); (Xylol) HAP | | | | | | | | | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | ENG-5 | 0.07 | 0.29 | 0.05 | 0.22 | | | | | | | | | | | | | | | ☑ |
| Edit | ENG-6 | 0.15 | 0.64 | 0.128 | 0.56 | | | | | | | | | | | | | | | ☑ |
| Edit | FL-1 HP | 6.29 | 1.12 | | | 1.28 | 0.23 | 1.30 | 0.23 | 0.31 | 0.05 | | | | | | | | | ☑ |
| Edit | FL-1 LP | 0.12 | 0.53 | | | | | | | | | | | | | | | | | ☑ |
| Edit | FUG-1 | 0.2 | 0.85 | | | 0.029 | 0.123 | | | | | | | | | | | | | ☑ |
| Edit | GEN-1 | 0.13 | 0.58 | 0.09 | 0.38 | | | | | | | | | | | | | | | ☑ |
| Edit | OT-1 | 0.07 | 0.31 | | | | | | | | | | | | | | | | | ☑ |
| Edit | OT-2 | 0.07 | 0.31 | | | | | | | | | | | | | | | | | ☑ |
| Edit | OT-3 | 0.07 | 0.31 | | | | | | | | | | | | | | | | | ☑ |
| Edit | OT-4 | 0.07 | 0.31 | | | | | | | | | | | | | | | | | ☑ |
| Edit | OT-5 | 0.07 | 0.31 | | | | | | | | | | | | | | | | | ☑ |
| Edit | OT-6 | 0.07 | 0.31 | | | | | | | | | | | | | | | | | ☑ |
| Edit | SSM-1 | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | ENG-2 | 0.15 | 0.64 | 0.128 | 0.56 | | | | | | | | | | | | | | | ☑ |
| | **Totals** | 7.53 | 6.51 | 0.4 | 1.72 | 1.31 | 0.35 | 1.3 | 0.23 | 0.31 | 0.05 | | | | | | | | | |

Add Stack Emissions to Select one Add

**Comments** (2000 character maximum)

## Table 2-J: Fuel Usage

☐ **This Table was intentionally left blank.**

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Specify fuel characteristics and usage. This information should be for fuel used to operate the equipment (e.g. the pilot) not the amount of gas or fuel processed.

| Edit | Unit No. | Fuel Type (No. 2 Diesel, Natural Gas, Coal, ...) | Specify Units | | | | | Complete |
|---|---|---|---|---|---|---|---|---|
| | | | Lower Heating Value | Hourly Usage | Annual Usage (maximum) | % Sulfur | % Ash | |
| Edit | ENG-5 | Natural Gas | 1398 BTU/SCF | | 9.67 MM SCF/y | | | ☑ |
| Edit | ENG-6 | Natural Gas | 1398 BTU/SCF | | 10.75 MM SCF/y | | | ☑ |
| Edit | FL-1 HP | Natural Gas | 1265 BTU/SCF | | 88.95 MM SCF/y | | | ☑ |
| Edit | FL-1 LP | Natural Gas | 1991 BTU/SCF | | 17.201 MM SCF/y | | | ☑ |
| Edit | GEN-1 | Natural Gas | 1389 BTU/SCF | | 27.03 MM SCF/y | | | ☑ |
| Edit | HT-1 | Natural Gas | 1020 BTU/SCF | | 0.71 MM SCF/y | | | ☑ |
| Edit | HT-2 | Natural Gas | 1020 BTU/SCF | | 0.71 MM SCF/y | | | ☑ |
| Edit | ENG-2 | Natural Gas | 1398 BTU/SCF | | 10.75 MM SCF/y | | | ☑ |

**Comments** (2000 character maximum)

## Table 2-L: Tank Data

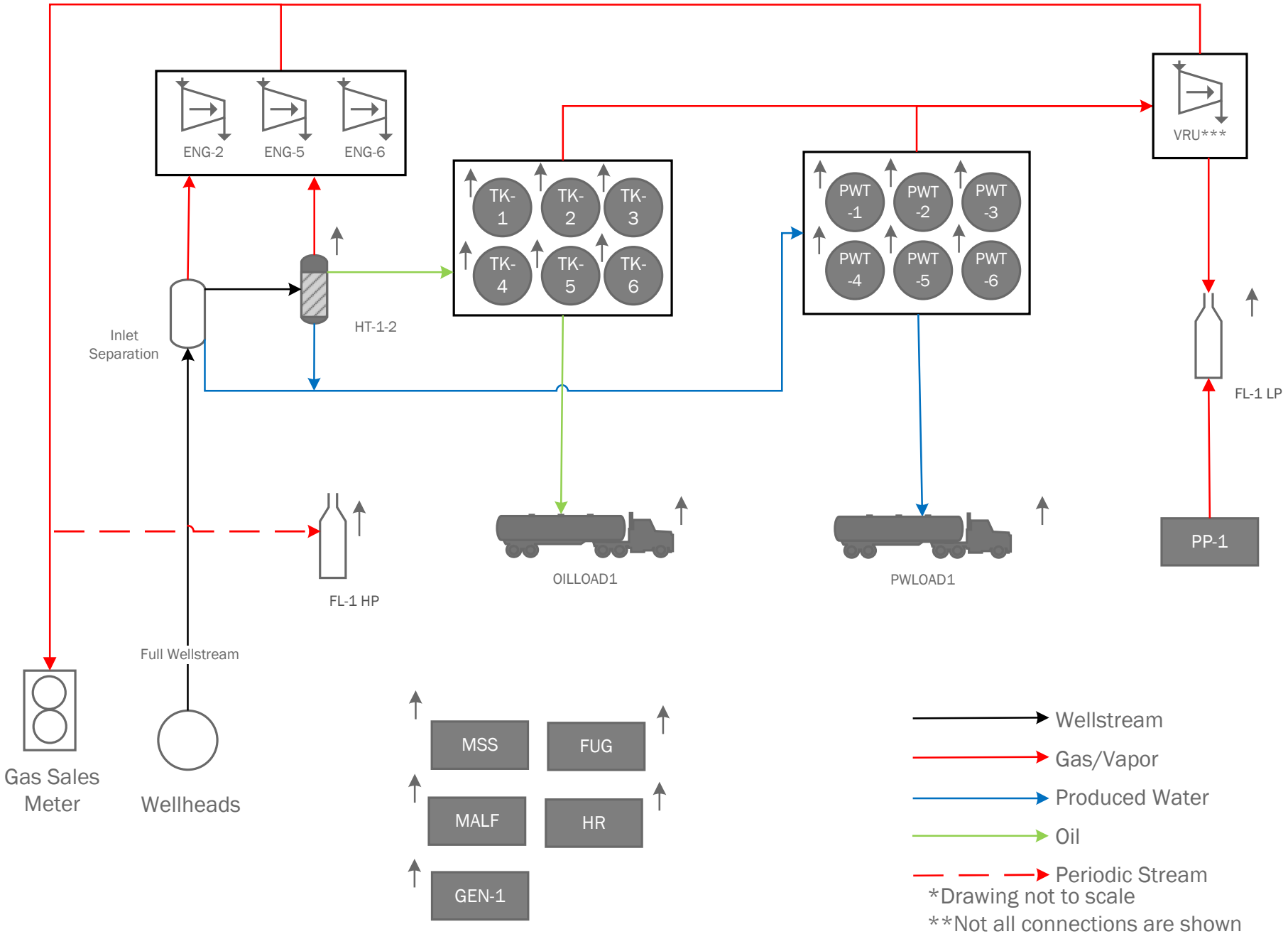
**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Include appropriate tank-flashing modeling input data. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

| Edit | Unit No. | Date Installed | Materials Stored | Seal Type (refer to Table 2-LR) | Roof Type (refer to Table 2-LR) | Capacity | | Diameter (M) | Vapor Space (M) | Color (from Table VI-C) | | Paint Condition (from Table VI-C) | Annual Throughput (gal/yr) | Turn-overs (per year) | Completed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | (bbl) | ($M^3$) | | | Roof | Shell | | | | |
| Edit | OT-1 | 01/01/2018 | Crude Oil | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 1469125 | 96.46 | ☑ |
| Edit | OT-2 | 01/01/2018 | Crude Oil | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 1469125 | 96.46 | ☑ |
| Edit | OT-3 | 01/01/2018 | Crude Oil | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 1469125 | 96.46 | ☑ |
| Edit | OT-4 | 01/01/2018 | Crude Oil | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 1469125 | 96.46 | ☑ |
| Edit | OT-5 | 01/01/2018 | Crude Oil | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 1469125 | 96.46 | ☑ |
| Edit | OT-6 | 01/01/2018 | Crude Oil | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 1469125 | 96.46 | ☑ |
| Edit | PWT-1 | 01/01/2018 | Produced Water | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 3577000 | 234.86 | ☑ |
| Edit | PWT-2 | 01/01/2018 | Produced Water | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 3577000 | 234.86 | ☑ |
| Edit | PWT-3 | 01/01/2018 | Produced Water | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 3577000 | 234.86 | ☑ |
| Edit | PWT-4 | 01/01/2018 | Produced Water | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 3577000 | 234.86 | ☑ |
| Edit | PWT-5 | 01/01/2018 | Produced Water | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 3577000 | 234.86 | ☑ |
| Edit | PWT-6 | 01/01/2018 | Produced Water | | Vertical - Fixed Roof | 400.00 bbl | | 3.66 | | | | | 3577000 | 234.86 | ☑ |

**Comments** (2000 character maximum)

# Leo Thorsness Facility - Process Flow Sheet



# GCP-Oil and Gas AQB ePermitting Portal Registration Form
# Section 1- (ePermitting Portal submittals)

☒ I understand that I must submit the hard copy check with the required Payment Form for all AQB ePermitting Portal submittals. The 30-day review period will not begin until the check is received. (Does not apply if you are converting from a GCP-1 or GCP-4.) Form available: www.env.nm.gov/air-quality/aqb-epermitting-portal/

☒ I will upload this form to submit via the Portal. I understand that certain pages may be deleted by following instructions on this form, to avoid repeating information I entered directly into the Portal or uploaded separately.

☒ Attach only the electronic copy of the permit with the Department response, do not mail a paper copy. (If box is not checked, a paper copy of the permit will be sent with your response letter.)

**Facility Name or Facility Type Change for Modifications**
Fill out this section if requesting a change to the facility name or facility type that appears in the ePermitting Portal. These items cannot be updated through the Portal and will be corrected as part of the review of your permit. Check the appropriate box(es) and provide complete information in the table.

☒ **Not applicable**

☐ 1. Changing facility name. (Punctuation and special characters not allowed. Use “No123” instead of #123)

☐ 2. Changing facility type.

| | | | |
|---|---|---|---|
| **1a** | **Current Facility Name:** | **1b** | **New Facility Name:** |
| **2a** | **Current Facility Type:**<br>☐ Production Site<br>☐ Tank Battery<br>☐ Compressor Station<br>☐ Natural Gas Plant<br>☐ Reinjection facility<br>☐ Well head<br>☐ Misc Oil and Gas<br>☐ Amine Plant<br>☐ Energy Support Facility<br>☐ Other, please specify:_____ | **2b** | **New Facility Type:**<br>☐ Production Site<br>☐ Tank Battery<br>☐ Compressor Station<br>☐ Natural Gas Plant<br>☐ Reinjection facility<br>☐ Well head<br>☐ Misc Oil and Gas<br>☐ Amine Plant<br>☐ Energy Support Facility |

# Section 2- (ePermitting Portal submittals)

**Table 2-B: Exempted Equipment** (20.2.72 NMAC)

All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 202.B.5 "similar functions" units, operations, and activities in Section 5, Calculations. Unit & stack numbering must be consistent throughout the application package.

| Unit Number | Source Description | Manufacturer | Model No / Serial No | Max Capacity / Capacity Units | List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) | Date of Manufacture /Reconstruction1 / Date of Installation /Construction | For Each Piece of Equipment, Check One | |
|---|---|---|---|---|---|---|---|---|
| N/A | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |
| | | | | | | | ☐ Existing (unchanged)<br>☐ New/Additional<br>☐ To Be Modified | ☐ To be Removed<br>☐ Replacement Unit<br>☐ To be Replaced |

# Section 3
## Registration Summary

---

**Registration Summary:** The purpose of this submittal is to replace one engine (C-2) and update with new gas and liquid analyses. The representative sample is from a geographically nearby well from the same producing formation (within 25 miles) and was collected at a higher pressure than this facility's tanks' upstream pressure. This permitted facility produces within +/- 3 degrees of the API gravity at the stock tanks compared to the representative sample.

**Written description of the routine operations of the facility:** The full well stream enters the facility and passes through inlet separation where liquids and gas are separated by mechanical processes. Remaining fluids are piped through additional separation (HT-1, HT-2) where separated oil is directed to storage tanks (OT-1 - OT-6). The natural gas from the separators and heater treaters is sent to a series of compressors (ENG-2, ENG-5, ENG-6) and then to sales via pipeline. Produced water from the heater treaters is directed to onsite storage tanks (PWT-1 - PWT-6) until they can be transported offsite. Oil and produced water are loaded and trucked offsite (OLOAD-1, PWLOAD-1) (HR). Vapors produced in the storage tanks are directed to the low pressure flare (FL-1 LP) for combustion. Stranded gas from the separators and heater treaters is controlled by a high pressure flare (FL-1 HP). One generator provides power to the facility (GEN-1). Pneumatic pumps (PP-1) on site are controlled by a standard flare (FL-1 LP). There are also emissions from fugitives (FUG).

**Routine or predictable emissions during Startup, Shutdown and Maintenance (SSM):** 10 TPY VOC have been included for SSM emissions in this registration.

Overview: The facility has included 10 TPY SSM emissions.

☐ No SSM emissions are expected from routine operations.

☒ Applicant requests up to 10 tpy of VOC SSM emissions.

☒ No other activities (e.g. VRU downtime, stranded gas etc.) are considered SSM activities.

☐ Applicant requests site specific VOC SSM and those emission calculations are included in Section 5 and entered in Table 2F

Provide an overview:

☐ Applicant requests site specific combustion SSM and those emission calculations are included in Section 5 and entered in Table 2F.

Provide an overview:

**Malfunction Emissions (M):** Provide an overview of how malfunction emissions are accounted for in this Registration. The permit does not authorize combustion emissions for malfunctions. The permit does not authorize emissions from SSM and Malfunction to be combined as 10 TPY VOC. However, they may be permitted separately. In the allowable emissions table in Section 2, these two events are separate line items and must be kept separate.

Overview: 10 TPY VOC have been included for malfunction emissions in this registration.

☐ No Malfunction emissions are requested for this permit.

**Allowable Operations:** Check the appropriate box below:

☒ Facility operates continuously (8760 hours per year)

☐ The following regulated equipment will operate less than 8760 hours per year. Add additional rows as necessary. These units are subject to Condition A108.C of the Permit.

**Table A – Equipment Operating Less Than 8760 hours per year**

**☐ Table is blank because I completed this information in the ePermitting Portal for each piece of equipment.**

| Unit # | Requested Annual Operating Hours |
|---|---|
| | |

**Verification of Compliance with Stack Parameter Requirements:**

www.env.nm.gov/air-quality/air-quality-oil-and-gas-gcp-application-forms/

**Portal Submittals:** Applications submitted via the ePermitting Portal are required to use the Oil and Gas Stack Calculator.
**Hardcopy submittals** may voluntarily use the stack calculator.

Click "Print" in the stack calculator and attach the generated PDF results. If the stack calculator was completed and results attached, complete the information in this box and then go to Section 4. You may delete the items below this box until Section 4.

Check the box for each type of equipment at this facility & represented in the attached stack calculator results:
☒ Engine(s)
☐ Turbine(s)
☒ Flares(s)
☐ Enclosed Combustion Device (s)
☒ Heater(s)
☐ Reboiler(s)

☒ I attached the results from the current version of the Oil and Gas Stack Calculator from the AQB web page and the results indicate compliance with the stack parameters for all of my engines, turbines, flares, enclosed combustion devices, heaters or reboilers.

1. Does the flare gas contain 6% $H_2S$ or less by volume (pre-combustion)?

☒ Yes (done with section 3)
☐ No.

2. Explain in detail how assist gas will be added to reduce the gas composition to 6%$H_2S$ or less by volume:

# Section 5

## Emissions Calculation Forms

The Department has developed the Air Emissions Calculation Tool (AECT), which is required to be used in the GCP-Oil and Gas Registration. If the AECT, for a piece of equipment is under development, provide alternate calculations. The AECT must be submitted as a "live" interactive PDF. **Do not include alternative calculations unless there is an issue being resolved with the AECT. This will delay review of the application.** The AECT and this Registration Form may be updated as needed.

**Tank Emissions Calculations**: Provide the method used to estimate tank-flashing emissions, the input and output summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Pro-Max or Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation. **The inputs must match the gas analyses information submitted. Inputs that don't match may be grounds for denial of the application submittal.**

**SSM Calculations**: In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Table 2, and the rational for why the others are reported as zero (or left blank).

**Control Devices:** Report all control devices and list each pollutant controlled by the control device. Indicate in this section if you chose to not take credit for the reduction in emission rates. Only uncontrolled emission rates can be considered to determine applicability unless the state or federal acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

**Calculation Details:** The AECT is required for all emission calculations. If the AECT is not functioning, alternative calculations may be submitted only for the portions of the AECT with issues being resolved. Utilize this section to explain in detail, on an equipment-by-equipment basis, why alternative calculations are necessary.

**Explain here:**

**Equipment Forms Submitted in this Section (add additional rows as necessary):**

| Equipment Type | Quantity | Check Box to Indicate Units that are Controlled | Enter Control Device Type and Pollutant Controlled |
|---|---|---|---|
| **Engine** | **3** | ☒ | **NSCR: NOx, CO and VOC** |
| **Turbine** | | ☐ | |
| **Tanks** | **12** | ☒ | **FL-1 LP: VOC** |
| **Generator** | **1** | ☒ | **NSCR: NOx, CO and VOC (EPA-Certified)** |
| **VRU** | | ☐ | **One VRU off the tanks but not shown as control device** |
| **VRT** | | ☐ | |
| **ULPS** | | ☐ | |
| **Glycol Dehydrator** | | ☐ | |
| **Flare** | **1** | ☐ | **FL-1 LP: OT-1 – OT-6, PWT-1 – PWT-6, PP-1, OLOAD-1; VOC**<br>**FL-1 HP: Stranded Gas; VOC** |
| **Amine Unit** | | ☐ | |
| **Cryogenic Unit** | | ☐ | |
| **Fugitive Emissions** | **1** | ☐ | |

| | | | |
|---|---|---|---|
| **Heater** | **2** | ☐ | |
| **Truck Loading** | **2** | ☐ | **FL-1 LP: OLOAD-1; VOC** |
| **Enclosed Combustion Device (ECD)** | | ☐ | |
| **Thermal Oxidizer (TO)** | | ☐ | |
| **Pneumatic Pumps** | **6** | ☐ | **FL-1 LP: PP-1 VOC** |
| **Other** | | ☐ | |

**For each scenario below, if there are more than one emissions unit, control device, or gas combustion scenario. Please copy and paste each applicable section and label the unit number(s) if the scenarios vary.**

**Vapor Recovery Tower, Ultra Low-Pressure Separator, or Flash Tower Located Upstream of Storage Vessels:** If the facility contains one of the following units located upstream of the storage vessels and is used to flash and capture flashing emissions, check the appropriate box.
Unit number:
☐ Vapor Recovery Tower and VRU Compressor
☐ ULPS and VRU Compressor
☐ Flash Tower and VRU Compressor

**Vapor Recovery Unit (VRU) located upstream of Storage Vessels:** Check the box below if the facility is using a VRU to capture flashing emissions prior to any storage vessels to limit the PTE of the storage vessels to below applicability thresholds of NSPS OOOO or NSPS OOOOa. A process vs control determination should be prepared for this type of VRU application.
Unit number:
☐ VRU capturing emissions prior to any storage vessel and routing directly to the sales pipeline

**Vapor Recovery Unit (VRU) attached to Storage Vessels:** Check the box below if this facility is using a VRU to reduce storage vessel emissions to limit the PTE to below NSPS OOOO or NSPS OOOOa applicability thresholds:
Unit number:
☐ VRU controlling Storage Vessel emissions and the facility is subject to the requirements under NSPS OOOO, 40 CFR 60.5411
☐ VRU controlling Storage Vessel emissions and the facility is subject to the requirements under NSPS OOOOa, 40 CFR 60.5411a

**Gas Combustion Scenarios:** Read through the scenarios below and check the boxes next to any appropriate facility operating scenarios. Flares shall assume a destruction efficiency of 95%, unless the facility is subject to requirements for flares under 40 CFR 60.18, or a higher destruction efficiency (up to 98%) is supported by a manufacturer specification sheet (MSS) for that unit. If so, include the MSS.

A flare, vapor combustion unit (VCU), enclosed combustion device (ECD), thermal oxidizer (TO):
Unit number: FL-1 LP controls tanks and oil loading, FL-1 HP controls stranded gas
☒ Controls storage vessels in accordance with 40 CFR 60, Subpart OOOO or OOOOa. **OT-1 – OT-6**
☒ Provides a federally enforceable control for the storage vessels to limit the PTE to below applicability thresholds of 40 CFR 60, Subpart OOOO or OOOOa. **PWT-1 – PWT-6**
☐ Controls the glycol dehydrator
☐ Controls the amine unit
☒ Controls truck loading
☐ Operates only during maintenance events, such as VRU downtime, check one below:
  ☐ The emissions during VRU downtime are represented as uncontrolled VOC emissions from the compressor
  ☐ The combustion emissions during VRU downtime are represented as controlled emissions from the combustion device

☐ Controls the facility during plant turnaround

**Amine Unit:** Provide the following information for each amine unit.

| | |
|---|---|
| Design Capacity in MMscf/day | |
| Rich Amine Flowrate in gal/min | |
| Lean Amine Flowrate in gal/min | |
| Mole Loading $H_2S$ | |
| Sour Gas Input in MMscf/day | |

**Glycol Dehydration Unit(s):** Provide the following information for each glycol dehydration unit:
Please include an extended gas analysis in Section 6 of this application.

| **Unit #** | **Glycol Pump Circulation Rate** |
|---|---|
| | |

**Voluntary Monitoring in Accordance with §40 CFR 60.5416(a):** Check the box(s) to implement a program that meets the requirements of 40 CFR 60.5416(a). This monitoring program will be conducted in lieu of the monitoring requirements established in the GCP-Oil and Gas for individual equipment. Ceasing to implement this alternative monitoring must be reported in an updated Registration Form to the Department.

☒ Condition A205.B Control Device Options, Requirements, and Inspections for Tanks
☒ Condition A206.B Truck Loading Control Device Inspection
☒ Condition A206.C Vapor Balancing During Truck Loading
☐ Condition A209.A Vapor Recovery Unit or Department-approved Equivalent
☐ Condition A210.B Amine Unit Control Device Inspection

**Fugitive $H_2S$ Screening Threshold and Monitoring in accordance with Condition A212:** Check the box that applies.

☒ Condition A212.A does not apply because the facility is below the fugitive $H_2S$ screening threshold in Condition A212, or

☐ Condition A212.A applies. Because the facility is above the fugitive $H_2S$ screening threshold in Condition A212, or the facility is voluntarily complying with Condition A212.A, and Condition A212.A applies

# Section 6

## Information Used to Determine Emissions

Check the box for each type of information submitted. This documentation is required, if applicable to the facility.

**Failure to include applicable supporting documentation may result in application denial.**

☒ Specifications for control equipment, including control efficiency specifications and sufficient engineering data for verification of control equipment operation, including design drawings, test reports, and design parameters that affect normal operation.

☒ Engine or Generator Manufacturer specifications

☒ Catalyst Manufacturer specifications (If a catalyst is being utilized to reduce emissions, the catalyst manufacturer emission factors must be used in all emission calculations. A 25% safety factor may be applied to each pollutant.

☒ NSPS JJJJ emission factors **may not** be utilized in lieu of catalyst manufacture specifications when a catalyst is installed, and the catalysts manufacturer achieves higher control efficiency.

☒ Flare Manufacturer specifications

☒ Oil/Liquid Analysis: This data is required to match the inputs in all applicable emission calculations. For facilities that have not been constructed and a representative analysis is used it cannot be older than 1 year. For existing facilities, the gas analyses required by Condition A201.A (must be 1 year old or less).

☐ Gas Analysis (must be 1 year old or less) This data is required to match the inputs in all applicable emission calculations.

☒ Extended Gas Analysis (must be 1 year old or less) This data is required to match the inputs in all applicable emission calculations.

☒ If requesting to use a representative gas sample, include a discussion of why the sample is representative for this facility and an explanation of how it is representative (e.g., same reservoir, same similar API gravity, similar composition).

☐ If test data are used, to support emissions calculations or to establish allowable emission limits, include a copy of the complete test report. If the test data are for an emissions unit other than the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly effect emission rates.

☐ Fuel specifications sheet.

☐ If computer models are used to estimate emissions, include an input summary and a detailed report, and a disk containing the input file used to run the model.

☒ For tank-flashing emissions, include a discussion of the method used to estimate tank-flashing emissions, accuracy of the model, the **input and output** summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.

**Representative Gas Analysis Justification:**

Representative sample is from a geographically nearby well, from the same producing formation (within 25 miles) and was collected at a higher pressure than the permitted tanks' upstream pressure. The permitted facility will also produce within +/- 3 degrees of API gravity at the stock tanks compared to the representative sample.

Representative sample analyses are input in the process simulation software, i.e. ProMax, with conservative process flow conditions for flash calculations at the stock tanks. The resulting pounds of VOC per barrel of production at the tanks are used to calculate emission from both oil and water tanks.

# Section 8A

## Applicable State & Federal Regulations

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**Provide a discussion demonstrating compliance with each applicable state & federal regulation**. All input cells should be filled in, even if the response is 'No' or 'N/A'.

In the "Justification" column, identify the criteria that are critical to the applicability determination, numbering each. For each unit listed in the "Applies to Unit No(s)" column, after each listed unit, include the lowest level citation of the applicable regulation. For each unit, list the information necessary to verify the applicability of the regulation, including date of manufacture, date of construction, size (hp), and combustion type. Doing so will provide the applicability criteria for each unit.

---

### Applicable State Regulations:

| State Regulation Citation | Title | Federally Enforceable | Overview of Regulation | Unit(s) or Facility | Applies? (Yes or No) | **Justification:** Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|
| 20.2.1 NMAC | General Provisions | Yes | General Provisions apply to Notice of Intent, Construction, and Title V permit applications. | Facility | Yes | General provisions apply to this facility. |
| 20.2.3 NMAC | Ambient Air Quality Standards NMAAQS | Yes | 20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of Sulfur Compounds, Carbon Monoxide, and Nitrogen Dioxide. | Facility | Yes | 20 NMAC 2.3 specifies maximum allowable concentrations of various regulated air pollutants in the atmosphere. This application includes a demonstration of meeting the NAAQS requirements specified in 20 NMAC 2.3. This facility meets the requirements of this regulation. |
| 20.2.7 NMAC | Excess Emissions | Yes | If your entire facility or individual pieces of equipment are subject to emissions limits in a permit or numerical emissions standards in a federal or state regulation, this applies. | Facility | Yes | Applies to this facility as it operates under this state permit and federal rules. |
| 20.2.38 NMAC | Hydrocarbon Storage Facility | No | Use the regulation link then cut & paste applicable sections.<br>20.2.38 NMAC does **not** establish practically enforceable limits that can be used for PTE or PER calculations. | OT-1-6 | Yes | **20.2.38.109 –** all tank vapors are controlled by a closed vent system and flare.<br>**20.2.38.110 –** tanks are not located within municipality.<br>**20.2.38.111 –** tanks are not located within 5 miles of a municipality with a population greater than 20,000.<br>**20.2.38.112 -** all tank vapors are controlled by a closed vent system and flare.<br>**20.2.38.113 –** tanks are not located within 5 miles of a municipality with a |

| State Regulation Citation | Title | Federally Enforceable | Overview of Regulation | | Unit(s) or Facility | Applies? (Yes or No) | Justification: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|---|
| | | | | | | | population greater than 20,000. |
| 20.2.50 NMAC | Oil and Gas Sector – Ozone Precursor Pollutants | No | This regulation establishes emission standards for volatile organic compounds (VOC) and oxides of nitrogen ($NO_x$) for oil and gas production, processing, compression, and transmission sources. | Check the box for the subparts that are applicable:<br>☐ 113 – Engines and Turbines<br>☒ 114 – Compressor Seals<br>☒ 115 – Control Devices and Closed Vent Systems<br>☒ 116 – Equipment Leaks and Fugitive Emissions<br>☐ 117 – Natural Gas Well Liquid Unloading<br>☐ 118 – Glycol Dehydrators<br>☐ 119 – Heaters<br>☒ 120 – Hydrocarbon Liquid Transfers<br>☐ 121 – Pig Launching and Receiving<br>☒ 122 – Pneumatic Controllers and Pumps<br>☒ 123 – Storage Vessels<br>☒ 124 – Well Workovers<br>☐ 125 – Small Business Facilities<br>☐ 126 – Produced Water Management Unit<br>☐ 127 – Flowback Vessels and Preproduction Operations | | | 113 – The existing engines and generator (ENG-5, ENG-6, GEN-1) are not subject as they are < 1,000-hp. The new engine (ENG-2) is not subject as it is < 500-hp.<br><br>114 - Reciprocating compressors located at tank batteries, gathering and boosting stations, and natural gas processing plants are subject to the requirements of 20.2.50.114 NMAC.<br><br>115 – The flares are subject as control devices.<br><br>116 - Well sites, tank batteries, gathering and boosting stations, natural gas processing plants, transmission compressor stations, and associated piping and components are subject to the requirements of 20.2.50.116 NMAC.<br><br>117 –There are no liquid unloading operations at this facility.<br><br>118 – There are no glycol dehydrators located at this facility.<br><br>119 – The heaters have rated inputs less than 20 mmBtuh and are therefore not subject.<br><br>120 – Hydrocarbon liquid transfers located at existing well sites, standalone tank batteries, gathering and boosting stations with one or more controlled storage vessels, natural gas processing plants, or transmission compressor stations are subject to the requirements of 20.2.50.120 NMAC within two years of the effective date of this Part. OLOAD-1 complies by having emissions vented to a flare at 98% destruction. |

| State Regulation Citation | Title | Federally Enforceable | Overview of Regulation | Unit(s) or Facility | Applies? (Yes or No) | Justification: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|
| | | | | | | 121 – The facility does not have pig launching and receiving operations with PTE > 1 TPY.<br><br>122 - Natural gas-driven pneumatic controllers and pumps located at well sites, tank batteries, gathering and boosting stations, natural gas processing plants, and transmission compressor stations are subject to the requirements of 20.2.50.122 NMAC. PP-1 will meet the deadlines in tables 1 and 2 of Paragraph (3) of Subsection B of 20.2.50.122 NMAC.<br><br>123 – The tanks are subject as existing storage vessels that have PTE great than 3 TPY of VOC and comply by sending vapors to a flare.<br><br>124 – Any workovers planned for this facility will comply.<br><br>125 – This site does not qualify as a small business facility.<br><br>126 - This site does not qualify as a produced water management facility.<br><br>127 – This site has no planned recompletions. |
| 20.2.61.109 NMAC | Smoke & Visible Emissions | No | Engines and heaters are Stationary Combustion Equipment. Specify units subject to this regulation. | ENG-2, ENG-5, ENG-6, GEN-1, HT-1, HT-2, FL-1 LP, FL-1 HP | Yes | The following units are considered engines or stationary combustion equipment and are, therefore, subject to the requirements of 20.2.61.109. |
| 20.2.73 NMAC | NOI & Emissions Inventory Require-ments | Yes | NOI: 20.2.73.200 NMAC applies to all facilities emitting over 10 TPY of any regulated air contaminate. Thus, permitted facilities are also subject to this rule. This GCP-O&G registration also serves the purpose of meeting 20.2.73 NMAC notification requirements.<br><br>Emissions Inventory: 20.2.73.300. NMAC applies to facilities registering under the GCP. | *Facility* | *Yes – applies to all GCP-O&G registrants .* | *Under 20.2.73.300.B(4) NMAC, NMED will periodically request emissions inventory reporting from minor source (expected each third year starting in 2020.)*<br><br>*Under 20.2.73.300.B(1) NMAC, if fugitives result in* |

| State Regulation Citation | Title | Federally Enforceable | Overview of Regulation | Unit(s) or Facility | Applies? (Yes or No) | **Justification:** Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) |
|---|---|---|---|---|---|---|
| | | | | | | *PTE >100 tpy VOC, annual reporting is required.* |
| 20.2.77 NMAC | New Source Performance | Yes | This is a stationary source which is subject to the requirements of 40 CFR Part 60, as amended on the date of certification. | ENG-2, ENG-5, ENG-6, GEN-1, FUG-1, OT-1-6, PP-1 | Yes | The oil tanks, fugitives and pumps are subject to NSPS OOOOa, and are therefore subject to 20.2.77.9.<br><br>The engines and generator are subject to NSPS JJJJ and is therefore subject to 20.2.77.9. |
| 20.2.78 NMAC | Emission Standards for HAPS | Yes | This facility emits hazardous air pollutants which are subject to the requirements of 40 CFR Part 61, as amended on the date of certification. | N/A | No | N/A |
| 20.2.82 NMAC | MACT Standards for source categories of HAPS | Yes | This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63, as amended on the date of certification. | ENG-2, ENG-5, ENG-6, GEN-1 | Yes | The engines and generator are subject to MACT ZZZZ and is therefore subject to 20.2.82.8. |

## Applicable Federal Regulations (This is not an exhaustive list; add applicable regulations such as NSPS GG and KKKK):

| Federal Regulation Citation | Title | Overview of Regulation | Units(s) or Facility | Applies? (Yes or No) | **Justification:** Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m3, 3. VOL) |
|---|---|---|---|---|---|
| 40 CFR 50 | National Primary and Secondary Ambient Air Quality Standards (NAAQS) | Applicable requirement per GCP-O&G Condition A103. Any national ambient air quality standard. | Facility | Yes | Facility complies with NAAQS standards by operating under a SIP approved state permit. |
| 40 CFR 60, Subpart A | General Provisions | Applies if any other NSPS subpart applies. | ENG-2, ENG-5, ENG-6, GEN-1, FUG-1, OT-1-6, PP-1 | Yes | The units listed are subject to NSPS standards and Subpart A applies. |
| 40 CFR 60, Subpart OOOO | Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015 | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375); centrifugal compressors (60.5380); reciprocating compressors (60.5385): controllers (60.5390); storage vessels (60.5395); equipment leaks (60.5400); sweetening units (60.5405).<br><br>**If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. Centrifugal Compressors 1a-3a are subject to the standards at** | N/A | No | Facility was constructed after September 18, 2015; therefore, this subpart does not apply. |

| Federal Regulation Citation | Title | Overview of Regulation | Units(s) or Facility | Applies? (Yes or No) | **Justification:** Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m3, 3. VOL) |
|---|---|---|---|---|---|
| | | **60.5380(a)(1) and (2) since we use a control device to reduce emissions)** | | | |
| 40 CFR 60, Subpart OOOOa | Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375a); centrifugal compressors (60.5380a); reciprocating compressors (60.5385a): controllers (60.5390a); storage vessels (60.5395a); fugitive emissions at well sites and compressor stations (60.5397a); equipment leaks at gas plants (60.5400a); sweetening units (60.5405a). | FUG-1, OT-1-6, PP-1 | Yes | The rule applies to "affected" facilities that are constructed, modified, or reconstructed after September 18, 2015: storage vessels (60.5395a); fugitive emissions (60.5397a); reciprocating compressors (60.5385a) and pneumatic pumps.<br><br>Matador will comply with the applicable control requirements under 60.5395a(b). Fugitive equipment components are subject to LDAR requirements. Matador will conduct routine fugitive leak monitoring using optical gas imaging (OGI) or EPA Method 21.<br><br>The oil tanks at this well site are subject to §60.5395a based date of construction and VOC emissions during initial production.<br><br>The pneumatic pumps at this well site are subject to §60.5393a. The pumps reduce emissions by sending natural gas to FL-1 LP. |
| 40 CFR 60, Subpart IIII | Standards of performance for Stationary Compression Ignition Internal Combustion Engines | See 40 CFR 60.4200(a) 1 through 4 to determine applicable category and state engine size, fuel type, and date of manufacture. | N/A | No | No compression ignition engines are located on site; therefore, this subpart does not apply. |
| 40 CFR 60, Subpart JJJJ | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines | See 40 CFR 60.4230(a), 1 through 5 to determine applicable category and state engine size, fuel type, and date of manufacture. | ENG-2, ENG-5, ENG-6, GEN-1 | Yes | The engine is subject to JJJJ based on engine size and manufacture date.<br><br>40 CFR 60.4230(a)(4)(iii): ENG-2, ENG-5, ENG-6, and GEN-1 are "new" engines (manufacture date after July 1, 2008) with a horsepower less than 500. |
| 40 CFR 63, Subpart A | General Provisions | Applies if any other subpart applies. | ENG-2, ENG-5, ENG-6, GEN-1 | Yes | The engine is subject to the work practice standards of NESHAP Subpart ZZZZ with no requirements. |

| Federal Regulation Citation | Title | Overview of Regulation | Units(s) or Facility | Applies? (Yes or No) | **Justification:** Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m3, 3. VOL) |
|---|---|---|---|---|---|
| 40 CFR 63, Subpart HH | NESHAP for Glycol Dehydrators | See 40 CFR 63, Subpart HH | N/A | No | No dehydration units are located on site; therefore, this subpart does not apply. |
| 40 CFR 63, Subpart ZZZZ | NESHAP for Stationary Reciprocating Internal Combustion Engines (**RICE MACT**) | Facilities are subject to this subpart if they own or operate a stationary RICE, except if the stationary RICE is being tested at a stationary RICE test cell/stand. | ENG-2, ENG-5, ENG-6, GEN-1 | Yes | 40 CFR 63.6589(c): The engine is subject as an area source of HAP emissions.<br><br>40 CFR 63.6590(c)(1): The engines and generator will comply with ZZZZ by complying with 40 CFR 60 Subpart JJJJ. |

# Section 8B
# Compliance Test History and Disclosure Form

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To evaluate the requirement for compliance tests, you must submit a compliance test history. The table below provides an example.

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## Compliance Test History Table

| Unit No. | Test Description | Test Date |
|---|---|---|
| N/A | N/A | N/A |
| | | |

# Air Permit Application
# Compliance History Disclosure Form

Pursuant to Subsection 74-2-7(S) of the New Mexico Air Quality Control Act ("AQCA"), NMSA §§ 74-2-1 to -17, the New Mexico Environment Department ("Department") may deny any permit application or revoke any permit issued pursuant to the AQCA if, within ten years immediately preceding the date of submission of the permit application, the applicant met any one of the criteria outlined below. In order for the Department to deem an air permit application administratively complete or issue an air permit for those permits without an administrative completeness determination process, the applicant must complete this Compliance History Disclosure Form as specified in Subsection 74-2-7(P). An existing permit holder (permit issued prior to June 18, 2021) shall provide this Compliance History Disclosure Form to the Department upon request.

| **Permittee/Applicant Company Name** | | **Expected Application Submittal Date** |
|---|---|---|
| Matador Production Company | | April 2023 |
| **Permittee/Company Contact** | **Phone** | **Email** |
| Kha Mach | 972-371-5200 | kha.mach@matadorresources.com |

| | **Within the 10 years preceding the expected date of submittal of the application, has the permittee or applicant:** | |
|---|---|---|
| 1 | Knowingly misrepresented a material fact in an application for a permit? | ☐ Yes ☒ No |
| 2 | Refused to disclose information required by the provisions of the New Mexico Air Quality Control Act? | ☐ Yes ☒ No |
| 3 | Been convicted of a felony related to environmental crime in any court of any state or the United States? | ☐ Yes ☒ No |
| 4 | Been convicted of a crime defined by state or federal statute as involving or being in restraint of trade, price fixing, bribery, or fraud in any court of any state or the United States? | ☐ Yes ☒ No |
| 5a | Constructed or operated any facility for which a permit was sought, including the current facility, without the required air quality permit(s) under 20.2.70 NMAC, 20.2.72 NMAC, 20.2.74 NMAC, 20.2.79 NMAC, or 20.2.84 NMAC? | ☒ Yes ☐ No |
| 5b | If "No" to question 5a, go to question 6.<br>If "Yes" to question 5a, state whether each facility that was constructed or operated without the required air quality permit met at least one of the following exceptions:<br><br>a. The unpermitted facility was discovered after acquisition during a timely environmental audit that was authorized by the Department; or<br><br>b. The operator of the facility estimated that the facility's emissions would not require an air permit, **and** the operator applied for an air permit within 30 calendar days of discovering that an air permit was required for the facility. | ☐ Yes ☒ No |
| 6 | Had any permit revoked or permanently suspended for cause under the environmental laws of any state or the United States? | ☐ Yes ☒ No |
| 7 | For each "yes" answer, please provide an explanation and documentation.<br><br>As NMED is aware, Matador is currently in an enforcement action and settlement negotiation with NMED and U.S. EPA relating to alleged violations of the Clean Air Act and New Mexico Air Quality Control Act, including alleged permit violations. In the course of that action, the company has disclosed information about its historic permitting and operations at New Mexico facilities. | |

| | |
|---|---|
| | Since NMED and U.S. EPA's inspection of the company's facilities in 2019, Matador has invested significant resources to re-evaluate and, as needed, update its air permits. As a result of those efforts, Matador is not aware of current noncompliance with NMED permit regulations. Furthermore, as an additional measure, in the draft consent decree under negotiation with NMED and U.S. EPA, the company would systematically evaluate its permitting of facilities in New Mexico.<br><br>By providing the information requested by this form, Matador does not waive, and expressly reserves, all objections, rights, and defenses. |

# APPENDIX L. NOI # 9357

**Construction Status** Existing Permitted (or NOI) Facility

☑ I acknowledge that a pre-application meeting is available to me upon request.

☑ For new registrations or modifications, a payment for the registration fee will be submitted to the Department for ten fee points for GCP-O&G or $500 for NOIs. We cannot begin processing your action until the full fee is received by the Department in the form of a check or an online ePayment. You will receive an automated email when your action is assigned for review.

☑ There is an annual fee for GCP-O&G in addition to the registration fee: www.env.nm.gov/air-quality/permit-fees-2/ (No annual fee for NOIs. (Facilities qualifying as a 'small business' under 20.2.75.7.F NMAC qualify for reduced fees, provided that NMED has a Small Business Certification Form from your company on file. This form can be found at: www.env.nm.gov/aqb/sbap/Small_Business_Forms.html)

☑ There are required attachments in addition to inputting data in the program. I will include the required attachments.

Is the facility located in Bernalillo County, on tribal lands, or in a nonattainment area?
○ Yes ◉ No

Is the facility's SIC code 1311, 1321, 4619, 4612 or 4922? (Other SIC codes may be approved provided that all the equipment at the facility is allowed in the GCP-Oil & Gas Permit. Non-Oil and Gas NOIs should use the paper Universal Application.
◉ Yes ○ No

New Mexico Environment Department
Air Quality Bureau
Permitting Section
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505-1816

Phone: (505) 476-4300
Fax: (505) 476-4375
www.env.nm.gov/air-quality/

**For Department use only:**

# Electronic Permitting Application

**Use this application for NOI and GCP-Oil and Gas Permits.**

Use this application for: the initial application, modifications, revisions and when converting from another permit type. Please fill out all sections so that they have check marks and attach all required documents for review. Coordination with AQB is encouraged for first time users. Please use the Request NMED Support button if you would like to set up a walk through.

## Section 1 - Facility Information

**Section 1-A: Company Information - Devon - Broadside 12 Facility 2**
**Last modified by Kimbrell, Leslee on 22-OCT-24.**

| | | | | |
|---|---|---|---|---|
| 1 | **Facility Name:** Devon - Broadside 12 Facility 2 | | AI # (if known): 40140 | Updating permit #: 9357 |
| a | SIC Code: 1311 - Crude petroleum and natural gas<br>NAICS Code: 21112 - Crude Petroleum Extraction<br>Facility Type: 146 - Oil & Gas  Secondary Facility Type: 272 - O&G-Production Facility | | | Reset Selections |
| 2 | **Company Name (Owns facility):** Devon Energy Production Company LP | | Phone: 405-235-3611 | Fax: 405-552-4550 |
| a | Mailing Address: 333 West Sheridan Avenue | Address 2: | City: Oklahoma City | State: Oklahoma  ZIP Code: 73102 |
| 3 | **Billing Party:** Devon Energy Production Company LP<br>Select an organization | | Phone: 405-235-3611 | Fax: 405-552-4550 |
| a | Mailing Address: 333 West Sheridan Avenue | Address 2: | City: Oklahoma City | State: Oklahoma  ZIP Code: 73102 |
| 4 | **Consultant Company:** Resolute Compliance LLC<br>Select an organization | | Phone: 817-821-6526 | Fax: |
| a | Mailing Address: PO Box 970 | Address 2: | City: Royse City | State: Texas  ZIP Code: 75189 |
| 5 | **Consultant / Preparer Contact:**<br>First Name: Kayla  M.I.:  Last Name: Curtis  Title: Environmental Manager | | Phone: 817-821-6526<br>Email: kc@resolutecompliance.com | Fax: |
| a | Mailing Address: PO Box 970 | Address 2: | City: Royse City | State: Texas  ZIP Code: 75189 |
| 6 | **Plant Operator Company:** Devon Energy Production Company LP<br>Select an organization | | | |
| a | Plant Operator Company Address: 333 West Sheridan Avenue | Address 2: | City: Oklahoma City | State: Oklahoma  ZIP Code: 73102 |
| b | **Plant Operator Contact:**<br>First Name: Clarence  M.I.:  Last Name: McDonald  Title: Operator | | Phone: 405-552-7977<br>Email: peter.mcdonald@dvn.com | Fax: |
| c | Mailing Address: 333 West Sheridan Avenue | Address 2: | City: Oklahoma City | State: Oklahoma  ZIP Code: 73102 |
| 7 | **Air Permit:** Select a person | | | |
| a | **Air Permit Contact:**<br>First Name: Aaron  M.I.:  Last Name: Yotter  Title: EHS Compliance Specialist | | Phone: 405-228-7270<br>Email: aaron.yotter@dvn.com | Fax: |
| b | Mailing Address: 333 West Sheridan Ave | Address 2: | City: Oklahoma City | State: Oklahoma  ZIP Code: 731025010 |

**Comments** (2000 character maximum)

**Section 1-C: Facility Input Capacity & Production Rate - Devon - Broadside 12 Facility 2**
**Last modified by Kimbrell, Leslee on 22-OCT-24.**

Enter the maximum hourly, daily, and annual throughput of oil, gas, natural gas liquids (NGL), and produced water.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **OIL** | | | | | | | | |
| a | Current: | Hourly: | 625 | bbl/h | Daily: | 15000 | bbl/d | Annually: 2372500 | bbl/y |
| b | Proposed | Hourly: | 104.17 | bbl/h | Daily: | 1200 | bbl/d | Annually: 438000 | bbl/y |
| 2 | **Natural Gas** | | | | | | | | |
| a | Current | Hourly: | 1458.33 | M SCF/h | Daily: | 35 | MM SCF/d | Annually: 6205 | MM SCF/y |
| b | Proposed | Hourly: | 333.33 | M SCF/h | Daily: | 4400 | M SCF/d | Annually: 1606 | MM SCF/y |
| 3 | **Natural Gas Liquids** | | | | | | | | |
| a | Current | Hourly: | | | Daily: | | | Annually: | |
| b | Proposed | Hourly: | | | Daily: | | | Annually: | |
| 4 | **Produced Water** | | | | | | | | |
| a | Current | Hourly: | 1458.33 | bbl/h | Daily: | 35000 | bbl/d | Annually: 6205000 | bbl/y |
| b | Proposed | Hourly: | 187.50 | bbl/h | Daily: | 2400 | bbl/d | Annually: 876000 | bbl/y |

**Comments** (2000 character maximum)

**Section 1-D: Facility Location Information - Devon - Broadside 12 Facility 2**
**Last modified by Kimbrell, Leslee on 22-OCT-24.**

| | | |
|---|---|---|
| 1 | County: Lea | Elevation (ft): 3606 |
| 2 | UTM Zone: ○ 12 or ◉ 13 | Datum: ◉ NAD 83 ○ WGS 84 |
| a | UTM E (in meters, to nearest 10 meters): 639640 | UTM N (in meters, to nearest 10 meters): 3566440 |
| b | Latitude: 32.225931 dec deg. N | Longitude: -103.518415 dec deg. W |
| 3 | Facility/Plant Address: 20.7 mi WNW of Jal<br>(If no facility street address, leave blank) | City: Jal<br>State: New Mexico<br>ZIP Code: 88252<br>District: 004<br>Field Office: Select one |
| 4 | The facility is 20.7 miles NW of Jal (nearest town). | |
| 5 | Detailed Driving Instructions from nearest NM town (attach a road map if necessary): From the intersection of S 3rd St. and NM-128 W, go W on NM-128 W for 20.4 mi. Go north on Delaware Basin Rd for 1.0 mi. Go | |
| 6 | Status of land at facility: Federal - BLM | |
| 7 | Select nearest Class I area: Class I - Carlsbad Caverns National Park | |
| 8 | Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 80.4 km | |
| 9 | Is this a portable stationary source as defined in 20.2.72.7.X NMAC? ○ Yes ◉ No | |
| 10 | Will this facility operate in conjunction with other air regulated parties on the same property? ○ Yes ◉ No<br>If yes, what is the name and permit number (if known) of the other facility? | |

**Comments** (2000 character maximum)

**Section 1-E: Proposed Operating Schedule - Devon - Broadside 12 Facility 2**
**Last modified by Kimbrell, Leslee on 22-OCT-24.**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Facility **maximum** operating (hours/day): 24 | days/week: 7 | weeks/year: 52 | hours/year: 8760 | |
| 2 | Facility's maximum daily operating schedule (if less than 24 hours/day)? Start Time: | | End Time: | | |
| 3 | Month and year of anticipated start of construction (mm/yyyy): | | | | |
| 4 | Month and year of anticipated construction completion (mm/yyyy): | | | | |
| 5 | Month and year of anticipated startup of new or modified facility (mm/yyyy): | | | | |
| 6 | Will this facility operate at this site for more than one year? (•) Yes ( ) No | | | | |

The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.

**Comments** (2000 character maximum)

**Last modified by Kimbrell, Leslee on 22-OCT-24.**

| **Section 1-F - Current Facility Status - Devon - Broadside 12 Facility 2** | | | |
|---|---|---|---|
| 1 | Has this Facility already been constructed?<br>(•) Yes ( ) No | If yes, is it currently operating in New Mexico?<br>(•) Yes ( ) No | |
| 2 | Does this facility currently have a construction permit or Notice of Intent (NOI) (20.2.72 NMAC or 20.2.73 NMAC)?<br>(•) Yes ( ) No | If yes, the permit No or NOI No:<br>9357 | Will it remain active or not:<br>( ) Yes (•) No |
| 3 | Is this Registration in response to a Notice of Violation (NOV)?<br>( ) Yes (•) No<br>If so, provide current permit #: | If yes,NOV date: | NOV tracking No: |
| 4 | Facility is Notice of Intent | | |

**Comments** (2000 character maximum)

## Table 2-A: Regulated Emission Sources

| Edit | NMED SI ID | Category / Type | NMED SI Status | Unit Number[1] | Source Description | Manufacturer | Model # | Serial # | Combustion Type | Rated Capacity[3] | Permitted Capacity[3] | Date[2] of Manufacture or Reconstruction / Date[2] of Installation /Construction | Controlled by Unit # / Emissions vented to Stack # | Source Classification Code (SCC) | Disposition | Applicable State & Federal Regulation(s) (i.3. 20.x.x, JJJJ, ...) | Complete | Replicate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | EQPT-10 | Equipment / Process Flare | Active 09/15/2021 | FL-1 | Process Flare -LP 15.5 MMscfd | Zeeco | | TBD | | 15.50 MM SCF/d | 15.50 MM SCF/d | | | 3-10-001-60 | To Be Removed | NA | ☑ | Replicate |
| Edit | EQPT-11 | Equipment / Process Flare | Active 09/15/2021 | FL-1_0538 | HP-Flare_EQ000870538 | Zeeco | AFDS-4D/24-40-KO | 49713-002 | Flare | 15.50 MM SCF/d | 15.50 MM SCF/d | 01/01/21 / 02/01/22 | NA / FL-1 | 3-10-001-60 | To Be Revised | NA | ☑ | Replicate |
| Edit | RPNT-1 | Release Point / Fugitives | Active 09/15/2021 | FUG-1 | Sitewide Fugitives | NA | NA | NA | | | | | NA / FUG-1 | 3-10-888-11 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-9 | Equipment / Heater Treater/Stack Pak | Active 09/15/2021 | HT-1_6711 | Heater Treater_EQ000696711 | Cimmaron Energy Inc | NA | M-13389 | | 3.00 MM BTU/h | 3.00 MM BTU/h | 12/01/20 / 02/01/22 | NA / HT-1 | 3-10-004-04 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-12 | Equipment / Internal combustion engine | Active 09/15/2021 | LPC-1_4072 | GM 5.7L 92 HP Engine_EQ000184072 | GM | 5.7L | 10CHMM405270003 | | 92.00 hp | 92.00 hp | 05/01/14 / 02/01/22 | NA / LPC-1 | 2-02-002-53 | To Be Revised | 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ | ☑ | Replicate |
| Edit | EQPT-7 | Equipment / Loading/Unloading Rack | Active 09/15/2021 | OILLOAD-1 | Crude Loading | NA | NA | NA | | 18396000 gal/y | 18396000 gal/y | | NA / OILLOAD-1 | 4-06-001-32 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-8 | Equipment / Loading/Unloading Rack | Active 09/15/2021 | PWLOAD-1 | Water Loading | NA | NA | NA | | 36792000.00 gal/y | 36792000.00 gal/y | | NA / PWLOAD-1 | 4-06-001-32 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-4 | Equipment / Tank - Above Ground | Active 09/15/2021 | PWTK-1_0224 | 750 bbl Water Tank_EQ000870224 | Angelina Tank & Mfg | NA | 71155 | | 750.00 bbl | 750.00 bbl | 02/01/21 / 02/01/22 | ECD-1 / PWTK-1/ECD-1 | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-5 | Equipment / Tank - Above Ground | Active 09/15/2021 | PWTK-2_0253 | 750 bbl Water Tank_EQ000870253 | Angelina Tank & Mfg | NA | 71154 | | 750.00 bbl | 750.00 bbl | 02/01/21 / 02/01/22 | ECD-1 / PWTK-2/ECD-1 | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | EQPT-6 | Equipment / Tank - Above Ground | Active 09/15/2021 | PWTK-3_0137 | 750 bbl Water Tank_EQ000870137 | Angelina Tank & Mfg | NA | 71158 | | 750 bbl | 750 bbl | 02/01/21 / 02/01/22 | ECD-1 / PWTK-3/ECD-1 | 4-04-003-15 | To Be Revised | NA | ☑ | Replicate |
| Edit | AREA-1 | Area / Unpaved roads | Active 09/15/2021 | ROAD-1 | Unpaved Haul Roads | NA | NA | NA | | | | | NA / ROAD-1 | 3-10-888-11 | To Be Revised | NA | ☑ | Replicate |
| Edit | RPNT-2 | Release Point / Fugitives | Active 09/15/2021 | SSM | Startup,shutdown, maintenance | NA | NA | NA | | | | | NA / SSM | 3-10-888-11 | Existing (unchanged) | NA | ☑ | Replicate |
| Edit | EQPT-1 | Equipment / Tank - Above Ground | Active 09/15/2021 | TK-1_0127 | 750 bbl Crude Oil Tank_EQ000870127 | Angelina Tank & Mfg | NA | 71086 | | 750.00 bbl | 750.00 bbl | 07/01/20 / 02/01/22 | ECD-1 / TK-1/ECD-1 | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-2 | Equipment / Tank - Above Ground | Active 09/15/2021 | TK-2_0213 | 750 bbl Crude Oil Tank_EQ000870213 | Angelina Tank & Mfg | NA | 71087 | | 750.00 bbl | 750.00 bbl | 07/01/20 / 02/01/22 | ECD-1 / TK-2/ECD-1 | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-3 | Equipment / Tank - Above Ground | Active 09/15/2021 | TK-3_0194 | 750 bbl Crude Oil Tank_EQ000870194 | Angelina Tank & Mfg | NA | 71090 | | 750 bbl | 750 bbl | 07/01/20 / 02/01/22 | ECD-1 / TK-3/ECD-1 | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-0 | Equipment / Enclosed Combustion Device | New | ECD-1_6242 | Combustor_EQ001596242 | Mission | MC-4820 | 23285-E7 | ECD/VCU | 18.50 MM BTU/h | 18.50 MM BTU/h | 01/01/23 / 01/01/24 | NA / FL-1 | 3-10-001-60 | New/Additional | 40 CFR 60 Subpart OOOOa | ☑ | Replicate |
| Edit | EQPT-0 | Equipment / Compressor | New | LPC-2_0693 | Electric LPC_EQ000870693 | Toshiba | B1504FLF3USH | 130401251 | | | | 04/01/13 / 02/01/22 | | 3-10-002-03 | New/Additional | NA | ☑ | Replicate |
| Edit | EQPT-0 | Equipment / Compressor | New | LPC-3_0680 | Electric LPC_EQ000870680 | Toshiba | B1504FLF3USH | F1502255801 | | | | 11/01/15 / 02/01/22 | | 3-10-002-03 | New/Additional | NA | ☑ | Replicate |
| Edit | EQPT-0 | Equipment / Separator | New | ULPS-1_0640 | Ultra Low Pressure Separator_EQ000870640 | Forum | NA | GP490-01 | | | | 01/01/21 / 02/01/22 | NA / TK-1 - TK-3 | 3-10-001-29 | New/Additional | NA | ☑ | Replicate |

Add a New Regulated Source

[1] Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.

[2] Specify dates required to determine regulatory applicability. If only year or month is known use 01/01/yyyy or mm/01/yyyy.

[3] To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

## Table 2C - Emissions Reduction Equipment

☐ **This Table was intentionally left blank.**

In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions. **Also include reductions from process equipment in this table. Entering process equipment in this table is for data entry purposes only, the process vs control analysis will be used to determine process or control status for VRUs.** Only list control equipment for TAPs if the TAPs maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B.

| Edit | Reduction Equipment Unit No. | Reduction Equipment Description | Date Installed (mm/dd/yyyy). | Reduced Pollutants | Reducing Emissions for Unit Numbers | Efficiency (% Reduction by Weight) | Method used to estimate reduction | Reduction Type | Complete |
|---|---|---|---|---|---|---|---|---|---|
| Edit | CAT-1 | NSCR (Non-Selective Catalytic Reduction) | | Carbon Monoxide | LPC-1_4072 | 81 | Design calculation | PRIMARY | ☑ |
| Edit | CAT-1 | NSCR (Non-Selective Catalytic Reduction) | | Nitrogen Dioxide | LPC-1_4072 | 96 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | PWTK-1_0224 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Total HAP | PWTK-1_0224 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | PWTK-2_0253 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Total HAP | PWTK-2_0253 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Total HAP | PWTK-3_0137 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | PWTK-3_0137 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | TK-1_0127 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Total HAP | TK-1_0127 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Total HAP | TK-2_0213 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | TK-2_0213 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Total HAP | TK-3_0194 | 98 | Design calculation | PRIMARY | ☑ |
| Edit | ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | TK-3_0194 | 98 | Design calculation | PRIMARY | ☑ |

Add Reduction Equipment for Unit [Select one] Add

How to complete the table: In the drop down, select regulated sources from Table 2A where emissions are reduced and click "Add." Then add reduced pollutants and associated reduction devices for each. If a pollutant has emissions reduced by more than one device please add a line for each device and label them as primary, secondary, tertiary. Click "Edit" to update reduced pollutants and devices for each regulated source.

Comments (4000 character maximum)

**List each reduction device and all sources they serve, e.g. FL-1: Oil tanks 1-4, loading, VRU downtime. FL-2: compressor and sales downtime. For NOIs, indicate the enforceability behind each device or clarify if it is voluntary and no credit is being claimed for the reduction, e.g., FL-1: Oil tanks 1-8 (OOOOa). FL-1: Loading (voluntary, no emissions reduction credit claimed.)**

CAT-1: LPC-1 (JJJJ, ZZZZ)
ECD-1: Oil Tanks 1-3 (OOOOa); Produced Water Tanks 1-3 (voluntary, no emission reduction credit claimed)
FL-1: stranded gas during pipeline downtime (voluntary, no emission reduction credit claimed)

## *Table 2-D: Maximum Emissions* (under normal operating conditions)

**This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | **EQPT-11** | **Active 09/15/2021** | FL-1_0538 | 0.020 | 0.088 | 0.045 | 0.20 | 0.035 | 0.15 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **RPNT-1** | **Active 09/15/2021** | FUG-1 | - | - | - | - | 1.34 | 5.85 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-9** | **Active 09/15/2021** | HT-1_6711 | 0.32 | 1.41 | 0.27 | 1.18 | 0.018 | 0.078 | 0.002 | 0.008 | - | - | 0.024 | 0.11 | - | - | - | - | ☑ |
| Edit | **EQPT-12** | **Active 09/15/2021** | LPC-1_4072 | 2.84 | 12.44 | 2.23 | 9.77 | 0.59 | 2.57 | 0.0005 | 0.0021 | 0.015 | 0.066 | 0.015 | 0.066 | - | - | - | - | ☑ |
| Edit | **EQPT-7** | **Active 09/15/2021** | OILLOAD-1 | - | - | - | - | 137.36 | 2.13 | - | - | - | - | - | - | 0.006 | 0.0001 | - | - | ☑ |
| Edit | **EQPT-8** | **Active 09/15/2021** | PWLOAD-1 | - | - | - | - | 1.34 | 0.42 | - | - | - | - | - | - | 0.011 | 0.003 | - | - | ☑ |
| Edit | **EQPT-4** | **Active 09/15/2021** | PWTK-1_0224 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - | ☑ |
| Edit | **EQPT-5** | **Active 09/15/2021** | PWTK-2_0253 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - | ☑ |
| Edit | **EQPT-6** | **Active 09/15/2021** | PWTK-3_0137 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - | ☑ |
| Edit | **AREA-1** | **Active 09/15/2021** | ROAD-1 | - | - | - | - | - | - | - | - | 2.20 | 0.38 | 0.22 | 0.038 | - | - | - | - | ☑ |
| Edit | **RPNT-2** | **Active 09/15/2021** | SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **EQPT-1** | **Active 09/15/2021** | TK-1_0127 | - | - | - | - | 200.79 | 80.80 | - | - | - | - | - | - | 0.009 | 0.003 | - | - | ☑ |
| Edit | **EQPT-2** | **Active 09/15/2021** | TK-2_0213 | - | - | - | - | 200.79 | 80.80 | - | - | - | - | - | - | 0.009 | 0.003 | - | - | ☑ |
| Edit | **EQPT-3** | **Active 09/15/2021** | TK-3_0194 | - | - | - | - | 200.79 | 80.80 | - | - | - | - | - | - | 0.009 | 0.003 | - | - | ☑ |
| Edit | **new** | **New** | ECD-1_6242 | 0.020 | 0.088 | 0.045 | 0.20 | 0.035 | 0.15 | 0 | 0 | - | - | - | - | 0 | 0 | - | - | ☑ |
| Edit | **new** | **New** | LPC-2_0693 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **new** | **New** | LPC-3_0680 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | **new** | **New** | ULPS-1_0640 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| | | | **Totals** | 3.2 | 14.03 | 2.59 | 11.35 | 746.3 | 260.8 | 0.0 | 0.01 | 2.22 | 0.45 | 0.26 | 0.21 | 0.05 | 0.03 | 0.0 | 0.0 | |

**[1] Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**Comments** (2000 character maximum)

## Table 2-E: Requested Allowable Emissions

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Facility totals are a summation of all the emissions entered for equipment in this table plus total tpy SSM emissions from Table 2F.
**GCP-O&G:** Combustion emissions from malfunction events are not allowed under this permit.

**NOI:** Malfunction emissions are not allowed under a Notice of Intent.

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | EQPT-11 | Active 09/15/2021 | FL-1_0538 | 0.020 | 0.088 | 0.045 | 0.20 | 0.035 | 0.15 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | RPNT-1 | Active 09/15/2021 | FUG-1 | - | - | - | - | 1.34 | 5.85 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-9 | Active 09/15/2021 | HT-1_6711 | 0.32 | 1.41 | 0.27 | 1.18 | 0.018 | 0.078 | 0.002 | 0.008 | - | - | 0.024 | 0.11 | - | - | - | - | ☑ |
| Edit | EQPT-12 | Active 09/15/2021 | LPC-1_4072 | 0.57 | 2.49 | 0.97 | 4.26 | 0.59 | 2.57 | 0.0005 | 0.0021 | 0.015 | 0.066 | 0.015 | 0.066 | - | - | - | - | ☑ |
| Edit | EQPT-7 | Active 09/15/2021 | OILLOAD-1 | - | - | - | - | 137.36 | 2.13 | - | - | - | - | - | - | 0.006 | 0.0001 | - | - | ☑ |
| Edit | EQPT-8 | Active 09/15/2021 | PWLOAD-1 | - | - | - | - | 1.34 | 0.42 | - | - | - | - | - | - | 0.011 | 0.003 | - | - | ☑ |
| Edit | EQPT-4 | Active 09/15/2021 | PWTK-1_0224 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - | ☑ |
| Edit | EQPT-5 | Active 09/15/2021 | PWTK-2_0253 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - | ☑ |
| Edit | EQPT-6 | Active 09/15/2021 | PWTK-3_0137 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - | ☑ |
| Edit | AREA-1 | Active 09/15/2021 | ROAD-1 | - | - | - | - | - | - | - | - | 2.20 | 0.38 | 0.22 | 0.038 | - | - | - | - | ☑ |
| Edit | RPNT-2 | Active 09/15/2021 | SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-1 | Active 09/15/2021 | TK-1_0127 | - | - | - | - | 4.02 | 1.62 | - | - | - | - | - | - | 0.0002 | 0.0001 | - | - | ☑ |
| Edit | EQPT-2 | Active 09/15/2021 | TK-2_0213 | - | - | - | - | 4.02 | 1.62 | - | - | - | - | - | - | 0.0002 | 0.0001 | - | - | ☑ |
| Edit | EQPT-3 | Active 09/15/2021 | TK-3_0194 | - | - | - | - | 4.02 | 1.62 | - | - | - | - | - | - | 0.0002 | 0.0001 | - | - | ☑ |
| Edit | new | New | ECD-1_6242 | 3.35 | 0.95 | 7.52 | 2.14 | 11.84 | 4.91 | 0.022 | 0.045 | - | - | - | - | 0.001 | 0.0002 | - | - | ☑ |
| Edit | new | New | LPC-2_0693 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | new | New | LPC-3_0680 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | new | New | ULPS-1_0640 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ☑ |
| | | | **SSM Totals** | 0.27 | 0.66 | 0.61 | 1.48 | 24.01 | 67.88 | 0.01 | 0.01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | **Totals** | 4.53 | 5.6 | 9.41 | 9.26 | 191.8 | 95.9 | 0.03 | 0.07 | 2.22 | 0.45 | 0.26 | 0.21 | 0.03 | 0.02 | 0.0 | 0.0 | |

**[1]Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**Comments** (2000 character maximum)

## Table 2-F: Startup, Shutdown, and Routine Maintenance (SSM) Emissions

☐ **This table is intentionally left blank as all SSM emissions at this facility do not require an increase in Requested Allowables greater than those listed in Table 2-E.**

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)2, including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). Provide emissions calculations for all SSM emissions reported in this table. Refer to the guidance "Startup, Shutdown, Maintenance Emissions in Permits" (www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Edit | NMED SI ID | NMED SI Status | Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | EQPT-11 | Active 09/15/2021 | FL-1_0538 | 0.27 | 0.66 | 0.61 | 1.48 | 24.01 | 57.88 | 0.005 | 0.012 | - | - | - | - | 0.002 | 0.004 | - | - | ☑ |
| Edit | RPNT-1 | Active 09/15/2021 | FUG-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-9 | Active 09/15/2021 | HT-1_6711 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-12 | Active 09/15/2021 | LPC-1_4072 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-7 | Active 09/15/2021 | OILLOAD-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-8 | Active 09/15/2021 | PWLOAD-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-4 | Active 09/15/2021 | PWTK-1_0224 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-5 | Active 09/15/2021 | PWTK-2_0253 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-6 | Active 09/15/2021 | PWTK-3_0137 | | | | | | | | | | | | | | | | | ☑ |
| Edit | AREA-1 | Active 09/15/2021 | ROAD-1 | | | | | | | | | | | | | | | | | ☑ |
| Edit | RPNT-2 | Active 09/15/2021 | SSM | - | - | - | - | - | 10.0 | - | - | - | - | - | - | - | - | - | - | ☑ |
| Edit | EQPT-1 | Active 09/15/2021 | TK-1_0127 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-2 | Active 09/15/2021 | TK-2_0213 | | | | | | | | | | | | | | | | | ☑ |
| Edit | EQPT-3 | Active 09/15/2021 | TK-3_0194 | | | | | | | | | | | | | | | | | ☑ |
| Edit | new | New | ECD-1_6242 | | | | | | | | | | | | | | | | | ☑ |
| Edit | new | New | LPC-2_0693 | | | | | | | | | | | | | | | | | ☑ |
| Edit | new | New | LPC-3_0680 | | | | | | | | | | | | | | | | | ☑ |
| Edit | new | New | ULPS-1_0640 | | | | | | | | | | | | | | | | | ☑ |
| | | | **Totals** | 0.27 | 0.66 | 0.61 | 1.48 | 24.01 | 67.88 | 0.005 | 0.012 | 0.0 | 0.0 | 0.0 | 0.0 | 0.002 | 0.004 | 0.0 | 0.0 | |

**[1]Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**[2]For instance, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in the table below. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.**

**Comments** (2000 character maximum)

## Table 2-H: Stack Exit Conditions

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Please enter the stack information for the original source, not the control or reduction equipment.

For equipment that doesn't have an actual stack or fugitive stack please just list it as having a default fugitive stack with a height of 10 ft. This field is required by our database.

| Edit | Stack Description | Unit number | Orientation (H=Horizontal V=Vertical) | Rain Caps (Yes or No) | Height Above Ground (ft) | Temp. (F) | Flow Rate (acfs) | Flow Rate (dscfs) | Moisture by Volume (%) | Velocity (ft/sec) | Inside Diameter (ft) | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | FL-1 HP | FL-1_0538 | Vertical | No | 40 | 2100 | 4.17 | | | 1.33 | 2.0 | ☑ |
| Edit | FUG-1 | FUG-1 | Fugitive | No | 3 | | | | | | | ☑ |
| Edit | HT-1 | HT-1_6711 | Vertical | No | 30 | 1140 | 24.93 | | | 29.77 | 1.03 | ☑ |
| Edit | LPC 1- GM 5.7L 92 HP | LPC-1_4072 | Vertical | No | 8.8 | 1200 | 10.83 | | | 220.69 | 0.25 | ☑ |
| Edit | OILLOAD-1 | OILLOAD-1 | Fugitive | No | 3 | | | | | | | ☑ |
| Edit | PWLOAD-1 | PWLOAD-1 | Fugitive | No | 3 | | | | | | | ☑ |
| Edit | PWTK-1_0224 | PWTK-1_0224 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | PWTK-2_0253 | PWTK-2_0253 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | 750 bbl Water Tank | PWTK-3_0137 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | ROAD-1 | ROAD-1 | Fugitive | No | 3 | | | | | | | ☑ |
| Edit | SSM | SSM | Fugitive | No | 10 | | | | | | | ☑ |
| Edit | 750 bbl Crude Oil Tank | TK-1_0127 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | 750 bbl Crude Oil Tank | TK-2_0213 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | 750 bbl Crude Oil Tank | TK-3_0194 | Fugitive | No | 24 | | | | | | | ☑ |
| Edit | ECD-1_6242 | ECD-1_6242 | Vertical | No | 20 | 1400 | 754.2 | | | 60 | 4 | ☑ |
| Edit | LPC-2_0693 | LPC-2_0693 | Fugitive | No | 3 | | | | | | | ☑ |
| Edit | LPC-3_0680 | LPC-3_0680 | Fugitive | No | 3 | | | | | | | ☑ |
| Edit | ULPS-1_0640 | ULPS-1_0640 | Fugitive | No | 30 | | | | | | | ☑ |

Add Stack Conditions to Select one Add

**Comments** (2000 character maximum)

## Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

☐ **By marking this table as intentionally left blank, you certify that the Total and individual HAPs for this facility are less than 1 ton per year.**

Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.

**GCPs:** Report the potential emission rate for each HAP from each HAP emitting emission unit listed in Table 2A. For each emission unit, HAPs shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Emissions less than 0.0001 lb/hr or 0.0001 tpy and emission units that do not emit HAPs shall be omitted from the table. Each facility-wide Individual HAP total and the facility-wide Total HAPs is the sum of all HAP sources entered in the Table. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAA. Include tank-flashing emission estimates of HAP in this table.

**NOIs:** Report the individual and/or Total HAPs for each piece of equipment in Table 2A, only if the facility total for that pollutant is greater than or equal to 1 tpy.

| Edit | Unit No. | Total HAPs | | Benzene HAP | | Hexane HAP | | Toluene; (Methyl benzene) HAP | | | | | | | | | | | | | | | | | | | | Complete |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | |
| Edit | FL-1_0538 | 2.42 | 5.79 | 0.13 | 0.21 | 2.26 | 5.40 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | FUG-1 | 0.13 | 0.58 | 0.004 | 0.020 | 0.11 | 0.49 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | HT-1_6711 | 0.006 | 0.027 | | | 0.006 | 0.025 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | LPC-1_4072 | 0.003 | 0.1 | 0.001 | 0.006 | | | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | OILLOAD-1 | 13.28 | 0.21 | 0.47 | 0.007 | 12.42 | 0.19 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | PWLOAD-1 | 1.05 | 0.24 | 0.57 | 0.13 | 0.002 | 0.001 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | PWTK-1_0224 | 0.30 | 0.46 | 0.15 | 0.22 | 0.019 | 0.044 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | PWTK-2_0253 | 0.30 | 0.46 | 0.15 | 0.22 | 0.019 | 0.044 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | PWTK-3_0137 | 0.30 | 0.46 | 0.15 | 0.22 | 0.019 | 0.044 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | TK-1_0127 | 0.46 | 0.18 | 0.016 | 0.006 | 0.43 | 0.17 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | TK-2_0213 | 0.46 | 0.18 | 0.016 | 0.006 | 0.43 | 0.17 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | TK-3_0194 | 0.46 | 0.18 | 0.016 | 0.006 | 0.43 | 0.17 | | | | | | | | | | | | | | | | | | | | | ☑ |
| Edit | ECD-1_6242 | 1.36 | 0.54 | 0.047 | 0.019 | 1.27 | 0.51 | | | | | | | | | | | | | | | | | | | | | ☑ |
| | **Totals** | 20.53 | 9.41 | 1.72 | 1.07 | 17.41 | 7.26 | 0.0 | 0.0 | | | | | | | | | | | | | | | | | | | |

Add Stack Emissions to Select one Add

**Comments** (2000 character maximum)

## Table 2-J: Fuel Usage

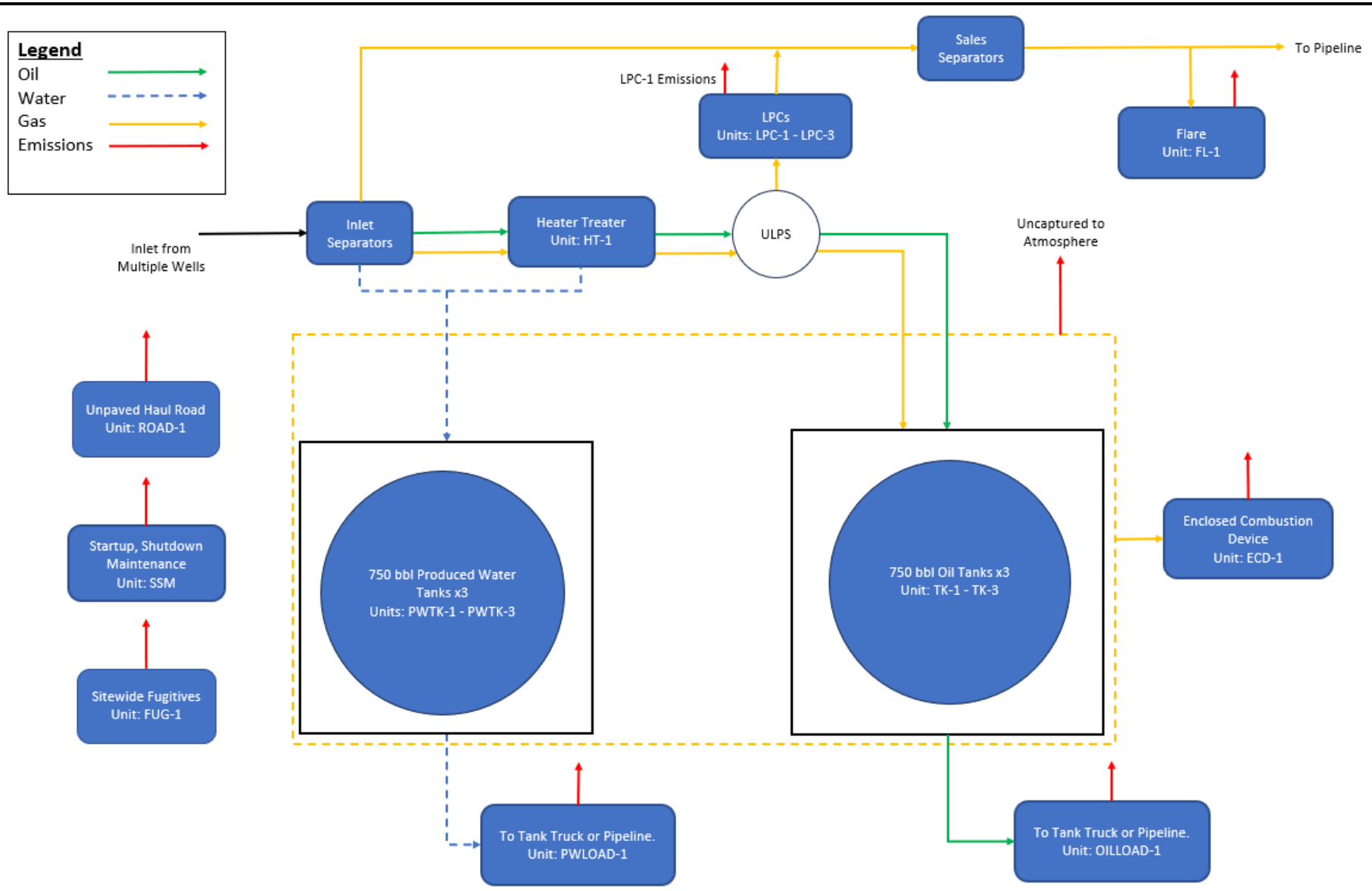
☐ **This Table was intentionally left blank.**

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Specify fuel characteristics and usage. This information should be for fuel used to operate the equipment (e.g. the pilot) not the amount of gas or fuel processed.

| Edit | Unit No. | Fuel Type (No. 2 Diesel, Natural Gas, Coal, ...) | Specify Units | | | | | Complete |
|---|---|---|---|---|---|---|---|---|
| | | | Lower Heating Value | Hourly Usage | Annual Usage (maximum) | % Sulfur | % Ash | |
| Edit | FL-1_0538 | Natural Gas | 1116.49 BTU/SCF | | 1.14 MM SCF/y | | | ☑ |
| Edit | HT-1_6711 | Natural Gas | 1116.49 BTU/SCF | | 23.54 MM SCF/y | | | ☑ |
| Edit | LPC-1_4072 | Natural Gas | 1116.49 BTU/SCF | | 6.32 MM SCF/y | | | ☑ |
| Edit | ECD-1_6242 | Natural Gas | 1116.49 BTU/SCF | | 1.14 MM SCF/y | | | ☑ |

**Comments** (2000 character maximum)




RESOLUTE COMPLIANCE, LLC
Purposeful Solutions. Unwavering Service.

**Devon Energy Production Company, LP**
**Broadside 12 Facility 2**
**Lea County, NM**

## Process Flow Diagram

**Project No. Env-Devon-Broadside 12 Facility 2**
**Report No. NOI-0011**
**Date: October 2024**

**Section 3**

New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico, 87505

Phone (505) 476-4300
Fax (505) 476-4375
www.env.nm.gov/aqb

**AQB ePermitting Portal**

# Abbreviated Application (Notice of Intent)

☒ 1. I understand that I must submit the hard copy check and required Payment Information Form for all AQB ePermitting Portal Submittals before it will be assigned, and the 30-day review period begins.

☒ 2. I understand the AQB ePermitting Portal is a new program and I will use the Request NMED Support function in the Portal to: request help, report issues (bugs), and to provide my constructive feedback for improving the Portal.

# Section 1

## Facility Name or Facility Type Change for Modifications

Fill out this section if requesting a change to the facility name or facility type that appears in the ePermitting Portal. These items cannot be updated through the Portal and will be corrected as part of the review of your permit.

Check the appropriate box(es) and provide complete information in the table.

☒ 1. Changing facility name. (Punctuation and special characters not allowed. Use “No123” instead of #123)
☐ 2. Changing facility type.

| | | | |
|---|---|---|---|
| **1a** | **Current Facility Name:**<br>Devon – Broadside 12 Facility 2 | **1b** | **New Facility Name:**<br>Broadside 12 Facility 2 |
| **2a** | **Current Facility Type:**<br>☐ Production Site<br>☐ Tank Battery<br>☐ Compressor Station<br>☐ Natural Gas Plant<br>☐ Reinjection facility<br>☐ Well head<br>☐ Misc Oil and Gas<br>☐ Amine Plant<br>☐ Energy Support Facility<br>☐ Other, please specify: _____ | **2b** | **New Facility Type:**<br>☐ Production Site<br>☐ Tank Battery<br>☐ Compressor Station<br>☐ Natural Gas Plant<br>☐ Reinjection facility<br>☐ Well head<br>☐ Misc Oil and Gas<br>☐ Amine Plant<br>☐ Energy Support Facility |

New Mexico Environment Department
Air Quality Bureau
Permitting Section
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505-1816

Phone: (505) 476-4300
Fax: (505) 476-4375
www.env.nm.gov/air-quality/

**For Department use only:**

# Electronic Permitting Application

**Use this application for NOI and GCP-Oil and Gas Permits.**

Use this application for: the initial application, modifications, revisions and when converting from another permit type. Please fill out all sections so that they have check marks and attach all required documents for review. Coordination with AQB is encouraged for first time users. Please use the Request NMED Support button if you would like to set up a walk through.

## Section 1 - Facility Information

**Section 1-A: Company Information -**
**Last modified by Kimbrell, Leslee on 10/22/24 at 11:56:41.**

| | | | |
|---|---|---|---|
| 1 | **Facility Name:** Devon - Broadside 12 Facility 2 | AI # (if known): 40140 | Updating permit #: 9357 |
| a | SIC Code: 1311 - Crude petroleum and natural gas<br>NAICS Code: 21112 - Crude Petroleum Extraction<br>Facility Type: 146 - Oil & Gas  Secondary Facility Type: 272 - O&G-Production Facility | Reset Selections | |
| 2 | **Company Name (Owns facility):** Devon Energy Production Company LP  Update **EXISTING** | Phone: 405-235-3611 | Fax: 405-552-4550 |
| a | Mailing Address: 333 West Sheridan Avenue  Address 2:  City: Oklahoma City  State: Oklahoma  ZIP Code: 73102 | | |
| 3 | **Billing Party:** Devon Energy Production Company LP  New Update Remove **EXISTING** | | |
| a | Mailing Address: 333 West Sheridan Avenue  Address 2:  City: Oklahoma City  State: Oklahoma  ZIP Code: 73102  Phone: 405-235-3611  Fax: 405-552-4550 | | |
| 4 | **Consultant Company:** Resolute Compliance LLC  New Update Remove **EXISTING** | | |
| a | Mailing Address: PO Box 970  Address 2:  City: Royse City  State: Texas  ZIP Code: 75189  Phone: 817-821-6526  Fax: | | |
| 5 | **Consultant / Preparer Contact:** Find Existing By Email Address:  Look Up New Update Remove **UPDATED**<br>First Name: Kayla  M.I.:  Last Name: Curtis  Title: Environmental Manager | Phone: 817-821-6526  Fax:<br>Email: kc@resolutecompliance.com | |
| a | Mailing Address: PO Box 970  Address 2:  City: Royse City  State: Texas  ZIP Code: 75189 | | |
| 6 | **Plant Operator Company:** Devon Energy Production Company LP  Update **EXISTING** | | |
| a | Plant Operator Company Address: 333 West Sheridan Avenue  Address 2:  City: Oklahoma City  State: Oklahoma  ZIP Code: 73102  Phone: 405-235-3611  Fax: 405-552-4550 | | |
| b | **Plant Operator Contact:** Find Existing By Email:  Look Up New Update Remove **EXISTING**<br>First Name: Clarence  M.I.:  Last Name: McDonald  Title: Operator | Phone: 405-552-7977  Fax:<br>Email: peter.mcdonald@dvn.com | |
| c | Mailing Address: 333 West Sheridan Avenue  Address 2:  City: Oklahoma City  State: Oklahoma  ZIP Code: 73102 | | |
| 7 | **Air Permit Contact:** Find Existing By Email Address:  Look Up New Update Remove **EXISTING** | | |
| a | First Name: Aaron  M.I.:  Last Name: Yotter  Title: EHS Compliance Specialist | Phone: 405-228-7270  Fax:<br>Email: aaron.yotter@dvn.com | |
| b | Mailing Address: 333 West Sheridan Ave  Address 2:  City: Oklahoma City  State: Oklahoma  ZIP Code: 73102-5010 | | |

## Section 1-C: Facility Input Capacity & Production Rate - Devon - Broadside 12 Facility 2

**Last modified by Kimbrell, Leslee on 10/22/24 at 13:19:41.**

Enter the maximum hourly, daily, and annually throughput of oil, gas, natural gas liquids (NGL), and produced water.

| | | | | |
|---|---|---|---|---|
| 1 | **Oil** | | | |
| a | Current: | Hourly: 625 bbl/h | Daily: 15000 bbl/d | Annually: 2372500 bbl/y |
| b | Proposed | Hourly: 104.17 bbl/h | Daily: 1200 bbl/d | Annually: 438000 bbl/y |
| 2 | **Natural Gas** | | | |
| a | Current | Hourly: 1458.33 M SCF/h | Daily: 35 MM SCF/d | Annually: 6205 MM SCF/y |
| b | Proposed | Hourly: 333.33 M SCF/h | Daily: 4400 M SCF/d | Annually: 1606 MM SCF/y |
| 3 | **Natural Gas Liquids** | | | |
| a | Current | Hourly: | Daily: | Annually: |
| b | Proposed | Hourly: | Daily: | Annually: |
| 4 | **Produced Water** | | | |
| a | Current | Hourly: 1458.33 bbl/h | Daily: 35000 bbl/d | Annually: 6205000 bbl/y |
| b | Proposed | Hourly: 187.50 bbl/h | Daily: 2400 bbl/d | Annually: 876000 bbl/y |

## Section 1-D: Facility Location Information - Devon - Broadside 12 Facility 2

**Last modified by Kimbrell, Leslee on 10/22/24 at 11:43:40.**

| | | |
|---|---|---|
| 1 | County: Lea | Elevation (ft): 3606 |
| 2 | UTM Zone: ○ 12 or ◉ 13 | Datum: ◉ NAD 83 ○ WGS 84 |
| a | UTM E (in meters, to nearest 10 meters): 639,640 | UTM N (in meters, to nearest 10 meters): 3,566,440 |
| b | Latitude: 32.225931 dec deg. N | Longitude: -103.518415 dec deg. W |
| 3 | Facility/Plant Address: 20.7 mi WNW of Jal<br>(If no facility street address, leave blank) | City: Jal<br>State: New Mexico<br>ZIP Code: 88252<br>District: 004 - IV<br>Field Office: Select one |
| 4 | The facility is 20.7 miles NW of Jal (nearest town). | |
| 5 | Detailed Driving Instructions from nearest NM town (attach a road map if necessary):<br>From the intersection of S 3rd St. and NM-128 W, go W on NM-128 W for 20.4 mi. Go north on Delaware Basin Rd for 1.0 mi. Go west on lease road for 0.4 mi to site on north side of road. | |
| 6 | Status of land at facility: Federal - BLM | |
| 7 | Select nearest Class I area: Class I - Carlsbad Caverns National Park | |
| 8 | Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 80.4 km | |
| 9 | Is this a portable stationary source as defined in 20.2.72.7.X NMAC?<br>○ Yes ◉ No | |
| 10 | Will this facility operate in conjunction with other air regulated parties on the same property?<br>○ Yes ◉ No<br>If yes, what is the name and permit number (if known) of the other facility? | |

## Section 1-F - Current Facility Status - Devon - Broadside 12 Facility 2

**Last modified by Kimbrell, Leslee on 22-OCT-24.**

| | | | |
|---|---|---|---|
| 1 | Has this Facility already been constructed?<br>(●) Yes ( ) No | If yes, is it currently operating in New Mexico?<br>(●) Yes ( ) No | |
| 2 | Does this facility currently have a construction permit or Notice of Intent (NOI) (20.2.72 NMAC or 20.2.73 NMAC)?<br>(●) Yes ( ) No | If yes, the permit No or NOI No:<br>9357 | Will it remain active or not:<br>( ) Yes (●) No |
| 3 | Is this Registration in response to a Notice of Violation (NOV)?<br>( ) Yes (●) No<br>If so, provide current permit #: | If yes,NOV date: | NOV tracking No: |
| 4 | Facility is Notice of Intent | | |

**Table 2-A: Regulated Emission Sources**

| Unit Number[1] | Source Description | Manufacturer | Model # | Serial # | Combustion Type | Rated Capacity[3] | Permitted Capacity[3] | Date[2] of Manufacture or Reconstruction<br>Date[2] of Installation /Construction | Controlled by Unit #<br>Emissions vented to Stack # | Source Classification Code (SCC) | Disposition | Applicable State & Federal Regulation(s) (i.3. 20.x.x, JJJJ, ...) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FL-1 | Process Flare -LP 15.5 MMscfd | Zeeco | | TBD | | 15.50 MM SCF/d | 15.50 MM SCF/d | | | 3-10-001-60 | To Be Removed | NA |
| FL-1_0538 | HP-Flare_EQ000870538 | Zeeco | AFDS-4D/24-40-KO | 49713-002 | Flare | 15.50 MM SCF/d | 15.50 MM SCF/d | 01/01/21<br>02/01/22 | NA<br>FL-1 | 3-10-001-60 | To Be Revised | NA |
| FUG-1 | Sitewide Fugitives | NA | NA | NA | | | | | NA<br>FUG-1 | 3-10-888-11 | To Be Revised | 40 CFR 60 Subpart OOOOa |
| HT-1_6711 | Heater Treater_EQ000696711 | Cimmaron Energy Inc | NA | M-13389 | | 3.00 MM BTU/h | 3.00 MM BTU/h | 12/01/20<br>02/01/22 | NA<br>HT-1 | 3-10-004-04 | To Be Revised | NA |
| LPC-1_4072 | GM 5.7L 92 HP Engine_EQ000184072 | GM | 5.7L | 10CHMM405270003 | | 92.00 hp | 92.00 hp | 05/01/14<br>02/01/22 | NA<br>LPC-1 | 2-02-002-53 | To Be Revised | 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ |
| OILLOAD-1 | Crude Loading | NA | NA | NA | | 18396000 gal/y | 18396000 gal/y | | NA<br>OILLOAD-1 | 4-06-001-32 | To Be Revised | NA |
| PWLOAD-1 | Water Loading | NA | NA | NA | | 36792000.00 gal/y | 36792000.00 gal/y | | NA<br>PWLOAD-1 | 4-06-001-32 | To Be Revised | NA |
| PWTK-1_0224 | 750 bbl Water Tank_EQ000870224 | Angelina Tank & Mfg | NA | 71155 | | 750.00 bbl | 750.00 bbl | 02/01/21<br>02/01/22 | ECD-1<br>PWTK-1/ ECD-1 | 4-04-003-15 | To Be Revised | NA |
| PWTK-2_0253 | 750 bbl Water Tank_EQ000870253 | Angelina Tank & Mfg | NA | 71154 | | 750.00 bbl | 750.00 bbl | 02/01/21<br>02/01/22 | ECD-1<br>PWTK-2/ ECD-1 | 4-04-003-15 | To Be Revised | NA |
| PWTK-3_0137 | 750 bbl Water Tank_EQ000870137 | Angelina Tank & Mfg | NA | 71158 | | 750 bbl | 750 bbl | 02/01/21<br>02/01/22 | ECD-1<br>PWTK-3/ ECD-1 | 4-04-003-15 | To Be Revised | NA |
| ROAD-1 | Unpaved Haul Roads | NA | NA | NA | | | | | NA<br>ROAD-1 | 3-10-888-11 | To Be Revised | NA |
| SSM | Startup,shutdown, maintenance | NA | NA | NA | | | | | NA<br>SSM | 3-10-888-11 | Existing (unchanged) | NA |
| TK-1_0127 | 750 bbl Crude Oil Tank_EQ000870127 | Angelina Tank & Mfg | NA | 71086 | | 750.00 bbl | 750.00 bbl | 07/01/20<br>02/01/22 | ECD-1<br>TK-1/ECD-1 | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa |
| TK-2_0213 | 750 bbl Crude Oil Tank_EQ000870213 | Angelina Tank & Mfg | NA | 71087 | | 750.00 bbl | 750.00 bbl | 07/01/20<br>02/01/22 | ECD-1<br>TK-2/ECD-1 | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa |
| TK-3_0194 | 750 bbl Crude Oil Tank_EQ000870194 | Angelina Tank & Mfg | NA | 71090 | | 750 bbl | 750 bbl | 07/01/20<br>02/01/22 | ECD-1<br>TK-3/ECD-1 | 4-04-003-12 | To Be Revised | 40 CFR 60 Subpart OOOOa |
| ECD-1_6242 | Combustor_EQ001596242 | Mission | MC-4820 | 23285-E7 | ECD/VCU | 18.50 MM BTU/h | 18.50 MM BTU/h | 01/01/23<br>01/01/24 | NA<br>FL-1 | 3-10-001-60 | New/ Additional | 40 CFR 60 Subpart OOOOa |
| LPC-2_0693 | Electric LPC_EQ000870693 | Toshiba | B1504FLF3USH | 130401251 | | | | 04/01/13<br>02/01/22 | | 3-10-002-03 | New/ Additional | NA |
| LPC-3_0680 | Electric LPC_EQ000870680 | Toshiba | B1504FLF3USH | F1502255801 | | | | 11/01/15<br>02/01/22 | | 3-10-002-03 | New/ Additional | NA |
| ULPS-1_0640 | Ultra Low Pressure Separator_EQ000870640 | Forum | NA | GP490-01 | | | | 01/01/21<br>02/01/22 | NA<br>TK-1 - TK-3 | 3-10-001-29 | New/ Additional | NA |

[1] Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.

[2] Specify dates required to determine regulatory applicability. If only year or month is known use 01/01/yyyy or mm/01/yyyy.

[3] To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

## Table 2C - Emissions Reduction Equipment

☐ **This Table was intentionally left blank.**

In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions. **Also include reductions from process equipment in this table. Entering process equipment in this table is for data entry purposes only, the process vs control analysis will be used to determine process or control status for VRUs.** Only list control equipment for TAPs if the TAPs maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B.

| Reduction Equipment Unit No. | Reduction Equipment Description | Date Installed (mm/dd/yyyy). | Reduced Pollutants | Reducing Emissions for Unit Numbers | Efficiency (% Reduction by Weight) | Method used to estimate reduction | Reduction Type |
|---|---|---|---|---|---|---|---|
| CAT-1 | NSCR (Non-Selective Catalytic Reduction) | | Carbon Monoxide | LPC-1_4072 | 81 | Design calculation | PRIMARY |
| CAT-1 | NSCR (Non-Selective Catalytic Reduction) | | Nitrogen Dioxide | LPC-1_4072 | 96 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | PWTK-1_0224 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Total HAP | PWTK-1_0224 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | PWTK-2_0253 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Total HAP | PWTK-2_0253 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Total HAP | PWTK-3_0137 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | PWTK-3_0137 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | TK-1_0127 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Total HAP | TK-1_0127 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Total HAP | TK-2_0213 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | TK-2_0213 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Total HAP | TK-3_0194 | 98 | Design calculation | PRIMARY |
| ECD-1 | ECD/VCU | | Volatile Organic Compounds (VOC) | TK-3_0194 | 98 | Design calculation | PRIMARY |

How to complete the table: In the drop down, select regulated sources from Table 2A where emissions are reduced and click "Add." Then add reduced pollutants and associated reduction devices for each. If a pollutant has emissions reduced by more than one device please add a line for each device and label them as primary, secondary, tertiary. Click "Edit" to update reduced pollutants and devices for each regulated source.

Comments (4000 character maximum)

**List each reduction device and all sources they serve, e.g. FL-1: Oil tanks 1-4, loading, VRU downtime. FL-2: compressor and sales downtime. For NOIs, indicate the enforceability behind each device or clarify if it is voluntary and no credit is being claimed for the reduction, e.g., FL-1: Oil tanks 1-8 (OOOOa). FL-1: Loading (voluntary, no emissions reduction credit claimed.)**

CAT-1: LPC-1 (JJJJ, ZZZZ)
ECD-1: Oil Tanks 1-3 (OOOOa); Produced Water Tanks 1-3 (voluntary, no emission reduction credit claimed)
FL-1: stranded gas during pipeline downtime (voluntary, no emission reduction credit claimed)

## Table 2-D: Maximum Emissions (under normal operating conditions)

**This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| FL-1_0538 | 0.020 | 0.088 | 0.045 | 0.20 | 0.035 | 0.15 | - | - | - | - | - | - | - | - | - | - |
| FUG-1 | - | - | - | - | 1.34 | 5.85 | - | - | - | - | - | - | - | - | - | - |
| HT-1_6711 | 0.32 | 1.41 | 0.27 | 1.18 | 0.018 | 0.078 | 0.002 | 0.008 | - | - | 0.024 | 0.11 | - | - | - | - |
| LPC-1_4072 | 2.84 | 12.44 | 2.23 | 9.77 | 0.59 | 2.57 | 0.0005 | 0.0021 | 0.015 | 0.066 | 0.015 | 0.066 | - | - | - | - |
| OILLOAD-1 | - | - | - | - | 137.36 | 2.13 | - | - | - | - | - | - | 0.006 | 0.0001 | - | - |
| PWLOAD-1 | - | - | - | - | 1.34 | 0.42 | - | - | - | - | - | - | 0.011 | 0.003 | - | - |
| PWTK-1_0224 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - |
| PWTK-2_0253 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - |
| PWTK-3_0137 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - |
| ROAD-1 | - | - | - | - | - | - | - | - | 2.20 | 0.38 | 0.22 | 0.038 | - | - | - | - |
| SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-1_0127 | - | - | - | - | 200.79 | 80.80 | - | - | - | - | - | - | 0.009 | 0.003 | - | - |
| TK-2_0213 | - | - | - | - | 200.79 | 80.80 | - | - | - | - | - | - | 0.009 | 0.003 | - | - |
| TK-3_0194 | - | - | - | - | 200.79 | 80.80 | - | - | - | - | - | - | 0.009 | 0.003 | - | - |
| ECD-1_6242 | 0.020 | 0.088 | 0.045 | 0.20 | 0.035 | 0.15 | 0 | 0 | - | - | - | - | 0 | 0 | - | - |
| LPC-2_0693 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LPC-3_0680 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ULPS-1_0640 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Totals** | 3.2 | 14.03 | 2.59 | 11.35 | 746.3 | 260.8 | 0.0 | 0.01 | 2.22 | 0.45 | 0.26 | 0.21 | 0.05 | 0.03 | 0.0 | 0.0 |

**[1]Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

Comments (2000 character maximum)

## Table 2-E: Requested Allowable Emissions

Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Facility totals are a summation of all the emissions entered for equipment in this table plus total tpy SSM emissions from Table 2F.
**GCP-O&G:** Combustion emissions from malfunction events are not allowed under this permit.

**NOI:** Malfunction emissions are not allowed under a Notice of Intent.

| Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| FL-1_0538 | 0.020 | 0.088 | 0.045 | 0.20 | 0.035 | 0.15 | - | - | - | - | - | - | - | - | - | - |
| FUG-1 | - | - | - | - | 1.34 | 5.85 | - | - | - | - | - | - | - | - | - | - |
| HT-1_6711 | 0.32 | 1.41 | 0.27 | 1.18 | 0.018 | 0.078 | 0.002 | 0.008 | - | - | 0.024 | 0.11 | - | - | - | - |
| LPC-1_4072 | 0.57 | 2.49 | 0.97 | 4.26 | 0.59 | 2.57 | 0.0005 | 0.0021 | 0.015 | 0.066 | 0.015 | 0.066 | - | - | - | - |
| OILLOAD-1 | - | - | - | - | 137.36 | 2.13 | - | - | - | - | - | - | 0.006 | 0.0001 | - | - |
| PWLOAD-1 | - | - | - | - | 1.34 | 0.42 | - | - | - | - | - | - | 0.011 | 0.003 | - | - |
| PWTK-1_0224 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - |
| PWTK-2_0253 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - |
| PWTK-3_0137 | - | - | - | - | 1.07 | 2.35 | - | - | - | - | - | - | 0.003 | 0.005 | - | - |
| ROAD-1 | - | - | - | - | - | - | - | - | 2.20 | 0.38 | 0.22 | 0.038 | - | - | - | - |
| SSM | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TK-1_0127 | - | - | - | - | 4.02 | 1.62 | - | - | - | - | - | - | 0.0002 | 0.0001 | - | - |
| TK-2_0213 | - | - | - | - | 4.02 | 1.62 | - | - | - | - | - | - | 0.0002 | 0.0001 | - | - |
| TK-3_0194 | - | - | - | - | 4.02 | 1.62 | - | - | - | - | - | - | 0.0002 | 0.0001 | - | - |
| ECD-1_6242 | 3.35 | 0.95 | 7.52 | 2.14 | 11.84 | 4.91 | 0.022 | 0.045 | - | - | - | - | 0.001 | 0.0002 | - | - |
| LPC-2_0693 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LPC-3_0680 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ULPS-1_0640 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **SSM Totals** | 0.27 | 0.66 | 0.61 | 1.48 | 24.01 | 67.88 | 0.01 | 0.01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Totals** | 4.53 | 5.6 | 9.41 | 9.26 | 191.8 | 95.9 | 0.03 | 0.07 | 2.22 | 0.45 | 0.26 | 0.21 | 0.03 | 0.02 | 0.0 | 0.0 |

**[1]Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

Comments (2000 character maximum)

## Table 2-F: Startup, Shutdown, and Routine Maintenance (SSM) Emissions

**This table is intentionally left blank as all SSM emissions at this facility do not require an increase in Requested Allowables greater than those listed in Table 2-E.**

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)[2], including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). Provide emissions calculations for all SSM emissions reported in this table. Refer to the guidance "Startup, Shutdown, Maintenance Emissions in Permits" ( www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

| Unit No. | NOx | | CO | | VOC | | SOx | | PM10[1] | | PM2.5[1] | | $H_2S$ | | Lead | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| FL-1_0538 | 0.27 | 0.66 | 0.61 | 1.48 | 24.01 | 57.88 | 0.005 | 0.012 | - | - | - | - | 0.002 | 0.004 | - | - |
| FUG-1 | | | | | | | | | | | | | | | | |
| HT-1_6711 | | | | | | | | | | | | | | | | |
| LPC-1_4072 | | | | | | | | | | | | | | | | |
| OILLOAD-1 | | | | | | | | | | | | | | | | |
| PWLOAD-1 | | | | | | | | | | | | | | | | |
| PWTK-1_0224 | | | | | | | | | | | | | | | | |
| PWTK-2_0253 | | | | | | | | | | | | | | | | |
| PWTK-3_0137 | | | | | | | | | | | | | | | | |
| ROAD-1 | | | | | | | | | | | | | | | | |
| SSM | - | - | - | - | - | 10.0 | - | - | - | - | - | - | - | - | - | - |
| TK-1_0127 | | | | | | | | | | | | | | | | |
| TK-2_0213 | | | | | | | | | | | | | | | | |
| TK-3_0194 | | | | | | | | | | | | | | | | |
| ECD-1_6242 | | | | | | | | | | | | | | | | |
| LPC-2_0693 | | | | | | | | | | | | | | | | |
| LPC-3_0680 | | | | | | | | | | | | | | | | |
| ULPS-1_0640 | | | | | | | | | | | | | | | | |
| **Totals** | 0.27 | 0.66 | 0.61 | 1.48 | 24.01 | 67.88 | 0.005 | 0.012 | 0.0 | 0.0 | 0.0 | 0.0 | 0.002 | 0.004 | 0.0 | 0.0 |

**[1] Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.**

**[2]For instance, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in the table below. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.**

Comments (2000 character maximum)

## Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

☐ **By marking this table as intentionally left blank, you certify that the Total and individual HAPs for this facility are less than 1 ton per year.**

Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.

**GCPs:** Report the potential emission rate for each HAP from each HAP emitting emission unit listed in Table 2A. For each emission unit, HAPs shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Emissions less than 0.0001 lb/hr or 0.0001 tpy and emission units that do not emit HAPs shall be omitted from the table. Each facility-wide Individual HAP total and the facility-wide Total HAPs is the sum of all HAP sources entered in the Table. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAA. Include tank-flashing emission estimates of HAP in this table.

**NOIs:** Report the individual and/or Total HAPs for each piece of equipment in Table 2A, only if the facility total for that pollutant is greater than or equal to 1 tpy.

| Unit No. | Total HAPs | | Benzene HAP | | Hexane HAP | | Toluene; (Methyl benzene) HAP | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr | lb/hr | ton/yr |
| FL-1_0538 | 2.42 | 5.79 | 0.13 | 0.21 | 2.26 | 5.40 | | | | | | | | | | | | | | | | | | | | |
| FUG-1 | 0.13 | 0.58 | 0.004 | 0.020 | 0.11 | 0.49 | | | | | | | | | | | | | | | | | | | | |
| HT-1_6711 | 0.006 | 0.027 | | | 0.006 | 0.025 | | | | | | | | | | | | | | | | | | | | |
| LPC-1_4072 | 0.003 | 0.1 | 0.001 | 0.006 | | | | | | | | | | | | | | | | | | | | | | |
| OILLOAD-1 | 13.28 | 0.21 | 0.47 | 0.007 | 12.42 | 0.19 | | | | | | | | | | | | | | | | | | | | |
| PWLOAD-1 | 1.05 | 0.24 | 0.57 | 0.13 | 0.002 | 0.001 | | | | | | | | | | | | | | | | | | | | |
| PWTK-1_0224 | 0.30 | 0.46 | 0.15 | 0.22 | 0.019 | 0.044 | | | | | | | | | | | | | | | | | | | | |
| PWTK-2_0253 | 0.30 | 0.46 | 0.15 | 0.22 | 0.019 | 0.044 | | | | | | | | | | | | | | | | | | | | |
| PWTK-3_0137 | 0.30 | 0.46 | 0.15 | 0.22 | 0.019 | 0.044 | | | | | | | | | | | | | | | | | | | | |
| TK-1_0127 | 0.46 | 0.18 | 0.016 | 0.006 | 0.43 | 0.17 | | | | | | | | | | | | | | | | | | | | |
| TK-2_0213 | 0.46 | 0.18 | 0.016 | 0.006 | 0.43 | 0.17 | | | | | | | | | | | | | | | | | | | | |
| TK-3_0194 | 0.46 | 0.18 | 0.016 | 0.006 | 0.43 | 0.17 | | | | | | | | | | | | | | | | | | | | |
| ECD-1_6242 | 1.36 | 0.54 | 0.047 | 0.019 | 1.27 | 0.51 | | | | | | | | | | | | | | | | | | | | |
| **Totals** | 20.53 | 9.41 | 1.72 | 1.07 | 17.41 | 7.26 | 0.0 | 0.0 | | | | | | | | | | | | | | | | | | |

Comments (2000 character maximum)

## Table 2-J: Fuel Usage

☐ **This Table was intentionally left blank.**

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Specify fuel characteristics and usage. This information should be for fuel used to operate the equipment (e.g. the pilot) not the amount of gas or fuel processed.

| Unit No. | Fuel Type (No. 2 Diesel, Natural Gas, Coal, ...) | Specify Units | | | | |
|---|---|---|---|---|---|---|
| | | Lower Heating Value | Hourly Usage | Annual Usage (maximum) | % Sulfur | % Ash |
| FL-1_0538 | Natural Gas | 1116.49 BTU/SCF | | 1.14 MM SCF/y | | |
| HT-1_6711 | Natural Gas | 1116.49 BTU/SCF | | 23.54 MM SCF/y | | |
| LPC-1_4072 | Natural Gas | 1116.49 BTU/SCF | | 6.32 MM SCF/y | | |
| ECD-1_6242 | Natural Gas | 1116.49 BTU/SCF | | 1.14 MM SCF/y | | |

Comments (2000 character maximum)

## Table 2-L: Tank Data

**Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.**

Include appropriate tank-flashing modeling input data. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

| Unit No. | Date Installed | Materials Stored | Seal Type (refer to Table 2-LR) | Roof Type (refer to Table 2-LR) | Capacity | | Diameter (M) | Vapor Space (M) | Color (from Table VI-C) | | Paint Condition (from Table VI-C) | Annual Throughput (gal/yr) | Turn-overs (per year) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | (bbl) | ($M^3$) | | | Roof | Shell | | | |
| PWTK-1_0224 | 02/01/2022 | Produced Water | | Vertical - Fixed Roof | 750.00 bbl | | 4.88 | | Medium Gray | Medium Gray | fair | 12264000 | 452.33 |
| PWTK-2_0253 | 02/01/2022 | Produced Water | | Vertical - Fixed Roof | 750.00 bbl | | 4.88 | | Medium Gray | Medium Gray | fair | 12264000 | 452.33 |
| PWTK-3_0137 | 02/01/2022 | Produced Water | | Vertical - Fixed Roof | 750 bbl | | 4.88 | | Medium Gray | Medium Gray | fair | 12264000 | 452.33 |
| TK-1_0127 | 02/01/2022 | Crude Oil | | Vertical - Fixed Roof | 750.00 bbl | | 4.88 | | Medium Gray | Medium Gray | fair | 6132000 | 226.33 |
| TK-2_0213 | 02/01/2022 | Crude Oil | | Vertical - Fixed Roof | 750.00 bbl | | 4.88 | | Medium Gray | Medium Gray | fair | 6132000 | 226.33 |
| TK-3_0194 | 02/01/2022 | Crude Oil | | Vertical - Fixed Roof | 750 bbl | | 4.88 | | Medium Gray | Medium Gray | fair | 6132000 | 226.33 |

Comments (2000 character maximum)

# Section 3
## Application Summary and Routine Operations

---

**NOI Summary:** Devon Energy Production Company, L.P. (Devon) owns and operates Broadside 12 Facility 2 (Facility), which is located 20.7 miles west-northwest of Jal in Lea County, New Mexico, under an Oil and Gas General Construction Permit (GCP-O&G). Three (3) 750 bbl oil tanks, three (3) 750 bbl water tanks, one (1) heater treater, one (1) ultra-low-pressure separator (ULPS), one (1) 92 hp natural gas fired low pressure compressor (LPC), two (2) electric LPCs, one (1) flare, and crude and water loading operations are currently authorized under GCP-O&G No. 9357.

Devon is adding one (1) enclosed combustor (ECD), routing water and oil tank emissions to one header controlled by the ECD, and updating production levels with updated representative analyses and transition from a GCP-O&G to a Notice of Intent (NOI).

To authorize the change in equipment and modifications to production at this Facility, Devon is submitting this initial NOI application, which has been prepared in accordance with the requirements set forth in NMAC 20.2.73.

**Process Summary**: Crude oil, natural gas, and produced water are piped to the Facility from producing wells in the surrounding oil field. Production liquid flows from the wells through inlet separators, then oil is processed in the heater treater (Units HT-1). Gas from the inlet separator is further processed through the sales separators and sent to the pipeline or the emergency flare (Unit No. FL-1) during periods of pipeline unavailability. However, because there are no state or federal requirements to control stranded gas, a VOC reduction credit is not taken in this application.

Water from the inlet separators and heater treaters flows into the water storage tanks (Units PWTK-1 - PWTK-3) and is later transferred offsite via pipeline or loading rack (Unit PWLOAD) if the pipeline is unavailable. The water storage tank vapors are routed to the combustor (Unit ECD-1) through the tank header. However, because there are no state or federal requirements to control the water tanks, a VOC reduction credit is not taken in this application.

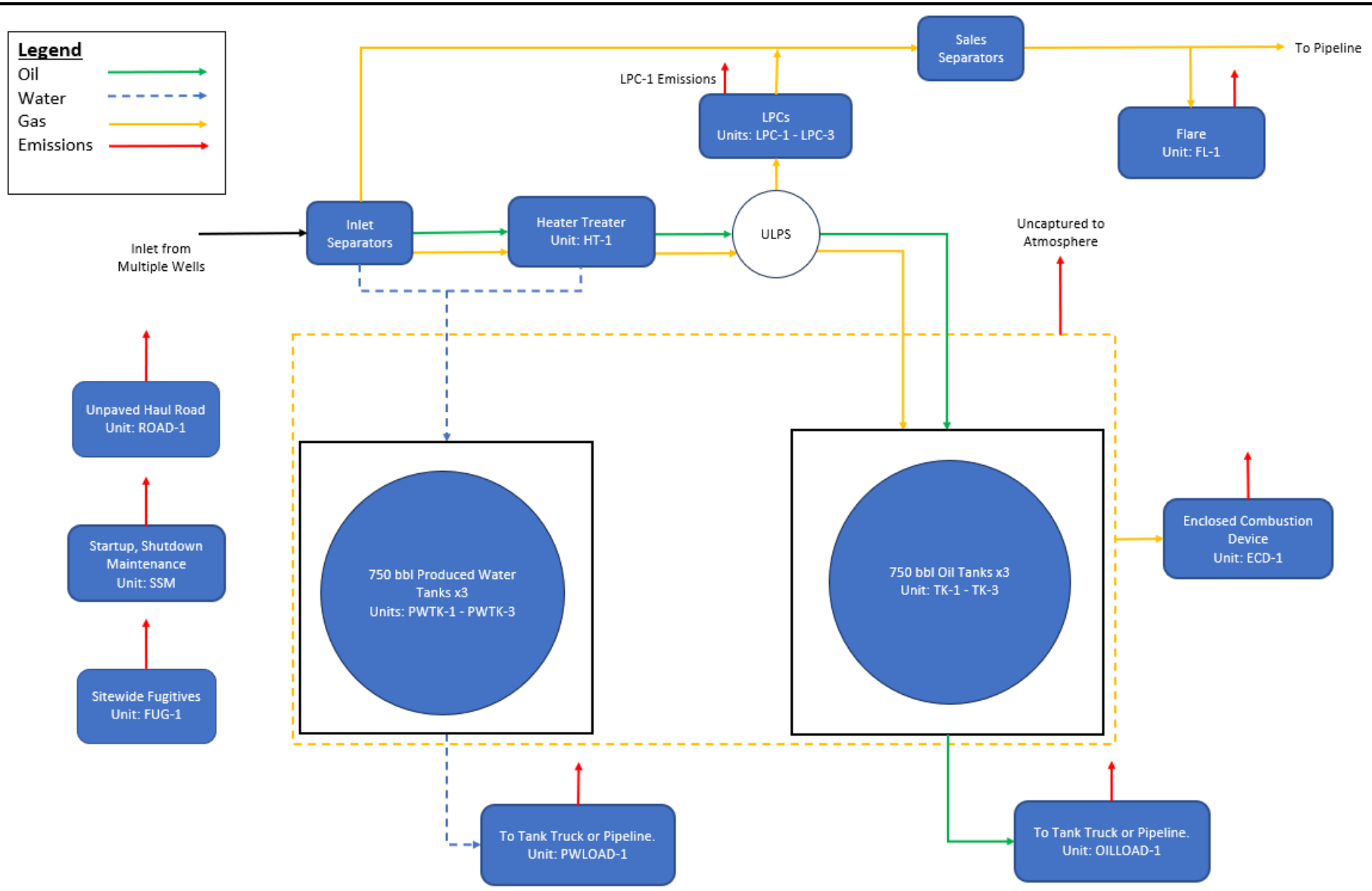
Oil and entrained gas from the heater treaters is processed further through a ULPS (Unit ULPS-1) before flowing to the oil storage tanks (Units TK-1 – TK-3) and is later transferred offsite via pipeline or loading rack (Unit OILLOAD) during periods of pipeline unavailability. The oil storage tank vapors are routed to the combustor through the tank header.

Gas from the ULPS is sent to the marketing sales gas line using the LPCs (Unit LPC-1 – LPC-3). Because the ULPS/LPC is a part of the process and separates gas just like all of the other separation equipment but at near atmospheric pressure, there is less gas entrained in the oil when it flows to the oil tanks. When the LPC is down for maintenance, gas from the ULPS flows to the tanks and is controlled by the ECD with the rest of the oil tank vapors.

The site was constructed after September 18, 2015, and has not been modified by OOOOb definition since December 6, 2022. The potential volatile organic compound (VOC) emission rate for each of the oil storage tanks is greater than 6 tons per year (TPY). Therefore, the oil storage tanks are subject to New Source Performance Standard (NSPS) Subpart OOOOa. Devon complies with the requirement to reduce emissions from each oil storage tank by 95% by operating a combustor. Approximately 98% of the vapors from the oil storage tanks will be captured and sent to the combustor with a minimum 98% destruction efficiency.

**Routine or predictable emissions during Startup, Shutdown, and Maintenance (SSM):** Check the appropriate SSM box below. SSM emissions from production sites could include but are not limited to VOC venting of compressor blowdowns, pigging, maintenance downtime of VRU, or site-specific combustion SSM emissions.

☐ No SSM emissions are expected from routine operations.
☒ Applicant requests up to 10 tpy of VOC SSM emissions.
☒ Applicant requests site specific VOC SSM and those emissions are included in Section 4.
Provide an overview: Uncontrolled VOC from stranded gas sent to the flare when the pipeline is unavailable.
☒ Applicant requests site specific combustion SSM and those emissions are included in Section 4.
Provide an overview: Combustion of stranded gas sent to the flare when the pipeline is unavailable.




RESOLUTE COMPLIANCE, LLC
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**Devon Energy Production Company, LP**
**Broadside 12 Facility 2**
**Lea County, NM**

## Process Flow Diagram

**Project No. Env-Devon-Broadside 12 Facility 2**
**Report No. NOI-0011**
**Date: October 2024**

**Section 3**

# Section 4
## All Calculations and Emissions Summary

---

### *Air Emissions Calculation Tool (AECT)*

The AECT is required to be used with this NOI Quick Form. If the AECT for a piece of equipment is under development, provide calculations. www.env.nm.gov/air-quality/air-emissions-calculation-tool-aect/

### *NOI representations must demonstrate enforceability of any reductions claimed to reduce the Potential Emission Rate (PER) or Potential to Emit (PTE).*

PER definition in NMAC 20.2.73.7 NMAC: "Potential emission rate" means the emission rate of a source at its maximum capacity to emit a regulated air contaminant under its physical and operational design, provided any physical or operational limitation on the capacity of the source to emit a regulated air contaminant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its physical and operational design only if the limitation or the effect it would have on emissions is enforceable by the department pursuant to the Air Quality Control Act or the federal act."

PTE definition in NMAC 20.2.73.7 NMAC: "Potential to emit" means the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design; any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is federally enforceable; the potential to emit for nitrogen dioxide shall be based on total oxides of nitrogen.

### *20.2.50 NMAC (Part 50)*

The Oil and Gas Sector – Ozone Precursor Pollutants regulation 20.2.50 NMAC (Part 50) establishes emission standards for volatile organic compounds (VOC) and oxides of nitrogen (NOx) for oil and gas production, processing, compression, and transmission sources. The reductions required by Part 50 may be included in PER calculations. However, the reductions required by Part 50 **may not** be included in PTE calculations. Part 50 is not federally enforceable, but it does establish limitations that are enforceable pursuant to the New Mexico Air Quality Control Act. The Title V Operating Permit applicability in 20.2.70 NMAC is based on PTE. When determining Title V major source threshold status, calculations at NOI-only facilities cannot claim reductions required by Part 50.

### *Tank Emissions Calculations*

The information provided to the AQB shall include a discussion of the method used to estimate tank-flashing emissions, accuracy of the model, the input and output summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Pro-Max or Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation. For each crude oil storage tank, identify if the tanks are in series or in parallel.

For tank and loading emission calculations, the annual throughput used for calculations is not required to be the daily throughput times 365 days. The annual throughput of the facility used for calculations must be consistent throughout the application, and a brief rationale should be included in the note sections on the appropriate pages of the AECT.

For tanks subject to federal regulations that require controls (i.e., NSPS OOOO or NSPS OOOOa), applicants may represent tank controls as two scenarios to provide flexibility. Some facilities will have a vapor recovery unit (VRU) installed initially but may later replace the VRU with a flare due to changes in production levels. Representing **both** scenarios in the NOI application will allow the company to replace the VRU with a flare without submitting a revision to the NOI to the Department. To be eligible for this flexibility, both the VRU and flare must be compliant with the federal regulations that require the control of the tanks. Represent both scenarios using the AECT and include comments to explain the requested flexibility.

Represent the worst-case scenario when filling out the emission tables in the Portal. Provide a process flow diagram and a written process description for each scenario. Represent both scenarios using the AECT and include comments to explain the requested flexibility.

### *Heater Calculations:*

Heaters, heated separators, and heater treaters may be represented as a combined maximum heat input, provided that each individual unit is rated less than 100 MMBTU/hr each. This will allow applicants flexibility in the number and size of units installed, while still demonstrating that the facility will comply with NOI limits. To utilize this flexibility, represent the requested total heat input for all these units in the AECT.

### *Engines*

Engine options may be represented in an NOI to provide flexibility. No more than 4 options are allowed and not more than 4 engines may be included. The engines may be in any combination that meets all state and federal regulations. When representing engine options, a table is required that specifically lists: the engine(s) in each option, the emissions for each engine, and a worst-case emission row which is the highest PER for each pollutant from all the engines in each option.

The composite row is entered in the Portal Tables. E.g. ENG-1*; use the comments box to explain the scenario represented. During minor source emissions inventory reporting you will be required to add and report on the individual engines that operated during that reporting year through AEIR.

Unless information is the same for all options:

- Enter “see list” for model and serial number, leave the manufacture date blank, add any regulations that apply to any engine in the option (2A).
- Do not enter anything in the reduction devices table (2C) but list federal controls for each engine in the comments box.
- Use the worse-case stack parameters between all the engine options (2H).
- Leave the fuel usage (2J) blank.

Engine specificity represented in the NOI must be sufficient to determine the emissions from the engine. Engines shall not be installed which do not meet the specificity provided in the NOI. Fill out a separate page in the AECT for each type of engine, the facility totals in the AECT will not be representative of what is requested in the PER Table.

Engine representations must include either:

- the enforceability and applicable parameters (e.g., 100 to 500 hp; JJJJ applicable engine manufactured after 1/1/2011);
- the manufacturer specification sheet (including installed catalysts) to support emission calculations;
- use AP-42 emission factors, or
- use uncontrolled emission factors.

### *SSM Calculations:*

The applicant must select one of the boxes in Section 2: SSM Summary. If applicant is submitting site specific calculations, include in this section.

### *Control Devices:*

In accordance with 20.2.73.200.B(7) NMAC, report all control devices and list each pollutant controlled by the control device in the Potential Emission Rate Table.

Voluntary flaring of emissions that are not federally enforceable (such as maintenance or loading emissions) should be represented **both** as flared emissions, and as uncombusted emissions. This is necessary to demonstrate that the products of combustion from flaring the emissions do not exceed the applicability threshold for a permit under 20.2.72.200.A(1) NMAC; and that the VOC emissions (if they are not flared) will not cause the site to be defined as a Title V Major Source under 20.2.70.7.4.R NMAC.

**Table 1: Check the equipment entered from the AECT Form Submitted in this Section:**

| Check box if present at facility | Equipment Type | Quantity |
|---|---|---|
| ☒ | **Engine(s)** | **1** |
| ☒ | **Heater(s)** | **1** |
| ☒ | **Haul Road** | **1** |
| ☒ | **Fugitives** | **1** |
| ☒ | **Tanks** | **6** |
| ☒ | **Flare(s)** | **1** |
| ☒ | **Loading** | **2** |
| ☒ | **ECD** | **1** |
| ☐ | **Thermal Oxidizer** | |
| ☐ | **VRU** | |
| ☒ | **ULPS/LPC** | **3** |

**Information Used to Determine Emissions**

**Check the box for each type of information submitted**:

☒ If manufacturer data are used, include specifications for emissions units and control equipment, including control efficiencies specifications and sufficient engineering data for verification of control equipment operation.

☒ For tank emissions, include a discussion of the method used to estimate tank-flashing emissions, accuracy of the model, the input and output summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.

☒ If requesting to use a representative gas sample, include a discussion of why the sample is representative for this facility and an explanation of how it is representative (e.g., same reservoir, same similar API gravity, similar composition).

**A site-specific sample is not available. The sample was pulled from the same reservoir as the Facility and is considered to be a representative analysis.**

# Section 6

## Applicable State & Federal Regulations

---

**Provide a discussion demonstrating compliance with applicable state & federal regulation**. All input cells should be filled in, even if the response is 'No' or 'N/A'.

In the "Justification" column, identify the criteria that are critical to the applicability determination, numbering each. For each unit subject to a state or federal regulation, after each listed unit, include the lowest level citation of the applicable regulation. For each unit, list the information necessary to verify the applicability of the regulation, including date of manufacture, date of construction, size (hp), and combustion type. Doing so will provide the applicability criteria for each unit.

---

**Example of a Table for Applicable State Regulations:**

| STATE REGU-LATIONS CITATION | Title | Federally Enforce-able | Applicability Information: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) | Applicant's Justification of Applicability | Applicant Identifies if Applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|---|
| 20.2.38 NMAC | Hydrocarbon Storage Facility | No | **Use the regulation link (left) then cut & paste applicable sections.** Note: for 20.2.38.112 NMAC, 65,000 gallons is 1547.62 barrels. | The facility includes a "New Tank Battery" since the tanks were constructed after January 1, 1975. 20.2.38.112, New Tank Battery – More Than 65,000 Gallons Capacity is potentially applicable. Since the total capacity of the crude oil tanks (Unit TK-1 - TK-3) is greater than 65,000 gallons, the Facility is subject to 20.2.38.112. The Facility meets the requirements of 20.2.38.112C by operating a ULPS where gas is sent to sales via electric and natural gas driven LPCs. In addition, the tank emissions are controlled by a combustor (Unit ECD-1). | TK-1 – TK-3 |
| 20.2.50 NMAC | Oil and Gas Sector – Ozone Precursor Pollutants | No | This regulation establishes emission standards for volatile organic compounds (VOC) and oxides of | Include the construction status of applicable units as "New", "Existing", "Relocation of Existing", or | Check the box for the subparts that are applicable: ☐ 113 – Engines and Turbines |

| STATE REGU-LATIONS CITATION | Title | Federally Enforce-able | Applicability Information: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) | Applicant's Justification of Applicability | Applicant Identifies if Applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|---|
| | | | nitrogen ($NO_x$) for oil and gas production, processing, compression, and transmission sources. | "Reconstructed" as defined by this Part in your justification:<br><br>LPC-1: existing < 1,000 hp<br><br>LPC-1 – LPC-3: screw driven compressors<br><br>HT-1: Existing <20MMBtu/hr<br><br>TK-1 – TK-3, PWTK-1 – PWTK-3: Existing <3 TPY<br><br>Oil Loadout: Existing<br><br>FL-1: Existing<br><br>ECD-1: New | ☐ 114 – Compressor Seals<br>☒ 115 – Control Devices and Closed Vent Systems<br>☒ 116 – Equipment Leaks and Fugitive Emissions<br>☐ 117 – Natural Gas Well Liquid Unloading<br>☐ 118 – Glycol Dehydrators<br>☐ 119 – Heaters<br>☒ 120 – Hydrocarbon Liquid Transfers<br>☐ 121 – Pig Launching and Receiving<br>☒ 122 – Pneumatic Controllers and Pumps<br>☐ 123 – Storage Vessels<br>☒ 124 – Well Workovers<br>☐ 125 – Small Business Facilities<br>☐ 126 – Produced Water Management Unit<br>☐ 127 – Flowback Vessels and Preproduction Operations |
| 20.2.61.109 NMAC | Smoke & Visible Emissions | No | Engines and heaters are Stationary Combustion Equipment. Specify units subject to this regulation. | The LPC engine, combustor, flare, and heater treater are Stationary Combustion Equipment. Devon will maintain compliance with the regulation by operating the combustion units according to manufacturer's recommendations to ensure complete combustion. | LPC-1, ECD-1, FL-1, HT-1 |
| 20.2.73 NMAC | NOI & Emissions Inventory Requirements | No | **NOI:** 20.2.73.200 NMAC applies (requiring a NOI application) | *Under 20.2.73.300.B(4) NMAC, NMED will periodically request emissions inventory reporting from minor source (expected each third year starting in 2020.)* | *Facility – applies to all NOI facilities.* |

| STATE REGU-LATIONS CITATION | Title | Federally Enforce-able | Applicability Information: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) | Applicant's Justification of Applicability | Applicant Identifies if Applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|---|
| | | | | *Under 20.2.73.300.B(1) NMAC, if fugitives result in PTE >100 tpy VOC, annual reporting is required.* | |
| 20.2.77 NMAC | New Source Performance | Yes | This is a stationary source which is subject to the requirements of 40 CFR Part 60, as amended through 2017.<br>Applies if any subpart applies. | The oil tanks (Units TK-1 - TK-3), the combustor (Units ECD-1), LPC engine (Init LPC-1) and fugitives (Unit FUG) are subject to NSPS OOOOa and are therefore, subject to 20.2.77.9. | TK-1 – TK-3, LPC-1, ECD-1, FUG |
| 20.2.78 NMAC | Emission Standards for HAPS | Yes | This facility emits hazardous air pollutants which are subject to the requirements of 40 CFR Part 61, as amended through 2017.<br>Applies if any subpart applies. | This Facility does not emit hazardous air pollutants which are subject to the requirements of 40 CFR Part 61, as amended through December 31, 2010. | N/A |
| 20.2.82 NMAC | MACT Standards for source categories of HAPS | Yes | This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63, as amended through 2017.<br>Applies if any subpart applies. | The LPC engine (Unit LPC-1) is subject to MACT ZZZZ and is therefore subject to 20.2.82.8. | LPC-1 |

**Example of a Table for Applicable Federal Regulations (This is not an exhaustive list):**

| FEDERAL REGULATIONS CITATION | Title | JUSTIFICATION: | Applicant's Justification of Applicability | Identify if applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|
| 40 CFR 50 | NAAQS | Defined as applicable at 20.2.70.7.E.11, Any national ambient air quality standard | The emission levels from the Facility are such that no exceedances of the NAAQS are expected. | Facility |
| NSPS 40 CFR 60, Subpart A | General Provisions | Applies if any other NSPS subpart applies. | The oil tanks (Units TK-1-TK-3), combustor (Unit ECD-1), LPC engine (Unit LPC-1), and fugitives (Unit FUG) are subject to NSPS OOOOa. | TK-1 – TK-3, LPC-1, ECD-1, FUG |
| NSPS 40 CFR Part 60 Subpart OOOO | Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375); centrifugal compressors (60.5380); reciprocating compressors (60.5385): controllers (60.5390); storage vessels (60.5395); equipment leaks (60.5400); sweetening units (60.5405).<br><br>**If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. Centrifugal Compressors 1a-3a are subject to the standards at 60.5380(a)(1) and (2) since we use a control device to reduce emissions)** | ☐ **Check this box if VRU is reducing Storage Vessel emissions and the facility is subject to the requirements under 60.5411(b) and (c)**<br><br>The Facility was constructed before but modified after September 18, 2015. | N/A |
| NSPS 40 CFR Part 60 Subpart OOOOa | Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375a); centrifugal compressors (60.5380a); reciprocating compressors (60.5385a): controllers (60.5390a); storage vessels (60.5395a); fugitive emissions at well sites and compressor stations (60.5397a); equipment leaks at gas plants (60.5400a); sweetening units (60.5405a).<br><br>**If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. Centrifugal Compressors 1a-3a are subject to the standards at 60.5380(a)(1) and (2) since we use a control device to reduce emissions)** | ☐ **Check this box if VRU is reducing Storage Vessel emissions and the facility is subject to the requirements under 60.5411a(b) and (c)**<br>The oil storage tanks at this location are subject to NSPS Subpart OOOOa because the tanks are affected facilities with VOC emissions greater than 6 tons per year per tank (60.5365a(e)). Devon will meet the 95% control requirement (60.5395a(a)(2)) by operating a combustor that meets the requirements of | TK-1-TK-3 ECD-1, FUG |

| FEDERAL REGULATIONS CITATION | Title | JUSTIFICATION: | Applicant's Justification of Applicability | Identify if applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|
| | | | 60.5412a(d)(1). Devon will also comply with the applicable control requirements under 60.5395a(b). Fugitive equipment components are subject to LDAR requirements. Devon will conduct routine fugitive leak monitoring using optical gas imaging (OGI) or EPA Method 21. | |
| NSPS 40 CFR Part 60 Subpart IIII | Standards of performance for Stationary Compression Ignition Internal Combustion Engines | See 40 CFR 60.4200(a) 1 through 4 to determine applicable category and state engine size, fuel type, and date of manufacture. | ☐ **Table 1 or Table 2 to Subpart IIII attached with emission standards applicable to each engine highlighted.** There are no sources that are subject to NSPS IIII. | N/A |

| FEDERAL REGULATIONS CITATION | Title | JUSTIFICATION: | Applicant's Justification of Applicability | Identify if applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|
| NSPS<br>40 CFR Part 60 Subpart JJJJ | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines | See 40 CFR 60.4230(a), 1 through 5 to determine applicable category and state engine size, fuel type, and date of manufacture. | ☐ **Table 1 to Subpart JJJJ is attached with emission standards applicable to each engine highlighted.**<br>LPC-1 is a non-emergency spark ignition internal combustion engine with a brake horsepower greater than 25 and less than 100.<br><br>Per § 60.4233(d), owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards for field testing in 40 CFR 1048.101(c) for their non-emergency stationary SI ICE.<br><br>Table 3 of § 1048.101(c) is attached with emission standards/requirements applicable to LPC-1 highlighted. | LPC-1 |
| MACT<br>40 CFR 63, Subpart A | General Provisions | Applies if any other subpart applies. | The LPC engine (Unit LPC-1) is subject to subject to MACT ZZZZ. | LPC-1 |
| MACT<br>40 CFR 63 Subpart ZZZZ | National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (**RICE MACT**) | Facilities are subject to this subpart if they own or operate a stationary RICE, except if the stationary RICE is being tested at a stationary RICE test cell/stand. | ☐ **Table 1, 2, 3, 4, 5, 6, and/or 7 to Subpart ZZZZ is attached with emission standards/requirements applicable to each engine highlighted.**<br>The LPC engine (Unit LPC-1) is subject to MACT ZZZZ and meets the requirements by complying with NSPS JJJJ per 63.6590(c)(1). | LPC-1 |

# APPENDIX M. NOI # 9134

**New Mexico**
**Environment Department**

525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505-1816
Phone (505) 476-4300
Fax (505) 476-4375
www.env.nm.gov

***MICHELLE LUJAN GRISHAM***
GOVERNOR

***HOWIE C. MORALES***
LT. GOVERNOR

***JAMES C. KENNEY***
CABINET SECRETARY

***JENNIFER J. PRUETT***
DEPUTY SECRETARY

March 19, 2021

Certified Mail No.

Aaron Yotter
EHS Professional
Devon Energy Production Company, L.P.
333 West Sheridan Avenue
Oklahoma City, OK 73102

Notice of Intent No. 9134
Agency Interest No. 39913 - PRN20210001
Broadside 1H Battery
AIRS No. 35-025-2037

Dear Mr. Yotter:

This letter acknowledges the receipt of your Air Quality Bureau Notice of Intent (NOI) form dated February 16, 2021 for an Oil & Gas facility in New Mexico. The notice was received by the Department on February 25, 2021.

Construction or modification may commence 21.2 mi W NW of Jal in Lea County at latitude and longitude decimal degrees: 32.225803, -103.527072, as represented in the notice.

Based on the information provided in the submitted NOI, the Department has determined that the potential emission rate (PER) of any regulated air pollutant from this facility for which there is a National or New Mexico Ambient Air Quality Standard is less than ten (10) pounds per hour and twenty-five (25) tons per year. Therefore, in accordance with Title 20, Chapter 2, Part 72 of the New Mexico Administrative Code (20.2.72 NMAC), an air quality permit is not required, and construction may commence. Because the potential emission rate is greater than ten (10) tons per year, this facility is subject to 20.2.73 NMAC. The submitted forms will serve as the Notice of Intent in accordance with 20.2.73.200.A. NMAC.

In addition to 20.2.73 NMAC, this facility may be subject to additional state and federal regulations *such as* those found in Table 1. **The review of an NOI does not constitute a determination of regulatory applicability, regardless of statements of anticipated applicability made in the forms.** It is the permittee's responsibility to determine applicability and to comply with all applicable regulations.

**Table 1: Other Regulations**

| Citation | Title |
|---|---|
| 20.2.38 NMAC | Hydrocarbon Storage Facilities |
| 20.2.61 NMAC | Smoke and Visible Emissions |
| 20.2.70 NMAC | Operating Permits |
| 40 CFR 60 Subpart IIII | Standards of Performance for Stationary Compression Ignition Internal Combustion Engines |
| 40 CFR 60 Subpart JJJJ | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines |
| 40 CFR 60 Subpart Ka | Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984 |
| 40 CFR 60 Subpart Kb | Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) For Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 |
| 40 CFR 60 Subpart OOOO | Standards of Performance for Crude Oil and Natural Gas Production, Transmissions and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011 and on or before September 18, 2015 |
| 40 CFR 60 Subpart OOOOa | Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 |
| 40 CFR 63 Subpart HH | National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities |
| 40 CFR 63 Subpart ZZZZ | National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines |

**Note**: Some New Mexico state regulations are not federally enforceable (e.g., 20.2.35 and 20.2.38 NMAC) and while these regulations can be used for determining the PER, they cannot be used in determining facility-wide potential to emit (PTE) unless included in a federally enforceable permit, such as a 20.2.72 NMAC permit. Applicability of 20.2.70 NMAC (Title V) and 20.2.74 NMAC (PSD) is based on PTE and it is the permittee's responsibility to determine applicability of these regulations. Note that this determination could result in additional permitting requirements under 20.2.70 NMAC and/or 20.2.74 NMAC and, thus, applicability of these regulations should be considered.

This NOI determination was based upon the information provided in the NOI forms. The sources, when constructed, will be subject to inspection.

Before any asbestos demolition or renovation work, you shall determine whether 40 CFR 61 Subpart M, National Emission Standard for Asbestos applies.

Any changes in the method of operation or addition of more units at the site may constitute a modification, which requires the Department's prior review for construction and/or operation.

In the event of any change in ownership or operator of this facility, the new owner or operator shall notify the Department in writing within thirty (30) days of that change.

If you have any questions, please call me in Santa Fe at 505-476-4329.

Sincerely,

Joseph Mashburn
Air Permit Specialist
Permit Section
Air Quality Bureau

cc by email: Rita Zebian, Altamira-US, LLC

Enclosure: Instructions to access the Industry/Consultant Feedback Questionnaire online.

**Minor Source Emission Inventory in 2020**

P.S. The NM Environment Department – Air Quality Bureau (Bureau) will conduct a Minor Source Emissions Inventory (per 20.2.73.300 NMAC) for calendar year 2020. This inventory will apply to all sources with air quality construction permits (20.2.72 NMAC), including General Construction Permits (GCPs). It will also apply to Notices of Intent (NOIs) sources (20.2.73 NMAC). Facility-wide emissions during the calendar year 2020 must be calculated and reported to the Bureau during the period of January 1 through April 1, 2021, using the online reporting tool specified by the Bureau.

We encourage you to sign up for the Minor Source Emissions Inventory bulletins at: https://public.govdelivery.com/accounts/NMED/subscriber/new to receive updates and guidance on the implementation of this requirement.

Devon Energy Corporation
333 West Sheridan Ave.
Oklahoma City, OK 73102-5010

405 228 7270 Phone
www.devonenergy.com

February 16, 2021

New Mexico Environment Department
Air Quality Bureau, Permits Section
525 Camino de los Marquez, Ste. 1
Santa Fe, New Mexico 87505
(505) 476-4300

**RE: Notice of Intent to Construct**
**Broadside 1H Battery**
**Devon Energy Production Company, L.P.**

Dear Sir or Madam:

Devon Energy Production Company, L.P. (Devon) plans to construct Broadside 1H Battery (Facility), which will be located approximately 21.2 miles west-northwest of Jal in Lea County, New Mexico. The Facility will consist of four (4) oil tanks, two (2) water tanks, one (1) gunbarrel, one (1) heater treater, one (1) emergency flare, one (1) combustor, one (1) 203 hp combustion engine, and crude and water loading operations. The site will be an oil and gas production facility.

To authorize construction and operation of this Facility, Devon is submitting this Notice of Intent (NOI) to Construct application, which has been prepared in accordance with the requirements set forth in NMAC 20.2.73.

If you have any questions or comments, please feel free to contact me at (405) 228-7270.

Sincerely,

*Aaron Yotter*

Aaron Yotter
EHS Professional

Enc

# NOTICE OF INTENT TO CONSTRUCT
# BROADSIDE 1H BATTERY
# LEA COUNTY, NEW MEXICO

## FEBRUARY 2021

Submitted to:
**New Mexico Environment Department**
Air Quality Bureau, Permits Section
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505

Prepared for:
**Devon Energy Production Company, L.P.**
333 West Sheridan Avenue
Oklahoma City, Oklahoma 73102
405/228-7270

Prepared by:
**Altamira-US, LLC**
2301 E. Lamar Blvd., Suite 200
Arlington, Texas 76006
817/617-2675

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**Section 1: Facility Information**

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**Section 3: Process Flow Sheet**

**Section 4: All Calculations**

**Section 5: Map(s)**

**Section 6: Applicable State and Federal Regulations**

**Section 7: Certification**

| Mail Application To: | | For Department use only: |
|---|---|---|
| New Mexico Environment Department<br>Air Quality Bureau<br>Permits Section<br>525 Camino de los Marquez, Suite 1<br>Santa Fe, New Mexico, 87505<br><br>Phone: (505) 476-4300<br>Fax: (505) 476-4375<br>www.env.nm.gov/air-quality/ |  | |

# NOI Oil and Gas Quick Application

**Use this application only for oil and gas facilities registering under 20.2.73 NMAC**

Submit the entire application on a single CD (no copies of the CD are needed). Hard copies of Page 1 and 2, and Section 7 of this application are required.

**This application is being submitted as** (check all that apply)**:**

☐ **Updating** an existing registered facility. Provide NOI (or NPR/Permit) number:

☐ **Updating** an application currently under NMED review. Include this page and all pages that are being updated (no fee required).

**Construction Status:** ☐ Not Constructed ☐ Existing Permitted (or NOI) Facility ☒ Existing Non-permitted (or NOI) Facility

☒ **Acknowledgement that facilities with the following equipment may not use this application form and should use the Universal Application form:** glycol dehydrators, non-NMED deration method, and applications using emission calculation tools other than the Air Emission Calculation Tool (AECT) for regulated equipment.

☒ **Acknowledgement that this application contains the required AECT, which is required to be used to determine emissions from equipment:** https://www.env.nm.gov/air-quality/air-quality-oil-and-gas-noi-application-form/

**Acknowledgements:** ☐ I acknowledge that a pre-application meeting is available to me upon request

☒ $500 NOI Filing Fee enclosed ☒ Check No.: in the amount of $500

# Section 1 – Facility Information

## Section 1-A: Company Information

| | | | |
|---|---|---|---|
| | | AI No. (if known): | Updating Permit/NOI/NPR No.: |
| 1 | Facility Name:<br><br>Broadside 1H Battery | Plant primary SIC Code (4 digits): 1311<br><br>Plant NAICS code (6 digits): 211120 | |
| a | Facility Street Address (If no facility street address, provide directions from a prominent landmark): From Jal, travel on NM-128 W/W Kansas Ave for 20.4 miles. Turn right onto Delaware Basin Rd for 1 mile. Turn left on lease road for 0.9 miles and Facility will be on the right. | | |
| 2 | Plant Operator Company Name: Devon Energy Production Company, L.P. | Phone/Fax: (405) 228-7270 / NA | |
| a | Plant Operator Address: 333 West Sheridan Avenue, Oklahoma City, Oklahoma 73102 | | |
| b | Plant Operator's New Mexico Corporate ID or Tax ID: 73-1577174 | | |
| 3 | Plant Owner(s) name(s): Devon Energy Production Company, L.P. | Phone/Fax: (405) 228-7270 / NA | |
| a | Plant Owner(s) Mailing Address(s): 333 West Sheridan Avenue, Oklahoma City, Oklahoma 73102 | | |
| b | Plant Owner(s) name(s): Devon Energy Production Company, L.P. | Phone/Fax: (405) 228-7270 / NA | |
| c | Address: 333 West Sheridan Avenue, Oklahoma City, Oklahoma 73102 | E-mail: aaron.yotter@dvn.com | |
| 4 | ☐ Preparer:<br>☒ Consultant: Rita Zebian, Altamira-US, LLC | Phone/Fax: (817) 617-2675 / (817) 617-2683 | |

| | | |
|---|---|---|
| a | Mailing Address: 2301 E Lamar Blvd., Ste. 200, Arlington, TX 76006 | E-mail: rita.zebian@altamira-us.com |
| 5 | NOI Air Contact: Aaron Yotter | Title: EHS Professional |
| a | E-mail: aaron.yotter@dvn.com | Phone/Fax: (405) 228-7270 / NA |
| b | Mailing Address: 333 West Sheridan Avenue, Oklahoma City, Oklahoma 73102 | |

## Section 1-B: Single Source Determination and Source Status

| | |
|---|---|
| 1 | Is this facility a single source as defined in 20.2.73 NMAC? ☑ **Yes** ☐ **No** |
| 2 | Is this facility a Title V or PSD Source? Checking the "NO" box acknowledges and certifies that the Potential To Emit and the Potential Emission Rate of any regulated air contaminant is less than 100 tons per year. ☐ **Yes** ☑ **No** |

## Section 1-C: Facility Location Information

| | | |
|---|---|---|
| 1 | UTM Zone: ☐ 12 or ☒ 13 | County: Lea |
| 2 | Datum: ☐ NAD 27 ☒ NAD 83 ☐ WGS 84 | Elevation (ft): 3603 |
| a | UTM E (in meters, to nearest 10 meters): 638790 | UTM N (in meters, to nearest 10 meters): 3566420 |
| b | Latitude (deg., min., sec.): 32° 13' 32.89" | Longitude (deg., min., sec.): 103° 31' 37.46" |
| 3 | The facility is: 21.2 (distance) miles west-northwest (direction) of Jal (nearest town), zip code of nearest town 88252 | |
| 4 | Status of land (check one): ☒ Private ☐ Indian/Pueblo ☐ Federal BLM ☐ Federal Forest Service ☐ State Land | |
| 5 | Will this facility operate in conjunction with other air regulated parties on the same property? ☐ **Yes** ☑ **No**<br>If yes, what is the name and permit number (if known) of the other facility? | |

## Section 1-D: Other Facility Information

| | | | |
|---|---|---|---|
| 1 | Are there any current Notice of Violations (NOV), compliance orders, or any other compliance or enforcement issues related to this facility? ☐ **Yes** ☑ **No** If yes, specify: | | |
| a | If yes, NOV date or description of issue: | | NOV Tracking No: |
| b | Is this application in response to any issue listed in this section? ☐ **Yes** ☒ **No**<br>If Yes, provide the information below: | | |
| c | Document Title: | Date: | Requirement # (or page # and paragraph #): |

# Section 1-E – Submittal Requirements

Each 20.2.73 NMAC (**NOI**) application package shall consist of the following:

### Hard Copy Submittal Requirements:

1) Hard copies of Pages 1-2, and the signed Certification Page are required.
2) The entire NOI application should be submitted electronically on compact disk (CD).

### Electronic Submittal Requirements [in addition to the required hard copy]:

1) A single Microsoft Office compatible file format (Word) and PDF document of this application.
2) A single version of the Air Emissions Calculation Tool (AECT).
3) The electronic file names shall be a maximum of 25 characters long (including spaces, if any). The format of the electronic Application shall be in the format: "NOI-Facility Name".

# Section 2
## Application Summary and Routine Operations

The **Application Summary** shall include a brief description of the application. In case of a revision or modification to a facility, please describe the proposed changes from the original NOI. If this facility is to be co-located with another facility, provide details of the other facility including permit or NOI number(s).

**Routine or predictable emissions during Startup, Shutdown, and Maintenance (SSM):** Check the appropriate SSM box below. SSM emissions expected from production sites is VOC venting of compressor blowdowns, pigging, or maintenance downtime of VRU, and site-specific combustion SSM emissions.

**Application Summary:**
Devon Energy Production Company, L.P. (Devon) plans to modify and operate Broadside 1H Battery (Facility), which is located approximately 21.2 miles west-northwest of Jal in Lea County, New Mexico. The Facility will consist of four (4) oil tanks, two (2) water tanks, one (1) gunbarrel, one (1) heater treater, one (1) emergency flare, one (1) combustor, one (1) 203 hp natural gas-fired combustion engine, one (1) electric compressor engine, and crude and water loading operations. The combustion engine will have a manufacture date of January 1, 2011 or later; therefore, the engine will be subject to NSPS Subpart JJJJ.

To authorize the modification and operation of this Facility, Devon is submitting this Notice of Intent (NOI) to Construct application, which has been prepared in accordance with the requirements set forth in NMAC 20.2.73.

**Facility Type:**
A narrative is not required if the facility can be described by one of the check boxes below:
☒ The facility is an oil and gas production facility.
☐ The facility is a tank battery.
☐ The facility is a natural gas compressor station.
☐ Other (describe) _____

The operating schedule using this application to qualify under 20.2.73 NMAC is 24 hours per day and 8760 hours per year.

**SSM Summary:**
Check the applicable box below:
☐ No SSM emissions are expected from routine operations.
☐ Applicant requests up to 10 tpy of VOC SSM emissions.
☒ Applicant requests site specific VOC SSM and those emissions are included in Section 4.
☐ Applicant requests site specific combustion SSM and those emissions are included in Section 4.

# Section 3
## Process Flow Sheet

---

A **process flow sheet** including all equipment, emission points, and types of control applied to those points. All units should be labeled and the unit numbering system should be consistent throughout this application. Identify all sources of emissions with a vertical arrow. Label each of the different material streams (crude oil, gas, NGL, and produced water).

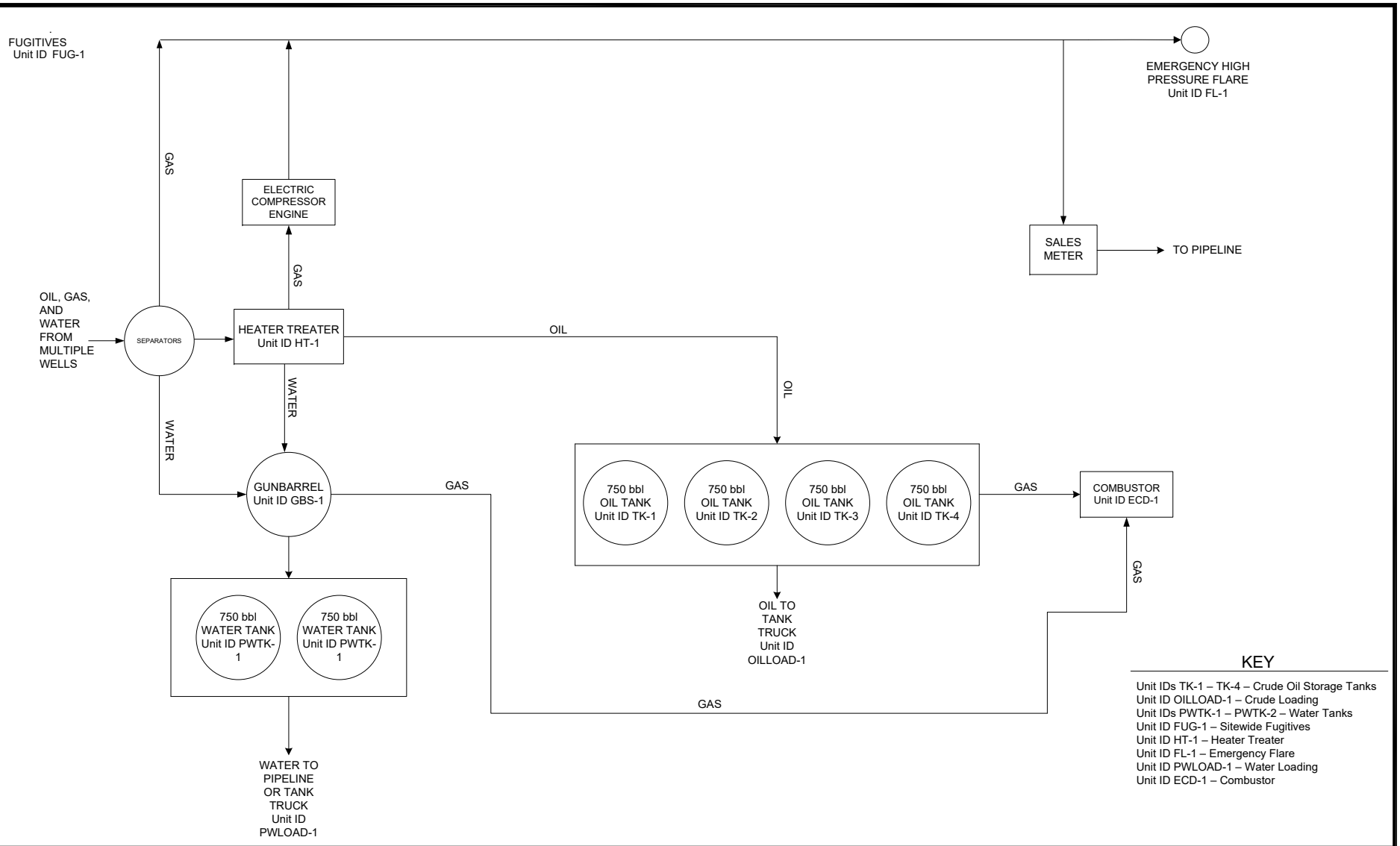
---

A Process Flow Sheet is included in this section.

Crude oil, natural gas, and produced water are piped to the Facility from producing wells in the surrounding oil field. Production fluid flows from the wells through separators, then oil is processed in the heater treater (Unit ID HT-1). Oil from the heater treater is sent to the oil storage tanks (Unit IDs TK-1 through TK-4). The oil is later transferred offsite via the loading rack (Unit ID OILLOAD-1). Gas from the separators and heater treater is captured in an electric compressor engine and sent to the sales line. Water from the separators and heater treater flows through the gunbarrel (Unit ID GBS-1), then into the water storage tanks (Unit IDs PWTK-1, PWTK-2) and is later transferred offsite via the loading rack (Unit PWLOAD-1) or pipeline. The water storage tanks vent to atmosphere. The oil tanks are controlled by the combustor (Unit ID ECD-1). The gunbarrel is also controlled by the combustor (Unit ID ECD-1). However, because there are no state or federal requirements to control the gunbarrel, a VOC reduction credit is not taken in this application.

The potential volatile organic compound (VOC) emission rate for each of the oil storage tanks is greater than 6 tons per year. Therefore, the oil storage tanks are subject to New Source Performance Standard (NSPS) Subpart OOOOa. Devon complies with the requirement to reduce emissions from the oil storage tanks by 95% by operating a combustor (Unit ID ECD-1). Approximately 98% of the vapors from the oil storage tanks are captured and sent to the combustor.

One combustion engine (Unit ID ENG 1) could be installed. An emergency flare (Unit ID FL-1) is also located at the Facility.




ALTAMIRA

2301 E. LAMAR BLVD
SUITE 200
ARLINGTON, TX 76006

www.altamira-us.com

FIGURE TITLE
***PROCESS FLOW SHEET***

DOCUMENT TITLE
NOTICE OF INTENT TO CONSTRUCT

CLIENT
DEVON ENERGY PRODUCTION COMPANY, L.P.

LOCATION
BROADSIDE 1H BATTERY
LEA COUNTY, NEW MEXICO
32° 13' 32.89" N
103° 31' 37.46" W

| | |
|---|---|
| DATE | 02/03/2021 |
| SCALE | NOT TO SCALE |
| DESIGNED BY | AB |
| APPROVED BY | RZ |
| DRAWN BY | AB |
| PROJECT NUMBER | |
| DVNANM1901 | |
| FIGURE NUMBER | |
| **SECTION 3** | |

# Section 4
## All Calculations and Emissions Summary

---

**The Department has developed the Air Emission Calculation Tool Form (AECT), which is required to be used in the NOI Oil and Gas Quick Application.** If the AECT for a piece of equipment is under development, provide calculations.

**The AECT can be accessed at the following link:**
https://www.env.nm.gov/air-quality/air-quality-oil-and-gas-noi-application-form/

**Tank Emissions Calculations**: The information provided to the AQB shall include a discussion of the method used to estimate tank-flashing emissions, accuracy of the model, the input and output summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Pro-Max or Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation. For each crude oil storage tank, identify if the tanks are in series or in parallel.

For tank and loading emission calculations, the annual throughput used for calculations is not required to be the daily throughput times 365 days. The annual throughput of the facility used for calculations must be consistent throughout the application, and a brief rationale should be included in the notes sections on the appropriate pages of the AECT.

For tanks subject to federal regulations that require controls (i.e., NSPS OOOO or NSPS OOOOa), applicants may represent tank controls as two scenarios to provide flexibility. Some facilities will have a vapor recovery unit (VRU) installed initially but may later replace the VRU with a flare due to changes in production levels. Representing **both** scenarios in the NOI application will allow the company to replace the VRU with a flare without submitting a revision to the NOI to the Department. To be eligible for this flexibility, both the VRU and flare must be compliant with the federal regulations that require the control of the tanks. Represent both scenarios using the AECT and include comments to explain the requested flexibility.

**Heater Calculations**: Heaters, heated separators, and heater treaters may be represented as a combined maximum heat input, provided that each individual unit is rated less than 100 MMBTU/hr each. This will allow applicants flexibility in the number and size of units installed, while still providing demonstration that the facility will comply with NOI limits. To utilize this flexibility, represent the requested total heat input for all these units in the AECT.

**SSM Calculations**: The applicant must select one of the boxes in Section 2: SSM Summary. If applicant is submitting site specific calculations, include in this section.

**Control Devices:** In accordance with 20.2.73.200.B(7) NMAC, report all control devices and list each pollutant controlled by the control device in the Potential Emission Rate Table.

Voluntary flaring of emissions that are not federally enforceable (such as maintenance or loading emissions) should be represented **both** as flared emissions, and as uncombusted emissions. This is necessary to demonstrate that the products of combustion from flaring the emissions do not exceed the applicability threshold for a permit under 20.2.72.200.A(1) NMAC; and that the VOC emissions (if they are not flared) will not cause the site to be defined as a Title V Major Source under 20.2.70.7.4.R NMAC.

---

**Table 1: Check the equipment entered from the AECT Form Submitted in this Section:**

| Check box if present at facility | Equipment Type | Quantity |
|---|---|---|
| ☒ | **Engine(s)** | **1** |
| ☒ | **Heater(s)** | **1** |
| ☒ | **Haul Road** | **1** |
| ☒ | **Fugitives** | **1** |
| ☒ | **Tanks** | **6** |
| ☒ | **Flare(s)** | **1** |
| ☒ | **Loading** | **2** |

| Check box if present at facility | Equipment Type | Quantity |
|---|---|---|
| ☒ | ECD | 1 |
| ☐ | Thermal Oxidizer | |
| ☐ | VRU | |
| ☒ | Other | Gunbarrel |

**Information Used to Determine Emissions**
**Check the box for each type of information submitted**:

☐ If manufacturer data are used, include specifications for emissions units and control equipment, including control efficiencies specifications and sufficient engineering data for verification of control equipment operation.
☐ For tank emissions, include a discussion of the method used to estimate tank-flashing emissions, accuracy of the model, the input and output summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.
☒ If requesting to use a representative gas sample, include a discussion of why the sample is representative for this facility and an explanation of how it is representative (e.g., same reservoir, same similar API gravity, similar composition).

The samples are from a nearby site that pulls from the same reservoir as the Broadside 1H Battery wells.

## Table 2: Potential Emission Rate

Enter the maximum lb/hr and ton/yr emission rate from each piece of regulated equipment. Only federally enforceable requirements may be used to reduce the PER of a source. For each unit number, include equipment type (e.g. ENG-1 for engine, HTR-1 for heater, and TANK-1, for storage tank). The basis for the federally enforceable reduction must be included in Section 6.

☒ The emissions in this table are identical to the *Total Allowable NOI Emissions From All Facility Equipment* table from the AECT and are not repeated below. (For any equipment using a federally enforceable control device to reduce the PER, list the unit number/description and control device in this table.)

| Unit No./ Description | NOx | | CO | | VOC | | SOx | | TSP | | PM10 | | PM2.5 | | $H_2S$ | | List Federally Enforceable Control Device |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/ hr | ton/ yr | lb/ hr | ton /yr | lb/ hr | ton/ yr | lb/ hr | ton/ yr | lb/ hr | ton/ yr | lb/ hr | ton/ yr | lb/ hr | ton/ yr | lb/ hr | ton/ yr | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| **Total** | | | | | | | | | | | | | | | | | |

## Table 3: Potential Emission Rate of HAPs

For each HAP listed below with facility-wide emissions greater than 1 ton per year, enter the ton/year emission rate from each piece of regulated equipment. Only federally enforceable requirements may be used to reduce the PER of a source.

| Unit No. | Formaldehyde | Acetaldehyde | n-Hexane | Benzene | Toluene | Xylene | Ethyl-benzene | Total HAP | List Federally Enforceability Control Device |
|---|---|---|---|---|---|---|---|---|---|
| ECD-1 | | | 0.5 | | | | | 0.9 | |
| FUG-1 | | | 0.1 | | | | | 0.3 | |
| HT-1 | | | - | | | | | - | |
| ENG 1 | | | - | | | | | 0.2 | |
| GBS-1 | | | - | | | | | 0.9 | |
| ROAD-1 | | | - | | | | | - | |
| SSM | | | 0.2 | | | | | 0.3 | |
| TK-1 | | | 0.1 | | | | | 0.2 | ECD-1 |
| TK-2 | | | 0.1 | | | | | 0.2 | ECD-1 |
| TK-3 | | | 0.1 | | | | | 0.2 | ECD-1 |

| Unit No. | Formaldehyde | Acetaldehyde | n-Hexane | Benzene | Toluene | Xylene | Ethyl-benzene | Total HAP | List Federally Enforceability Control Device |
|---|---|---|---|---|---|---|---|---|---|
| TK-4 | | | 0.1 | | | | | 0.2 | ECD-1 |
| PWTK-1 | | | - | | | | | 0.3 | |
| PWTK-2 | | | - | | | | | 0.3 | |
| OILOAD-1 | | | 0.7 | | | | | 1.3 | |
| PWLOAD-1 | | | - | | | | | 0.1 | |
| **Total** | | | 1.9 | | | | | 5.4 | |

# AIR EMISSIONS CALCULATION TOOL

## Instructions for Completing the Equipment Calculation Forms

1. Click the **Start Button** below to reset the form to begin data entry.

2. The ***Air Emissions Calculation Tool*** initially loads with the **Core Data Information Form.** Once all information is entered on this form, the necessary equipment calculation pages will be created based on the information entered on the Core Data Information Form. The customized ***Air Emissions Calculation Tool*** should now be saved to your computer before entering any other information on the equipment calculation pages. **Warning,** every time you click on the **Start Button b**elow, the ***Air Emissions Calculation Tool*** will reset and all data entered will be lost.

3. Green/Blue colored information boxes require users to enter the required information for the subject facility. Default values may be changed if not appropriate for the facility.

4. Yellow colored boxes represent calculated values based on user information entered and may not be changed.

5. Yellow boxes with green/blue cross-hatching represent calculated values based on user information entered, however users may input data in these boxes, if necessary.

Start

# Core Data Information

**Mandatory** - All appropriate Data Must Be Entered For All Boxes Below. This Data Will Automatically Create All Required Equipment Forms And Populate This Data In All Emissions Calculation Forms.

| | | | | | |
|---|---|---|---|---|---|
| Date Field | Feb 4, 2021 | | | Permit/NOI/NPR Number | |
| Company Name: | Devon Energy Production Company, L.P. | | | Select Application Type | NOI |
| Facility Name: | Broadside 1H Battery | | | AI# if Known | |
| Max. Facility Gas Production | 5,000 | (Mscf/d) | 208.33 | (Mscf/h) | Elevation (ft.) 3,603 |
| Max. Facility Oil Production | 2,000 | (BOPD) | 83.33 | (BOPH) | |
| Max. Facility Produced Water | 5,000 | (BWPD) | 208.33 | (BWPH) | Sour Gas Streams at This Site? NO |

Enter The Quantity Of All Air Emissions Sources Located At The Facility
(Leave Blank For Each Equipment Type That Is Not Present)

| Equipment | Quantity | Equipment | Quantity |
|---|---|---|---|
| Amine Unit(s) | | Compressor Engine (s) | 1 |
| Dehydrator(s) | | Enclosed Combustion Device(s) (ECD) | 1 |
| Equipment Fugitives | ✓ | Flare(s) | 1 |
| Flash Tower/Ultra-Low Pressure Separator(s)^ | | Generator Engine (s) | |
| Gunbarrel Separator(s)/Tank(s) | 1 | Heater(s), Heater Treaters | 1 |
| Number of Paved Haul Roads Segments | | Number of Unpaved Haul Road Segments | 1 |
| Low Pressure Compressor(s)* & Compressor(s)* | | Oil/Condensate Storage Tank(s) | 4 |
| Oil/Condensate Truck Loading | ✓ | Produced Water Storage Tank(s) | 2 |
| Produced Water Truck Loading | ✓ | Pumpjack Engine(s) | |
| Reboilers(s) (Amine Units) | | Placeholder for Future Use | |
| Reboilers(s) (Glycol, others) | | Startup, Shutdown & Maintenance and Malfunction | ✓ |
| Skim Oil or Slop Oil Tank(s) | | Thermal Oxidizer(s) (TO) | |
| Vapor Combustion Device(s) (VCU) | | Vapor Recovery Unit(s) (VRU)^ | |

***Click Here to Generate Required Forms & Save to Your Computer***

Complete all required forms that follow, for the equipment at the subject facility, based on the selections made above. Items with an * indicate an air emissions calculation form currently not required at this time and those with ^ indicate forms under construction at this time.

# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Non-Emergency SI Rich Burn, Lean Burn & Clean Burn Natural Gas Fired Compressor Engines (100% Load) & Stationary & Non-Road Diesel (≤600hp & >600hp) & Gasoline Compressor Engines (≤600hp)

**Enter data in green-shaded areas only! One engine per form unless like-kind engines**

| | |
|---|---|
| Emission Unit ID: | ENG 1 |
| Engine Manufacturer: | Other |
| Engine Model: | TBD |
| Engine Serial #: | TBD |
| Engine Manuf. Date: | Post 1/1/2011 |
| Engine Type: | 4SRB |
| Factory HP Rating | 203 |
| Allowable HP Rating | 203 |
| Engine BSFC (Btu/(Hp*Hr)) | 7,802 |
| Fuel LHV, (BTU/SCF) | 1,177.69 |
| Fuel Sulfur (grains/dscf) | 0.002 |

**Engine Deration**

- (•) No Deration
- ( ) Stationary - Naturally Aspirated
- ( ) Stationary - Turbo Aspirated
- ( ) Portable - Naturally Aspirated
- ( ) Portable - Turbo Aspirated

| | |
|---|---|
| Quantity of Like-kind Engines: | 1 |
| Engine Description | Other |
| Hours/year | 8,760 |
| Fuel Type: | Field Gas |

No Deration.

Notes:

| | |
|---|---|
| Hourly Fuel Flow Rate (MMSCF/hr) | 0.001345 |
| Annual Fuel Flow Rate (MMSCF/yr) | 11.7822 |
| Maximum Engine RPM | 1,800 |
| Exhaust Temperature (°F) | 1,076 |
| Exhaust Velocity (ft/sec) | 64.92 |
| Exhaust Flow (ACFM) | 968 |
| Stack Diameter (ft) | 0.56 |
| Stack Height (ft) | 11.8 |

**Select Source of Emission Factors**

- ( ) AP-42 Emission Factors
- ( ) Manufacturer Specs (Enter Appropriate Emission Factors Below) or Diesel Tier 1, 2, 3 or 4
- ( ) NSPS JJJJ; Engine Manuf. Between July 1, 2007-June 30, 2010 & Engine HP≥500HP
- ( ) NSPS JJJJ; Engine Manuf. On or after July 1, 2010 & Engine HP≥500HP
- ( ) NSPS JJJJ; Engine Manuf. Between July 1, 2008-Dec. 31, 2010 & Engine HP 100≤HP<500
- (•) NSPS JJJJ; Engine Manuf. on or after Jan.1, 2011 & Engine HP 100≤HP<500
- ( ) NSPS JJJJ; Eng. Manuf. Betw. Jan. 1, 2008-June 30, 2010 & LB Engine HP 500≤HP<1350
- ( ) NSPS JJJJ; Engine Manuf. on or after July 1, 2010 & LB Engine HP 500≤HP<1350
- ( ) NSPS JJJJ; Engines < 100HP (Enter Appropriate Emission Factors Below)
- ( ) NSPS IIII; Stationary Diesel Engines

| Emission Factors, Catalyst Control Efficiency & Safety Factor | | | | | | Uncontrolled Emissions | | JJJJ Emissions | | Controlled Emissions (includes SF)[1] | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | Uncontrld. EF g/hp-hr | % Control Efficiency | % Safety Factor | Contrld EF g/(hp-hr) | JJJJ EF g/hp-hr | lb/hr | Tons/yr | lb/hr | Tons/yr | lb/hr | Tons/yr |
| NOx^ | | | 0 | | 1 | 0 | 0 | 0.4475 | 1.9601 | 0.4475 | 1.9601 |
| CO | | | 0 | | 2 | 0 | 0 | 0.8951 | 3.9205 | 0.8951 | 3.9205 |
| VOC* | | | 0 | | 0.7 | 0 | 0 | 0.3133 | 1.3723 | 0.3559 | 1.5588 |
| Formaldehyde | | | 0 | | | 0 | 0 | | | 0.0375 | 0.1643 |
| TSP/PM10/PM2.5 | 0.0687 | 0 | 0 | 0.0687 | | 0.0307 | 0.1345 | | 0 | 0.0307 | 0.1345 |
| [2]$SO_2$ | 0.002 | 0 | 0 | 0.002 | | 0.000769 | 0.003368 | | | 0.000769 | 0.003368 |
| AP-42 HAPs | lb/MMBtu | | | | | | | | | | |
| Formaldehyde | 0.0205 | NA | NA | NA | NA | 0.03749 | 0.16421 | NA | NA | NA | NA |
| Acetaldehyde | 0.00279 | NA | NA | NA | NA | 0.0051 | 0.02234 | NA | NA | NA | NA |
| Acrolein | 0.00263 | NA | NA | NA | NA | 0.00481 | 0.02107 | NA | NA | NA | NA |
| Benzene | 0.00158 | NA | NA | NA | NA | 0.00289 | 0.01266 | NA | NA | NA | NA |
| Ethylbenzene | 0.0000248 | NA | NA | NA | NA | 0.00005 | 0.00022 | NA | NA | NA | NA |
| n-Hexane | | NA | NA | NA | NA | 0 | 0 | NA | NA | NA | NA |
| Toluene | 0.000558 | NA | NA | NA | NA | 0.00102 | 0.00447 | NA | NA | NA | NA |
| Xylene | 0.000195 | NA | NA | NA | NA | 0.00036 | 0.00158 | NA | NA | NA | NA |
| Total HAPs | NA | NA | NA | NA | NA | 0.05172 | 0.22655 | NA | NA | 0.05 | 0.23 |

* Uncontrolled & Controlled VOC emissions include aldehyde emissions. VOC Emissions for JJJJ do not include aldehyde emissions. [1] For NOI's & NPR, controlled emissions cannot be less than JJJJ emissions. [2] SO2 EF (grains/scf or ppm) except for AP-42 EF in g/hp-hr for SO2 & EF Values for NOx, CO, VOC, TSP/PM10/PM2.5 in lb/hp-hr for large gasoline & diesel engines. ^NOx+NMHC Emission Factors for diesel engines assume 75% NOx and 25% VOC

# Calculation Tool for Non-Emergency SI Rich Burn, Lean Burn & Clean Burn Natural Gas Fired Compressor Engines (100% Load) & Large Stationary Diesel (≤600hp & >600hp) & Gasoline Compressor Engines (≤600hp) Emissions

AP-42 Gas-Fired Engine Emission factors based on AP-42, Tables 3.2-1, 3.2-2 & 3.2-3 (July 2000)
https://www3.epa.gov/ttn/chief/ap42/ch03/final/c03s02.pdf
40 CFR Part 60 Subpart JJJJ Emission Factors based on §60.4233 & Table 1
http://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.jjjj
AP-42 Diesel & Gasoline Fired Engine Emission factors based on AP-42, Tables 3.3-1, 3.2-2, 3.4-1, 3.4-2, 3.4-3 & 3.4-4
https://www3.epa.gov/ttn/chief/ap42/ch03/final/c03s03.pdf
40 CFR Part 60 Subpart IIII Emission Factors based on §60.4233 & Table 1
http://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.iiii
EPA Tier 1-4 Nonroad Compression Ignition Emission Standards (EPA-42--B-16-022)
https://nepis.epa.gov/Exe/ZyNET.exe/P100OA05.txt?ZyActionD=ZyDocument&Client=EPA&Index=2011%20Thru%202015&Docs=&Query=&Time=&EndTime=&SearchMethod=1&TocRestrict=n&Toc=&TocEntry=&QField=&QFieldYear=&QFieldMonth=&QFieldDay=&UseQField=&IntQFieldOp=0&ExtQFieldOp=0&XmlQuery=&File=D%3A%5CZYFILES%5CINDEX%20DATA%5C11THRU15%5CTXT%5C00000019%5CP100OA05.txt&User=ANONYMOUS&Password=anonymous&SortMethod=h%7C-&MaximumDocuments=1&FuzzyDegree=0&ImageQuality=r75g8/r75g8/x150y150g16/i425&Display=hpfr&DefSeekPage=x&SearchBack=ZyActionL&Back=ZyActionS&BackDesc=Results%20page&MaximumPages=1&ZyEntry=1

Emission factors for natural gas and field gas internal combustion engines may be based on AP-42, Tables 3.2-1, 3.2-2 or 3.2-3 or NSPS JJJJ emission standards or manufacturer specifications based on engine applicability.

## NOx Sample Calculation Using AP-42 Emission Factors for a 500-HP 4-Stroke Rich Burn Engine

pph = NOx Emission Factor (EF) lb/MMBtu * Heat Value Btu/scf/1020 Btu/scf * Maximum Heat Input (MMBtu/hr) * Allowable HP * 1/1000000 MMBtu/Btu
= 2.21 lb/MMBtu * 1020 Btu/scf/1020Btu/scf * 7500 MMBtu/hr *500 hp * 1/1000000 MMBtu/Btu
=8.29 lb/hr

tpy =NOx Emission Factor (EF) lb/MMBtu * Heat Value Btu/scf/1020 Btu/scf * Maximum Heat Input (MMBtu/hr) * Allowable HP * 1/1000000 MMBtu/Btu * 8760 hrs/yr * 1/2000 tons/lbs
= 2.21 lb/MMBtu * 1020 Btu/scf/1020 Btu/scf * 0.5 MMBtu/hr * 1/1020 Btu/scf * 1000000/1 Btu/MMBtu * 8760 hrs/yr * 1ton/2000lbs
= 36.31 tpy

AP-42 $SO_2$ emissions based on 100% conversion of fuel sulfur to $SO_2$ and assumes sulfur content in natural gas of 2,000 grains/$10^6$ scf. The SO2 emission factor is converted to other natural gas sulfur contents by multiplying the $SO_2$ emission factor by the ratio of the site-specific sulfur content (grains/$10^6$ scf) to 2,000 grains/$10^6$ scf. For all other engines not using AP-42, The $SO_2$ emissions are based on grains S/scf. Fuel Heat values for Diesel = 0.137 MMBtu/gal; LPG = 0.0905 MMBtu/gal and Gasoline = 0.13 MMBtu/gal per AP-42 Appendix A, pg 5 & 6. SO2 emissions for all diesel engines not using AP-42, equals Gal Diesel/hr * diesel wt (lb)/gal * 15 ppm S * 64 lb SO2/32 lb S, where diesel weighs 7.1089 lb/gal.

## NOx Sample Calculation Using NSPS JJJJ Emission Factors for a July 1, 2010 500-HP 4-Stroke Rich Burn Engine

pph = NOx Emission Factor (EF) g/hp-hr * 1/453.6 lbs/grams * Allowable HP
= 1 g/hp-hr * 1/453.6 lbs/grams * 500 hp
= 1.1 lb/hr

tpy =NOx Emission Factor (EF) g/hp-hr * 1/453.6 lbs/grams * Allowable HP * 8760 hrs/yr * 1/2000 tons/lbs
= 1 g/hp-hr * 1/453.6 lbs/grams * 500 hp * 8760 hrs/yr * 1ton/2000lbs
= 4.82 tpy

Technical Disclaimer
This document is intended to help you accurately determine stationary compressor engine emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of stationary compressor engine emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

# New Mexico Environment Department Air Quality Bureau Emissions Calculation Forms

**Date:** Feb 4, 2021
**Company Name:** Devon Energy Production Company, L.P.
**Facility Name:** Broadside 1H Battery

**Permit Number:**
**AI# if Known:**
**Elevation (ft.):** 3,603

Total Potential Emission Rate For All Regulated Engines (NOI Request)

| UnitID | $NO_x$ | | CO | | VOC | | $SO_x$ | | TSP | | $PM_{10}$ | | $PM_{2.5}$ | | $H_2S$ | | Total HAP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr |
| ENG 1 | 0.45 | 1.96 | 0.9 | 3.92 | 0.36 | 1.56 | 0 | 0 | 0.03 | 0.13 | 0.03 | 0.13 | 0.03 | 0.13 | | | 0.05 | 0.23 |
| ENG 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| ENG 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| ENG 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| ENG 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| ENG 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| ENG 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| ENG 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| GEN 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| PJENG 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 |
| **Page Totals** | **0.45** | **1.96** | **0.9** | **3.92** | **0.36** | **1.56** | **0** | **0** | **0.03** | **0.13** | **0.03** | **0.13** | **0.03** | **0.13** | | | **0.05** | **0.23** |

# New Mexico Environment Department Air Quality Bureau Emissions Calculation Forms

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Heaters, Heated Separators & Heater Treaters (Only for units rated <100 MMBTU/Hr)

*Enter appropriate information in green boxes below changing default values as appropriate and adding additional rows for each heater unit.*

Enter the Sulfur Content of Gas or use default value (grains/$10^6$ scf). **2,000**

$SO_2$ emissions based on AP-42 EF and assumes 100% conversion of fuel sulfur to SO2 and assumes sulfur content in natural gas of 2,000 grains/1000000 scf. Change default value of 2000 as needed based on gas analysis submitted with application.

Enter the Site Fuel Heat Value of Gas or use default value (Btu/scf). **1,177.69**

### *Emissions From All Heaters, Heated Separators & Heater Treaters*

| Add/Remove Rows | Unit ID | Heat Input | $NO_x$ | | CO | | VOC | | $SO_2$ | | $PM/PM_{10}/PM_{2.5}$ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MMBtu/hr | pph | tpy | pph | tpy | pph | tpy | pph | tpy | pph | tpy |
| + - | HT-1 | 0.5 | 0.057 | 0.25 | 0.048 | 0.21 | 0.003 | 0.013 | 0 | 0 | 0.004 | 0.018 |
| | Totals | | 0.057 | 0.25 | 0.048 | 0.21 | 0.003 | 0.013 | 0 | 0 | 0.004 | 0.018 |

# Calculation Tool for Heaters, Heated Separators & Heater Treater Emissions (Uncontrolled) for Oil & Gas Production Sites (Only for units rated <100 MMBTU/Hr)

All emission factors based on AP-42, Table 1.4-1, Table 1.4-2 and Table 1.4-3 (July 1998)
https://www3.epa.gov/ttn/chief/ap42/ch01/final/c01s04.pdf

Emission factors for natural gas combustion in boilers and furnaces are presented in AP42, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4. The Tables present emission factors on a volume basis (lb/$10^6$ scf). To convert to an energy basis (lb/MMBtu), divide by a heating value of 1,020 MMBtu/$10^6$ scf. The emission factors may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value.

NOx Sample Calculation

pph = AP 42 NOx Emission Factor (EF) * site fuel heat value Btu/scf/1020 Btu/scf * Maximum Heat Input (MMBtu/hr) * 1/site fuel heat Value Btu/scf * 1000000/1Btu/MMBtu
= 100 lb/1000000 scf * 2000 Btu/scf/1020 Btu/scf * 0.5 MMBtu/hr * 1/2000 Btu/scf * 1000000/1Btu/MMBtu
=0.096 lb/hr

tpy = AP 42 NOx Emission Factor (EF) * site fuel heat value Btu/scf/1020 Btu/scf * Maximum Heat Input (MMBtu/hr) * 1/site fuel heat value Btu/scf * 1000000/1 Btu/MMBtu * 8760 hrs/yr * 1ton/2000 lbs
= 100 lb/1000000 scf * 2000 Btu/scf/1020 Btu/scf * 0.5 MMBtu/hr * 1/2000 Btu/scf * 1000000/1 Btu/MMBtu * 8760 hrs/yr * 1ton/2000lbs
= 0.42 tpy

$SO_2$ emissions based on 100% conversion of fuel sulfur to $SO_2$ and assumes sulfur content in natural gas of 2,000 grains/$10^6$ scf. The $SO_2$ emission factor is converted to other natural gas sulfur contents by multiplying the $SO_2$ emission factor by the ratio of the site-specific sulfur content (grains/$10^6$ scf) to 2,000 grains/$10^6$ scf.

Technical Disclaimer
This document is intended to help you accurately determine heaters, heated separators & heater treaters emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these combustion units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of heaters, heated separators & heater treaters emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

# Vertical Fixed Roof (VFR) Oil/Condensate VOC Flash Emissions Calculations Form

## Select Tanks Flash Emission Calculation Method

| | | |
|---|---|---|
| GOR | E & P Tanks | ProMax |
| Vasquez-Beggs | HYSYS | VMGSim |

## ProMax Oil Tanks Emission Calculations

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

### Tanks VOC Control Method

| | | | |
|---|---|---|---|
| Capture Efficiency | 98 | Represent Uncaptured/Uncollected VOC's at Tanks | YES |
| VOC Control Method[1] | Enclosed Combustion Device (ECD) | Represent VRU/ULPC Downtime Emissions at Tanks | NA |
| VOC Destruction Efficiency[2] | 98 | Represent VOC Controlled Emissions at Tanks* | NO |

Notes: The LB/HR calculations in this application are based on the maximum anticipated daily production level for the facility, which is 2,000 BOPD. The TPY calculations are based on the anticipated annual average daily production level for the facility, which is 850 BOPD.

### *Total VOC Flash Emissions From Oil/Condensate Storage Tanks Calculated with ProMax*

| Add/Remove Rows | Tank ID | VOC Uncontrolled Emissions | | VOC Emissions after Control | | VOC Emissions at the Tanks | |
|---|---|---|---|---|---|---|---|
| Up To 10 Units | | pph | tpy | pph* | tpy* | pph | tpy |
| + - | TK-1 | 95.71 | 202.3 | 1.91 | 4.05 | 1.91 | 4.05 |
| + - | TK-2 | 95.71 | 202.3 | 1.91 | 4.05 | 1.91 | 4.05 |
| + - | TK-3 | 95.71 | 202.3 | 1.91 | 4.05 | 1.91 | 4.05 |
| + - | TK-4 | 95.71 | 202.3 | 1.91 | 4.05 | 1.91 | 4.05 |
| | Totals | 382.84 | 809.2 | 7.64 | 16.2 | 7.64 | 16.2 |



Notes 1 & 2 See next page; * Emissions only represented at tanks if "Yes" is selected to represent emissions at tanks.

# Calculation Tool for Tanks Flashing & Working & Standing Emissions for Oil & Gas Production Sites

All flash emissions based on flash calculation methodology selected;

1) The appropriate ECD, flare, TO, VCU or VRU form must also be completed.
2) Manufacturer documentation required to support % control selected. If using a VRU/LPC, calculations assume VRU/ULPC with a 100% control efficiency, but with 5% downtime;
3) Information included in calculation tool must be based on representative oil and gas analysis which must be submitted with application;
4) GOR and Vasquez-Beggs sample calculations outlined below; E & P Tanks, ProMax, HYSYS & VMG Sim flash emissions require submittal of computer simulation model emissions calculations print-outs;
5) Working & Standing emissions based on AP-42 Chpt. 7, tanks 4.09d computer simulation or ProMax, or VMG computer simulation models.

Sample Calculations

**GOR Methodology**

VOC pph = GOR (scf/bbl) * Facility Oil Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lb-mole @ 70$^{O}$F, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol)
= 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol
= 216.45 lbs/hr

VOC tpy = GOR (scf/bbl) * Facility Oil Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lb-mole @ 70$^{O}$F, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol) * 8760 hr/yr * 1/2000 lbs/ton
= 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol * 8760 hr/yr * 1/2000 lbs/ton
= 948.05 tpy

**Vasquez-Beggs Methodology**

| INPUTS | | | Constraints | | | |
|---|---|---|---|---|---|---|
| API Gravity | | API | 16 | <API> | 58 | $^{0}$API |
| Separator Pressure (psig) | | P | 50 | <P+Patm> | 5250 | psia |
| Separator Temp. ($^{0}$F) | | Ti | 70 | <Ti> | 295 | $^{0}$F |
| Separator Gas Gravity at Initial Condition | | SGi | 0.56 | <SGi> | 1.18 | MW/28.97 |
| Barrels of Oil/Day (BOPD) | 500 | Q | None | <Q> | None | BOPD |
| Tank Gas MW | | MW | 18 | <MW> | 125 | lb/lb-mole |
| VOC Fraction of Tank Gas | | VOC | 0.5 | <VOC> | 1.00 | Fraction |
| Atmospheric Pressure (psia) | | Patm | 20 | <Rs> | 2070 | scf/bbl |

| Constants | | | |
|---|---|---|---|
| | $^{0}$API Gravity | | |
| $^{0}$APTI | <30 | ≥30 | Given $^{0}$API |
| C1 | 0.0362 | 0.0178 | |
| C2 | 1.0937 | 1.187 | |
| C3 | 25.724 | 23.931 | |

SGx = Dissolved gas gravity at Separator pressure = SGi [1.0+0.00005912*API*Ti*Log(Pi/114.7)]

Rs = (C1 * SGx * Pi^C2) exp ((C3 * API) / (Ti + 460)) for P + Patm

THC = Rs * Q * MW * 1/385 scf/lb-mole * 365 D/Yr * 1 ton/2000 lbs

VOC = THC * Frac. of C3+ in the Stock Tank Vapor

Technical Disclaimer
This document is intended to help you accurately determine oil/condensate storage tank flash, working and standing emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of oil/condensate storage tank flash, working and standing emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Vertical Fixed Roof (VFR) Oil/Condensate VOC Working & Standing Emissions Calculations Form

**Select Tanks W & S Emission Calculation Method**

AP-42 Chpt. 7 | EPA Tanks 4.09d | ProMax | E & P Tanks

### ProMax Oil Tanks W & S Emission Calculations

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

**Tanks VOC Control Method**

| | | | |
|---|---|---|---|
| Capture Efficiency | 98 | Represent Uncaptured and/or Controlled VOC's at Tanks | YES |
| VOC Control Method | Enclosed Combustion Device (E | Represent VRU/ULPC Downtime Emissions at Tanks | NA |
| VOC Destruction Efficiency | 98 | Represent VOC Controlled Emissions at Tanks* | NO |

Notes: The LB/HR calculations in this application are based on the maximum anticipated daily production level for the facility, which is 2,000 BOPD. The TPY calculations are based on the anticipated annual average daily production level for the facility, which is 850 BOPD.

***Total VOC W & S Emissions From Oil/Condensate Storage Tanks Calculated with ProMax***

| Add/Remove Rows Up To 10 Units | Tank ID | VOC Uncontrolled Emissions | | VOC Emissions after Control | | VOC Emissions at the Tanks | |
|---|---|---|---|---|---|---|---|
| | | pph | tpy | pph* | tpy* | pph | tpy |
| + - | TK-1 | 10.47 | 16.39 | 0.21 | 0.33 | 0.21 | 0.33 |
| + - | TK-2 | 10.47 | 16.39 | 0.21 | 0.33 | 0.21 | 0.33 |
| + - | TK-3 | 10.47 | 16.39 | 0.21 | 0.33 | 0.21 | 0.33 |
| + - | TK-4 | 10.47 | 16.39 | 0.21 | 0.33 | 0.21 | 0.33 |
| | Totals | 41.88 | 65.56 | 0.84 | 1.32 | 0.84 | 1.32 |



Notes 1 & 2 See next page; * Emissions only represented at tanks if "Yes" is selected to represent emissions at tanks.

# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Emissions From Loading Petroleum Liquid

*Select Appropriate AP-42 Petroleum Liquid Loading Methodology & Enter appropriate information in the green boxes below changing default values as appropriate.*

Emission Unit ID: OILLOAD-1

| | | | |
|---|---|---|---|
| Facility Oil Throughput (gal/yr) | 13,030,500 | Max. Hourly Loading Rate (gal/hr) | 22,680 |

*Select Appropriate AP-42 Petroleum Liquid Loading Methodology Below**

(●) AP-42, 5.2-4 Equation 1 ( ) AP-42, Table 5.2-5

| | | | |
|---|---|---|---|
| **S** - Saturation Factor (From AP-42 Table 5.2-1) | 0.6 | **M** - Molecular Weight of Vapors (lb/lb-mole) | 40.82 |
| **$P_{annual}$** - Avg. Annual True Vapor Pressure of Liquid Loaded (psia) | 11.51 | **$P_{hourly}$** - Max Hourly True Vapor Pressure of Liquid Loaded (psia) | 12.21 |
| **$T_{annual}$** - Average Annual Temperature $^{O}F$ of Bulk Liquid Loaded | 66.43 | **$T_{hourly}$** - Maximum Hourly Temperature $^{O}F$ of Bulk Liquid Loaded | 99.97 |

**Select Emission Source** - From AP-42 Table 5.2-5

( ) Submerged Loading Dedicated Normal Service
( ) Submerged Loading Vapor Balance Service
( ) Splash Loading Dedicated Normal Service
( ) Splash Loading Vapor Balance Service

### Truck Loading VOC Control Method

| | | | |
|---|---|---|---|
| Capture Efficiency | 100 | Represent Uncaptured/Uncollected VOC's at Loading Rack | NA |
| VOC Control Method[1] | Uncontrolled | Represent VRU/ULPC Downtime Emissions at Loading Rack | NA |
| VOC Destruction Efficiency[2] | 0 | Represent VOC Controlled Emissions at Loading Rack | YES |

Notes

### *Total VOC Emissions From Loading Petroleum Liquids*

| Pollutant | VOC Uncontrolled Emissions | | VOC Emissions after Control | | VOC Emissions at the Loading Rack | |
|---|---|---|---|---|---|---|
| | pph* | tpy* | pph* | tpy* | pph* | tpy* |
| VOC | 150.92 | 43.47 | 150.92 | 43.47 | 150.92 | 43.47 |

Footnote: * All emission factors based on AP-42, 5.2-4 Equation 1 or AP-42 Table 5.2-5 (July 2008); See next page for calculation notes. You may elect to represent the controlled emissions at the loading rack or at the control device or tanks by selecting the appropriate drop-down options under *Truck Loading VOC Control Method*.

# Calculation Tool for Emissions From Loading Petroleum Liquid

Emissions based on AP-42, 5.2-4 Equation 1 (July 2008) or AP-42, Table 5.2-5

https://www3.epa.gov/ttn/chief/ap42/ch05/final/c05s02.pdf

**AP-42 5.2-4 Equation 1**

Emissions from loading petroleum liquid can be estimated (with a probable error of ±30 percent)[4] using the following expression:

Equation 1 $L_L = 12.46 * SPM/T$

where:

$L_L$ = loading loss, pounds per 1000 gallons (lb/$10^3$ gal) of liquid loaded;

S = a saturation factor (see Table 5.2-1 reproduced below))

P = true vapor pressure of liquid loaded, pounds per square inch absolute (psia) (see Section 7.1, "Organic Liquid Storage Tanks")

M = molecular weight of vapors, pounds per pound-mole (lb/lb-mole) (see Section 7.1, "Organic Liquid Storage Tanks")

T = temperature of bulk liquid loaded, °R (°F + 460)

VOC pph = (12.46*0.6*7.0 (psia)*50 (lb/lb-mole)/550°R)/1000 (gal) * 8400 (gal/hr)
= 39.96 lb/hr

VOC tpy = (12.46*0.6*4.5 (psia)*50 (lb/lb-mole)/525°R)/1000 * 1533000 (gal/yr) * 1/2000 (ton/lbs)
= 2.46 tpy

**Table 5.2-1. SATURATION (S) FACTORS FOR CALCULATING PETROLEUM LIQUID LOADING LOSSES**

| Cargo Carrier | Mode of Operation | S Factor |
|---|---|---|
| Tank trucks and rail tank cars | Submerged loading of a clean cargo tank | 0.5 |
| | Submerged loading: dedicated normal service | 0.6 |
| | Submerged loading: dedicated vapor balance service | 1.0 |
| | Splash loading of a clean cargo tank | 1.45 |
| | Splash loading: dedicated normal service | 1.45 |
| | Splash loading: dedicated vapor balance service | 1.0 |
| Marine vessels[a] | Submerged loading: ships | 0.2 |
| | Submerged loading: barges | 0.5 |

[a] For products other than gasoline and crude oil. For marine loading of gasoline, use factors from Table 5.2-2. For marine Loading of crude oil, use Equations 2 and 3 and Table 5.2-3.

**AP-42 Table 5.2-5**

VOC pph = (2lb/1000 (gal) * ((100-15)/100) * 8400 (gal/hr) = 16.8 pph

VOC tpy = (2lb/1000 (gal) * ((100-15)/100) * 100 (BOPD) * 42 (gal/bbl) * 365 (days/yr) * 1/2000 (ton/lb) = 1.53 tpy

**Table 5.2-5 TOTAL UNCONTROLLED ORGANIC EMISSION FACTORS FOR PETROLEUM LIQUID RAIL TANK CARS AND TANK TRUCKS**

| Emission Source | Mode of Operation | Crude Oil (lb/1000 gal transferred)[b] |
|---|---|---|
| Loading Operations[c] | | |
| | Submerged loading: dedicated normal service | 2 |
| | Submerged loading: dedicated vapor balance service | 3 |
| | Splash loading: dedicated normal service | 5 |
| | Splash loading: dedicated vapor balance service | 3 |

a Reference 2. ……VOC factors for crude oil can be assumed to be 15% lower than the total organic factors, to account for the methane and ethane content of crude oil evaporative emissions. All other products should be assumed to have VOC factors equal to total organics; b The example crude oil has an RVP of 34 kPa (5 psia); c Loading emission factors are calculated using Equation 1 for a dispensed product temperature of 16°C (60°F). In the absence of specific inputs for Equations 1 , the typical evaporative emission factors presented in Tables 5.2-5 should be used. It should be noted that, although the crude oil used to calculate the emission values presented in this tables has an RVP of 5, the RVP of crude oils can range from less than 1 up to 10. In areas where loading and transportation sources are major factors affecting air quality, it is advisable to obtain the necessary parameters and to calculate emission estimates using Equations 1.

1) The appropriate ECD, flare, TO, VCU or VRU form must also be completed.

2) Manufacturer documentation required to support % control selected. If using a VRU/LPC, calculations assume VRU/ULPC with a 100% control efficiency, but with 5% downtime;

3) Information included in calculation tool must be based on representative oil and gas analysis which must be submitted with application;

^) Vapor balancing emissions to tanks must be represented at the tanks;

Technical Disclaimer

This document is intended to help you accurately determine truck loading petroleum emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how truck loading operations work and how it generates emissions, how it is monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of truck loading petroleum emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

# Gunbarrel Separator VOC Flash Emissions Calculations Form

## Select Flash Emission Calculation Method

| | | |
|---|---|---|
| GOR | E & P Tanks | ProMax |
| Vasquez-Beggs | HYSYS | VMGSim |

## ProMax Gunbarrel Separator Emission Calculations

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

### Gunbarrel Separator VOC Control Method

| | | | |
|---|---|---|---|
| Capture Efficiency | 100 | Represent Uncaptured/Uncollected VOC's at Tanks | YES |
| VOC Control Method[1] | Not Controlled | Represent VRU/ULPC Downtime Emissions at Tanks | NA |
| VOC Destruction Efficiency[2] | 0 | Represent VOC Controlled Emissions at Tanks* | YES |
| Notes | The gunbarrel is a separator and not a conventional tank; therefore, it does not have W&S emissions, only flash. | | |

### *Total VOC Flash Emissions From Gunbarrel Separator Calculated with ProMax*

| Add/Remove Rows Up To 10 Units | Tank ID | VOC Uncontrolled Emissions | | VOC Emissions after Control | | VOC Emissions at the Tanks | |
|---|---|---|---|---|---|---|---|
| | | pph | tpy | pph* | tpy* | pph | tpy |
| + - | GBS-1 | 3.63 | 5.72 | 0 | 0 | 3.63 | 5.72 |
| | Totals | 3.63 | 5.72 | 0 | 0 | 3.63 | 5.72 |



Notes 1 & 2 See next page; * Emissions only represented at tanks if "Yes" is selected to represent emissions at tanks.

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

# Calculation Tool for Tanks Flashing & Working & Standing Emissions for Oil & Gas Production Sites

All flash emissions based on flash calculation methodology selected;

1) The appropriate ECD, flare, TO, VCU or VRU form must also be completed.
2) Manufacturer documentation required to support % control selected. Assumes VRU/ULPC with a 100% control efficieny, but with 5% downtime;
3) Information included in calculation tool must be based on representative oil and gas analysis which must be submitted with application;
4) GOR and Vasquez-Beggs sample calculations outlined below; E & P Tanks, ProMax, HYSYS & VMG Sim flash emissions require submittal of computer simulation model emissions calculations print-outs;
5) Working & Standing emissions based on AP-42 Chpt. 7, tanks 4.09d computer simulation or ProMax, or VMG computer simulation models.

Sample Calculations

**GOR Methodology**

VOC pph = GOR (scf/bbl) * Facility Oil Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lb-mole @ 70$^{O}$F, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol)
= 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol
= 216.45 lbs/hr

VOC tpy = GOR (scf/bbl) * Facility Oil Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lb-mole @ 70$^{O}$F, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol) * 8760 hr/yr * 1/2000 lbs/ton
= 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol * 8760 hr/yr * 1/2000 lbs/ton
= 948.05 tpy

**Vasquez-Beggs Methodology**

| INPUTS | | | Constraints | | | |
|---|---|---|---|---|---|---|
| API Gravity | | API | 16 | <API> | 58 | $^{0}$API |
| Separator Pressure (psig) | | P | 50 | <P+Patm> | 5250 | psia |
| Separator Temp. ($^{0}$F) | | Ti | 70 | <Ti> | 295 | $^{0}$F |
| Separator Gas Gravity at Initial Condition | | SGi | 0.56 | <SGi> | 1.18 | MW/28.97 |
| Barrels of Oil/Day (BOPD) | 500 | Q | None | <Q> | None | BOPD |
| Tank Gas MW | | MW | 18 | <MW> | 125 | lb/lb-mole |
| VOC Fraction of Tank Gas | | VOC | 0.5 | <VOC> | 1.00 | Fraction |
| Atmospheric Pressure (psia) | | Patm | 20 | <Rs> | 2070 | scf/bbl |

| Constants | | | |
|---|---|---|---|
| | $^{0}$API Gravity | | |
| $^{0}$APTI | <30 | ≥30 | Given$^{0}$API |
| C1 | 0.0362 | 0.0178 | |
| C2 | 1.0937 | 1.187 | |
| C3 | 25.724 | 23.931 | |

SGx = Dissolved gas gravity at Separator pressure = SGi [1.0+0.00005912*API*Ti*Log(Pi/114.7)]

Rs = (C1 * SGx * Pi^C2) exp ((C3 * API) / (Ti + 460)) for P + Patm

THC = Rs * Q * MW * 1/385 scf/lb-mole * 365 D/Yr * 1 ton/2000 lbs

VOC = THC * Frac. of C3+ in the Stock Tank Vapor

Technical Disclaimer
This document is intended to help you accurately determine oil/condensate storage tank flash, working and standing emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of oil/condensate storage tank flash, working and standing emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Gunbarrel Separator(s) VOC Working & Standing Emissions Calculations Form

**Select W & S Emission Calculation Method**

AP-42 Chpt. 7 | EPA Tanks 4.09d | ProMax | E & P Tanks

### ProMax Gunbarrel Separator W & S Emission Calculations

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

**Gunbarrel Separator VOC Control Method**

| | | | |
|---|---|---|---|
| Capture Efficiency | 100 | Represent Uncaptured and/or Controlled VOC's at Tanks | YES |
| VOC Control Method | Not Controlled | Represent VRU/ULPC Downtime Emissions at Tanks | NA |
| VOC Destruction Efficiency | 0 | Represent VOC Controlled Emissions at Tanks* | YES |

Notes: The gunbarrel is a separator and not a conventional tank; therefore, it does not have W&S emissions, only flash.

***Total VOC W & S Emissions From Gunbarrel Separator Calculated with ProMax***

| Add/Remove Rows Up To 10 Units | Tank ID | VOC Uncontrolled Emissions | | VOC Emissions after Control | | VOC Emissions at the Tanks | |
|---|---|---|---|---|---|---|---|
| | | pph | tpy | pph* | tpy* | pph | tpy |
| + - | GBS-1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Totals | 0 | 0 | 0 | 0 | 0 | 0 |



Notes 1 & 2 See next page; * Emissions only represented at tanks if "Yes" is selected to represent emissions at tanks.

# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Startup, Shutdown & Maintenance and Malfunction

- ○ No SSM emissions are expected from routine operations.
- ○ Request up to 10 tpy of VOC SSM emissions.
- ◉ Request site specific VOC & H2S SSM and enter information below.
- ○ Request site specific VOC & H2S SSM plus 10 tpy VOC and enter information below.
- ○ Request site specific combustion SSM and those emissions are included in Section 4 (attach calculations.)
- ○ Request 10 tpy VOC Malfunction emissions for GCP-O&G, GCP-6 or NSR permitting actions only.

| | Blowdowns | | | Engine Startups | | |
|---|---|---|---|---|---|---|
| Unit Numbers | | | | | | |
| Quantity of Like-kind Blowdown Units or Engines | 1 | | | | | |
| Total Volume of Each Blowdown or Engine Startup Vent (acf) | | | | | | |
| Duration of Event (Minutes) | | | | | | |
| Maximum Blowdowns or Startups/hr | 1 | | | | | |
| Frequency of Blowdowns or Engine Startups (Events/yr) | | | | | | |
| Total Actual Volume of Gas Vented (acf/yr) | 0 | | | | | |
| Pressure of Gas Inside Unit Before Venting (psig) | | | | | | |
| Final Pressure (psia) | 14.7 | | | | | |
| Gas Temperature Prior to Venting (°F) | | | | | | |
| Vented Gas Molecular Weight (lb/lb-mol | | | | | | |
| Vented Gas VOC wt % | | | | | | |
| Vented Total HAP wt % | | | | | | |
| Vented Gas Benzene wt % | | | | | | |
| Vented Gas $H_2S$ wt % | | | | | | |

Startup, Shutdown and Maintenance Emissions (SSM) and Malfunction Emissions

| SSM | VOC | | Total HAP | | Benzene | | $H_2S$ | |
|---|---|---|---|---|---|---|---|---|
| | PPH | TPY | PPH | TPY | PPH | TPY | PPH | TPY |
| SSM Blowdowns | | | | | | | | |
| SSM Startups | | | | | | | | |
| SSM Other (Attach Calculations) | 142.33 | 3.8 | 21.5 | 0.32 | | | | |
| **SSM Totals** | **142.33** | **3.8** | **21.5** | **0.32** | | | | |
| **Malfunction Total** | | | | | | | | |

Notes

## Planned SSM Emissions

The venting emissions calculations herein should only be used when only gas (no liquids) is present in the unit. The calculation of the vented gas is based on the volume of the unit and assumes the unit is saturated with vapor at the pressure and temperature of the unit before venting occurs. If liquids are also present in the gas, please enter the calculated amounts in the SSM Other row only and submit separate calculations, since the calculations on this form do not account for the evaporation of liquids that may be present in the unit.

Calculations are based on the Ideal gas law: P(V) = n(R)(T)

VOC result = (((Pressure of Gas Inside the Unit Before Venting) * (Actual Volume of the Vented Unit)) / (Frequency of events) * (Molecular Weight) * VOC wt%)/(Ideal Gas Constant) * (Temperature of Gas Inside the Unit Before Venting)

Where the Ideal Gas Constant = 10.73159 ($ft^3$*psia)/R*lb-mol

For SSM combustion emissions, attach separate calculations.

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

# Vertical Fixed Roof (VFR) Produced Water VOC Flash Emissions Calculations Form

## Select Tanks Flash Emission Calculation Method

| | | |
|---|---|---|
| GWR | E & P Tanks | ProMax |
| Vasquez-Beggs | HYSIS | VMGSim |

### ProMax Produced Water Tanks Emission Calculations

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

## Tanks VOC Control Method

| | | | |
|---|---|---|---|
| Select % Oil in Water | 1 | VOC Uncontrolled emissions entered includes this percentage. | |
| Capture Efficiency | 100 | Represent Uncaptured and/or Controlled VOC's at Tanks | YES |
| VOC Control Method | Not Controlled | Represent VRU/ULPC Downtime Emissions at Tanks | NA |
| VOC Destruction Efficiency | 0 | Represent VOC Controlled Emissions at Tanks* | YES |

Notes: The LB/HR calculations in this application are based on the maximum anticipated daily production level for the facility, which is 5,000 BWPD. The TPY calculations are based on the anticipated annual average daily production level for the facility, which is 1,800 BWPD.

## *Total VOC Emissions From Produced Water Storage Tanks Calculated with ProMax*

| Add/Remove Rows Up To 10 Units | Tank ID | VOC Uncontrolled Emissions | | VOC Emissions after Control | | VOC Emissions at the Tanks | |
|---|---|---|---|---|---|---|---|
| | | pph | tpy | pph* | tpy* | pph | tpy |
| + - | PWTK- 1 | 0.06 | 0.09 | 0 | 0 | 0.06 | 0.09 |
| + - | PWTK- 2 | 0.06 | 0.09 | 0 | 0 | 0.06 | 0.09 |
| | Totals | 0.12 | 0.18 | 0 | 0 | 0.12 | 0.18 |



Notes 1 & 2 See next page; * Emissions only represented at tanks if "Yes" is selected to represent emissions at tanks.

# Calculation Tool for Tanks Flashing & Working & Standing Emissions for Oil & Gas Production Sites

All flash emissions based on flash calculation methodology selected ;

1) The appropriate ECD, flare, TO, VCU or VRU form must also be completed.
2) Manufacturer documentation required to support % control selected. Assumes VRU/ULPC with a 100% control efficieny, but with 5% downtime;
3) Information included in calculation tool must be based on representative oil and gas analysis which must be submitted with application;
4) GOR and Vasquez-Beggs sample calculations outlined below; E & P Tanks, ProMax, HYSYS & VMG Sim flash emissions require submittal of computer simulation model emissions calculations print-outs;
5) Working & Standing emissions based on AP-42 Chpt. 7, tanks 4.09d computer simulation or ProMax, or VMG computer simulation models.

Sample Calculations

**GWR Methodology**

VOC pph = GWR (scf/bbl) * Facility Water Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lb-mole @ 70$^{O}$F, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol) * Percent Oil in Water
= 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol * 1/100
= 2.16 lbs/hr

VOC tpy = GWR (scf/bbl) * Facility Water Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lb-mole @ 70$^{O}$F, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol) * 8760 hr/yr * 1/2000 lbs/ton * Percent Oil in Water
= 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol * 8760 hr/yr * 1/2000 lbs/ton * 1/100
= 9.48 tpy

**Vasquez-Beggs Methodology**

| INPUTS | | | Constraints | | | |
|---|---|---|---|---|---|---|
| API Gravity | | API | 16 | <API> | 58 | $^{0}$API |
| Separator Pressure (psig) | | P | 50 | <P+Patm> | 5250 | psia |
| Separator Temp. ($^{0}$F) | | Ti | 70 | <Ti> | 295 | $^{0}$F |
| Separator Gas Gravity at Initial Condition | | SGi | 0.56 | <SGi> | 1.18 | MW/28.97 |
| Barrels of Water/Day (BOPD) | 2,500 | Q | None | <Q> | None | BOPD |
| Tank Gas MW | | MW | 18 | <MW> | 125 | lb/lb-mole |
| VOC Fraction of Tank Gas | | VOC | 0.5 | <VOC> | 1.00 | Fraction |
| Atmospheric Pressure (psia) | | Patm | 20 | <Rs> | 2070 | scf/bbl |

| Constants | | | |
|---|---|---|---|
| | $^{0}$API Gravity | | |
| $^{0}$APTI | <30 | ≥30 | Given$^{0}$API |
| C1 | 0.0362 | 0.0178 | |
| C2 | 1.0937 | 1.187 | |
| C3 | 25.724 | 23.931 | |

SGx = Dissolved gas gravity at Separator pressure = SGi [1.0+0.00005912*API*Ti*Log(Pi/114.7)]

Rs = (C1 * SGx * Pi^C2) exp ((C3 * API) / (Ti + 460)) for P + Patm

THC = Rs * Q * MW * 1/385 scf/lb-mole * 365 D/Yr * 1 ton/2000 lbs

VOC = THC * Frac. of C3+ in the Stock Tank Vapor

Technical Disclaimer
This document is intended to help you accurately determine produced water storage tank flash, working and standing emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of produced water storage tank flash, working and standing emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Vertical Fixed Roof (VFR) Water Tanks VOC Working & Standing Emissions Calculations Form

**Select Tanks W & S Emission Calculation Method**

AP-42 Chpt. 7 | EPA Tanks 4.09d | ProMax | E & P Tanks

## ProMax Produced Water Tanks W & S Emission Calculations

**(Assumes W & S emissions are 1% of the emissions calculated based on oil properties and entered as uncontrolled emissions)**

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

**Tanks VOC Control Method**

| | | | |
|---|---|---|---|
| Capture Efficiency | 100 | Represent Uncaptured and/or Controlled VOC's at Tanks | YES |
| VOC Control Method | Not Controlled | Represent VRU/ULPC Downtime Emissions at Tanks | NA |
| VOC Destruction Efficiency | 0 | Represent VOC Controlled Emissions at Tanks* | YES |

Notes: The LB/HR calculations in this application are based on the maximum anticipated daily production level for the facility, which is 5,000 BWPD. The TPY calculations are based on the anticipated annual average daily production level for the facility, which is 1,800 BWPD.

***Total VOC W & S Emissions From Produced Water Storage Tanks Calculated with ProMax***

| Add/Remove Rows Up To 10 Units | Tank ID | VOC Uncontrolled Emissions | | VOC Emissions after Control | | VOC Emissions at the Tanks | |
|---|---|---|---|---|---|---|---|
| | | pph | tpy | pph* | tpy* | pph | tpy |
| + - | PWTK-1 | 1.2 | 0.37 | 0 | 0 | 1.2 | 0.37 |
| + - | PWTK-2 | 1.2 | 0.37 | 0 | 0 | 1.2 | 0.37 |
| | Totals | 2.4 | 0.74 | 0 | 0 | 2.4 | 0.74 |



Notes 1 & 2 See next page; * Emissions only represented at tanks if "Yes" is selected to represent emissions at tanks.

# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Emissions From Loading Produced Water Liquids

*Select Appropriate AP-42 Petroleum Liquid Loading Methodology & Enter appropriate information in the green boxes below changing default values as appropriate.*

Emission Unit ID: PWLOAD-1

| | |
|---|---|
| Facility Produced Water Throughput (gal/yr) | 13,797,000 |
| Max. Hourly Loading Rate (gal/hr) | 22,680 |
| **% Oil in Water** | 1 |

*Select Appropriate AP-42 Petroleum Liquid Loading Methodology Below**

(●) AP-42, 5.2-4 Equation 1 ( ) AP-42, Table 5.2-5

| | |
|---|---|
| **S** - Saturation Factor (From AP-42 Table 5.2-1) | 0.6 |
| **M** - Molecular Weight of Vapors (lb/lb-mole) | 40.82 |
| **$P_{annual}$** - Avg. Annual True Vapor Pressure of Liquid Loaded (psia) | 11.51 |
| **$P_{hourly}$** - Max Hourly True Vapor Pressure of Liquid Loaded (psia) | 12.21 |
| **$T_{annual}$** - Average Annual Temperature $^{o}F$ of Bulk Liquid Loaded | 66.43 |
| **$T_{hourly}$** - Maximum Hourly Temperature $^{o}F$ of Bulk Liquid Loaded | 99.97 |

**Select Emission Source** - From AP-42 Table 5.2-5

- ( ) Submerged Loading Dedicated Normal Service
- ( ) Submerged Loading Vapor Balance Service
- ( ) Splash Loading Dedicated Normal Service
- ( ) Splash Loading Vapor Balance Service

Notes:Under normal operation all water is piped offsite. To account for periods when the water pipeline is unavailable, approximately 328,500 barrels of water can be trucked offsite per year.

***Total VOC Emissions From Loading Produced Water Liquids Based On % Oil in Water Selected Above***

| Pollutant | Uncontrolled Emissions (pph) | Uncontrolled Emissions (tpy) |
|---|---|---|
| VOC | 1.51 | 0.46 |

Footnote: * All emission factors based on AP-42, 5.2-4 Equation 1 or AP-42 Table 5.2-5 (July 2008); See reverse side for calculation notes

# Calculation Tool for Emissions From Loading Produced Water Liquids

Emissions based on AP-42, 5.2-4 Equation 1 (July 2008) or AP-42, Table 5.2-5

https://www3.epa.gov/ttn/chief/ap42/ch05/final/c05s02.pdf

**AP-42 5.2-4 Equation 1**

Emissions from loading produced water liquids can be estimated (with a probable error of ±30 percent)[4] using the following expression:

Equation 1 $L_L = 12.46 * SPM/T$

where:

$L_L$ = loading loss, pounds per 1000 gallons (lb/$10^3$ gal) of liquid loaded (assumes 1% oil in water)

S = a saturation factor (see Table 5.2-1 reproduced below))

P = true vapor pressure of liquid loaded, pounds per square inch absolute (psia) (see Section 7.1, "Organic Liquid Storage Tanks")

M = molecular weight of vapors, pounds per pound-mole (lb/lb-mole) (see Section 7.1, "Organic Liquid Storage Tanks")

T = temperature of bulk liquid loaded, °R (°F + 460)

VOC pph = (12.46*0.6*7.0 (psia)*50 (lb/lb-mole)/550°R)/1000 (gal) * 8400 (gal/hr) * 0.01 (1% oil in water)
= 39.96 lb/hr

VOC tpy = (12.46*0.6*4.5 (psia)*50 (lb/lb-mole)/525°R)/1000 * 1533000 (gal/hr) * 1/2000 (ton/lbs) * 0.01 (1% oil in water)
= 2.46 tpy

**Table 5.2-1. SATURATION (S) FACTORS FOR CALCULATING PETROLEUM LIQUID LOADING LOSSES**

| Cargo Carrier | Mode of Operation | S Factor |
|---|---|---|
| Tank trucks and rail tank cars | Submerged loading of a clean cargo tank | 0.5 |
| | Submerged loading: dedicated normal service | 0.6 |
| | Submerged loading: dedicated vapor balance service | 1.0 |
| | Splash loading of a clean cargo tank | 1.45 |
| | Splash loading: dedicated normal service | 1.45 |
| | Splash loading: dedicated vapor balance service | 1.0 |
| Marine vessels[a] | Submerged loading: ships | 0.2 |
| | Submerged loading: barges | 0.5 |

[a] For products other than gasoline and crude oil. For marine loading of gasoline, use factors from Table 5.2-2. For marine Loading of crude oil, use Equations 2 and 3 and Table 5.2-3.

**AP-42 Table 5.2-5** (assumes 1% oil in water)

VOC pph= (2lb/1000 (gal) * ((100-15)/100) * 8400 (gal/hr) * 0.01 (1% oil in water) = 0.168 pph

VOC tpy = (2lb/1000 (gal) * ((100-15)/100) * 100 (BOPD) * 42 (gal/bbl) * 365 (days/yr) * 1/2000 (ton/lb) * 0.01 (1% oil in water) = 0.0153 tpy

**Table 5.2-5 TOTAL UNCONTROLLED ORGANIC EMISSION FACTORS FOR PETROLEUM LIQUID RAIL TANK CARS AND TANK TRUCKS**

| Emission Source | Mode of Operation | Crude Oil (lb/1000 gal transferred)[b] |
|---|---|---|
| Loading Operations[c] | | |
| | Submerged loading: dedicated normal service | 2 |
| | Submerged loading: dedicated vapor balance service | 3 |
| | Splash loading: dedicated normal service | 5 |
| | Splash loading: dedicated vapor balance service | 3 |

a Reference 2. ……VOC factors for crude oil can be assumed to be 15% lower than the total organic factors, to account for the methane and ethane content of crude oil evaporative emissions. All other products should be assumed to have VOC factors equal to total organics; b The example crude oil has an RVP of 34 kPa (5 psia); c Loading emission factors are calculated using Equation 1 for a dispensed product temperature of 16°C (60°F). In the absence of specific inputs for Equations 1 , the typical evaporative emission factors presented in Tables 5.2-5 should be used. It should be noted that, although the crude oil used to calculate the emission values presented in this tables has an RVP of 5, the RVP of crude oils can range from less than 1 up to 10. In areas where loading and transportation sources are major factors affecting air quality, it is advisable to obtain the necessary parameters and to calculate emission estimates using Equations 1.

Technical Disclaimer

This document is intended to help you accurately determine truck loading produced water emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how truck loading operations work and how it generates emissions, how it is monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of truck loading produced water emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Enclosed Combustion Device (ECD)

*Enter information in green boxes below changing default values as appropriate.*

| | | | |
|---|---|---|---|
| Emission Unit ID: | ECD-1 | Hourly Gas Routed to ECD (MMBtu/hr) | 10.462764 |
| Hourly Gas Stream to ECD (Mscf/hr): | 4.4494 | Annual Gas Routed to ECD (MMBtu/yr) | 42,375.9112 |
| Annual Gas Stream to ECD (MMscf/yr): | 18.0208 | Pilot Gas Routed to ECD (MMBtu/hr) | 0.1531 |
| Max. Heat Value of Field Gas (Btu/scf) | 2,351.5 | Gas MW (lb/lbmol) | |
| Field Gas Mol Fraction: (lbmol H2S/lb-mol) | 0.003 | Gas Pressure (psia) | 14.7 |
| Field Gas Sulfur Content (S grains/100scf) | 5 | Gas Temperature ( $^0$ F) | 70 |
| Pilot Gas to ECD (Mscf/h): | 0.13 | Field Gas H2S Wt.% to ECD (%) | |
| Max. Heat Value of Pilot Gas (Btu/scf) | 1,177.69 | Flare Control Efficiency: | 98 |
| Pilot Gas Sulfur Content (S grains/100scf) | 0.25 | Total VOC wt% to ECD (%)[1]: | 100 |
| Source of ECD Emission Factors | TCEQ Air or Unassist | Safety Factor (%) Applied to Total Emissions: | 0 |
| Use Highest Emission Factors From AP-42 or TCEQ EF For NOx & CO | YES | | |

Indicate in Box Below What Emission Units the Enclosed Combustion Device is Controlling

Units TK-1 through TK-4

## *Total Emissions From Enclosed Combustion Device*

| Pollutant | Uncontrolled Emissions (pph) | Uncontrolled Emissions (tpy) | Field Gas To ECD Emissions (pph) | Field Gas To ECD Emissions (tpy) | Pilot Gas ECD Emissions[2] (pph) | Pilot Gas ECD Emissions[2] (tpy) | Total ECD Emissions (pph) | Total ECD Emissions (tpy) |
|---|---|---|---|---|---|---|---|---|
| NOx* | 0 | 0 | 1.4439 | 2.9239 | 0.0211 | 0.0925 | 1.465 | 3.0164 |
| CO* | 0 | 0 | 3.2435 | 6.5683 | 0.0475 | 0.2079 | 3.291 | 6.7762 |
| VOC* | 416.21 | 857.27 | 8.3242 | 17.1454 | 0 | 0 | 8.3242 | 17.1454 |
| SO2# | 0 | 0 | 0.0217 | 0.044 | 0.0001 | 0.0004 | 0.0218 | 0.0444 |
| H2S+ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

See reverse side for calculation notes.
1) Based on representative gas analysis which must be submitted with application;
2) Assumes pilot gas has a negligible amount of VOC & 0.25 grains H2S/100scf;
*) Emission factors for NOx, CO & VOC based on AP-42, Table 13.5-1, (Dec. 2015) or TCEQ RG-360A/11 (February 2012)
#) Assumes $H_2S$ is converted to $SO_2$ at selected control efficiency; SO2 emissions based on mass balance;
+) Assumes $H_2S$ Destruction Efficiency equals flare destruction efficiency;

# Calculation Tool for Enclosed Combustion Device Emissions for Oil & Gas Production Sites

All emission factors based on AP-42, Table 1.4-1, Table 1.4-2 and Table 1.4-3 (July 1998)
https://www3.epa.gov/ttn/chief/ap42/ch01/final/c01s04.pdf

1) Information included in calculation tool must be based on representative gas analysis which must be submitted with application;
2) Assumes pilot gas has a negligible amount of VOC's and 0.25 grains H2S/100 scf;
3) $SO_2$ calculations assumes $H_2S$ is converted to $SO_2$ at selected control efficiency; $SO_2$ emissions based on mass balance;
4) $H_2S$ calculations assume $H_2S$ Destruction Efficiency equals thermal oxidizer destruction efficiency;

Sample Calculations

NOx pph = hourly gas routed to TO (MMScf/hr) * NOx Emission factor (lbs/MMScf) * Field Gas Heat Rate/1020 Btu/scf )
= 1(MMScf/hr) * 100 (lbs/MMScf) * 1200 (Btu/scf)/1020 (Btu/scf)
= 117.65 lbs/hr

NOx tpy = annual gas routed to TO (MMScf/yr) * NOx Emission factor (lbs/MMScf) * Field Gas Heat Rate/1020 (Btu/scf ) * 1 (ton)/2000 (lbs)
= 1 (MMBtu/yr) * 100 (lb/MMScf) * 1200 (Btu/scf)/1020 (Btu/scf) * 1/2000 (lbs/ton)
= 0.059 tpy

$SO_2$ pph = Hourly Gas Stream to TO (MMScf/hr) * 1000000/1 (scf/MMScf) * Field Gas mol Fraction of $H_2S$ (mol $H_2S$/lb-mol)/100 * 1/Universal Gas Constant 385 scf/lb-mole @ 60$^{O}$F, 1 atm * Conversion Rate of $H_2S$ to $SO_2$ lb-mol $SO_2$/lb-mol $H_2S$ * Molecular Weight of Sulfur Dioxide (64 lb $SO_2$/lb-mol $SO_2$)
= 1 MMScf/hr * 1000000/1 (Scf/MMScf) * 0.1 mol $H_2S$* 1/385 scf/lb-mole * 0.98 lb-mol $SO_2$/lb-mol $H_2S$ * 64 lb/lb-mol

Residual $H_2S$ pph = Hourly Gas Stream to TO (MMScf/hr) * 1000000/1 (scf/MMScf) * Field Gas mol Fraction of $H_2S$ (mol $H_2S$/lb-mol)/100 * 1/Universal Gas Constant 385 scf/lb-mole @ 60$^{O}$F, 1 atm * (100-(Flare Control Efficiency))/100) * Molecular Weight of Hydrogen Sulfide (34 lb $H_2S$/lb-mol $H_2S$)
= 1 MMScf/hr * 1000000/1 (Scf/MMScf) * 0.1 mol $H_2S$* 1/385 scf/lb-mole * (100-98%/100) * 34 lb/lb-mol

Technical Disclaimer
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# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Flare

*Enter information in green boxes below changing default values as appropriate.*

| | Gas Stream 1 | Gas Stream 2 | Gas Stream 3 | | Gas Stream 1 | Gas Stream 2 | Gas Stream 3 |
|---|---|---|---|---|---|---|---|
| Emission Unit ID | FL-1 | FL-1b | FL-1c | Hourly Gas Routed to Flare (MMBtu/hr) | 0 | 0 | 0 |
| Hourly Gas Stream to Flare (Mscf/hr) | | | | Annual Gas Routed to Flare (MMBtu/yr) | 0 | 0 | 0 |
| Annual Gas Stream to Flare (MMscf/yr) | | | | Pilot Gas Routed to Flare (MMBtu/hr) | 0.1531 | 0 | 0 |
| Max. Heat Value of Gas (Btu/scf) | 1,200 | 1,200 | 1,200 | Gas MW (lb/lbmol) | | | |
| Field Gas Mol Fraction (lbmol H2S/lb-mol) | | | | Gas Pressure (psia) | 14.7 | 14.7 | 14.7 |
| Field Gas Sulfur Content (S grains/100 scf) | 5 | 5 | 5 | Gas Temperature (°F) | 70 | 70 | 70 |
| Pilot Gas to Flare (Mscf/hr) | 0.13 | | | Field Gas H2S Wt.% to Flare (%) | | | |
| Max. Heat Value Pilot Gas (Btu/scf) | 1,177.69 | 1,020 | 1,020 | Flare Control Efficiency | 95 | 95 | 95 |
| Pilot Gas Sulfur Content (S grains/100 scf) | 0.25 | 0.25 | 0.25 | Total VOC wt.% to Flare (%)[1] | 100 | 100 | 100 |
| Source of Flare Emission Factors | TCEQ Air or | | | Safety Factor Applied to Total Emissions (%) | | | |
| Use Highest NOx & CO Emission Factors From AP-42 or TCEQ | YES | | | | | | |

### Total Emissions to Flare

| Pollutant | NOx | | | CO | | | VOC | | | SO2 | | | H2S | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gas Streams to Flare | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Uncontrolled (pph) | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Uncontrolled (tpy) | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Gas (pph) | | | | | | | | | | | | | | | |
| Field Gas (tpy) | | | | | | | | | | | | | | | |
| Pilot Gas (pph) | 0.0211 | | | 0.0475 | | | 0 | 0 | 0 | 0.0001 | 0 | 0 | 0 | 0 | 0 |
| Pilot Gas (tpy) | 0.0925 | | | 0.2079 | | | 0 | 0 | 0 | 0.0004 | 0 | 0 | 0 | 0 | 0 |
| Subtotal Flare (pph) | 0.0211 | 0 | 0 | 0.0475 | 0 | 0 | 0 | 0 | 0 | 0.0001 | 0 | 0 | 0 | 0 | 0 |
| Subtotal Flare (tpy) | 0.0925 | 0 | 0 | 0.2079 | 0 | 0 | 0 | 0 | 0 | 0.0004 | 0 | 0 | 0 | 0 | 0 |
| Total Flare (pph) | 0.02 | | | 0.05 | | | 0 | | | 0.0001 | | | 0 | | |
| Total Flare (tpy) | 0.09 | | | 0.21 | | | 0 | | | 0.0004 | | | 0 | | |

See reverse side for calculation notes.

1) Based on representative gas analysis which must be submitted with application; 2) Assumes pilot gas has a negligible amount of VOC & 0.25 grains H2S/100scf; *) Emission factors for NOx, CO & VOC based on AP-42, Table 13.5-1, (Dec. 2015) or TCEQ RG-360A/11 (February 2012); #) Assumes $H_2S$ is converted to $SO_2$ at selected control efficiency; SO2 emissions based on mass balance; +) Assumes $H_2S$ Destruction Efficiency equals flare destruction efficiency;

# Calculation Tool for Flare Emissions for Oil & Gas Production Sites

All emission factors based on AP-42, Emission factors for NOx, CO & VOC, Table 13.5-1, (December 2016); https://www3.epa.gov/ttn/chief/ap42/ch13/final/C13S05_12-13-16.pdf or https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg360/rg36011/rg-360a.pdf

1) Information included in calculation tool must be based on representative gas analysis which must be submitted with application;
2) Assumes pilot gas used has a negligible amount of VOC's and 0.25 grains H2S/100 scf;
3) $SO_2$ calculations assumes $H_2S$ is converted to $SO_2$ at selected control efficiency; $SO_2$ emissions based on mass balance;
4) $H_2S$ calculations assume $H_2S$ Destruction Efficiency equals flare destruction efficiency;

Sample Calculations

NOx pph = hourly gas routed to flare (MMBtu/hr) * NOx Emission factor (lbs/MMBtu)
= 1(MMBtu/hr) * 0.068 (lbs/MMBtu)
= 0.068 lbs/hr

NOx tpy = annual gas routed to flare (MMBtu/yr) * NOx Emission factor (lbs/MMBtu) * 1/lbs/ton)
= 1000 (MMBtu/yr) * 0.068 (lb/MMBtu) * 1/2000 (lbs/ton)
= 0.034 tpy

$SO_2$ pph= Hourly Gas Stream to flare (MMScf/hr) * 1000000/1 (scf/MMScf) * Field Gas mol Fraction of $H_2S$ (mol $H_2S$/lb-mol)/100 * 1/Universal Gas Constant 385 scf/lb-mole @ 60$^{O}$F, 1 atm * Conversion Rate of $H_2S$ to $SO_2$ lb-mol $SO_2$/lb-mol $H_2S$ * Molecular Weight of Sulfur Dioxide (64 lb $SO_2$/lb-mol $SO_2$)
= 1 MMScf/hr * 1000000/1 (Scf/MMScf) * 0.1 mol $H_2S$* 1/385 scf/lb-mole * 0.95 lb-mol $SO_2$/lb-mol $H_2S$ * 64 lb/lb-mol

Residual

$H_2S$ pph= Hourly Gas Stream to flare (MMScf/hr) * 1000000/1 (scf/MMScf) * Field Gas mol Fraction of $H_2S$ (mol $H_2S$/lb-mol)/100 * 1/Universal Gas Constant 385 scf/lb-mole @ 60$^{O}$F, 1 atm * (100-(Flare Control Efficiency))/100) * Molecular Weight of Hydrogen Sulfide (34 lb $H_2S$/lb-mol $H_2S$)
= 1 MMScf/hr * 1000000/1 (Scf/MMScf) * 0.1 mol $H_2S$* 1/385 scf/lb-mole * (100-95%/100) * 34 lb/lb-mol

| Flare, Vapor Combustion Devices & Enclosed Combustion Devices Emission Factors | | | | |
|---|---|---|---|---|
| Contaminant | Assist Type | Waste Gas Stream Heat Value (Btu/scf) | AP-42 Emission Factor (lb/MMBtu) | TCEQ Emission Factor (lb/MMBtu) |
| NOx | Steam | ≥1000 | 0.068 | 0.0485 |
| | Steam | <1000 | 0.068 | 0.068 |
| | Air or Unassisted | ≥1000 | 0.068 | 0.138 |
| | Air or Unassisted | <1000 | 0.068 | 0.0641 |
| CO | Steam | ≥1000 | 0.31 | 0.3503 |
| | Steam | <1000 | 0.31 | 0.3465 |
| | Air or Unassisted | ≥1000 | 0.31 | 0.2755 |
| | Air or Unassisted | <1000 | 0.31 | 0.5496 |
| VOC | Air & Steam Assist | ≥300 | 0.66 | |

Technical Disclaimer

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# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

**Emission Unit ID:** FUG-1 **Fill all green/blue boxes changing default values as appropriate.**

## Fugitive Volatile Organic Compounds (VOC), Total HAPs (HAP), Benzene (CH6) & Hydrogen Sulfide ($H_2S$) Emissions

| | | | | | Uncontrolled Total | | | | | | | | Controlled Total | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOC | | Total HAP | | $CH_6$ | | $H_2S$ | | VOC | | Total HAP | | $CH_6$ | | $H_2S$ | |
| Service | %VOC | %HAP | %$CH_6$ | %$H_2S$ | PPH | TPY | PPH | TPY | PPH | TPY | PPH | TPY | PPH | TPY | PPH | TPY | PPH | TPY | PPH | TPY |
| Gas | 29.5% | 2.1 | 0.15 | | 0.34 | 1.48 | 0.02 | 0.1 | 0.002 | 0.007 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Heavy Oil | 100% | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Light Oil | 99.2% | 9.64 | 0.9 | | 0.45 | 1.97 | 0.04 | 0.19 | 0.004 | 0.017 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water/Oil | 0.013% | 0.008 | 0.004 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals | | | | | 0.79 | 3.45 | 0.06 | 0.29 | 0.006 | 0.024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | Uncontrolled VOC, HAP & $CH_6$ Emissions | | | | | | | Controlled VOC, HAP & $CH_6$ Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment Type | Service[a] | EF[b] PPH/Source | No. of Sources | VOC PPH | VOC TPY | HAP PPH | HAP TPY | $CH_6$ PPH | $CH_6$ TPY | Control Efficiency | VOC PPH | VOC TPY | HAP PPH | HAP TPY | $CH_6$ PPH | $CH_6$ TPY |
| Valves | Gas | 0.0099207 | 65 | 0.1902 | 0.8331 | 0.0135 | 0.0591 | 0.001 | 0.0044 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Heavy Oil | 0.00001852 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Light Oil | 0.0055115 | 47 | 0.257 | 1.1257 | 0.025 | 0.1095 | 0.0023 | 0.0101 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Water/Oil | 0.00021605 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotals | | | | 0.4472 | 1.9588 | 0.0385 | 0.1686 | 0.0033 | 0.0145 | | 0 | 0 | 0 | 0 | 0 | 0 |
| Pump Seals | Gas | 0.00529104 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | | 0 |
| | Heavy Oil | 0.0286598 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Light Oil | 0.0286598 | 2 | 0.0569 | 0.2492 | 0.0055 | 0.0241 | 0.0005 | 0.0022 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Water/Oil | 0.00005291 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotals | | | | 0.0569 | 0.2492 | 0.0055 | 0.0241 | 0.0005 | 0.0022 | | 0 | 0 | 0 | 0 | 0 | 0 |
| Connectors | Gas | 0.00044092 | 182 | 0.0237 | 0.1038 | 0.0017 | 0.0074 | 0.0001 | 0.0004 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Heavy Oil | 0.00001653 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Light Oil | 0.00046297 | 112 | 0.0514 | 0.2251 | 0.005 | 0.0219 | 0.0005 | 0.0022 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Water/Oil | 0.00024251 | 84 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotals | | | | 0.0751 | 0.3289 | 0.0067 | 0.0293 | 0.0006 | 0.0026 | | 0 | 0 | 0 | 0 | 0 | 0 |
| Flanges | Gas | 0.00085979 | 101 | 0.0256 | 0.1121 | 0.0018 | 0.0079 | 0.0001 | 0.0004 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Heavy Oil | 0.00000086 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Light Oil | 0.00024251 | 100 | 0.0241 | 0.1056 | 0.0023 | 0.0101 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Water/Oil | 0.00000639 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotals | | | | 0.0497 | 0.2177 | 0.0041 | 0.018 | 0.0001 | 0.0004 | | 0 | 0 | 0 | 0 | 0 | 0 |
| Open Ends | Gas | 0.0044092 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Heavy Oil | 0.00030864 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Light Oil | 0.00308644 | 4 | 0.0122 | 0.0534 | 0.0012 | 0.0053 | 0.0001 | 0.0004 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Water/Oil | 0.00055115 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotals | | | | 0.0122 | 0.0534 | 0.0012 | 0.0053 | 0.0001 | 0.0004 | | 0 | 0 | 0 | 0 | 0 | 0 |
| Other[c] | Gas | 0.01940048 | 17 | 0.0973 | 0.4262 | 0.0069 | 0.0302 | 0.0005 | 0.0022 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Heavy Oil | 0.00007055 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Light Oil | 0.0165345 | 3 | 0.0492 | 0.2155 | 0.0048 | 0.021 | 0.0004 | 0.0018 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| | Water/Oil | 0.0308644 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotals | | | | 0.1465 | 0.6417 | 0.0117 | 0.0512 | 0.0009 | 0.004 | | 0 | 0 | 0 | 0 | 0 | 0 |

Based on: *1995 Protocol for Equipment Leak Emission Estimates*, Table 2.4 Version Date: 6/23/16; See next page for calculation notes.

# Calculation Tool for Fugitive Emissions Oil & Gas Production

Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017), Table 2-4;
available at the EPA Web site at https://www3.epa.gov/ttn/chief/efdocs/equiplks.pdf

a) Service categories are defined as follows:

1) Gas/vapor - material in a gaseous state at operating conditions;

2) Light liquid - material in a liquid state in which the sum of the concentration of individual constituents with a vapor pressure over 0.3 kilopascals (kPa) at 200C is greater than or equal to 20 weight percent;

3) Heavy liquid - not in gas/vapor service or light liquid service.

4) Water/Oil emission factors apply to water streams in oil service with a water content greater than 50%, from the point of origin to the point where the water content reaches 99%. For water streams with a water content greater than 99%, the emission rate is considered negligible.

b) These factors are for total organic compound emission rates (including non-VOC's such as methane and ethane) and apply to light crude, heavy crude, gas plant, gas production, and off shore facilities. "NA" indicates that not enough data were available to develop the indicated emission factor.

c) The "other" equipment type was derived from compressors, diaphragms, drains, dump arms, hatches, instruments, meters, pressure relief valves, polished rods, relief valves, and vents. This "other" equipment type should be applied for any equipment type other than connectors, flanges, open-ended lines, pumps, or valves.

d) Note that the average factors generally determine total hydrocarbon emissions. Therefore, you may need to multiply the calculated emission rates by the stream's weight percentage of VOC compounds to determine total VOC emissions. Please attach a copy of the appropriate gas and oil analysis with the stream's weight percentage of VOC compounds identified.

VOC Sample Calculation
For 10 Valves in Gas Service with a gas stream weight percentage of 25% VOC

Emission Factor (EF) lb/hr=0.0045 kg/hr * 2.2046 lbs/kg
Gas Valves Uncontrolled Emissions

pph EF (Valves in Gas Service) * Number of Valves in Gas Service & VOC wt%
0.0099207 lb/hr * 10 valves = 0.099207 lb/hr * 25%/100

tpy EF (Valves in Gas Service) * Number of Valves in Gas Service * 8760 hrs/yr * 1ton/2000 lbs
0.0099207 lb/hr * 10 valves * 8760 hrs/yr * 1/2000 ton/lbs = 0.4345 tons/yr * 25%/100

Total Uncontrolled Fugitive Emissions for all Service types in Gas Service

pph (Uncontrolled pph Emissions for Valves + Pump Seals + Connectors + Flanges + Open Ends + Other) * VOC wt%/100

tpy (Uncontrolled tpy Emissions for Valves + Pump Seals + Connectors + Flanges + Open Ends + Other) * VOC wt%/100

Technical Disclaimer
This document is intended to help you accurately determine equipment leak fugitive emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how piping components work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as we continue our scientific studies and as new information becomes available. We welcome any data, information, or feedback that may improve our understanding of equipment leak fugitive emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

# New Mexico Environment Department Air Quality Bureau Equipment Emissions Calculation Form

| | | | |
|---|---|---|---|
| **Date:** | Feb 4, 2021 | **Permit Number:** | NOI-null |
| **Company Name:** | Devon Energy Production Company, L.P. | **AI# if Known:** | |
| **Facility Name:** | Broadside 1H Battery | **Elevation (ft.):** | 3,603 |

## Unpaved Haul Roads

**Enter Information in all green boxes.**

**Haul Road Fugitive Emission Unit ID:** ROAD-1

| | | | |
|---|---|---|---|
| **% Silt** | 4.8 | **Haul Road Distance-Round-trip in Miles (Only enter round-trip distance within facility boundaries)** | 0.2 |
| **Mean Vehicle Weight (tons)** | 29.4 | **Number of Haul Road Round-trips/hour** | 6 |
| **Rain Days** | 70 | **Number of Haul Road Round-trips/yr** | 3,549 |
| **User % Control** | 0 | **Vehicle Miles Traveled/hr (VMT/hr)** | 1.2 |
| | | **Vehicle Miles Traveled/yr (VMT/yr)** | 709.8 |

**Notes:**

| Hourly lbs/VMT | | | Annually lbs/VMT | | |
|---|---|---|---|---|---|
| **TSP** | **PM10** | **PM2.5** | **TSP** | **PM10** | **PM2.5** |
| 7.21 | 1.84 | 0.18 | 5.83 | 1.49 | 0.15 |

**TSP/PM10/PM2.5 Emission Rates**

| Control | TSP | | PM10 | | PM2.5 | |
|---|---|---|---|---|---|---|
| | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr |
| **Continuous** | 8.65 | 30.64 | 2.21 | 7.83 | 0.22 | 0.79 |
| **0% Control** | 8.65 | 2.07 | 2.21 | 0.53 | 0.22 | 0.05 |
| **User % Control** | 8.65 | 2.07 | 2.21 | 0.53 | 0.22 | 0.05 |

Footnote: All emissions based on AP-42, 13.2.2-4 (November 2006); See reverse side for calculation notes.

# NMED-AQB Unpaved Haul Road Calculation Tool

**All emission factors based on AP-42,** AP-42 13.2.2-4; November 2006
https://www3.epa.gov/ttn/chief/ap42/ch13/final/c13s0202.pdf

Emissions from vehicles traveling on unpaved surfaces at industrial sites (based on 8760 Hours/year) can be estimated using the following expression:

AP-42 13.2.2-4; Equation 1a: $$E = k\,(s/12)^a (W/3)^b$$

where k, a, b, c and d are empirical constants (Reference 6) given below and

E = size-specific emission factor (lb/VMT)

s = surface material silt content (%)

W = mean vehicle weight (tons)

M = surface material moisture content (%)

Table 13.2.2-2. CONSTANTS FOR EQUATION 1a

| Constant | Industrial Roads (Equation 1a) | | |
|---|---|---|---|
| | PM-2.5 | PM-10 | PM-30* |
| k (lb/VMT) | 0.15 | 1.5 | 4.9 |
| a | 0.9 | 0.9 | 0.7 |
| b | 0.45 | 0.45 | 0.45 |
| Quality Rating | B | B | B |

*Assumed equivalent to total suspended particulate matter (TSP)

Technical Disclaimer

This document is intended to help you accurately determine unpaved haul road emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how unpaved haul roads work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as we continue our scientific studies and as new information becomes available. We welcome any data, information, or feedback that may improve our understanding of unpaved haul road emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

# New Mexico Environment Department Air Quality Bureau Emissions Calculation Forms

**Date:** Feb 4, 2021
**Company Name:** Devon Energy Production Company, L.P.
**Facility Name:** Broadside 1H Battery
**Permit Number:**
**AI# if Known:**
**Elevation (ft.):** 3,603

Total Potential Emission Rate For All Regulated Facility Equipment (NOI Request)

| Emission Unit | $NO_x$ | | CO | | VOC | | $SO_x$ | | TSP | | $PM_{10}$ | | $PM_{2.5}$ | | $H_2S$ | | Total HAP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr |
| Engines | 0.45 | 1.96 | 0.9 | 3.92 | 0.36 | 1.56 | 0 | 0 | 0.03 | 0.13 | 0.03 | 0.13 | 0.03 | 0.13 | - | - | 0.05 | 0.23 |
| Heaters | 0.06 | 0.25 | 0.05 | 0.21 | 0 | 0.01 | 0 | 0 | 0 | 0.02 | 0 | 0.02 | 0 | 0.02 | - | - | | |
| Oil Tanks Flash | - | - | - | - | 7.64 | 16.2 | - | - | - | - | - | - | - | - | | | | |
| Oil Tanks W & S | - | - | - | - | 0.84 | 1.32 | - | - | - | - | - | - | - | - | | | | |
| Water Tks Flash | - | - | - | - | 0.12 | 0.18 | - | - | - | - | - | - | - | - | | | | |
| Water Tks W & S | - | - | - | - | 2.4 | 0.74 | - | - | - | - | - | - | - | - | | | | |
| Skim or Slop Tank | - | - | - | - | | | - | - | - | - | - | - | - | - | | | | |
| GBS | - | - | - | - | 3.63 | 5.72 | - | - | - | - | - | - | - | - | | | | |
| ECD | 1.47 | 3.02 | 3.29 | 6.78 | 8.32 | 17.15 | 0.02 | 0.04 | | | | | | | | | | |
| VCU | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | |
| TO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | |
| Flares | 0.02 | 0.09 | 0.05 | 0.21 | 0 | 0 | 0 | 0 | | | | | | | | | | |
| Fugitives | - | - | - | - | 0.79 | 3.45 | | | | | | | | | 0 | 0 | 0.06 | 0.29 |
| SSM | | | | | 142.33 | 3.8 | | | | | | | | | | | 21.5 | 0.32 |
| Malf. | - | - | - | - | - | | - | - | - | - | - | - | - | - | - | - | - | - |
| Unpaved Haul Rds. | - | - | - | - | - | - | - | - | 8.65 | 2.07 | 2.21 | 0.53 | 0.22 | 0.05 | - | - | - | - |
| Paved Haul Rds. | - | - | - | - | - | - | - | - | 0 | 0 | 0 | 0 | 0 | 0 | - | - | 0 | 0 |
| Oil Load | - | - | - | - | 150.92 | 43.47 | - | - | - | - | - | - | - | - | | | | |
| Water Loading | - | - | - | - | 1.51 | 0.46 | - | - | - | - | - | - | - | - | | | | |
| Amine Unt | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - | 0 | 0 | 0 | 0 |
| Amine Reb | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | | |
| Dehy Unit | - | - | - | - | | | - | - | - | - | - | - | - | - | | | | |
| Dehy Reb. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | | |
| **Totals** | **2** | **5.32** | **4.29** | **11.12** | **318.86** | **94.06** | **0.02** | **0.04** | **8.68** | **2.22** | **2.24** | **0.68** | **0.25** | **0.2** | **0** | **0** | **21.61** | **0.84** |

A red-outlined cell indicates that the facility exceeds the allowable emission limits for that pollutant for the requested permitting action and the application cannot be approved as proposed.

## Alicia Beasley

**From:** Poley, Richard, NMENV <Richard.Poley@state.nm.us>
**Sent:** Wednesday, November 7, 2018 8:53 AM
**To:** Alicia Beasley
**Subject:** RE: Notice of Intent - AECT Tool

Hi Alicia,

After looking at the coding in the form, yes that issue of depicting a red box for TOTAL HAPs over 10 lb/hr is a glitch in the AECT and can be ignored at this time. There is no lb/hr limit for TOTAL HAPS or VOC's for NOI applications. The problem has been fixed and will be included in a future AECT update. Thanks for bringing this to my attention. It is suggested that you make a note of that issue in your submittal and you may attach a copy of this email as well to the application.

If you have any questions, please feel free to contact me. I can be reached by email at Richard.Poley@state.nm.us or please call me in Santa Fe (Tues. or Thurs.) at (505) 476-4308 or in Rio Rancho (Mon. or Wed.) at (505) 771-5993. I am out of the office on Fridays.

Thanks,

*Rick Poley*
Air Permit Specialist
Minor Source Unit, Permitting Section
Air Quality Bureau, NM Environment Department
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505
Email Richard.Poley@state.nm.us
Phone: (505) 476-4308 Fax: (505) 476-4375 (Santa Fe)
Phone: (505) 771-5993 (Rio Rancho)

Permitting Update: Please sign up for the Department's list serve to receive important announcements: Subscribe to NMED Announcements.
Link to the Department's Industry/Consultant feedback questionnaire: Industry/Consultant Feedback Questionnaire.
Please consider the environment before printing this e-mail
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**From:** Alicia Beasley <Alicia.Beasley@eccgrp.com>
**Sent:** Wednesday, November 07, 2018 7:45 AM

**To:** Poley, Richard, NMENV <Richard.Poley@state.nm.us>
**Subject:** [EXT] Re: Notice of Intent - AECT Tool

Yes, it is the most recent version.

Get Outlook for iOS

---

**From:** Poley, Richard, NMENV <richard.poley@state.nm.us>
**Sent:** Wednesday, November 7, 2018 8:37 AM
**To:** Alicia Beasley
**Subject:** RE: Notice of Intent - AECT Tool

Hi Alicia,

What version of the AECT are you using? The latest official version is 8/10/2018.

If you have any questions, please feel free to contact me. I can be reached by email at Richard.Poley@state.nm.us or please call me in Santa Fe (Tues. or Thurs.) at (505) 476-4308 or in Rio Rancho (Mon. or Wed.) at (505) 771-5993. I am out of the office on Fridays.

Thanks,

*Rick Poley*
Air Permit Specialist
Minor Source Unit, Permitting Section
Air Quality Bureau, NM Environment Department
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505
Email Richard.Poley@state.nm.us
Phone: (505) 476-4308 Fax: (505) 476-4375 (Santa Fe)
Phone: (505) 771-5993 (Rio Rancho)

Permitting Update: Please sign up for the Department's list serve to receive important announcements: Subscribe to NMED Announcements.
Link to the Department's Industry/Consultant feedback questionnaire: Industry/Consultant Feedback Questionnaire.
Please consider the environment before printing this e-mail
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---

**From:** Alicia Beasley <Alicia.Beasley@eccgrp.com>
**Sent:** Tuesday, November 06, 2018 1:35 PM
**To:** Poley, Richard, NMENV <Richard.Poley@state.nm.us>

**Cc:** Rita Zebian <Rita.Zebian@eccgrp.com>
**Subject:** [EXT] Notice of Intent - AECT Tool

Rick,

We are trying to complete an NOI for our client and we are getting a red box around our total lb/hr HAPs in the AECT tool. Our total lb/hr HAPs is slightly over 10 lb/hr. We are not aware of a lb/hr limit for total HAPs under an NOI and were unable to find anything in the rule pertaining to a lb/hr limit. Is this a possible glitch in the AECT tool or is there some applicability information we have not found?

Thank you,

ENVIRO CLEAN CARDINAL

Alicia Beasley
Air Quality Specialist | Enviro Clean Cardinal
817.617.2675
alicia.beasley@eccgrp.com | www.EnviroCleanPS.com
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# TABLE 4-1

**Total Emission Summary**

**Owner/Operator:** **Devon Energy**
**Facility:** **Broadside 1H Battery**

| Emission Source | # Units | | NOx | | CO | | VOC | | PM | | SO2 | | Total HAPS | | n-Hexane | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Combustor/Emerg Flare | 1 | All | 1.486 | 3.109 | 3.338 | 6.984 | 8.404 | 17.497 | | | 0.022 | 0.045 | 0.435 | 0.924 | 0.236 | 0.500 |
| Fugitive | 1 | All | | | | | 0.786 | 3.444 | | | | | 0.068 | 0.296 | 0.028 | 0.123 |
| Heater Treater 1 | 1 | All | 0.057 | 0.248 | 0.048 | 0.208 | 0.003 | 0.014 | 0.004 | 0.019 | 0.001 | 0.004 | 0.001 | 0.005 | 0.001 | 0.004 |
| Engine 1 | 1 | All | 0.448 | 1.960 | 0.895 | 3.920 | 0.350 | 1.534 | 0.029 | 0.129 | 0.001 | 0.004 | 0.045 | 0.196 | 0.000 | 0.000 |
| Venting Emissions | 1 | All | | | | | 3.625 | 5.719 | | | | | 0.552 | 0.870 | 0.015 | 0.023 |
| Haul Roads | 1 | All | | | | | | | 8.650 | 2.068 | | | | | | |
| MSS | 1 | All | | | | | 142.333 | 3.804 | | | | | 21.496 | 0.317 | 8.538 | 0.211 |
| Cond Tank | 4 | Process Train 1 | | | | | 8.494 | 17.495 | | | | | 0.446 | 0.940 | 0.240 | 0.506 |
| Water Tank | 2 | Process Train 1 | | | | | 2.521 | 0.914 | | | | | 2.243 | 0.557 | 0.000 | 0.001 |
| Cond Loadout | 1 | Process Train 1 | | | | | 177.228 | 43.487 | | | | | 5.253 | 1.289 | 2.909 | 0.714 |
| Water Loadout | 1 | Process Train 1 | | | | | 1.772 | 0.460 | | | | | 0.355 | 0.092 | 0.000 | 0.000 |
| **Sum** | | | 1.990 | 5.317 | 4.281 | 11.113 | 345.518 | 94.368 | 8.683 | 2.215 | 0.024 | 0.053 | 30.895 | 5.487 | 3.414 | 1.847 |

The condensate tank, water tank, condensate loadout, water loadout, combustor, emergency flare, fugitive, heater treater, engine, and MSS emission calculations were performed by Devon Energy Production Company, L.P. using a ProMax simulation.

# TABLE 4-2

**Combustor/Emerg Flare**

**Owner/Operator:** Devon Energy
**Facility:** Broadside 1H Battery

**Equipment Specifications:**

| # of Flares/ Combustors | 2 | Combustor | Emergency Flare |
|---|---|---|---|
| MF Capacity | mscfd | 140 | 140 |

**Emission Factors:** *Per TCEQ Memorandum - 2/13/1995, (BTU/SCF)*(MSCF/D)*(1000 SCF/MSCF)*(1 D/24HR)*(1 MMBTU/ 10^6 BTU)*(LB/BTU)

| | LB/MMBTU | |
|---|---|---|
| Pollutant | BTU/SCF | BTU/SCF |
| NOX | 0.138 | 0.068 |
| CO | 0.31 | 0.5496 |

*The more conservative (higher) lb/MMBtu factor is selected from between the TCEQ guidance and AP-42 Ch. 13
*Per TCEQ Guidance: Technical Supplement 4 - Flares and EPA AP-42 - Ch 13, Table 13.5.1
*Per TCEQ Guidance: Technical Supplement 4 - Flares and EPA AP-42 - Ch 13, Table 13.5.2

| | | Daily (MSCFD) | Hourly (Mscf/hr) | Annual (Mscf/yr) | Percent to Flare | Control Efficiency | Corrected Gas to Flare (MSCF/yr) | Corrected Gas to Flare (MSCF/hr) | Heating Value (Btu/ft^3) | Emissions | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | NOX | | CO | | VOC | | SO2 | | Total HAP | | n-Hexane | |
| | | | | | | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Pilot Light - Combustor** | | 3.12 | 0.13 | 1138.80 | 100.00% | 98.00% | 1138.80 | 0.13 | 1177.69 | 0.021 | 0.093 | 0.047 | 0.208 | 0.040 | 0.176 | 0.000 | 0.000 | 0.002 | 0.007 | 0.001 | 0.004 |
| **Pilot Light - Emergency Flare** | | 3.12 | 0.13 | 1138.80 | 100.00% | 98.00% | 1138.80 | 0.13 | 1177.69 | 0.021 | 0.093 | 0.047 | 0.208 | 0.040 | 0.176 | 0.000 | 0.000 | 0.002 | 0.007 | 0.001 | 0.004 |
| **Oil Tanks** | **Process Train 1** | 50.38 | 4.54 | 18388.60 | 98.00% | 98.00% | 18020.83 | 4.4494 | 2351.50 | 1.444 | 2.924 | 3.243 | 6.568 | 8.324 | 17.145 | 0.022 | 0.045 | 0.432 | 0.910 | 0.235 | 0.496 |
| **Total** | | | | | | | 20298.43 | | | 1.486 | 3.109 | 3.338 | 6.984 | 8.404 | 17.497 | 0.022 | 0.045 | 0.435 | 0.924 | 0.237 | 0.504 |
| | | **Weighted Average** | | | | | | | 2153.72 | | | | | | | | | | | | |

*98% Control Efficiency, 100% Conversion of combusted H2S to SO2 assumed
* Heating values are from Promax streams

# TABLE 4-3

**Venting Emissions**

**Owner/Operator:** **Devon Energy**
**Facility:** **Broadside 1H Battery**

**Run Hours** 8760

| Source | | Pressure, psig | Temp, °F: | Vol. Flow, MSCFD | Vent % | Uncontrolled Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | VOC | | Total HAP | | n-Hexane | |
| | | | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| GB | Process Train 1 | 2 | 100 | 2.55 | 100% | 3.63 | 5.72 | 0.55 | 0.87 | 0.01 | 0.02 |
| **Total** | | | | | | 3.625 | 5.719 | 0.552 | 0.870 | 0.015 | 0.023 |

# TABLE 4-4

**Heater Treaters**

**Owner/Operator:** **Devon Energy**
**Facility:** **Broadside 1H Battery**

**Equipment Specifications:**

| # of Heaters | 1 | Heater 1 |
|---|---|---|
| Design Heat Rating | mmbtuh | 0.5 |

**Emission Factors:**

| Pollutant | Emission Factors[a] (lb/MMSCF) | Adjusted Factors[b] (lb/MMSCF) |
|---|---|---|
| NOx (a) | 100.00 | 115.460 |
| CO (a) | 84.00 | 96.986 |
| VOC (a) | 5.50 | 6.350 |
| SO2 (c) | 1.66 | 1.657 |
| $PM/PM_{10}$ (a) | 7.60 | 8.775 |
| Hexane (d) | 1.800 | 2.078 |

[a] Criteria Pollutant Emission Factors obtained from AP-42 Nat Gas Combustion, Table 1.4-1, (7/98) < 100 MMBtu/hr heat input; & Table 1.4-2, (7/98).
[b] As per EPA AP-42 Emission Factor Adjusted for Fuel Gas Heating Value
[c] As per EPA AP-42 Emission Factors for Criteria Pollutants and Greenhouse Gases from Natural Gas Combustion, Table 1.4-2
[d] As per EPA AP-42 Emission Factors for Speciated Organic Compounds from Natural Gas Combustion

| SO2 Emission Factor: | mol H2S in feed gas | Molecular Weight SO2 | Combustion Efficiency | Calculated EF |
|---|---|---|---|---|
| *Assumes ideal gas law: | fractional | lb/lbmol | fractional | lb/MMSCF |
| 379 scf/lbmol | 0.00001 | 64.066 | 0.98 | 1.656587863 |

Calculation Method: (1/379)(lbmol/scf)(10^6 SCF/MMSCF)(Combustion Efficiency)(Mol fraction H2S)(64.066 lb/lbmol SO2) = lb/MMSCF
1. H2S emissions are calculated in the same manner, except using the bypass fraction instead of combustion efficiency and the molecular weight of H2S (34.081 lb/lbmol)
2. If the calculated SO2 EF is less than 0.6 lb/MMSCF (per AP-42 table 1.4-2), the EF is conservatively set at 0.6 lb/MMSCF

| | Heat Rating (mmbtuh) | Run Hours | Heating Value (Btu/ft^3) | Emissions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $NO_x$ | | CO | | VOC | | SO2 | | PM | | Total HAP | | n-Hexane | |
| | | | | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| **Heater 1** | 0.50 | 8760.0 | 1177.69 | 0.057 | 0.248 | 0.048 | 0.208 | 0.003 | 0.014 | 0.001 | 0.004 | 0.004 | 0.019 | 0.001 | 0.005 | 0.001 | 0.004 |

# TABLE 4-5

**Fugitives**

**Owner/Operator:** **Devon Energy**
**Facility:** **Broadside 1H Battery**

**Component Count:**
**Liquid Stream Compositions** NM - Wolfcamp - Thistle Unit 153H First Stage Separator Liquid
**Gas Stream Compositions** NM - Wolfcamp - Thistle Unit 153H First Stage Separator Gas
**Equipment Count Method Used** Count 1
**Run Hours** 8760

**Gas Service**

| Component | Count | Emission Factor[a] (lb/hr/component) | Emissions | |
|---|---|---|---|---|
| | | | lb/hr | tpy |
| Valve | 65 | 0.00992 | 0.645 | 2.824 |
| Flanges | 101 | 0.00086 | 0.087 | 0.380 |
| Pump | 0 | 0.00529 | 0.000 | 0.000 |
| Compressor Seal | 4 | 0.01940 | 0.078 | 0.340 |
| Relief Valve | 13 | 0.01940 | 0.252 | 1.105 |
| Open-Ended Line | 0 | 0.00441 | 0.000 | 0.000 |
| Connectors | 182 | 0.00044 | 0.080 | 0.351 |
| Other | 0 | 0.01940 | 0.000 | 0.000 |
| **Total** | | | **1.142** | **5.000** |

| Component | wt fraction | lb/hr | tpy |
|---|---|---|---|
| **Total VOC** | 0.294955 | 0.337 | 1.475 |
| **Total HAP** | 0.020983 | 0.024 | 0.105 |
| **Benzene** | 0.001548 | 0.002 | 0.008 |
| **N-Hexane** | 0.017227 | 0.020 | 0.086 |

**Light Oil > 20° API**

| Component | Count | Emission Factor[a] (lb/hr/component) | Emissions | |
|---|---|---|---|---|
| | | | lb/hr | tpy |
| Valve | 47 | 0.0055 | 0.259 | 1.132 |
| Flanges | 100 | 0.0002 | 0.024 | 0.105 |
| Pump | 2 | 0.0287 | 0.057 | 0.251 |
| Compressor Seal | 0 | 0.0165 | 0.000 | 0.000 |
| Relief Valve | 3 | 0.0165 | 0.050 | 0.217 |
| Open-Ended Line | 4 | 0.0031 | 0.012 | 0.054 |
| Connectors | 112 | 0.0005 | 0.052 | 0.226 |
| Other | 0 | 0.0165 | 0.000 | 0.000 |
| **Total** | | | **0.453** | **1.985** |

| Component | wt fraction | lb/hr | tpy |
|---|---|---|---|
| **Total VOC** | 0.991986 | 0.450 | 1.969 |
| **Total HAP** | 0.096365 | 0.044 | 0.191 |
| **Benzene** | 0.008957 | 0.004 | 0.018 |
| **N-Hexane** | 0.018454 | 0.008 | 0.037 |

**Water/Light Oil Service**

| Component | Count | Emission Factor[a] (lb/hr/component) | Emissions | |
|---|---|---|---|---|
| | | | lb/hr | tpy |
| Valve | 39 | 0.0002 | 0.008 | 0.037 |
| Flanges | 75 | 6.17E-06 | 0.000 | 0.002 |
| Pump | 3 | 0.0001 | 0.000 | 0.001 |
| Compressor Seal | 0 | 0.0309 | 0.000 | 0.000 |
| Relief Valve | 3 | 0.0309 | 0.093 | 0.406 |
| Open-Ended Line | 3 | 0.0006 | 0.002 | 0.008 |
| Connectors | 84 | 0.0002 | 0.020 | 0.089 |
| Other | 0 | 0.0309 | 0.000 | 0.000 |
| **Total** | | | **0.124** | **0.543** |

| Component | wt fraction | lb/hr | tpy |
|---|---|---|---|
| **Total VOC** | 0.000128 | 0.000 | 0.000 |
| **Total HAP** | 0.000081 | 0.000 | 0.000 |
| **Benzene** | 0.000040 | 0.000 | 0.000 |
| **N-Hexane** | 0.000000 | 0.000 | 0.000 |

**Fugitive Emissions Summary**

| Component | | lb/hr | tpy |
|---|---|---|---|
| **Total VOC** | | 0.786 | 3.444 |
| **Total HAP** | | 0.068 | 0.296 |
| **Benzene** | | 0.006 | 0.026 |
| **N-Hexane** | | 0.028 | 0.123 |

[a] Per TCEQ Fugitive Guidance for Oil/Gas Production Operations, (lb/hr/component)(hr/yr)(1 ton/2000 lbs) = tpy emissions

# TABLE 4-6

**Oil Tank Emissions**

| | |
|---|---|
| **Owner/Operator:** | **Devon Energy** |
| **Facility:** | **Broadside 1H Battery** |
| **Throughput (bbl/hr)** | 83.33 |
| **Throughput (bbl/day)** | 850.00 |
| **Throughput (bbl/yr)** | 310,250.00 |
| **# Tanks** | 4.00 |
| **Controls** | Combustor |
| **Control Efficiency** | 98% |
| **Capture Efficiency** | 98% |
| **Meteorological Data** | Roswell, NM |
| **Run Hours** | 8760 |

**Flashing Emissions**

| Pollutant | Emission Factors[a] | | Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Uncontrolled | | | Controlled | | |
| | tpy/bopd | lb/bbl | lb/hr | tpy | tpy/tank | lb/hr | tpy | tpy/tank |
| **VOC** | 0.952 | 5.216 | 382.822 | 809.204 | 202.301 | 7.656 | 16.184 | 4.046 |
| **Total HAP** | 0.052 | 0.287 | 19.702 | 44.451 | 11.113 | 0.394 | 0.889 | 0.222 |
| **n-Hexane** | 0.028 | 0.154 | 10.595 | 23.874 | 5.969 | 0.212 | 0.477 | 0.119 |

**Working/Standing**

| Pollutant | Emission Factors[b] | | Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Uncontrolled | | | Controlled | | |
| | tpy/bopd | lb/bbl | lb/hr | tpy | tpy/tank | lb/hr | tpy | tpy/tank |
| **VOC** | 0.077 | 0.423 | 41.879 | 65.561 | 16.390 | 0.838 | 1.311 | 0.328 |
| **Total HAP** | 0.003 | 0.016 | 2.613 | 2.549 | 0.637 | 0.052 | 0.051 | 0.013 |
| **n-Hexane** | 0.002 | 0.009 | 1.392 | 1.412 | 0.353 | 0.028 | 0.028 | 0.007 |

**Total Emissions**

| Pollutant | Emission Factors | | Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Uncontrolled | | | Controlled | | |
| | tpy/bopd | lb/bbl | lb/hr | tpy | tpy/tank | lb/hr | tpy | tpy/tank |
| **VOC** | 1.029 | 5.639 | 424.701 | 874.765 | 218.691 | 8.494 | 17.495 | 4.374 |
| **Total HAP** | 0.055 | 0.303 | 22.315 | 47.001 | 11.750 | 0.446 | 0.940 | 0.235 |
| **n-Hexane** | 0.030 | 0.163 | 11.986 | 25.286 | 6.321 | 0.240 | 0.506 | 0.126 |

[a] ProMax Oil Tk Gas Stream
[b] Promax W &S Stream

# TABLE 4-7

**Water Tank Emissions**

| | |
|---|---|
| **Owner/Operator:** | **Devon Energy** |
| **Facility:** | **Broadside 1H Battery** |
| **Throughput (bbl/hr)** | 208.33 |
| **Throughput (bbl/day)** | 1800.00 |
| **Throughput (bbl/yr)** | 657,000.00 |
| **# Tanks** | 2.00 |
| **Controls** | N/A |
| **Control Efficiency** | 0% |
| **Capture Efficiency** | 0% |
| **Meteorological Data** | Roswell, NM |
| **Run Hours** | 8760 |

**Flashing Emissions**

| Pollutant | Emission Factors[a] | | Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Uncontrolled | | | Controlled | | |
| | tpy/bopd | lb/bbl | lb/hr | tpy | tpy/tank | lb/hr | tpy | tpy/tank |
| **VOC** | 0.000 | 0.001 | 0.119 | 0.181 | 0.090 | 0.119 | 0.181 | 0.090 |
| **Total HAP** | 0.000 | 0.000 | 0.023 | 0.035 | 0.018 | 0.023 | 0.035 | 0.018 |
| **n-Hexane** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**Working/Standing**

| Pollutant | Emission Factors[b] | | Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Uncontrolled | | | Controlled | | |
| | tpy/bopd | lb/bbl | lb/hr | tpy | tpy/tank | lb/hr | tpy | tpy/tank |
| **VOC** | 0.000 | 0.002 | 2.402 | 0.734 | 0.367 | 2.402 | 0.734 | 0.367 |
| **Total HAP** | 0.000 | 0.002 | 2.219 | 0.522 | 0.261 | 2.219 | 0.522 | 0.261 |
| **n-Hexane** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**Total Emissions**

| Pollutant | Emission Factors | | Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Uncontrolled | | | Controlled | | |
| | tpy/bopd | lb/bbl | lb/hr | tpy | tpy/tank | lb/hr | tpy | tpy/tank |
| **VOC** | 0.001 | 0.003 | 2.521 | 0.914 | 0.457 | 2.521 | 0.914 | 0.457 |
| **Total HAP** | 0.000 | 0.002 | 2.243 | 0.557 | 0.279 | 2.243 | 0.557 | 0.279 |
| **n-Hexane** | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.001 | 0.000 |

[a] ProMax Water Tank Gas Stream
[b] ProMax Water W & S Gas Stream

# TABLE 4-8

**Loading Emissions**

**Owner/Operator:** Devon Energy
**Facility:** Broadside 1H Battery

| Oil Loading | Hourly | | Annual | |
|---|---|---|---|---|
| Throughput (bbl/hr) | 540.00 | | - | *Amount of liquids that can be loaded in one hour |
| Throughput (bbl/day) | 2000.00 | | 850.00 | |
| Run Hours | | 8760 | | |
| Throughput (bbl/yr) | - | | 310,250.00 | |
| Saturation Factor, S | | 0.60 | | *Per AP-42 Table 5.2-1, Saturation Factors |
| Average Surface Temperature, ($^{o}$F) | 99.97 | | 66.43 | |
| Temperature, T ( R) | 560.0 | | 526.4 | |
| TVP, (psia) | 12.21 | | 11.51 | *Promax Oil Losses Stencil |
| Vapor MW, M (lb/lbmol) | 47.94 | | 40.82 | *Promax Oil Losses Stencil |
| $L_L$, lb/1000 gal | 7.814 | | 6.675 | *Per AP-42 5.2.2.1.1 - LL = 12.46*SPM/T |
| VOC wt% | | 100.00% | | |
| Total HAP wt% | | 2.96% | | |
| n-Hexane wt% | | 1.64% | | |
| Oil to Pipeline | | N | | |
| % Oil to Pipeline | | 0% | | |
| Controls | | N/A | | |
| Capture Efficiency, eff | | 0% | | |

| Pollutant | Emission Factors | Emissions Uncontrolled | |
|---|---|---|---|
| | lb/bbl | lb/hr (95$^{o}$F) | ton/yr |
| VOC | 0.280 | 177.228 | 43.487 |
| Total HAP | 0.008 | 5.253 | 1.289 |
| n-Hexane | 0.005 | 2.909 | 0.714 |

| Water Loading | Hourly | | Annual | |
|---|---|---|---|---|
| Throughput (bbl/hr) | 540.00 | | - | |
| Throughput (bbl/day) | 5000.00 | | 1800.00 | |
| Run Hours | | 8760 | | |
| Throughput (bbl/yr) | - | | 657,000.00 | |
| Saturation Factor, S | | 0.6 | | *Per AP-42 Table 5.2-1, Saturation Factors |
| Average Surface Temperature, ($^{o}$F) | 99.97 | | 66.43 | *Promax Water Losses Stencil |
| Temperature, T ( R) | 560.0 | | 526.4 | |
| TVP, (psia) | 12.21 | | 11.51 | *Promax Water Losses Stencil |
| Vapor MW, M (lb/lbmol) | 47.94 | | 40.82 | |
| $L_L$, lb/1000 gal | 0.078 | | 0.067 | *Per AP-42 5.2.2.1.1 - LL = Condensate LL * 1% |
| VOC wt% | | 100.00% | | |
| Total HAP wt% | | 20.06% | | |
| n-Hexane wt% | | 0.01% | | |
| Water to Pipeline | | Y | | |
| % Water to Pipeline | | 50% | | |

| Pollutant | Emission Factors | Emissions Uncontrolled | |
|---|---|---|---|
| | lb/bbl | lb/hr (95$^{o}$F) | ton/yr |
| VOC | 0.001 | 1.772 | 0.460 |
| Total HAP | 0.000 | 0.355 | 0.092 |
| n-Hexane | 0.000 | 0.000 | 0.000 |

# TABLE 4-9

**Engine 1**

| | |
|---|---|
| **Owner/Operator:** | **Devon Energy** |
| **Facility:** | **Broadside 1H Battery** |
| Make/Model: | CAT G3306TA |
| Manufactured Date: | 1/1/2011 |
| Serial Number: | 0 |
| Emission Factors (Uncontrolled): | Manufacturer-User |
| Emission Factors (Controlled): | Quad J |
| Engine Make/Model: | CAT G3306TA |
| Max HP, 100% Load: | 203 |
| Annual Run Time, hrs | 8760 |
| Design Class: | 4-Stroke Rich Burn |
| Fuel Type: | Natural Gas |
| Ignition Type: | Spark |
| Fuel Consumption, Btu/bhp*hr | 7802 |
| Fuel Consumption, MMBtu/hr | 1.58 |
| Gas Heating Value, Btu/scf | 1177.69 |
| Stack Height (ft) | 11.80 |
| Stack Diameter (ft) | 0.56 |
| Exit Temperature ($^{o}$F) | 1076.00 |
| Exhaust Gas Flowrate (ft$^{3}$/min) | 968.00 |
| Exhaust Velocity (ft/s) | 64.92 |

*NM - Wolfcamp - Thistle Unit 153H First Stage Separator Gas

| **Engine Controls** | |
|---|---|
| Controls? | Y |
| Control Type | AFR/CC |
| Control Efficiency | 0 |

**Engine 1 Emission Calculations**

| Pollutant | Controlled Emissions | | | | |
|---|---|---|---|---|---|
| | Emission Factors | | | | |
| | EF | Units | Reference | lb/hr | ton/yr |
| **$NO_X$** | 1 | g/(hp*hr) | Quad J | 0.448 | 1.960 |
| **VOC** | 0.7 | g/(hp*hr) | Quad J | 0.350 | 1.534 |
| **CO** | 2 | g/(hp*hr) | Quad J | 0.895 | 3.920 |
| **$PM_{10}$** | 0.0186 | (lb/MMBtu) | AP-42 | 0.029 | 0.129 |
| **$PM_{2.5}$** | 0.0186 | (lb/MMBtu) | AP-42 | 0.029 | 0.129 |
| **$SO_2$** | 0.000588 | (lb/MMBtu) | AP-42 | 0.001 | 0.004 |
| **Formaldehyde** | 0.0205 | (lb/MMBtu) | AP-42 | 0.032 | 0.142 |
| **Acetaldehyde** | 0.00279 | (lb/MMBtu) | AP-42 | 0.004 | 0.019 |
| **Acrolein** | 0.00263 | (lb/MMBtu) | AP-42 | 0.004 | 0.018 |
| **n-Hexane** | 0 | (lb/MMBtu) | AP-42 | 0.000 | 0.000 |

**VOC includes Formaldehyde and Acetaldehyde*

# TABLE 4-10

**MSS Summary**

**Owner/Operator:** Devon Energy
**Facility:** Broadside 1H Battery

| MSS Activity | Component | Max Hourly Emissions lb/hr | Annual Emissions ton/yr | Annual Controlled lb/hr | Annual Controlled Emissions ton/yr | Events Per Year | Comments |
|---|---|---|---|---|---|---|---|
| **Blowdown** | VOC | 79.133 | 3.165 | 79.133 | 3.165 | 40.00 | 40 events/yr (1 event = 2 hrs/day) |
| | Total HAP | 5.629 | 0.225 | 5.629 | 0.225 | | |
| | n-Hexane | 4.622 | 0.185 | 4.622 | 0.185 | | |
| **Oil Tank Degassing** | VOC | 3.791 | 0.339 | 3.791 | 0.339 | 5.00 | 5 events/yr (1 event = 2 hrs/day) |
| | Total HAP | 0.147 | 0.013 | 0.147 | 0.013 | | |
| | n-Hexane | 0.082 | 0.007 | 0.082 | 0.007 | | |
| **Water Tank Degassing** | VOC | 0.038 | 0.003 | 0.038 | 0.003 | 3.00 | 3 events/yr (1 event = 2 hrs/day) |
| | Total HAP | 0.001 | 0.000 | 0.001 | 0.000 | | |
| | n-Hexane | 0.001 | 0.000 | 0.001 | 0.000 | | |
| **Oil Tank VAC Truck** | VOC | 58.783 | 0.294 | 58.783 | 0.294 | 5.00 | 5 events/yr (1 event = 2 hrs/day) |
| | Total HAP | 15.562 | 0.078 | 15.562 | 0.078 | | |
| | n-Hexane | 3.795 | 0.019 | 3.795 | 0.019 | | |
| **Water Tank VAC Truck** | VOC | 0.588 | 0.003 | 0.588 | 0.003 | 3.00 | 3 events/yr (1 event = 2 hrs/day) |
| | Total HAP | 0.156 | 0.001 | 0.156 | 0.001 | | |
| | n-Hexane | 0.038 | 0.000 | 0.038 | 0.000 | | |
| **Totals** | VOC | 142.333 | 3.804 | 142.333 | 3.804 | - | *Total hourly emissions assumes all events would occur simulataneously, which is extremely unlikely |
| | Total HAP | 21.496 | 0.317 | 21.496 | 0.317 | | |
| | n-Hexane | 8.538 | 0.211 | 8.538 | 0.211 | | |

**TABLE 4-11**

*Devon Energy*

## Haul Road

**Facility:** **Broadside 1H Battery**

***Unpaved Haul Road***

| Parameter | Value | Unit |
|---|---|---|
| Empty Vehicle Weight[1] | 16 | ton |
| Truck Capacity | 180 | bbl |
| | 7,560 | gallons |
| Load Size[2] | 26.8 | ton |
| Loaded Vehicle Weight[3] | 42.8 | ton |
| Mean Vehicle Weight[4] | 29.4 | ton |
| Hourly Water Loadout | 540 | bbl/hr |
| Hourly Oil Loadout | 540 | bbl/hr |
| Hourly Water + Oil Loadout | 1,080 | bbl/hr |
| | 45,360 | gal/hr |
| Annual Water Loadout | 328,500 | bbl/yr |
| Annual Oil Loadout | 310,250 | bbl/yr |
| Annual Water + Oil Loadout | 638,750 | bbl/yr |
| | 26,827,500 | gal/yr |
| Turnovers | 6.0 | per hour |
| | 3,549 | per year |
| Max Vehicles Per Hour | 6 | VPH |
| Vehicles Per Day[5] | 10 | VPD |
| Vehicles Per Year | 3,549 | VPY |
| Segment Length | 0.20 | mile |
| Trips per Segment | 1 | - |
| Effective Segment Length[6] | 0.2 | mile |
| Trips per Hour[7] | 0.42 | - |
| Wet Days[8] | 70 | day |
| Surface Silt Content[9] | 4.8 | % |
| Credit for Base Course | 0.00% | |

[1] Empty vehicle weight includes driver and occupants and full fuel load.

[2] Include cargo, transported materials, etc. (7.1 lb/gal RVP5 *7560 gal truck/ 2000lb/ton)

[3] Loaded vehicle weight = Empty + Load Size

[4] Mean Vehicle weight = (Loaded Weight + Empty Weight) / 2

[5] Vehicles per day = (Turnovers/year) / (365 days/year)

[6] Effective segment length = trips per segment * segment length

[7] Trips per hour = Vehicles per day * Segments per trip ÷ Hours of Operation per Day

[8] Wet days is the NM default allowed by NMED without additional justification

[9] Surface silt content based on AP-42 Section 13.2.2.3

| | Calculation Parameters[1] | | | | | | | | | | | | Hourly Emission Factors | | | Annual Emission Factors | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | s | W | P | k | | | a | | | b | | | E [2] | | | $E_{ext}$ [5] | | |
| Route | Silt Content [1] | Mean Vehicle Weight | Wet Days | $PM_{30}$ | $PM_{10}$ | $PM_{2.5}$ | $PM_{30}$ | $PM_{10}$ | $PM_{2.5}$ | $PM_{30}$ | $PM_{10}$ | $PM_{2.5}$ | $PM_{30}$ | $PM_{10}$ | $PM_{2.5}$ | $PM_{30}$ | $PM_{10}$ | $PM_{2.5}$ |
| | % | tons | day | lb/VMT | lb/VMT | lb/VMT | | | | | | | lb/VMT | lb/VMT | lb/VMT | lb/VMT | lb/VMT | lb/VMT |
| Haul Trucks | 4.8 | 29.4 | 70 | 4.9 | 1.5 | 0.15 | 0.7 | 0.9 | 0.9 | 0.45 | 0.45 | 0.45 | 7.2 | 1.8 | 0.18 | 5.8 | 1.5 | 0.15 |

[1] Emission factors calculated per AP-42 Sec. 13.2.2.3 November, 2006, Equation 2.

***Unpaved Road Emissions***

| Calculation Inputs | | | | | | | | | Haul Road Emissions | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Route | Annual Operation | Segment Length | Trips per Segment | Number of Trucks | | Effective Segment Length | Max VMT/hr | Average VMT/yr[4] | $PM_{30}$ | | $PM_{10}$ | | $PM_{2.5}$ | |
| | hr | mi | | trucks/hr | trucks/yr | mi | mi/hr | mi/yr | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| Haul Trucks | 8,760 | 0.20 | 1 | 6 | 3549 | 0.20 | 1.20 | 710 | 8.65 | 2.1 | 2.20 | 0.53 | 0.22 | 0.053 |
| **Totals** | | | | | | | | | **8.65** | **2.1** | **2.20** | **0.53** | **0.22** | **0.053** |

[1] Surface silt = % of 75 micron diameter and smaller particles

[2] E = k x (s/12)^a x (W/3)^b x (1-0.6) (AP-42 page 13.2.2-4 Equation 1a, November 2006)

E= Size Specific Emission Factor (lb/VMT)

s = surface material silt content (%)

k, a, b = constants from AP-42 Table 13.2.2-2

W = Weighted Mean Vehicle Weight from Haul Road Inputs (tons)

60% for base course

[3] $PM_{30}$ emission factor in equation is assumed as a surrogate for TSP emissions

[4] VMT/hr = Vehicle Miles Travelled per hour= Trips per hour * Segment Length

[5] Wet Day Emission Factor = E * (365 - Wet Days)/365. Wet days value is the NM default allowed by NMED without additional justification.

# PROMAX REPORT - OIL TANKS - HOURLY

| Project information | |
|---|---|
| File Name | 20210125_Broadside 1H_Promax |
| Company | Devon Energy |
| City, State | {"Custom Location","Custom Location","Custom Location"} |
| Equation of State | {"Peng-Robinson","Peng-Robinson","Peng-Robinson"} |
| Description | DEET Emissions Report |

| Stream Selection for Tank Losses Stencil | |
|---|---|
| Name of Property Stencil | Oil Tank Losses |
| Name of Process Stream | Tank Inlet[Oil Tanks] |

| Loading Information | | |
|---|---|---|
| Mode of Operation | Submerged Loading of a Clean Cargo Tank | |
| Cargo Carrier | Tank Truck or Rail Tank Car | |
| Saturation Factor | 0.6 | |
| VOCs [C3+] | 100 | *Note: VOC weight percent has been conservatively adjusted based on agency guidance* |

| Tank Information | |
|---|---|
| Shell Height [ft] | 24 |
| Diameter [ft] | 15.5 |
| Maximum Fill Percent [%] | 90 |
| Number of Tanks | 4 |
| Average Fill Percent [%] | 50 |
| Total Tank Volume [bbl] | 3226.3 |
| Net Throughput [bbl/hr] | 300.00 |
| Max Liquid Surface Temperature [°F] | 103.405 |
| Average Liquid Surface Temperature [°F] | 99.9680 |
| MW | 47.9431 |
| Turnovers (per year) | 283.416 |
| **Paint Characteristics** | |
| Shell Color | Tan |
| Shell Paint Condition | Average |
| Roof Color | Tan |
| Roof Condition | Average |
| **Roof Characteristics** | |
| Type | Dome |
| Dome Radius [ft] | |
| Slope [ft/ft] | -- |
| **Breather Vent Settings** | |
| Vacuum Settings [psig] | -0.0300000 |
| Pressure Settings [psig] | 0.0300000 |

| Meteorological Data | |
|---|---|
| Location | Custom Location |
| Ambient Pressure [psia] | 12.73 |
| Min Ambient Temperature [°F] | 95 |
| Max Ambient Temperature [°F] | 95 |
| Solar Insolation [BTU/ft2*day] | 1810 |
| Wind Speed [mph] | 8.683 |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | Loading Losses | Heater Treater Gas | ULPS Gas | |
| | | % | % | % | % | % | |
| Capture Effeciency | | 98 | 98 | 0 | 0 | 0 | |
| Percent to Tank | | -- | -- | -- | 0 | 0 | |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | Loading Losses | Heater Treater Gas | ULPS Gas | Total Losses |
| | | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] |
| VOCs [C3+] | | 7.656 | 0.838 | 0.000 | 0.000 | 0.000 | 8.494 |
| Benzene | | 0.072 | 0.009 | 0.000 | 0.000 | 0.000 | 0.081 |
| H2S | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

# PROMAX REPORT - OIL TANKS - HOURLY

| Emission Composition | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Component | Flash Gas [Mol%] | W/B Losses [Mol%] | Loading Losses [Mol%] | Heater Treater [Mol%] | ULPS [Mol%] | |
| 1 | Hydrogen Sulfide | 0.003 | 0.003 | 0.003 | -- | -- | |
| 2 | Nitrogen | 0.035 | 0.004 | 0.004 | -- | -- | |
| 3 | Carbon Dioxide | 0.137 | 0.114 | 0.114 | -- | -- | |
| 4 | Methane | 14.250 | 4.945 | 4.945 | -- | -- | |
| 5 | Ethane | 22.929 | 20.427 | 20.427 | -- | -- | |
| 6 | Propane | 29.635 | 31.435 | 31.435 | -- | -- | |
| 7 | i-Butane | 5.688 | 6.783 | 6.783 | -- | -- | |
| 8 | n-Butane | 13.737 | 17.169 | 17.169 | -- | -- | |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 10 | i-Pentane | 3.123 | 4.268 | 4.268 | -- | -- | |
| 11 | n-Pentane | 3.186 | 4.444 | 4.444 | -- | -- | |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 13 | Cyclopentane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 15 | 2-Methylpentane | 0.682 | 0.993 | 0.993 | -- | -- | |
| 16 | 3-Methylpentane | 0.319 | 0.466 | 0.466 | -- | -- | |
| 17 | n-Hexane | 1.119 | 1.656 | 1.656 | -- | -- | |
| 18 | Methylcyclopentane | 0.540 | 0.794 | 0.794 | -- | -- | |
| 19 | Benzene | 0.420 | 0.618 | 0.618 | -- | -- | |
| 20 | Cyclohexane | 1.258 | 1.864 | 1.864 | -- | -- | |
| 21 | 2-Methylhexane | 0.049 | 0.074 | 0.074 | -- | -- | |
| 22 | 3-Methylhexane | 0.174 | 0.264 | 0.264 | -- | -- | |
| 23 | 2,2,4-Trimethylpentane | 0.020 | 0.030 | 0.030 | -- | -- | |
| 24 | n-Heptane | 0.461 | 0.704 | 0.704 | -- | -- | |
| 25 | Methylcyclohexane | 0.681 | 1.036 | 1.036 | -- | -- | |
| 26 | Toluene | 0.372 | 0.568 | 0.568 | -- | -- | |
| 27 | n-Octane | 0.237 | 0.370 | 0.370 | -- | -- | |
| 28 | Ethylbenzene | 0.028 | 0.045 | 0.045 | -- | -- | |
| 29 | m-Xylene | 0.080 | 0.125 | 0.125 | -- | -- | |
| 30 | p-Xylene | 0.000 | 0.000 | 0.000 | -- | -- | |
| 31 | o-Xylene | 0.019 | 0.029 | 0.029 | -- | -- | |
| 32 | n-Nonane | 0.069 | 0.110 | 0.110 | -- | -- | |
| 33 | n-Decane | 0.024 | 0.039 | 0.039 | -- | -- | |
| 34 | Undecane | 0.005 | 0.009 | 0.009 | -- | -- | |
| 35 | Dodecane | 0.001 | 0.002 | 0.002 | -- | -- | |
| 36 | Tridecane | 0.000 | 0.001 | 0.001 | -- | -- | |
| 37 | Tetradecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 38 | Pentadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 39 | Hexadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 40 | Heptadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 41 | Octadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 42 | Nonadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 43 | Eicosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 44 | Heneicosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 45 | Docosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 46 | Tricosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 47 | Tetracosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 48 | Pentacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 49 | Hexacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 50 | Heptacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 51 | Octacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 52 | Nonacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 53 | C30 | 0.000 | 0.000 | 0.000 | -- | -- | |
| 54 | Water | 0.718 | 0.609 | 0.609 | -- | -- | |
| 55 | C10+ | 0.000 | 0.000 | 0.000 | -- | -- | |

# PROMAX REPORT - OIL TANKS - HOURLY

**Stream Compositional Data**

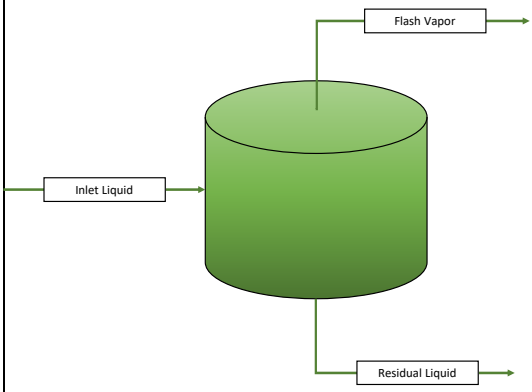
| No. | Component | Flash Gas [lb/h] | W/B Losses [lb/h] | Loading Losses [lb/h] | Heater Treater [lb/h] | ULPS [lb/h] | Total Losses [lb/h] |
|---|---|---|---|---|---|---|---|
| 1 | Hydrogen Sulfide | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 2 | Nitrogen | 0.002 | 0.000 | 0 | -- | -- | 0.002 |
| 3 | Carbon Dioxide | 0.013 | 0.001 | 0 | -- | -- | 0.014 |
| 4 | Methane | 0.502 | 0.015 | 0 | -- | -- | 0.518 |
| 5 | Ethane | 1.515 | 0.120 | 0 | -- | -- | 1.635 |
| 6 | Propane | 2.872 | 0.270 | 0 | -- | -- | 3.142 |
| 7 | i-Butane | 0.727 | 0.077 | 0 | -- | -- | 0.804 |
| 8 | n-Butane | 1.755 | 0.195 | 0 | -- | -- | 1.949 |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 10 | i-Pentane | 0.495 | 0.060 | 0 | -- | -- | 0.555 |
| 11 | n-Pentane | 0.505 | 0.063 | 0 | -- | -- | 0.568 |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 13 | Cyclopentane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 15 | 2-Methylpentane | 0.129 | 0.017 | 0 | -- | -- | 0.146 |
| 16 | 3-Methylpentane | 0.060 | 0.008 | 0 | -- | -- | 0.068 |
| 17 | n-Hexane | 0.212 | 0.028 | 0 | -- | -- | 0.240 |
| 18 | Methylcyclopentane | 0.100 | 0.013 | 0 | -- | -- | 0.113 |
| 19 | Benzene | 0.072 | 0.009 | 0 | -- | -- | 0.081 |
| 20 | Cyclohexane | 0.233 | 0.031 | 0 | -- | -- | 0.263 |
| 21 | 2-Methylhexane | 0.011 | 0.001 | 0 | -- | -- | 0.012 |
| 22 | 3-Methylhexane | 0.038 | 0.005 | 0 | -- | -- | 0.044 |
| 23 | 2,2,4-Trimethylpentane | 0.005 | 0.001 | 0 | -- | -- | 0.006 |
| 24 | n-Heptane | 0.102 | 0.014 | 0 | -- | -- | 0.115 |
| 25 | Methylcyclohexane | 0.147 | 0.020 | 0 | -- | -- | 0.167 |
| 26 | Toluene | 0.075 | 0.010 | 0 | -- | -- | 0.086 |
| 27 | n-Octane | 0.059 | 0.008 | 0 | -- | -- | 0.068 |
| 28 | Ethylbenzene | 0.007 | 0.001 | 0 | -- | -- | 0.008 |
| 29 | m-Xylene | 0.019 | 0.003 | 0 | -- | -- | 0.021 |
| 30 | p-Xylene | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 31 | o-Xylene | 0.004 | 0.001 | 0 | -- | -- | 0.005 |
| 32 | n-Nonane | 0.019 | 0.003 | 0 | -- | -- | 0.022 |
| 33 | n-Decane | 0.007 | 0.001 | 0 | -- | -- | 0.008 |
| 34 | Undecane | 0.002 | 0.000 | 0 | -- | -- | 0.002 |
| 35 | Dodecane | 0.000 | 0.000 | 0 | -- | -- | 0.001 |
| 36 | Tridecane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 37 | Tetradecane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 38 | Pentadecane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 39 | Hexadecane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 40 | Heptadecane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 41 | Octadecane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 42 | Nonadecane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 43 | Eicosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 44 | Heneicosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 45 | Docosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 46 | Tricosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 47 | Tetracosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 48 | Pentacosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 49 | Hexacosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 50 | Heptacosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 51 | Octacosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 52 | Nonacosane | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 53 | C30 | 0.000 | 0.000 | 0 | -- | -- | 0.000 |
| 54 | Water | 0.028 | 0.002 | 0 | -- | -- | 0.031 |
| 55 | C10+ | 0.000 | 0.000 | 0 | -- | -- | 0.000 |

**Stream Properties**

| | | Flash Gas | W/B Losses | Loading Losses | Heater Treater | ULPS | |
|---|---|---|---|---|---|---|---|
| MW | | 44.218 | 50.040 | 50.040 | 28.601 | -- | |
| Heating Value [BTU/scf] | | 2300.091 | 2588.594 | 2588.594 | 1515.428 | -- | |
| Specific Gravity | | 1.527 | 1.728 | 1.728 | 0.988 | -- | |
| VOC Concentration [wt%] | | 100.000 | 100.000 | 100.000 | 100.000 | -- | |
| Temperature [°F] | | 93.481 | 103.405 | 103.405 | 100.000 | -- | |
| Gas Volumetric Flow [scf/hr] | | 4170.116 | 370.080 | 169.729 | 0.000 | 0.000 | |

# PROMAX REPORT - OIL TANKS - HOURLY

| Inlet Stream Data | |
|---|---|
| Component | Tank Inlet [Mol%] |
| Hydrogen Sulfide | 0.000 |
| Nitrogen | 0.002 |
| Carbon Dioxide | 0.010 |
| Methane | 0.964 |
| Ethane | 2.069 |
| Propane | 4.783 |
| i-Butane | 1.574 |
| n-Butane | 5.059 |
| 2,2-Dimethylpropane | 0.000 |
| i-Pentane | 2.557 |
| n-Pentane | 3.356 |
| 2,2-Dimethylbutane | 0.000 |
| Cyclopentane | 0.000 |
| 2,3-Dimethylbutane | 0.000 |
| 2-Methylpentane | 1.596 |
| 3-Methylpentane | 0.829 |
| n-Hexane | 3.632 |
| Methylcyclopentane | 1.652 |
| Benzene | 1.376 |
| Cyclohexane | 4.824 |
| 2-Methylhexane | 0.319 |
| 3-Methylhexane | 1.244 |
| 2,2,4-Trimethylpentane | 0.176 |
| n-Heptane | 4.284 |
| Methylcyclohexane | 6.148 |
| Toluene | 3.911 |
| n-Octane | 6.787 |
| Ethylbenzene | 0.905 |
| m-Xylene | 2.816 |
| p-Xylene | 0.000 |
| o-Xylene | 0.742 |
| n-Nonane | 5.962 |
| n-Decane | 6.136 |
| Undecane | 4.039 |
| Dodecane | 2.865 |
| Tridecane | 2.611 |
| Tetradecane | 2.229 |
| Pentadecane | 1.919 |
| Hexadecane | 1.388 |
| Heptadecane | 0.934 |
| Octadecane | 0.643 |
| Nonadecane | 0.365 |
| Eicosane | 0.332 |
| Heneicosane | 8.904 |
| Docosane | 0.000 |
| Tricosane | 0.000 |
| Tetracosane | 0.000 |
| Pentacosane | 0.000 |
| Hexacosane | 0.000 |
| Heptacosane | 0.000 |
| Octacosane | 0.000 |
| Nonacosane | 0.000 |
| C30 | 0.000 |
| Water | 0.057 |
| C10+ | 0.000 |




| Residual Liquid Data | |
|---|---|
| Flow (bbl/d) | 2000.000 |
| TVP [psia] | 12.208 |

# PROMAX REPORT - WATER TANKS - HOURLY

| Project information | |
|---|---|
| File Name | 20210125_Broadside 1H_Promax |
| Company | Devon Energy |
| City, State | {"Custom Location","Custom Location","Custom Location"} |
| Equation of State | {"Peng-Robinson","Peng-Robinson","Peng-Robinson"} |
| Description | DEET Emissions Report |

| Stream Selection for Tank Losses Stencil | |
|---|---|
| Name of Property Stencil | Water Tank Losses |
| Name of Process Stream | Inlet[Water Tanks] |

| Loading Information | | |
|---|---|---|
| Mode of Operation | Submerged Loading of a Clean Cargo Tank | |
| Cargo Carrier | Tank Truck or Rail Tank Car | |
| Saturation Factor | 0.6 | |
| VOCs [C3+] | 100 | *Note: VOC weight percent has been conservatively adjusted based on agency guidance* |

| Tank Information | |
|---|---|
| Shell Height [ft] | 24 |
| Diameter [ft] | 15.5 |
| Maximum Fill Percent [%] | 90 |
| Number of Tanks | 2 |
| Average Fill Percent [%] | 50 |
| Total Tank Volume [bbl] | 1613.2 |
| Net Throughput [bbl/yr] | 1.82350E+06 |
| Max Liquid Surface Temperature [°F] | 103.405 |
| Average Liquid Surface Temperature [°F] | 99.9680 |
| MW | 21.8992 |
| Turnovers (per year) | 1422.27 |
| **Paint Characteristics** | |
| Shell Color | Tan |
| Shell Paint Condition | Average |
| Roof Color | Tan |
| Roof Condition | Average |
| **Roof Characteristics** | |
| Type | Dome |
| Dome Radius [ft] | |
| Slope [ft/ft] | -- |
| **Breather Vent Settings** | |
| Vacuum Settings [psig] | -0.0300000 |
| Pressure Settings [psig] | 0.0300000 |

| Meteorological Data | |
|---|---|
| Location | Custom Location |
| Ambient Pressure [psia] | 12.73 |
| Min Ambient Temperature [°F] | 95 |
| Max Ambient Temperature [°F] | 95 |
| Solar Insolation [BTU/ft2*day] | 1810 |
| Wind Speed [mph] | 8.683 |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | | | | |
| | | % | % | | | | |
| Capture Effeciency | | 0 | 0 | | | | |
| Percent to Flare | | -- | -- | | | | |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | | | | Total Losses |
| | | [lb/h] | [lb/h] | | | | [lb/h] |
| VOCs [C3+] | | 0.119 | 2.402 | | | | 2.521 |
| Benzene | | 0.010 | 0.935 | | | | 0.944 |
| H2S | | 0.000 | 0.009 | | | | 0.009 |

# PROMAX REPORT - WATER TANKS - HOURLY

| Emission Composition | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Component | Flash Gas [Mol%] | W/B Losses [Mol%] | | | | |
| 1 | Hydrogen Sulfide | 0.010 | 0.095 | | | | |
| 2 | Nitrogen | 0.543 | 0.046 | | | | |
| 3 | Carbon Dioxide | 1.298 | 4.225 | | | | |
| 4 | Methane | 68.154 | 12.018 | | | | |
| 5 | Ethane | 14.214 | 3.383 | | | | |
| 6 | Propane | 4.711 | 0.774 | | | | |
| 7 | i-Butane | 0.361 | 0.035 | | | | |
| 8 | n-Butane | 1.356 | 0.206 | | | | |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | | | | |
| 10 | i-Pentane | 0.156 | 0.015 | | | | |
| 11 | n-Pentane | 0.057 | 0.003 | | | | |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | | | | |
| 13 | Cyclopentane | 0.000 | 0.000 | | | | |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | | | | |
| 15 | 2-Methylpentane | 0.016 | 0.001 | | | | |
| 16 | 3-Methylpentane | 0.023 | 0.003 | | | | |
| 17 | n-Hexane | 0.010 | 0.000 | | | | |
| 18 | Methylcyclopentane | 0.070 | 0.016 | | | | |
| 19 | Benzene | 0.476 | 4.402 | | | | |
| 20 | Cyclohexane | 0.347 | 0.172 | | | | |
| 21 | 2-Methylhexane | 0.000 | 0.000 | | | | |
| 22 | 3-Methylhexane | 0.002 | 0.000 | | | | |
| 23 | 2,2,4-Trimethylpentane | 0.000 | 0.000 | | | | |
| 24 | n-Heptane | 0.002 | 0.000 | | | | |
| 25 | Methylcyclohexane | 0.082 | 0.017 | | | | |
| 26 | Toluene | 0.412 | 3.810 | | | | |
| 27 | n-Octane | 0.000 | 0.000 | | | | |
| 28 | Ethylbenzene | 0.031 | 0.288 | | | | |
| 29 | m-Xylene | 0.084 | 0.660 | | | | |
| 30 | p-Xylene | 0.000 | 0.000 | | | | |
| 31 | o-Xylene | 0.021 | 0.197 | | | | |
| 32 | n-Nonane | 0.000 | 0.000 | | | | |
| 33 | n-Decane | 0.000 | 0.000 | | | | |
| 34 | Undecane | 0.000 | 0.000 | | | | |
| 35 | Dodecane | 0.000 | 0.000 | | | | |
| 36 | Tridecane | 0.000 | 0.000 | | | | |
| 37 | Tetradecane | 0.000 | 0.000 | | | | |
| 38 | Pentadecane | 0.000 | 0.000 | | | | |
| 39 | Hexadecane | 0.000 | 0.000 | | | | |
| 40 | Heptadecane | 0.000 | 0.000 | | | | |
| 41 | Octadecane | 0.000 | 0.000 | | | | |
| 42 | Nonadecane | 0.000 | 0.000 | | | | |
| 43 | Eicosane | 0.000 | 0.000 | | | | |
| 44 | Heneicosane | 0.000 | 0.000 | | | | |
| 45 | Docosane | 0.000 | 0.000 | | | | |
| 46 | Tricosane | 0.000 | 0.000 | | | | |
| 47 | Tetracosane | 0.000 | 0.000 | | | | |
| 48 | Pentacosane | 0.000 | 0.000 | | | | |
| 49 | Hexacosane | 0.000 | 0.000 | | | | |
| 50 | Heptacosane | 0.000 | 0.000 | | | | |
| 51 | Octacosane | 0.000 | 0.000 | | | | |
| 52 | Nonacosane | 0.000 | 0.000 | | | | |
| 53 | C30 | 0.000 | 0.000 | | | | |
| 54 | Water | 7.562 | 69.634 | | | | |
| 55 | C10+ | 0.000 | 0.000 | | | | |

# PROMAX REPORT - WATER TANKS - HOURLY

**Stream Compositional Data**

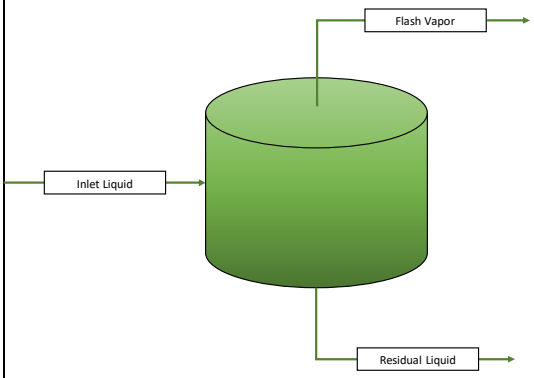
| No. | Component | Flash Gas [lb/h] | W/B Losses [lb/h] | | | | Total Losses [lb/h] |
|---|---|---|---|---|---|---|---|
| 1 | Hydrogen Sulfide | 0.000 | 0.009 | | | | 0.0089205 |
| 2 | Nitrogen | 0.004 | 0.004 | | | | 0.007 |
| 3 | Carbon Dioxide | 0.015 | 0.505 | | | | 0.520 |
| 4 | Methane | 0.283 | 0.524 | | | | 0.807 |
| 5 | Ethane | 0.111 | 0.277 | | | | 0.387 |
| 6 | Propane | 0.054 | 0.093 | | | | 0.147 |
| 7 | i-Butane | 0.005 | 0.006 | | | | 0.011 |
| 8 | n-Butane | 0.020 | 0.033 | | | | 0.053 |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | | | | 0.000 |
| 10 | i-Pentane | 0.003 | 0.003 | | | | 0.006 |
| 11 | n-Pentane | 0.001 | 0.001 | | | | 0.002 |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | | | | 0.000 |
| 13 | Cyclopentane | 0.000 | 0.000 | | | | 0.000 |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | | | | 0.000 |
| 15 | 2-Methylpentane | 0.000 | 0.000 | | | | 0.001 |
| 16 | 3-Methylpentane | 0.001 | 0.001 | | | | 0.001 |
| 17 | n-Hexane | 0.000 | 0.000 | | | | 0.000 |
| 18 | Methylcyclopentane | 0.002 | 0.004 | | | | 0.005 |
| 19 | Benzene | 0.010 | 0.935 | | | | 0.944 |
| 20 | Cyclohexane | 0.008 | 0.039 | | | | 0.047 |
| 21 | 2-Methylhexane | 0.000 | 0.000 | | | | 0.000 |
| 22 | 3-Methylhexane | 0.000 | 0.000 | | | | 0.000 |
| 23 | 2,2,4-Trimethylpentane | 0.000 | 0.000 | | | | 0.000 |
| 24 | n-Heptane | 0.000 | 0.000 | | | | 0.000 |
| 25 | Methylcyclohexane | 0.002 | 0.005 | | | | 0.007 |
| 26 | Toluene | 0.010 | 0.954 | | | | 0.964 |
| 27 | n-Octane | 0.000 | 0.000 | | | | 0.000 |
| 28 | Ethylbenzene | 0.001 | 0.083 | | | | 0.084 |
| 29 | m-Xylene | 0.002 | 0.191 | | | | 0.193 |
| 30 | p-Xylene | 0.000 | 0.000 | | | | 0.000 |
| 31 | o-Xylene | 0.001 | 0.057 | | | | 0.057 |
| 32 | n-Nonane | 0.000 | 0.000 | | | | 0.000 |
| 33 | n-Decane | 0.000 | 0.000 | | | | 0.000 |
| 34 | Undecane | 0.000 | 0.000 | | | | 0.000 |
| 35 | Dodecane | 0.000 | 0.000 | | | | 0.000 |
| 36 | Tridecane | 0.000 | 0.000 | | | | 0.000 |
| 37 | Tetradecane | 0.000 | 0.000 | | | | 0.000 |
| 38 | Pentadecane | 0.000 | 0.000 | | | | 0.000 |
| 39 | Hexadecane | 0.000 | 0.000 | | | | 0.000 |
| 40 | Heptadecane | 0.000 | 0.000 | | | | 0.000 |
| 41 | Octadecane | 0.000 | 0.000 | | | | 0.000 |
| 42 | Nonadecane | 0.000 | 0.000 | | | | 0.000 |
| 43 | Eicosane | 0.000 | 0.000 | | | | 0.000 |
| 44 | Heneicosane | 0.000 | 0.000 | | | | 0.000 |
| 45 | Docosane | 0.000 | 0.000 | | | | 0.000 |
| 46 | Tricosane | 0.000 | 0.000 | | | | 0.000 |
| 47 | Tetracosane | 0.000 | 0.000 | | | | 0.000 |
| 48 | Pentacosane | 0.000 | 0.000 | | | | 0.000 |
| 49 | Hexacosane | 0.000 | 0.000 | | | | 0.000 |
| 50 | Heptacosane | 0.000 | 0.000 | | | | 0.000 |
| 51 | Octacosane | 0.000 | 0.000 | | | | 0.000 |
| 52 | Nonacosane | 0.000 | 0.000 | | | | 0.000 |
| 53 | C30 | 0.000 | 0.000 | | | | 0.000 |
| 54 | Water | 0.035 | 3.410 | | | | 3.445 |
| 55 | C10+ | 0.000 | 0.000 | | | | 0.000 |

**Stream Properties**

| | | Flash Gas | W/B Losses | | | | |
|---|---|---|---|---|---|---|---|
| MW | | 21.900 | 26.232 | | | | |
| Heating Value [BTU/scf] | | 1083.794 | 576.646 | | | | |
| Specific Gravity | | 0.756 | 0.906 | | | | |
| VOC Concentration [wt%] | | 100.000 | 100.000 | | | | |
| Temperature [°F] | | 100.321 | 103.405 | | | | |
| Gas Volumetric Flow [scf/hr] | | 9.826 | 103.152 | | | | |

# PROMAX REPORT - WATER TANKS - HOURLY

| Inlet Stream Data | |
|---|---|
| Component | Tank Inlet [Mol%] |
| Hydrogen Sulfide | 0.000 |
| Nitrogen | 0.000 |
| Carbon Dioxide | 0.000 |
| Methane | 0.002 |
| Ethane | 0.000 |
| Propane | 0.000 |
| i-Butane | 0.000 |
| n-Butane | 0.000 |
| 2,2-Dimethylpropane | 0.000 |
| i-Pentane | 0.000 |
| n-Pentane | 0.000 |
| 2,2-Dimethylbutane | 0.000 |
| Cyclopentane | 0.000 |
| 2,3-Dimethylbutane | 0.000 |
| 2-Methylpentane | 0.000 |
| 3-Methylpentane | 0.000 |
| n-Hexane | 0.000 |
| Methylcyclopentane | 0.000 |
| Benzene | 0.001 |
| Cyclohexane | 0.000 |
| 2-Methylhexane | 0.000 |
| 3-Methylhexane | 0.000 |
| 2,2,4-Trimethylpentane | 0.000 |
| n-Heptane | 0.000 |
| Methylcyclohexane | 0.000 |
| Toluene | 0.001 |
| n-Octane | 0.000 |
| Ethylbenzene | 0.000 |
| m-Xylene | 0.000 |
| p-Xylene | 0.000 |
| o-Xylene | 0.000 |
| n-Nonane | 0.000 |
| n-Decane | 0.000 |
| Undecane | 0.000 |
| Dodecane | 0.000 |
| Tridecane | 0.000 |
| Tetradecane | 0.000 |
| Pentadecane | 0.000 |
| Hexadecane | 0.000 |
| Heptadecane | 0.000 |
| Octadecane | 0.000 |
| Nonadecane | 0.000 |
| Eicosane | 0.000 |
| Heneicosane | 0.000 |
| Docosane | 0.000 |
| Tricosane | 0.000 |
| Tetracosane | 0.000 |
| Pentacosane | 0.000 |
| Hexacosane | 0.000 |
| Heptacosane | 0.000 |
| Octacosane | 0.000 |
| Nonacosane | 0.000 |
| C30 | 0.000 |
| Water | 99.996 |
| C10+ | 0.000 |




| Residual Liquid Data | |
|---|---|
| Flow (bbl/d) | 4995.900 |
| TVP [psia] | 12.383 |

# PROMAX REPORT - FLARE & PROCESS STREAMS - HOURLY

| Project information | |
|---|---|
| File Name | 20210125_Broadside 1H_Promax |
| Company | Devon Energy |
| City, State | {"Custom Location","Custom Location","Custom Location"} |
| Equation of State | {"Peng-Robinson","Peng-Robinson","Peng-Robinson"} |
| Description | DEETMax Emissions Report |

| Stream Selection | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Inlet Gas | Inlet Gas | Inlet Oil | Inlet Oil | | | | | | |
| Name of Process Stream | | Gas | Gas | Oil | Oil | | | | | | |

| Emission Composition | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | Component | Inlet Gas [Mol%] | Inlet Gas [Mass%] | Inlet Oil [Mol%] | Inlet Oil [Mass%] | | | | | | |
| 1 | Hydrogen Sulfide | 0.001 | 0.002 | 0.001 | 0.000 | | | | | | |
| 2 | Nitrogen | 1.389 | 1.713 | 0.078 | 0.017 | | | | | | |
| 3 | Carbon Dioxide | 0.148 | 0.287 | 0.117 | 0.040 | | | | | | |
| 4 | Methane | 74.492 | 52.620 | 1.796 | 0.226 | | | | | | |
| 5 | Ethane | 11.996 | 15.883 | 2.193 | 0.518 | | | | | | |
| 6 | Propane | 6.431 | 12.486 | 4.399 | 1.522 | | | | | | |
| 7 | i-Butane | 1.026 | 2.626 | 1.283 | 0.585 | | | | | | |
| 8 | n-Butane | 2.279 | 5.832 | 4.500 | 2.053 | | | | | | |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 10 | i-Pentane | 0.549 | 1.744 | 2.240 | 1.268 | | | | | | |
| 11 | n-Pentane | 0.557 | 1.769 | 3.036 | 1.719 | | | | | | |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 13 | Cyclopentane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 15 | 2-Methylpentane | 0.000 | 0.000 | 1.929 | 1.304 | | | | | | |
| 16 | 3-Methylpentane | 0.000 | 0.000 | 0.986 | 0.667 | | | | | | |
| 17 | n-Hexane | 0.454 | 1.723 | 2.729 | 1.845 | | | | | | |
| 18 | Methylcyclopentane | 0.000 | 0.000 | 1.921 | 1.269 | | | | | | |
| 19 | Benzene | 0.045 | 0.155 | 1.461 | 0.896 | | | | | | |
| 20 | Cyclohexane | 0.000 | 0.000 | 5.474 | 3.615 | | | | | | |
| 21 | 2-Methylhexane | 0.000 | 0.000 | 0.348 | 0.274 | | | | | | |
| 22 | 3-Methylhexane | 0.000 | 0.000 | 1.348 | 1.060 | | | | | | |
| 23 | 2,2,4-Trimethylpentane | 0.000 | 0.000 | 0.189 | 0.169 | | | | | | |
| 24 | n-Heptane | 0.277 | 1.222 | 3.680 | 2.894 | | | | | | |
| 25 | Methylcyclohexane | 0.000 | 0.000 | 6.574 | 5.066 | | | | | | |
| 26 | Toluene | 0.036 | 0.146 | 4.051 | 2.929 | | | | | | |
| 27 | n-Octane | 0.121 | 0.609 | 6.634 | 5.947 | | | | | | |
| 28 | Ethylbenzene | 0.002 | 0.009 | 0.930 | 0.775 | | | | | | |
| 29 | m-Xylene | 0.011 | 0.051 | 2.873 | 2.393 | | | | | | |
| 30 | p-Xylene | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 31 | o-Xylene | 0.003 | 0.014 | 0.755 | 0.629 | | | | | | |
| 32 | n-Nonane | 0.113 | 0.638 | 5.739 | 5.777 | | | | | | |
| 33 | n-Decane | 0.023 | 0.144 | 6.185 | 6.907 | | | | | | |
| 34 | Undecane | 0.043 | 0.296 | 3.975 | 4.876 | | | | | | |
| 35 | Dodecane | 0.004 | 0.030 | 2.905 | 3.883 | | | | | | |
| 36 | Tridecane | 0.000 | 0.000 | 2.658 | 3.846 | | | | | | |
| 37 | Tetradecane | 0.000 | 0.000 | 2.269 | 3.533 | | | | | | |
| 38 | Pentadecane | 0.000 | 0.000 | 1.953 | 3.256 | | | | | | |
| 39 | Hexadecane | 0.000 | 0.000 | 1.413 | 2.511 | | | | | | |
| 40 | Heptadecane | 0.000 | 0.000 | 0.951 | 1.794 | | | | | | |
| 41 | Octadecane | 0.000 | 0.000 | 0.655 | 1.308 | | | | | | |
| 42 | Nonadecane | 0.000 | 0.000 | 0.372 | 0.783 | | | | | | |
| 43 | Eicosane | 0.000 | 0.000 | 0.338 | 0.749 | | | | | | |
| 44 | Heneicosane | 0.000 | 0.000 | 9.064 | 21.096 | | | | | | |
| 45 | Docosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 46 | Tricosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 47 | Tetracosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 48 | Pentacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 49 | Hexacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 50 | Heptacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 51 | Octacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 52 | Nonacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 53 | C30 | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 54 | Water | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 55 | C10+ | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |

# PROMAX REPORT - FLARE & PROCESS STREAMS - HOURLY

| Stream Selection | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater Gas | Gunbarrel Gas | ULPS Gas | Oil Tanks | Water Tanks | |
| Name of Process Stream | | 1st Stage Gas | See Slop Tank Report | 1st Stage Gas | 2nd Stage Gas | HT Gas | 5 | ULPS Gas | See Oil Tank Report | SeeWater Tank Report | |

| Emission Summary | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater Gas | Gunbarrel Gas | ULPS Gas | Oil Tanks | Water Tanks | |
| | | [%] | | [%] | [%] | [%] | [%] | [%] | [%] | [%] | |
| Control Effenciency | | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 0 | |
| Percent to Flare | | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 0 | |

| Emission Summary | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater Gas | Gunbarrel Gas | ULPS Gas | Oil Tanks | Water Tanks | Total |
| | | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] | [lb/h] |
| VOCs [C3+] | | 0.040 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 8.324 | 0.000 | 8.364 |
| Benzene | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.080 | 0.000 | 0.080 |
| H2S | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

| Emission Composition | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | Component | Pilot Gas [Mol%] | Slop Tank [Mol%] | 1st Stage Gas [Mol%] | 2nd Stage Gas [Mol%] | Heater Treater [Mol%] | Gunbarrel Gas [Mol%] | ULPS [Mol%] | Oil Tanks [Mol %] | Water Tanks [Mol %] | |
| 1 | Hydrogen Sulfide | 0.001 | See Slop Tank Report | 0.001 | -- | 0.002 | 0.008 | -- | See Oil Tank Report | See Water Tank Report | |
| 2 | Nitrogen | 1.429 | | 1.429 | -- | 0.391 | 0.713 | -- | | | |
| 3 | Carbon Dioxide | 0.175 | | 0.175 | -- | 0.222 | 1.011 | -- | | | |
| 4 | Methane | 75.009 | | 75.009 | -- | 52.881 | 70.309 | -- | | | |
| 5 | Ethane | 11.858 | | 11.858 | -- | 20.600 | 13.702 | -- | | | |
| 6 | Propane | 6.154 | | 6.154 | -- | 13.766 | 4.959 | -- | | | |
| 7 | i-Butane | 0.907 | | 0.907 | -- | 2.137 | 0.447 | -- | | | |
| 8 | n-Butane | 2.030 | | 2.030 | -- | 4.854 | 1.461 | -- | | | |
| 9 | 2,2-Dimethylpropane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 10 | i-Pentane | 0.427 | | 0.427 | -- | 1.023 | 0.195 | -- | | | |
| 11 | n-Pentane | 0.430 | | 0.430 | -- | 1.033 | 0.099 | -- | | | |
| 12 | 2,2-Dimethylbutane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 13 | Cyclopentane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 14 | 2,3-Dimethylbutane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 15 | 2-Methylpentane | 0.092 | | 0.092 | -- | 0.218 | 0.025 | -- | | | |
| 16 | 3-Methylpentane | 0.043 | | 0.043 | -- | 0.102 | 0.026 | -- | | | |
| 17 | n-Hexane | 0.152 | | 0.152 | -- | 0.361 | 0.022 | -- | | | |
| 18 | Methylcyclopentane | 0.072 | | 0.072 | -- | 0.172 | 0.068 | -- | | | |
| 19 | Benzene | 0.056 | | 0.056 | -- | 0.134 | 0.367 | -- | | | |
| 20 | Cyclohexane | 0.169 | | 0.169 | -- | 0.403 | 0.300 | -- | | | |
| 21 | 2-Methylhexane | 0.007 | | 0.007 | -- | 0.016 | 0.001 | -- | | | |
| 22 | 3-Methylhexane | 0.024 | | 0.024 | -- | 0.057 | 0.004 | -- | | | |
| 23 | 2,2,4-Trimethylpentane | 0.003 | | 0.003 | -- | 0.007 | 0.000 | -- | | | |
| 24 | n-Heptane | 0.066 | | 0.066 | -- | 0.152 | 0.006 | -- | | | |
| 25 | Methylcyclohexane | 0.095 | | 0.095 | -- | 0.222 | 0.082 | -- | | | |
| 26 | Toluene | 0.052 | | 0.052 | -- | 0.122 | 0.318 | -- | | | |
| 27 | n-Octane | 0.036 | | 0.036 | -- | 0.081 | 0.002 | -- | | | |
| 28 | Ethylbenzene | 0.004 | | 0.004 | -- | 0.010 | 0.024 | -- | | | |
| 29 | m-Xylene | 0.012 | | 0.012 | -- | 0.027 | 0.065 | -- | | | |
| 30 | p-Xylene | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 31 | o-Xylene | 0.003 | | 0.003 | -- | 0.006 | 0.016 | -- | | | |
| 32 | n-Nonane | 0.011 | | 0.011 | -- | 0.024 | 0.000 | -- | | | |
| 33 | n-Decane | 0.004 | | 0.004 | -- | 0.009 | 0.000 | -- | | | |
| 34 | Undecane | 0.001 | | 0.001 | -- | 0.002 | 0.000 | -- | | | |
| 35 | Dodecane | 0.000 | | 0.000 | -- | 0.001 | 0.000 | -- | | | |
| 36 | Tridecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 37 | Tetradecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 38 | Pentadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 39 | Hexadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 40 | Heptadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 41 | Octadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 42 | Nonadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 43 | Eicosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 44 | Heneicosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 45 | Docosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 46 | Tricosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 47 | Tetracosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 48 | Pentacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 49 | Hexacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 50 | Heptacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 51 | Octacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 52 | Nonacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 53 | C30 | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 54 | Water | 0.679 | | 0.679 | -- | 0.964 | 5.770 | -- | | | |
| 55 | C10+ | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |

# PROMAX REPORT - FLARE & PROCESS STREAMS - HOURLY

**Stream Compositional Data**

| No. | Component | Pilot Gas [lb/h] | Slop Tank [lb/h] | 1st Stage Gas [lb/h] | 2nd Stage Gas [lb/h] | Heater Treater [lb/h] | Gunbarrel Gas [lb/h] | ULPS [lb/h] | Oil Tanks [lb/h] | Water Tanks [lb/h] | Total [lb/h] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Hydrogen Sulfide | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 2 | Nitrogen | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.005 |
| 3 | Carbon Dioxide | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.014 |
| 4 | Methane | 0.08 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51 | 0.00 | 0.590 |
| 5 | Ethane | 0.02 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.60 | 0.00 | 1.627 |
| 6 | Propane | 0.02 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.08 | 0.00 | 3.098 |
| 7 | i-Butane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.79 | 0.00 | 0.791 |
| 8 | n-Butane | 0.01 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.91 | 0.00 | 1.918 |
| 9 | 2,2-Dimethylpropane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 10 | i-Pentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.54 | 0.00 | 0.546 |
| 11 | n-Pentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 | 0.00 | 0.559 |
| 12 | 2,2-Dimethylbutane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 13 | Cyclopentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 14 | 2,3-Dimethylbutane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 15 | 2-Methylpentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.143 |
| 16 | 3-Methylpentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.067 |
| 17 | n-Hexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.236 |
| 18 | Methylcyclopentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.111 |
| 19 | Benzene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.080 |
| 20 | Cyclohexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 0.259 |
| 21 | 2-Methylhexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.012 |
| 22 | 3-Methylhexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.043 |
| 23 | 2,2,4-Trimethylpentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.006 |
| 24 | n-Heptane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.114 |
| 25 | Methylcyclohexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.164 |
| 26 | Toluene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.084 |
| 27 | n-Octane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.067 |
| 28 | Ethylbenzene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.007 |
| 29 | m-Xylene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.021 |
| 30 | p-Xylene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 31 | o-Xylene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.005 |
| 32 | n-Nonane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.022 |
| 33 | n-Decane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.008 |
| 34 | Undecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.002 |
| 35 | Dodecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.001 |
| 36 | Tridecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 37 | Tetradecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 38 | Pentadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 39 | Hexadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 40 | Heptadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 41 | Octadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 42 | Nonadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 43 | Eicosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 44 | Heneicosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 45 | Docosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 46 | Tricosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 47 | Tetracosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 48 | Pentacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 49 | Hexacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 50 | Heptacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 51 | Octacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 52 | Nonacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 53 | C30 | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 54 | Water | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.031 |
| 55 | C10+ | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |

**Stream Properties**

| | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater | Gunbarrel | ULPS | Oil Tanks | Water Tanks | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating Value [BTU/scf] | | 1177.383 | See Slop Tank Report | 1177.383 | -- | 1515.428 | 1099.626 | -- | See Oil Tank Report | See Oil Tank Report | |
| Molecular Weight [lb/lbmol] | | 22.055 | | 22.055 | -- | 28.601 | 21.753 | -- | | | |
| Gas Volumetric Flow [scf/hr] | | 130.000 | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 4449.391 | 0.000 | |

# PROMAX REPORT - OIL TANKS - ANNUAL

| Project information | |
|---|---|
| File Name | 20210125_Broadside 1H_Promax |
| Company | Devon Energy |
| City, State | {"Roswell, NM","Roswell, NM","Roswell, NM"} |
| Equation of State | {"Peng-Robinson","Peng-Robinson","Peng-Robinson"} |
| Description | DEET Emissions Report |

| Stream Selection for Tank Losses Stencil | |
|---|---|
| Name of Property Stencil | Oil Tank Losses |
| Name of Process Stream | Tank Inlet[Oil Tanks] |

| Loading Information | | |
|---|---|---|
| Mode of Operation | Submerged Loading of a Clean Cargo Tank | |
| Cargo Carrier | Tank Truck or Rail Tank Car | |
| Saturation Factor | 0.6 | |
| VOCs [C3+] | 100 | *Note: VOC weight percent has been conservatively adjusted based on agency guidance* |

| Tank Information | |
|---|---|
| Shell Height [ft] | 24 |
| Diameter [ft] | 15.5 |
| Maximum Fill Percent [%] | 90 |
| Number of Tanks | 4 |
| Average Fill Percent [%] | 50 |
| Total Tank Volume [bbl] | 3226.3 |
| Net Throughput [bbl/yr] | 310250 |
| Max Liquid Surface Temperature [°F] | 75.6836 |
| Average Liquid Surface Temperature [°F] | 66.4265 |
| MW | 40.8187 |
| Turnovers (per year) | 120.728 |
| **Paint Characteristics** | |
| Shell Color | Tan |
| Shell Paint Condition | Average |
| Roof Color | Tan |
| Roof Condition | Average |
| **Roof Characteristics** | |
| Type | Dome |
| Dome Radius [ft] | |
| Slope [ft/ft] | -- |
| **Breather Vent Settings** | |
| Vacuum Settings [psig] | -0.0300000 |
| Pressure Settings [psig] | 0.0300000 |

| Meteorological Data | |
|---|---|
| Location | Roswell, NM |
| Ambient Pressure [psia] | 12.88 |
| Min Ambient Temperature [°F] | 47.6 |
| Max Ambient Temperature [°F] | 75.8 |
| Solar Insolation [BTU/ft2*day] | 1722 |
| Wind Speed [mph] | 8.7 |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | Loading Losses | Heater Treater Gas | ULPS Gas | |
| | | % | % | % | % | % | |
| Capture Effeciency | | 98 | 98 | 0 | 0 | 0 | |
| Percent to Flare | | -- | -- | -- | 0 | 0 | |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | Loading Losses | Heater Treater Gas | ULPS Gas | Total Losses |
| | | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] |
| VOCs [C3+] | | 16.184 | 1.311 | 0.000 | 0.000 | 0.000 | 17.495 |
| Benzene | | 0.161 | 0.010 | 0.000 | 0.000 | 0.000 | 0.171 |
| H2S | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

# PROMAX REPORT - OIL TANKS - ANNUAL

| Emission Composition | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Component | Flash Gas [Mol%] | W/B Losses [Mol%] | Loading Losses [Mol%] | Heater Treater [Mol%] | ULPS [Mol%] | |
| 1 | Hydrogen Sulfide | 0.003 | 0.004 | 0.004 | -- | -- | |
| 2 | Nitrogen | 0.032 | 0.006 | 0.006 | -- | -- | |
| 3 | Carbon Dioxide | 0.128 | 0.181 | 0.181 | -- | -- | |
| 4 | Methane | 13.222 | 8.687 | 8.687 | -- | -- | |
| 5 | Ethane | 21.908 | 29.013 | 29.013 | -- | -- | |
| 6 | Propane | 29.693 | 32.404 | 32.404 | -- | -- | |
| 7 | i-Butane | 5.885 | 5.642 | 5.642 | -- | -- | |
| 8 | n-Butane | 14.380 | 13.058 | 13.058 | -- | -- | |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 10 | i-Pentane | 3.357 | 2.690 | 2.690 | -- | -- | |
| 11 | n-Pentane | 3.446 | 2.653 | 2.653 | -- | -- | |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 13 | Cyclopentane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 15 | 2-Methylpentane | 0.743 | 0.523 | 0.523 | -- | -- | |
| 16 | 3-Methylpentane | 0.348 | 0.242 | 0.242 | -- | -- | |
| 17 | n-Hexane | 1.245 | 0.831 | 0.831 | -- | -- | |
| 18 | Methylcyclopentane | 0.591 | 0.410 | 0.410 | -- | -- | |
| 19 | Benzene | 0.462 | 0.316 | 0.316 | -- | -- | |
| 20 | Cyclohexane | 1.382 | 0.933 | 0.933 | -- | -- | |
| 21 | 2-Methylhexane | 0.054 | 0.034 | 0.034 | -- | -- | |
| 22 | 3-Methylhexane | 0.194 | 0.120 | 0.120 | -- | -- | |
| 23 | 2,2,4-Trimethylpentane | 0.022 | 0.014 | 0.014 | -- | -- | |
| 24 | n-Heptane | 0.520 | 0.311 | 0.311 | -- | -- | |
| 25 | Methylcyclohexane | 0.760 | 0.465 | 0.465 | -- | -- | |
| 26 | Toluene | 0.417 | 0.252 | 0.252 | -- | -- | |
| 27 | n-Octane | 0.270 | 0.144 | 0.144 | -- | -- | |
| 28 | Ethylbenzene | 0.032 | 0.017 | 0.017 | -- | -- | |
| 29 | m-Xylene | 0.091 | 0.049 | 0.049 | -- | -- | |
| 30 | p-Xylene | 0.000 | 0.000 | 0.000 | -- | -- | |
| 31 | o-Xylene | 0.021 | 0.011 | 0.011 | -- | -- | |
| 32 | n-Nonane | 0.080 | 0.038 | 0.038 | -- | -- | |
| 33 | n-Decane | 0.028 | 0.012 | 0.012 | -- | -- | |
| 34 | Undecane | 0.006 | 0.002 | 0.002 | -- | -- | |
| 35 | Dodecane | 0.002 | 0.001 | 0.001 | -- | -- | |
| 36 | Tridecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 37 | Tetradecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 38 | Pentadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 39 | Hexadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 40 | Heptadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 41 | Octadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 42 | Nonadecane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 43 | Eicosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 44 | Heneicosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 45 | Docosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 46 | Tricosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 47 | Tetracosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 48 | Pentacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 49 | Hexacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 50 | Heptacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 51 | Octacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 52 | Nonacosane | 0.000 | 0.000 | 0.000 | -- | -- | |
| 53 | C30 | 0.000 | 0.000 | 0.000 | -- | -- | |
| 54 | Water | 0.677 | 0.938 | 0.938 | -- | -- | |
| 55 | C10+ | 0.000 | 0.000 | 0.000 | -- | -- | |

# PROMAX REPORT - OIL TANKS - ANNUAL

**Stream Compositional Data**

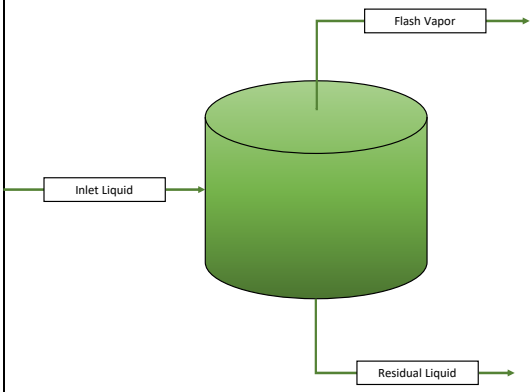
| No. | Component | Flash Gas [ton/yr] | W/B Losses [ton/yr] | Loading Losses [ton/yr] | Heater Treater [ton/yr] | ULPS [ton/yr] | Total Losses [ton/yr] |
|---|---|---|---|---|---|---|---|
| 1 | Hydrogen Sulfide | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 2 | Nitrogen | 0.004 | 0.000 | 0.000 | -- | -- | 0.004 |
| 3 | Carbon Dioxide | 0.025 | 0.003 | 0.000 | -- | -- | 0.028 |
| 4 | Methane | 0.944 | 0.055 | 0.000 | -- | -- | 0.999 |
| 5 | Ethane | 2.932 | 0.344 | 0.000 | -- | -- | 3.276 |
| 6 | Propane | 5.828 | 0.563 | 0.000 | -- | -- | 6.392 |
| 7 | i-Butane | 1.522 | 0.129 | 0.000 | -- | -- | 1.652 |
| 8 | n-Butane | 3.721 | 0.299 | 0.000 | -- | -- | 4.020 |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 10 | i-Pentane | 1.078 | 0.077 | 0.000 | -- | -- | 1.155 |
| 11 | n-Pentane | 1.107 | 0.075 | 0.000 | -- | -- | 1.182 |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 13 | Cyclopentane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 15 | 2-Methylpentane | 0.285 | 0.018 | 0.000 | -- | -- | 0.303 |
| 16 | 3-Methylpentane | 0.133 | 0.008 | 0.000 | -- | -- | 0.142 |
| 17 | n-Hexane | 0.477 | 0.028 | 0.000 | -- | -- | 0.506 |
| 18 | Methylcyclopentane | 0.221 | 0.014 | 0.000 | -- | -- | 0.235 |
| 19 | Benzene | 0.161 | 0.010 | 0.000 | -- | -- | 0.171 |
| 20 | Cyclohexane | 0.518 | 0.031 | 0.000 | -- | -- | 0.549 |
| 21 | 2-Methylhexane | 0.024 | 0.001 | 0.000 | -- | -- | 0.026 |
| 22 | 3-Methylhexane | 0.087 | 0.005 | 0.000 | -- | -- | 0.091 |
| 23 | 2,2,4-Trimethylpentane | 0.011 | 0.001 | 0.000 | -- | -- | 0.012 |
| 24 | n-Heptane | 0.232 | 0.012 | 0.000 | -- | -- | 0.244 |
| 25 | Methylcyclohexane | 0.332 | 0.018 | 0.000 | -- | -- | 0.350 |
| 26 | Toluene | 0.171 | 0.009 | 0.000 | -- | -- | 0.180 |
| 27 | n-Octane | 0.137 | 0.006 | 0.000 | -- | -- | 0.144 |
| 28 | Ethylbenzene | 0.015 | 0.001 | 0.000 | -- | -- | 0.016 |
| 29 | m-Xylene | 0.043 | 0.002 | 0.000 | -- | -- | 0.045 |
| 30 | p-Xylene | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 31 | o-Xylene | 0.010 | 0.000 | 0.000 | -- | -- | 0.011 |
| 32 | n-Nonane | 0.045 | 0.002 | 0.000 | -- | -- | 0.047 |
| 33 | n-Decane | 0.018 | 0.001 | 0.000 | -- | -- | 0.018 |
| 34 | Undecane | 0.004 | 0.000 | 0.000 | -- | -- | 0.004 |
| 35 | Dodecane | 0.001 | 0.000 | 0.000 | -- | -- | 0.001 |
| 36 | Tridecane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 37 | Tetradecane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 38 | Pentadecane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 39 | Hexadecane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 40 | Heptadecane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 41 | Octadecane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 42 | Nonadecane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 43 | Eicosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 44 | Heneicosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 45 | Docosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 46 | Tricosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 47 | Tetracosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 48 | Pentacosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 49 | Hexacosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 50 | Heptacosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 51 | Octacosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 52 | Nonacosane | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 53 | C30 | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |
| 54 | Water | 0.054 | 0.007 | 0.000 | -- | -- | 0.061 |
| 55 | C10+ | 0.000 | 0.000 | 0.000 | -- | -- | 0.000 |

**Stream Properties**

| | | Flash Gas | W/B Losses | Loading Losses | Heater Treater | ULPS | |
|---|---|---|---|---|---|---|---|
| MW | | 45.255 | 43.621 | 43.621 | 28.614 | -- | |
| Heating Value [BTU/scf] | | 2351.505 | 2270.466 | 2270.466 | 1516.059 | -- | |
| Specific Gravity | | 1.563 | 1.506 | 1.506 | 0.988 | -- | |
| VOC Concentration [wt%] | | 100.000 | 100.000 | 100.000 | 100.000 | -- | |
| Temperature [°F] | | 97.886 | 75.684 | 75.684 | 100.000 | -- | |
| Gas Volumetric Flow [scf/hr] | | 1928.332 | 170.824 | 69.443 | 0.000 | 0.000 | |

# PROMAX REPORT - OIL TANKS - ANNUAL

| Inlet Stream Data | |
|---|---|
| Component | Tank Inlet [Mol%] |
| Hydrogen Sulfide | 0.000 |
| Nitrogen | 0.002 |
| Carbon Dioxide | 0.010 |
| Methane | 0.963 |
| Ethane | 2.070 |
| Propane | 4.788 |
| i-Butane | 1.578 |
| n-Butane | 5.069 |
| 2,2-Dimethylpropane | 0.000 |
| i-Pentane | 2.564 |
| n-Pentane | 3.363 |
| 2,2-Dimethylbutane | 0.000 |
| Cyclopentane | 0.000 |
| 2,3-Dimethylbutane | 0.000 |
| 2-Methylpentane | 1.586 |
| 3-Methylpentane | 0.824 |
| n-Hexane | 3.659 |
| Methylcyclopentane | 1.643 |
| Benzene | 1.376 |
| Cyclohexane | 4.803 |
| 2-Methylhexane | 0.319 |
| 3-Methylhexane | 1.241 |
| 2,2,4-Trimethylpentane | 0.176 |
| n-Heptane | 4.303 |
| Methylcyclohexane | 6.133 |
| Toluene | 3.908 |
| n-Octane | 6.790 |
| Ethylbenzene | 0.904 |
| m-Xylene | 2.814 |
| p-Xylene | 0.000 |
| o-Xylene | 0.741 |
| n-Nonane | 5.969 |
| n-Decane | 6.133 |
| Undecane | 4.040 |
| Dodecane | 2.863 |
| Tridecane | 2.609 |
| Tetradecane | 2.227 |
| Pentadecane | 1.917 |
| Hexadecane | 1.387 |
| Heptadecane | 0.933 |
| Octadecane | 0.643 |
| Nonadecane | 0.365 |
| Eicosane | 0.332 |
| Heneicosane | 8.896 |
| Docosane | 0.000 |
| Tricosane | 0.000 |
| Tetracosane | 0.000 |
| Pentacosane | 0.000 |
| Hexacosane | 0.000 |
| Heptacosane | 0.000 |
| Octacosane | 0.000 |
| Nonacosane | 0.000 |
| C30 | 0.000 |
| Water | 0.057 |
| C10+ | 0.000 |




| Residual Liquid Data | |
|---|---|
| Flow (bbl/d) | 850.000 |
| TVP [psia] | 11.514 |

# PROMAX REPORT - WATER TANKS - ANNUAL

| Project information | |
|---|---|
| File Name | 20210125_Broadside 1H_Promax |
| Company | Devon Energy |
| City, State | {"Roswell, NM","Roswell, NM","Roswell, NM"} |
| Equation of State | {"Peng-Robinson","Peng-Robinson","Peng-Robinson"} |
| Description | DEET Emissions Report |

| Stream Selection for Tank Losses Stencil | |
|---|---|
| Name of Property Stencil | Water Tank Losses |
| Name of Process Stream | Inlet[Water Tanks] |

| Loading Information | | |
|---|---|---|
| Mode of Operation | Submerged Loading of a Clean Cargo Tank | |
| Cargo Carrier | Tank Truck or Rail Tank Car | |
| Saturation Factor | 0.6 | |
| VOCs [C3+] | 100 | *Note: VOC weight percent has been conservatively adjusted based on agency guidance* |

| Tank Information | |
|---|---|
| Shell Height [ft] | 24 |
| Diameter [ft] | 15.5 |
| Maximum Fill Percent [%] | 90 |
| Number of Tanks | 2 |
| Average Fill Percent [%] | 50 |
| Total Tank Volume [bbl] | 1613.2 |
| Net Throughput [bbl/yr] | 656320 |
| Max Liquid Surface Temperature [°F] | 75.6836 |
| Average Liquid Surface Temperature [°F] | 66.4265 |
| MW | 20.9929 |
| Turnovers (per year) | 508.929 |
| **Paint Characteristics** | |
| Shell Color | Tan |
| Shell Paint Condition | Average |
| Roof Color | Tan |
| Roof Condition | Average |
| **Roof Characteristics** | |
| Type | Dome |
| Dome Radius [ft] | |
| Slope [ft/ft] | -- |
| **Breather Vent Settings** | |
| Vacuum Settings [psig] | -0.0300000 |
| Pressure Settings [psig] | 0.0300000 |

| Meteorological Data | |
|---|---|
| Location | Roswell, NM |
| Ambient Pressure [psia] | 12.88 |
| Min Ambient Temperature [°F] | 47.6 |
| Max Ambient Temperature [°F] | 75.8 |
| Solar Insolation [BTU/ft2*day] | 1722 |
| Wind Speed [mph] | 8.7 |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | | | | |
| | | % | % | | | | |
| Capture Effeciency | | 0 | 0 | | | | |
| Percent to Flare | | -- | -- | | | | |

| Emission Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | | Flash Gas | W/B Losses | | | | Total Losses |
| | | [ton/yr] | [ton/yr] | | | | [ton/yr] |
| VOCs [C3+] | | 0.181 | 0.734 | | | | 0.914 |
| Benzene | | 0.014 | 0.215 | | | | 0.229 |
| H2S | | 0.000 | 0.003 | | | | 0.003 |

# PROMAX REPORT - WATER TANKS - ANNUAL

| Emission Composition | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Component | Flash Gas [Mol%] | W/B Losses [Mol%] | | | | |
| 1 | Hydrogen Sulfide | 0.010 | 0.085 | | | | |
| 2 | Nitrogen | 0.548 | 0.194 | | | | |
| 3 | Carbon Dioxide | 1.283 | 10.109 | | | | |
| 4 | Methane | 68.249 | 39.150 | | | | |
| 5 | Ethane | 14.204 | 10.260 | | | | |
| 6 | Propane | 4.727 | 2.582 | | | | |
| 7 | i-Butane | 0.365 | 0.142 | | | | |
| 8 | n-Butane | 1.363 | 0.703 | | | | |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | | | | |
| 10 | i-Pentane | 0.157 | 0.060 | | | | |
| 11 | n-Pentane | 0.058 | 0.015 | | | | |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | | | | |
| 13 | Cyclopentane | 0.000 | 0.000 | | | | |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | | | | |
| 15 | 2-Methylpentane | 0.016 | 0.005 | | | | |
| 16 | 3-Methylpentane | 0.023 | 0.011 | | | | |
| 17 | n-Hexane | 0.010 | 0.002 | | | | |
| 18 | Methylcyclopentane | 0.069 | 0.048 | | | | |
| 19 | Benzene | 0.471 | 2.838 | | | | |
| 20 | Cyclohexane | 0.343 | 0.460 | | | | |
| 21 | 2-Methylhexane | 0.000 | 0.000 | | | | |
| 22 | 3-Methylhexane | 0.002 | 0.000 | | | | |
| 23 | 2,2,4-Trimethylpentane | 0.000 | 0.000 | | | | |
| 24 | n-Heptane | 0.002 | 0.000 | | | | |
| 25 | Methylcyclohexane | 0.082 | 0.054 | | | | |
| 26 | Toluene | 0.408 | 2.508 | | | | |
| 27 | n-Octane | 0.000 | 0.000 | | | | |
| 28 | Ethylbenzene | 0.031 | 0.168 | | | | |
| 29 | m-Xylene | 0.083 | 0.523 | | | | |
| 30 | p-Xylene | 0.000 | 0.000 | | | | |
| 31 | o-Xylene | 0.021 | 0.117 | | | | |
| 32 | n-Nonane | 0.000 | 0.000 | | | | |
| 33 | n-Decane | 0.000 | 0.000 | | | | |
| 34 | Undecane | 0.000 | 0.000 | | | | |
| 35 | Dodecane | 0.000 | 0.000 | | | | |
| 36 | Tridecane | 0.000 | 0.000 | | | | |
| 37 | Tetradecane | 0.000 | 0.000 | | | | |
| 38 | Pentadecane | 0.000 | 0.000 | | | | |
| 39 | Hexadecane | 0.000 | 0.000 | | | | |
| 40 | Heptadecane | 0.000 | 0.000 | | | | |
| 41 | Octadecane | 0.000 | 0.000 | | | | |
| 42 | Nonadecane | 0.000 | 0.000 | | | | |
| 43 | Eicosane | 0.000 | 0.000 | | | | |
| 44 | Heneicosane | 0.000 | 0.000 | | | | |
| 45 | Docosane | 0.000 | 0.000 | | | | |
| 46 | Tricosane | 0.000 | 0.000 | | | | |
| 47 | Tetracosane | 0.000 | 0.000 | | | | |
| 48 | Pentacosane | 0.000 | 0.000 | | | | |
| 49 | Hexacosane | 0.000 | 0.000 | | | | |
| 50 | Heptacosane | 0.000 | 0.000 | | | | |
| 51 | Octacosane | 0.000 | 0.000 | | | | |
| 52 | Nonacosane | 0.000 | 0.000 | | | | |
| 53 | C30 | 0.000 | 0.000 | | | | |
| 54 | Water | 7.475 | 29.965 | | | | |
| 55 | C10+ | 0.000 | 0.000 | | | | |

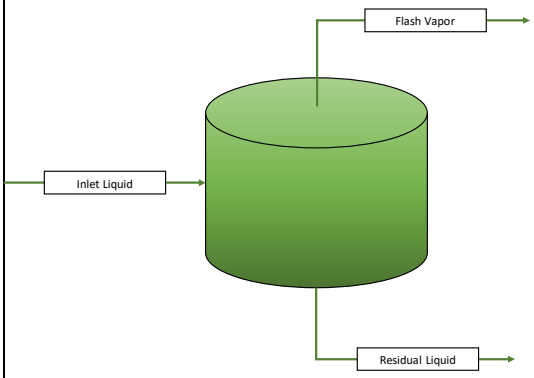
# PROMAX REPORT - WATER TANKS - ANNUAL

| Stream Compositional Data | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Component | Flash Gas [ton/yr] | W/B Losses [ton/yr] | | | | Total Losses [ton/yr] |
| 1 | Hydrogen Sulfide | 0.000 | 0.003 | | | | 0.002946183 |
| 2 | Nitrogen | 0.006 | 0.005 | | | | 0.011 |
| 3 | Carbon Dioxide | 0.022 | 0.431 | | | | 0.453 |
| 4 | Methane | 0.429 | 0.609 | | | | 1.038 |
| 5 | Ethane | 0.167 | 0.299 | | | | 0.467 |
| 6 | Propane | 0.082 | 0.110 | | | | 0.192 |
| 7 | i-Butane | 0.008 | 0.008 | | | | 0.016 |
| 8 | n-Butane | 0.031 | 0.040 | | | | 0.071 |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | | | | 0.000 |
| 10 | i-Pentane | 0.004 | 0.004 | | | | 0.009 |
| 11 | n-Pentane | 0.002 | 0.001 | | | | 0.003 |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | | | | 0.000 |
| 13 | Cyclopentane | 0.000 | 0.000 | | | | 0.000 |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | | | | 0.000 |
| 15 | 2-Methylpentane | 0.001 | 0.000 | | | | 0.001 |
| 16 | 3-Methylpentane | 0.001 | 0.001 | | | | 0.002 |
| 17 | n-Hexane | 0.000 | 0.000 | | | | 0.001 |
| 18 | Methylcyclopentane | 0.002 | 0.004 | | | | 0.006 |
| 19 | Benzene | 0.014 | 0.215 | | | | 0.229 |
| 20 | Cyclohexane | 0.011 | 0.038 | | | | 0.049 |
| 21 | 2-Methylhexane | 0.000 | 0.000 | | | | 0.000 |
| 22 | 3-Methylhexane | 0.000 | 0.000 | | | | 0.000 |
| 23 | 2,2,4-Trimethylpentane | 0.000 | 0.000 | | | | 0.000 |
| 24 | n-Heptane | 0.000 | 0.000 | | | | 0.000 |
| 25 | Methylcyclohexane | 0.003 | 0.005 | | | | 0.008 |
| 26 | Toluene | 0.015 | 0.224 | | | | 0.239 |
| 27 | n-Octane | 0.000 | 0.000 | | | | 0.000 |
| 28 | Ethylbenzene | 0.001 | 0.017 | | | | 0.019 |
| 29 | m-Xylene | 0.003 | 0.054 | | | | 0.057 |
| 30 | p-Xylene | 0.000 | 0.000 | | | | 0.000 |
| 31 | o-Xylene | 0.001 | 0.012 | | | | 0.013 |
| 32 | n-Nonane | 0.000 | 0.000 | | | | 0.000 |
| 33 | n-Decane | 0.000 | 0.000 | | | | 0.000 |
| 34 | Undecane | 0.000 | 0.000 | | | | 0.000 |
| 35 | Dodecane | 0.000 | 0.000 | | | | 0.000 |
| 36 | Tridecane | 0.000 | 0.000 | | | | 0.000 |
| 37 | Tetradecane | 0.000 | 0.000 | | | | 0.000 |
| 38 | Pentadecane | 0.000 | 0.000 | | | | 0.000 |
| 39 | Hexadecane | 0.000 | 0.000 | | | | 0.000 |
| 40 | Heptadecane | 0.000 | 0.000 | | | | 0.000 |
| 41 | Octadecane | 0.000 | 0.000 | | | | 0.000 |
| 42 | Nonadecane | 0.000 | 0.000 | | | | 0.000 |
| 43 | Eicosane | 0.000 | 0.000 | | | | 0.000 |
| 44 | Heneicosane | 0.000 | 0.000 | | | | 0.000 |
| 45 | Docosane | 0.000 | 0.000 | | | | 0.000 |
| 46 | Tricosane | 0.000 | 0.000 | | | | 0.000 |
| 47 | Tetracosane | 0.000 | 0.000 | | | | 0.000 |
| 48 | Pentacosane | 0.000 | 0.000 | | | | 0.000 |
| 49 | Hexacosane | 0.000 | 0.000 | | | | 0.000 |
| 50 | Heptacosane | 0.000 | 0.000 | | | | 0.000 |
| 51 | Octacosane | 0.000 | 0.000 | | | | 0.000 |
| 52 | Nonacosane | 0.000 | 0.000 | | | | 0.000 |
| 53 | C30 | 0.000 | 0.000 | | | | 0.000 |
| 54 | Water | 0.053 | 0.523 | | | | 0.576 |
| 55 | C10+ | 0.000 | 0.000 | | | | 0.000 |

| Stream Properties | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Flash Gas | W/B Losses | | | | |
| MW | | 21.893 | 26.862 | | | | |
| Heating Value [BTU/scf] | | 1084.674 | 884.185 | | | | |
| Specific Gravity | | 0.756 | 0.927 | | | | |
| VOC Concentration [wt%] | | 100.000 | 100.000 | | | | |
| Temperature [°F] | | 100.321 | 75.684 | | | | |
| Gas Volumetric Flow [scf/hr] | | 3.397 | 8.400 | | | | |

# PROMAX REPORT - WATER TANKS - ANNUAL

| Inlet Stream Data | |
|---|---|
| Component | Tank Inlet [Mol%] |
| Hydrogen Sulfide | 0.000 |
| Nitrogen | 0.000 |
| Carbon Dioxide | 0.000 |
| Methane | 0.002 |
| Ethane | 0.000 |
| Propane | 0.000 |
| i-Butane | 0.000 |
| n-Butane | 0.000 |
| 2,2-Dimethylpropane | 0.000 |
| i-Pentane | 0.000 |
| n-Pentane | 0.000 |
| 2,2-Dimethylbutane | 0.000 |
| Cyclopentane | 0.000 |
| 2,3-Dimethylbutane | 0.000 |
| 2-Methylpentane | 0.000 |
| 3-Methylpentane | 0.000 |
| n-Hexane | 0.000 |
| Methylcyclopentane | 0.000 |
| Benzene | 0.001 |
| Cyclohexane | 0.000 |
| 2-Methylhexane | 0.000 |
| 3-Methylhexane | 0.000 |
| 2,2,4-Trimethylpentane | 0.000 |
| n-Heptane | 0.000 |
| Methylcyclohexane | 0.000 |
| Toluene | 0.001 |
| n-Octane | 0.000 |
| Ethylbenzene | 0.000 |
| m-Xylene | 0.000 |
| p-Xylene | 0.000 |
| o-Xylene | 0.000 |
| n-Nonane | 0.000 |
| n-Decane | 0.000 |
| Undecane | 0.000 |
| Dodecane | 0.000 |
| Tridecane | 0.000 |
| Tetradecane | 0.000 |
| Pentadecane | 0.000 |
| Hexadecane | 0.000 |
| Heptadecane | 0.000 |
| Octadecane | 0.000 |
| Nonadecane | 0.000 |
| Eicosane | 0.000 |
| Heneicosane | 0.000 |
| Docosane | 0.000 |
| Tricosane | 0.000 |
| Tetracosane | 0.000 |
| Pentacosane | 0.000 |
| Hexacosane | 0.000 |
| Heptacosane | 0.000 |
| Octacosane | 0.000 |
| Nonacosane | 0.000 |
| C30 | 0.000 |
| Water | 99.996 |
| C10+ | 0.000 |




| Residual Liquid Data | |
|---|---|
| Flow (bbl/d) | 1798.136 |
| TVP [psia] | 12.644 |

# PROMAX REPORT - FLARE & PROCESS STREAMS - ANNUAL

| Project information | |
|---|---|
| File Name | 20210125_Broadside 1H_Promax |
| Company | Devon Energy |
| City, State | {"Roswell, NM","Roswell, NM","Roswell, NM"} |
| Equation of State | {"Peng-Robinson","Peng-Robinson","Peng-Robinson"} |
| Description | DEETMax Emissions Report |

| Stream Selection | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Inlet Gas | Inlet Gas | Inlet Oil | Inlet Oil | | | | | | |
| Name of Process Stream | | Gas | Gas | Oil | Oil | | | | | | |

| Emission Composition | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | Component | Inlet Gas [Mol%] | Inlet Gas [Mass%] | Inlet Oil [Mol%] | Inlet Oil [Mass%] | | | | | | |
| 1 | Hydrogen Sulfide | 0.001 | 0.002 | 0.001 | 0.000 | | | | | | |
| 2 | Nitrogen | 1.389 | 1.713 | 0.078 | 0.017 | | | | | | |
| 3 | Carbon Dioxide | 0.148 | 0.287 | 0.117 | 0.040 | | | | | | |
| 4 | Methane | 74.492 | 52.620 | 1.796 | 0.226 | | | | | | |
| 5 | Ethane | 11.996 | 15.883 | 2.193 | 0.518 | | | | | | |
| 6 | Propane | 6.431 | 12.486 | 4.399 | 1.522 | | | | | | |
| 7 | i-Butane | 1.026 | 2.626 | 1.283 | 0.585 | | | | | | |
| 8 | n-Butane | 2.279 | 5.832 | 4.500 | 2.053 | | | | | | |
| 9 | 2,2-Dimethylpropane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 10 | i-Pentane | 0.549 | 1.744 | 2.240 | 1.268 | | | | | | |
| 11 | n-Pentane | 0.557 | 1.769 | 3.036 | 1.719 | | | | | | |
| 12 | 2,2-Dimethylbutane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 13 | Cyclopentane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 14 | 2,3-Dimethylbutane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 15 | 2-Methylpentane | 0.000 | 0.000 | 1.929 | 1.304 | | | | | | |
| 16 | 3-Methylpentane | 0.000 | 0.000 | 0.986 | 0.667 | | | | | | |
| 17 | n-Hexane | 0.454 | 1.723 | 2.729 | 1.845 | | | | | | |
| 18 | Methylcyclopentane | 0.000 | 0.000 | 1.921 | 1.269 | | | | | | |
| 19 | Benzene | 0.045 | 0.155 | 1.461 | 0.896 | | | | | | |
| 20 | Cyclohexane | 0.000 | 0.000 | 5.474 | 3.615 | | | | | | |
| 21 | 2-Methylhexane | 0.000 | 0.000 | 0.348 | 0.274 | | | | | | |
| 22 | 3-Methylhexane | 0.000 | 0.000 | 1.348 | 1.060 | | | | | | |
| 23 | 2,2,4-Trimethylpentane | 0.000 | 0.000 | 0.189 | 0.169 | | | | | | |
| 24 | n-Heptane | 0.277 | 1.222 | 3.680 | 2.894 | | | | | | |
| 25 | Methylcyclohexane | 0.000 | 0.000 | 6.574 | 5.066 | | | | | | |
| 26 | Toluene | 0.036 | 0.146 | 4.051 | 2.929 | | | | | | |
| 27 | n-Octane | 0.121 | 0.609 | 6.634 | 5.947 | | | | | | |
| 28 | Ethylbenzene | 0.002 | 0.009 | 0.930 | 0.775 | | | | | | |
| 29 | m-Xylene | 0.011 | 0.051 | 2.873 | 2.393 | | | | | | |
| 30 | p-Xylene | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 31 | o-Xylene | 0.003 | 0.014 | 0.755 | 0.629 | | | | | | |
| 32 | n-Nonane | 0.113 | 0.638 | 5.739 | 5.777 | | | | | | |
| 33 | n-Decane | 0.023 | 0.144 | 6.185 | 6.907 | | | | | | |
| 34 | Undecane | 0.043 | 0.296 | 3.975 | 4.876 | | | | | | |
| 35 | Dodecane | 0.004 | 0.030 | 2.905 | 3.883 | | | | | | |
| 36 | Tridecane | 0.000 | 0.000 | 2.658 | 3.846 | | | | | | |
| 37 | Tetradecane | 0.000 | 0.000 | 2.269 | 3.533 | | | | | | |
| 38 | Pentadecane | 0.000 | 0.000 | 1.953 | 3.256 | | | | | | |
| 39 | Hexadecane | 0.000 | 0.000 | 1.413 | 2.511 | | | | | | |
| 40 | Heptadecane | 0.000 | 0.000 | 0.951 | 1.794 | | | | | | |
| 41 | Octadecane | 0.000 | 0.000 | 0.655 | 1.308 | | | | | | |
| 42 | Nonadecane | 0.000 | 0.000 | 0.372 | 0.783 | | | | | | |
| 43 | Eicosane | 0.000 | 0.000 | 0.338 | 0.749 | | | | | | |
| 44 | Heneicosane | 0.000 | 0.000 | 9.064 | 21.096 | | | | | | |
| 45 | Docosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 46 | Tricosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 47 | Tetracosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 48 | Pentacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 49 | Hexacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 50 | Heptacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 51 | Octacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 52 | Nonacosane | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 53 | C30 | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 54 | Water | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |
| 55 | C10+ | 0.000 | 0.000 | 0.000 | 0.000 | | | | | | |

# PROMAX REPORT - FLARE & PROCESS STREAMS - ANNUAL

| Stream Selection | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater Gas | Gunbarrel Gas | ULPS Gas | Oil Tanks | Water Tanks | |
| Name of Process Stream | | 1st Stage Gas | See Slop Tank Report | 1st Stage Gas | 2nd Stage Gas | HT Gas | 5 | ULPS Gas | See Oil Tank Report | SeeWater Tank Report | |

| Emission Summary | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater Gas | Gunbarrel Gas | ULPS Gas | Oil Tanks | Water Tanks | |
| | | [%] | | [%] | [%] | [%] | [%] | [%] | [%] | [%] | |
| Control Effenciency | | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 0 | |
| Percent to Flare | | 100.00 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 0 | |

| Emission Summary | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater Gas | Gunbarrel Gas | ULPS Gas | Oil Tanks | Water Tanks | Total |
| | | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] | [ton/yr] |
| VOCs [C3+] | | 0.176 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 17.145 | 0.000 | 17.321 |
| Benzene | | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.167 | 0.000 | 0.168 |
| H2S | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

| Emission Composition | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | Component | Pilot Gas [Mol%] | Slop Tank [Mol%] | 1st Stage Gas [Mol%] | 2nd Stage Gas [Mol%] | Heater Treater [Mol%] | Gunbarrel Gas [Mol%] | ULPS [Mol%] | Oil Tanks [Mol %] | Water Tanks [Mol %] | |
| 1 | Hydrogen Sulfide | 0.001 | See Slop Tank Report | 0.001 | -- | 0.002 | 0.008 | -- | See Oil Tank Report | See Water Tank Report | |
| 2 | Nitrogen | 1.427 | | 1.427 | -- | 0.391 | 0.712 | -- | | | |
| 3 | Carbon Dioxide | 0.175 | | 0.175 | -- | 0.221 | 1.009 | -- | | | |
| 4 | Methane | 74.993 | | 74.993 | -- | 52.847 | 70.297 | -- | | | |
| 5 | Ethane | 11.863 | | 11.863 | -- | 20.604 | 13.707 | -- | | | |
| 6 | Propane | 6.160 | | 6.160 | -- | 13.780 | 4.965 | -- | | | |
| 7 | i-Butane | 0.909 | | 0.909 | -- | 2.142 | 0.448 | -- | | | |
| 8 | n-Butane | 2.034 | | 2.034 | -- | 4.864 | 1.464 | -- | | | |
| 9 | 2,2-Dimethylpropane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 10 | i-Pentane | 0.428 | | 0.428 | -- | 1.026 | 0.196 | -- | | | |
| 11 | n-Pentane | 0.431 | | 0.431 | -- | 1.036 | 0.100 | -- | | | |
| 12 | 2,2-Dimethylbutane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 13 | Cyclopentane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 14 | 2,3-Dimethylbutane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 15 | 2-Methylpentane | 0.091 | | 0.091 | -- | 0.217 | 0.025 | -- | | | |
| 16 | 3-Methylpentane | 0.043 | | 0.043 | -- | 0.102 | 0.025 | -- | | | |
| 17 | n-Hexane | 0.153 | | 0.153 | -- | 0.363 | 0.022 | -- | | | |
| 18 | Methylcyclopentane | 0.072 | | 0.072 | -- | 0.172 | 0.068 | -- | | | |
| 19 | Benzene | 0.056 | | 0.056 | -- | 0.134 | 0.367 | -- | | | |
| 20 | Cyclohexane | 0.168 | | 0.168 | -- | 0.401 | 0.298 | -- | | | |
| 21 | 2-Methylhexane | 0.007 | | 0.007 | -- | 0.016 | 0.001 | -- | | | |
| 22 | 3-Methylhexane | 0.024 | | 0.024 | -- | 0.057 | 0.004 | -- | | | |
| 23 | 2,2,4-Trimethylpentane | 0.003 | | 0.003 | -- | 0.006 | 0.000 | -- | | | |
| 24 | n-Heptane | 0.066 | | 0.066 | -- | 0.153 | 0.006 | -- | | | |
| 25 | Methylcyclohexane | 0.095 | | 0.095 | -- | 0.222 | 0.081 | -- | | | |
| 26 | Toluene | 0.052 | | 0.052 | -- | 0.122 | 0.318 | -- | | | |
| 27 | n-Octane | 0.036 | | 0.036 | -- | 0.081 | 0.002 | -- | | | |
| 28 | Ethylbenzene | 0.004 | | 0.004 | -- | 0.010 | 0.024 | -- | | | |
| 29 | m-Xylene | 0.012 | | 0.012 | -- | 0.027 | 0.065 | -- | | | |
| 30 | p-Xylene | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 31 | o-Xylene | 0.003 | | 0.003 | -- | 0.006 | 0.016 | -- | | | |
| 32 | n-Nonane | 0.011 | | 0.011 | -- | 0.024 | 0.000 | -- | | | |
| 33 | n-Decane | 0.004 | | 0.004 | -- | 0.009 | 0.000 | -- | | | |
| 34 | Undecane | 0.001 | | 0.001 | -- | 0.002 | 0.000 | -- | | | |
| 35 | Dodecane | 0.000 | | 0.000 | -- | 0.001 | 0.000 | -- | | | |
| 36 | Tridecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 37 | Tetradecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 38 | Pentadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 39 | Hexadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 40 | Heptadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 41 | Octadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 42 | Nonadecane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 43 | Eicosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 44 | Heneicosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 45 | Docosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 46 | Tricosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 47 | Tetracosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 48 | Pentacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 49 | Hexacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 50 | Heptacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 51 | Octacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 52 | Nonacosane | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 53 | C30 | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |
| 54 | Water | 0.679 | | 0.679 | -- | 0.964 | 5.770 | -- | | | |
| 55 | C10+ | 0.000 | | 0.000 | -- | 0.000 | 0.000 | -- | | | |

# PROMAX REPORT - FLARE & PROCESS STREAMS - ANNUAL

**Stream Compositional Data**

| No. | Component | Pilot Gas [ton/yr] | Slop Tank [ton/yr] | 1st Stage Gas [ton/yr] | 2nd Stage Gas [ton/yr] | Heater Treater [ton/yr] | Gunbarrel Gas [ton/yr] | ULPS [ton/yr] | Oil Tanks [ton/yr] | Water Tanks [ton/yr] | Total [ton/yr] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Hydrogen Sulfide | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 2 | Nitrogen | 0.01 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.016 |
| 3 | Carbon Dioxide | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.030 |
| 4 | Methane | 0.36 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.98 | 0.00 | 1.340 |
| 5 | Ethane | 0.11 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.21 | 0.00 | 3.318 |
| 6 | Propane | 0.08 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.26 | 0.00 | 6.345 |
| 7 | i-Butane | 0.02 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.62 | 0.00 | 1.635 |
| 8 | n-Butane | 0.04 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.94 | 0.00 | 3.975 |
| 9 | 2,2-Dimethylpropane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 10 | i-Pentane | 0.01 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 0.00 | 1.141 |
| 11 | n-Pentane | 0.01 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.16 | 0.00 | 1.168 |
| 12 | 2,2-Dimethylbutane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 13 | Cyclopentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 14 | 2,3-Dimethylbutane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 15 | 2-Methylpentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.299 |
| 16 | 3-Methylpentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.140 |
| 17 | n-Hexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.500 |
| 18 | Methylcyclopentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.232 |
| 19 | Benzene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.168 |
| 20 | Cyclohexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.54 | 0.00 | 0.542 |
| 21 | 2-Methylhexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.025 |
| 22 | 3-Methylhexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.090 |
| 23 | 2,2,4-Trimethylpentane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.012 |
| 24 | n-Heptane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 | 0.241 |
| 25 | Methylcyclohexane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | 0.00 | 0.346 |
| 26 | Toluene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.178 |
| 27 | n-Octane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.142 |
| 28 | Ethylbenzene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.016 |
| 29 | m-Xylene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.045 |
| 30 | p-Xylene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 31 | o-Xylene | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.010 |
| 32 | n-Nonane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.047 |
| 33 | n-Decane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.018 |
| 34 | Undecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.004 |
| 35 | Dodecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.001 |
| 36 | Tridecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 37 | Tetradecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 38 | Pentadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 39 | Hexadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 40 | Heptadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 41 | Octadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 42 | Nonadecane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 43 | Eicosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 44 | Heneicosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 45 | Docosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 46 | Tricosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 47 | Tetracosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 48 | Pentacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 49 | Hexacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 50 | Heptacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 51 | Octacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 52 | Nonacosane | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 53 | C30 | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 54 | Water | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.063 |
| 55 | C10+ | 0.00 | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |

**Stream Properties**

| | | Pilot Gas | Slop Tank | 1st Stage Gas | 2nd Stage Gas | Heater Treater | Gunbarrel | ULPS | Oil Tanks | Water Tanks | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating Value [BTU/scf] | | 1177.692 | See Slop Tank Report | 1177.692 | -- | 1516.059 | 1099.801 | -- | See Oil Tank Report | See Oil Tank Report | |
| Molecular Weight [lb/lbmol] | | 22.061 | | 22.061 | -- | 28.614 | 21.755 | -- | | | |
| Gas Volumetric Flow [mscf/day] | | 3.120 | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 49.372 | 0.000 | |

LABORATORY SERVICES
Natural Gas Analysis

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# SUMMARY OF CHROMATOGRAPHIC ANALYSIS

| | | | |
|---|---|---|---|
| **COMPANY:** | DEVON | **JOB #:** | 1911009 |
| **SAMPLE ID:** | PRESSURIZED SEPARATOR CRUDE OIL | **SAMPLE #:** | 1911009-08PC |
| **SAMPLE TYPE:** | SPOT | **DATE ON:** | 11/6/2019 |
| **STATION:** | THISTLE UNIT 153H | **DATE OFF:** | 11/6/2019 |
| **SAMPLE PRESS.,psig:** | 135 | **TIME ON:** | 14:26 |
| **SAMPLE TEMPERATURE, F** | 105 | **TIME OFF:** | 14:26 |
| **ANALYSIS DATE:** | 11/8/2019 | **SAMPLED BY:** | J. R. PRITCHARD |
| **ANALYSIS COMMENTS:** | | **ANALYST:** | J. R. PRITCHARD |

| COMPONENT | MOLE % | WEIGHT % | VOLUME % |
|---|---|---|---|
| HYDROGEN SULFIDE | 0.0000 | 0.0000 | 0.0000 |
| NITROGEN | 0.0778 | 0.0171 | 0.0157 |
| OXYGEN | 0.0000 | 0.0000 | 0.0000 |
| METHANE | 1.7965 | 0.2264 | 0.5596 |
| CARBON DIOXIDE | 0.1167 | 0.0403 | 0.0363 |
| ETHANE | 2.1931 | 0.5180 | 1.0771 |
| PROPANE | 4.3992 | 1.5239 | 2.2260 |
| ISO-BUTANE | 1.2832 | 0.5859 | 0.7714 |
| N-BUTANE | 4.5003 | 2.0547 | 2.6072 |
| ISO-PENTANE | 2.2398 | 1.2694 | 1.5063 |
| N-PENTANE (C-5) | 3.0356 | 1.7205 | 2.0204 |
| 2,2 DIMETHYL BUTANE | 0.0003 | 0.0002 | 0.0002 |
| CYCLOPENTANE | 0.0000 | 0.0000 | 0.0000 |
| 2-METHYLPENTANE | 1.9288 | 1.3058 | 1.4713 |
| 3-METHYLPENTANE | 0.9860 | 0.6675 | 0.7396 |
| N-HEXANE (C-6) | 2.7287 | 1.8473 | 2.0627 |
| METHYLCYCLOPENTANES | 1.5006 | 0.9921 | 0.9752 |
| BENZENE | 1.4611 | 0.8965 | 0.7526 |
| CYCLOHEXANE | 5.4736 | 3.6187 | 3.4232 |
| 2-METHYLHEXANE | 0.3479 | 0.2738 | 0.2974 |
| 3-METHYLHEXANE | 1.3477 | 1.0608 | 1.1348 |
| DIMETHYLCYCLOPENTANES | 0.4201 | 0.3240 | 0.3176 |
| HEPTANES | 0.8246 | 0.6491 | 0.6990 |
| N-HEPTANE (C-7) | 2.8552 | 2.2474 | 2.4202 |
| METHYLCYCLOHEXANE | 6.5745 | 4.9668 | 4.7516 |
| 2-2-4 TRIMETHYLPENTANE | 0.1886 | 0.1692 | 0.1619 |
| TOLUENE | 4.0507 | 2.9319 | 2.4855 |
| OCTANES | 4.3812 | 3.9314 | 4.1216 |
| N-OCTANE (C-8) | 2.2531 | 2.0218 | 2.1196 |
| ETHYL BENZENE | 0.9298 | 0.7755 | 0.6573 |
| P-M-XYLENE | 2.8726 | 2.3958 | 2.0456 |
| O-XYLENE | 0.7554 | 0.6300 | 0.5277 |
| NONANES | 3.6635 | 3.6912 | 3.7900 |
| N-NONANE (C-9) | 2.0756 | 2.0913 | 2.1473 |

## CALCULATED PARAMETERS

### TOTAL ANALYSIS SUMMARY

| | |
|---|---|
| AVE MOLE WT | 127.2988 |
| SP GRAV, 60F/60 | 0.7452 |
| API GRAVITY | 58.4 |
| REL DENS, AIR=1 | 4.3952 |
| VAPOR PRESS PSIA | 120.77 |

### HEXANES PLUS SUMMARY

| | |
|---|---|
| AVE MOLE WT | 145.8110 |
| SP GRAV, 60F/60 | 0.7983 |
| API GRAVITY | 45.7 |
| LBS/GAL | 6.387 |
| REL DENS, AIR=1 | 5.0343 |
| VAPOR PRESS PSIA | 1.17 |

### BTEX SUMMARY

| | |
|---|---|
| WT % BENZENE | 0.8965 |
| WT % TOLUENE | 2.9319 |
| WT % E BENZENE | 0.7755 |
| WT % XYLENES | 3.0258 |

### DECANES PLUS SUMMARY

| | |
|---|---|
| AVE MOLE WT | 212.1328 |
| SP GRAV, 60F/60 | 0.8502 |
| API GRAVITY | 34.9 |
| LBS/GAL | 6.802 |
| REL DENS, AIR=1 | 7.3242 |
| VAPOR PRESS PSIA | 0.01 |

**CONTINUED ON NEXT PAGE**

DEVON
THISTLE UNIT 153H
PRESSURIZED SEPARATOR CRUDE OIL

| COMPONENT | MOLE % | WEIGHT % | VOLUME % |
|---|---|---|---|
| DECANES | 4.0612 | 4.5391 | 4.5822 |
| N-DECANE (C-10) | 2.1242 | 2.3742 | 2.3967 |
| UNDECANES | 2.7736 | 3.4057 | 3.3904 |
| N-UNDECANE (C-11) | 1.2017 | 1.4756 | 1.4690 |
| DODECANES | 2.0622 | 2.7595 | 2.7169 |
| N-DODECANE (C-12) | 0.8426 | 1.1275 | 1.1101 |
| TRIDECANES | 1.9533 | 2.8289 | 2.7523 |
| N-TRIDECANE (C-13) | 0.7047 | 1.0206 | 0.9930 |
| TETRADECANES | 1.6130 | 2.5138 | 2.4408 |
| N-TETRADECANE (C-14) | 0.6561 | 1.0225 | 0.9928 |
| PENTADECANES | 1.4535 | 2.4254 | 2.3279 |
| N-PENTADECANE (C-15) | 0.4999 | 0.8342 | 0.8007 |
| HEXADECANES | 1.0544 | 1.8756 | 1.7885 |
| N-HEXADECANE (C-16) | 0.3586 | 0.6379 | 0.6083 |
| HEPTADECANES | 0.6791 | 1.2828 | 1.2195 |
| N-HEPTADECANE (C-17) | 0.2718 | 0.5134 | 0.4881 |
| OCTADECANES | 0.4586 | 0.9168 | 0.8690 |
| N-OCTADECANE (C-18) | 0.1963 | 0.3924 | 0.3719 |
| NONADECANES | 0.1933 | 0.4078 | 0.3841 |
| N-NONADECANE (C-19) | 0.1783 | 0.3761 | 0.3542 |
| EICOSANES | 0.1983 | 0.4401 | 0.4122 |
| N-EICOSANES (C-20) | 0.1396 | 0.3099 | 0.2903 |
| HENEICOSANE + (C-21+) | 9.0639 | 21.0759 | 19.3192 |
| TOTALS | 100.0000 | 100.0000 | 100.0000 |

**CRUDE OIL FINGERPRINT**
**C-n/C-13 RATIO SUMMARY**

| C-n | C-n/C-13 |
|---|---|
| 10.0 | 2.326 |
| 11.0 | 1.446 |
| 12.0 | 1.105 |
| 13.0 | 1.000 |
| 14.0 | 1.002 |
| 15.0 | 0.817 |
| 16.0 | 0.625 |
| 17.0 | 0.503 |
| 18.0 | 0.384 |
| 19.0 | 0.369 |
| 20.0 | 0.304 |

**BIO-MARKER SUMMARY**

| | |
|---|---|
| Farnesane/C-14 | 0.146 |
| Pristane/C-17 | 0.637 |
| Phytane/C-18 | 0.538 |
| Weight % Sulfur | 0.0287 |
| Gravity, API @ 60 F | 45.8 |

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# SUMMARY OF CHROMATOGRAPHIC ANALYSIS

| | | | |
|---|---|---|---|
| **COMPANY:** | DEVON | **JOB #:** | 1911009 |
| **SAMPLE ID:** | PRESSURIZED SEPARATOR CRUDE OIL | **SAMPLE #:** | 1911009-08PC |
| **SAMPLE TYPE:** | SPOT | **DATE ON:** | 11/6/2019 |
| **STATION:** | THISTLE UNIT 153H | **DATE OFF:** | 11/6/2019 |
| **SAMPLE PRESS.,psig:** | 135 | **TIME ON:** | 14:26 |
| **SAMPLE TEMPERATURE, F** | 105 | **TIME OFF:** | 14:26 |
| **ANALYSIS DATE:** | 11/8/2019 | **SAMPLED BY:** | J. R. PRITCHARD |
| **ANALYSIS COMMENTS:** | | **ANALYST:** | J. R. PRITCHARD |

**TANKS DATA INPUT REPORT**

| COMPONENT | MOLE % | WEIGHT % | VOLUME % |
|---|---|---|---|
| HYDROGEN SULFIDE | 0.0000 | 0.0000 | 0.0000 |
| CARBON DIOXIDE | 0.1167 | 0.0403 | 0.0363 |
| NITROGEN | 0.0778 | 0.0171 | 0.0157 |
| METHANE | 1.7965 | 0.2264 | 0.5596 |
| ETHANE | 2.1931 | 0.5180 | 1.0771 |
| PROPANE | 4.3992 | 1.5239 | 2.2260 |
| ISO-BUTANE | 1.2832 | 0.5859 | 0.7714 |
| N-BUTANE | 4.5003 | 2.0547 | 2.6072 |
| ISO-PENTANE | 2.2398 | 1.2694 | 1.5063 |
| N-PENTANE | 3.0356 | 1.7205 | 2.0204 |
| N-HEXANE | 2.7287 | 1.8473 | 2.0627 |
| OTHER HEXANES | 9.8893 | 6.5843 | 6.6095 |
| HEPTANES | 12.3700 | 9.5219 | 9.6206 |
| OCTANES | 6.6343 | 5.9532 | 6.2412 |
| NONANES | 5.7391 | 5.7825 | 5.9373 |
| BENZENE | 1.4611 | 0.8965 | 0.7526 |
| TOLUENE | 4.0507 | 2.9319 | 2.4855 |
| ETHYLBENZENE | 0.9298 | 0.7755 | 0.6573 |
| XYLENES | 3.6280 | 3.0258 | 2.5733 |
| 2,2,4 TRIMETHYLPENTANE | 0.1886 | 0.1692 | 0.1619 |
| DECANES PLUS | 32.7382 | 54.5557 | 52.0781 |
| TOTAL | 100.0000 | 100.0000 | 100.0000 |

**CALCULATED PARAMETERS**

**TOTAL ANALYSIS SUMMARY**

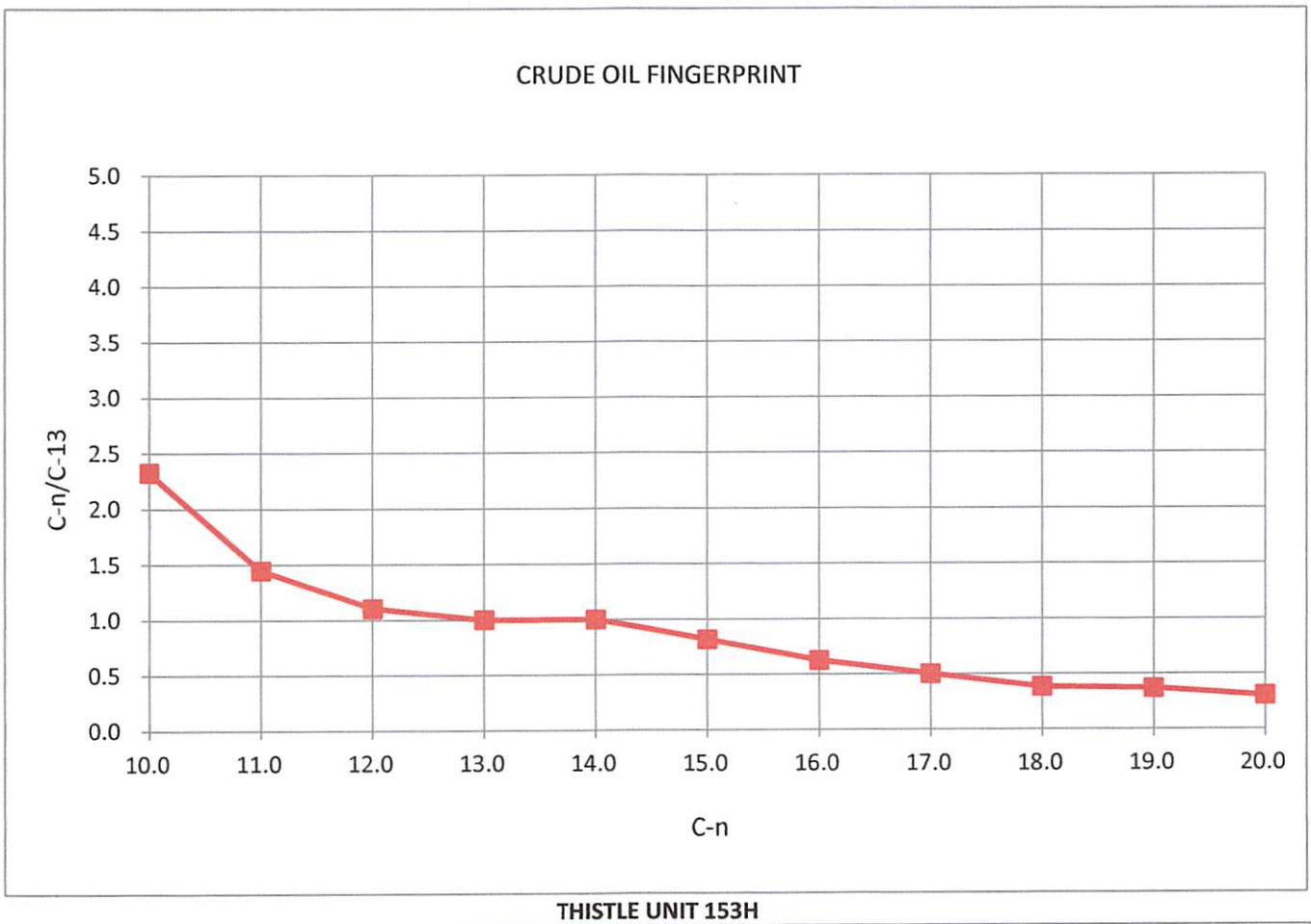
| | |
|---|---|
| **AVE MOLE WT** | 127.2988 |
| **SP GRAV, 60F/60** | 0.7452 |
| **API GRAVITY** | 58.4 |
| **REL DENS, AIR=1** | 4.3952 |
| **VAPOR PRESS PSIA** | 120.77 |
| **CU FT VAPOR/GAL** | 21.67 |

**DECANES PLUS SUMMARY**

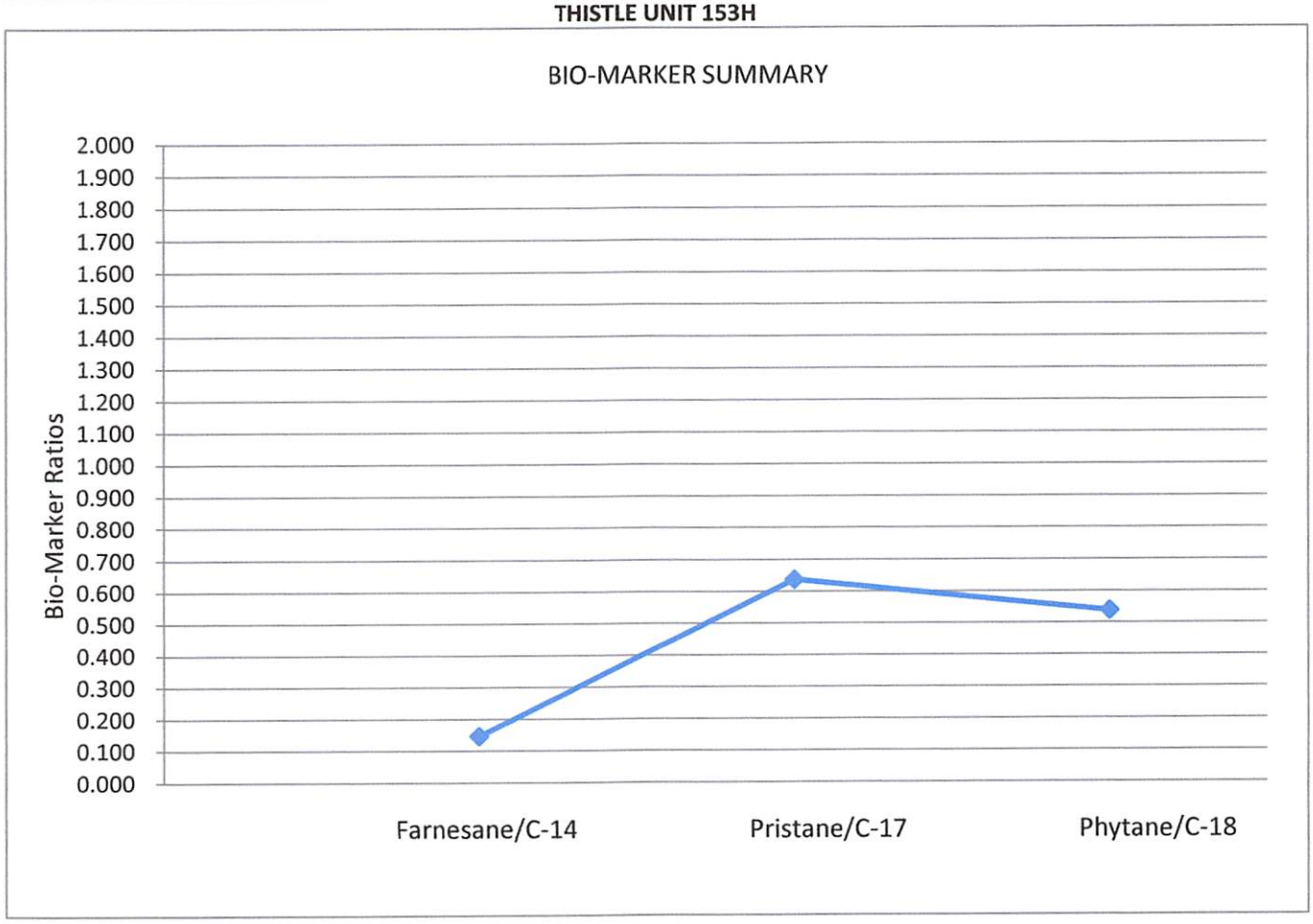
| | |
|---|---|
| **AVE MOLE WT** | 212.1328 |
| **SP GRAV, 60F/60** | 0.8502 |
| **API GRAVITY** | 34.9 |
| **LBS/GAL** | 6.8020 |
| **REL DENS, AIR=1** | 7.3242 |
| **VAPOR PRESS PSIA** | 0.01 |

**CHARACTERISTICS OF STOCK TANK OIL**

| | |
|---|---|
| **API GRAVITY @ 60 F (ASTM D287)** | 45.8 |
| **REID VAPOR PRESSURE, psia (ASTM D323)** | 6.51 |
| **WEIGHT % SULFUR (ASTM D4294)** | 0.0287 |




**THISTLE UNIT 153H**



LABORATORY SERVICES Natural Gas Analysis
www.permianls.com
575.397.3713 2609 W Marland Hobbs NM 88240

# Extended Gas Analysis Report

| Sample Point Code | Sample Point Name | Sample Point Location |
|---|---|---|
| 8527G | Thistle Unit 153H | Thistle Unit 153H |

| Source Laboratory | Lab File No | Container Identity | Sampler |
|---|---|---|---|
| Laboratory Services | 2019024493 | 0106 | SE - Spot |

| District | Area Name | Field Name | Facility Name |
|---|---|---|---|
| USA | USA | USA | New Mexico |

| Date Sampled | Date Effective | Date Received | Date Reported |
|---|---|---|---|
| Nov 6, 2019 14:26 | Nov 6, 2019 14:26 | Nov 7, 2019 10:00 | Nov 11, 2019 |

| Ambient Temp (°F) | Flow Rate (Mcf) | Analyst | Press PSI @ Temp °F Source Conditions |
|---|---|---|---|
| 74.00 | | BH | 135 @ 102 |

| Operator | Lab Source Description |
|---|---|
| AKM | Devon/Extended Gas |

| Component | Normalized Mol % | Un-Normalized Mol % | GPM |
|---|---|---|---|
| Nitrogen (N2) | 1.3890 | 1.358881 | |
| Carbon Dioxide (CO2) | 0.1480 | 0.144662 | |
| Hydrogen Sulfide (H2S) | 0.0000 | 0 | |
| Methane (C1) | 74.4930 | 72.886434 | |
| Ethane (C2) | 11.9960 | 11.73752 | 3.2070 |
| Propane (C3) | 6.4310 | 6.292293 | 1.7710 |
| IsoButane (IC4) | 1.0260 | 1.003708 | 0.3360 |
| n-Butane (NC4) | 2.2790 | 2.229496 | 0.7180 |
| IsoPentane (IC5) | 0.5490 | 0.537032 | 0.2010 |
| n-Pentane (NC5) | 0.5570 | 0.545025 | 0.2020 |
| Hexanes (C6's) | 1.1320 | 1.127 | 0.4820 |
| TOTAL | 100.0000 | 97.8621 | 6.9170 |

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

### Analyzer Information

| | | | |
|---|---|---|---|
| Device Type: | Gas Chromatograph | Device Make: | Agilent |
| Device Model: | 7890B | Last Cal Date: | Oct 22, 2019 |

### Gross Heating Values (Real, BTU/ft³)

| 14.696 PSI @ 60.00 °F | 14.73 PSI @ 60.00 °F | |
|---|---|---|
| Dry | Dry | Saturated |
| 1,337.5 | 1,346.2 | 1,323.3 |

### Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

| Relative Density Real | Relative Density Ideal |
|---|---|
| 0.7855 | 0.7826 |

Molecular Weight: 22.6670

### C6+ Group Properties

Assumed Composition

C6 - 39.655% C7 - 28.598% C8 - 31.747%

Field H2S: 0 PPM

**PROTREND STATUS:**
Passed By Validator on Nov 13, 2019

**DATA SOURCE:**
Imported

**PASSED BY VALIDATOR REASON:**
First sample taken @ this point, composition looks reasonable

**VALIDATOR:**
Dustin Armstrong

**VALIDATOR COMMENTS:**
OK

Sample Point Code - Name @ Location

8527G - Thistle Unit 153H - Thistle Unit 153H

Operator

AKM

| Component | Normalized Mol % | Un-Normalized Mol % | GPM |
|---|---|---|---|
| Nitrogen (N2) | 1.3890 | 1.35888 | |
| Carbon Dioxide (CO2) | 0.1480 | 0.144662 | |
| Hydrogen Sulfide (H2S) | 0.0000 | 0 | |
| Methane (C1) | 74.4930 | 72.8864 | |
| Ethane (C2) | 11.9960 | 11.7375 | 3.2070 |
| Propane (C3) | 6.4310 | 6.29229 | 1.7710 |
| IsoButane (IC4) | 1.0260 | 1.00371 | 0.3360 |
| n-Butane (NC4) | 2.2790 | 2.2295 | 0.7180 |
| IsoPentane (IC5) | 0.5490 | 0.537032 | 0.2010 |
| n-Pentane (NC5) | 0.5570 | 0.545025 | 0.2020 |
| Hexanes (C6's) | 0.4540 | 0.449 | 0.1850 |
| Heptanes (C7's) | 0.2770 | 0.277 | 0.1060 |
| Octanes (C8's) | 0.1210 | 0.121 | 0.0590 |
| Nonanes (C9's) | 0.1130 | 0.113 | 0.0630 |
| Decanes (C10's) | 0.0230 | 0.023 | 0.0140 |
| Undecanes (C11's) | 0.0430 | 0.043 | 0.0210 |
| Dodecanes (C12's) | 0.0040 | 0.004 | 0.0020 |

**BTEX**

| Component | Normalized Mol % | Un-Normalized Mol % | GPM |
|---|---|---|---|
| Benzene | 0.0450 | 0.045 | 0.0130 |
| Toluene | 0.0360 | 0.036 | 0.0120 |
| EthylBenzene | 0.0020 | 0.002 | 0.0010 |
| M+P Xylene | 0.0110 | 0.011 | 0.0050 |
| O Xylene | 0.0030 | 0.003 | 0.0010 |

# Section 5
## Map(s)

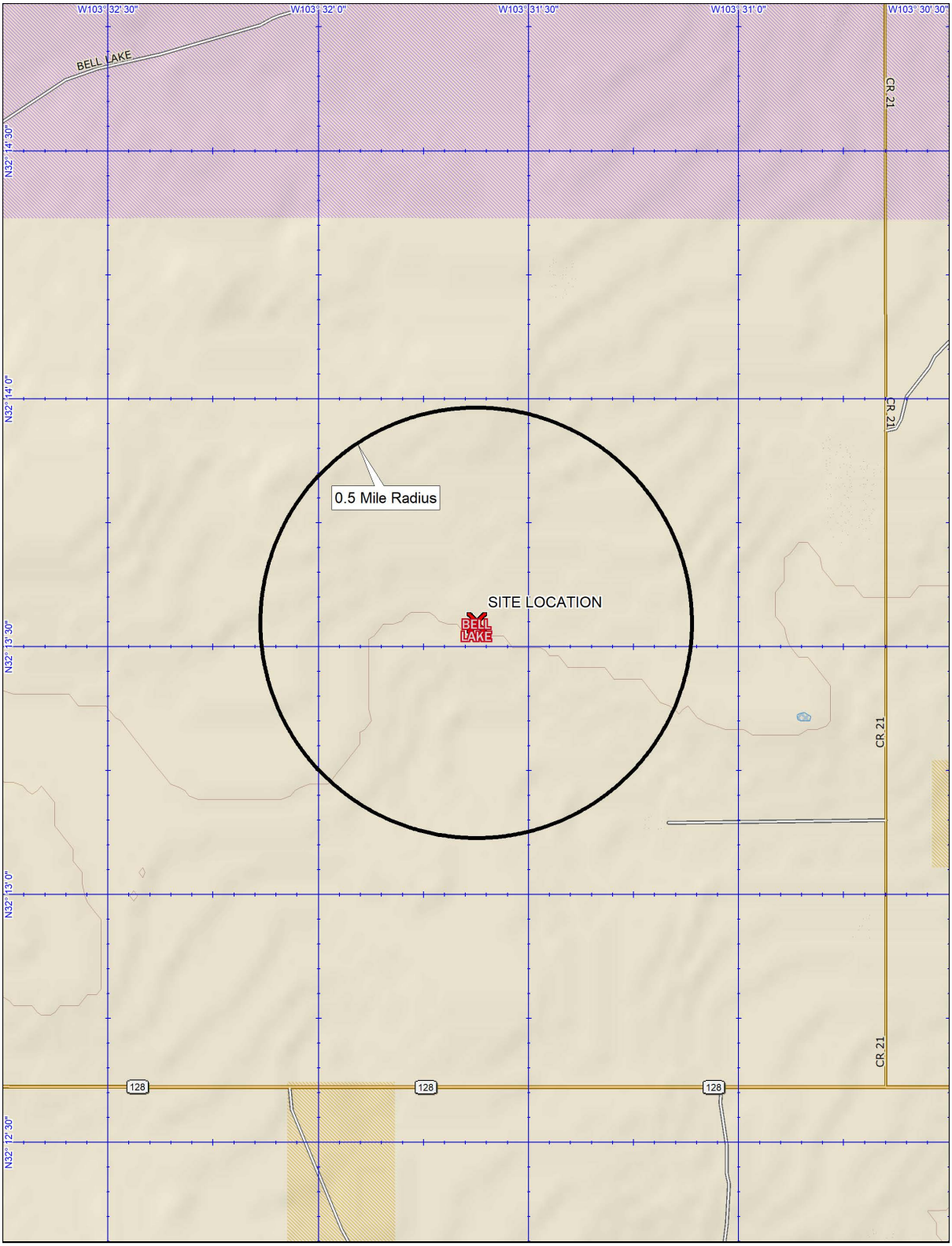
---

**A map** such as a 7.5 minute topographic quadrangle showing the exact location of the source. The map shall also include the following:

| | |
|---|---|
| The UTM or Longitudinal coordinate system on both axes | An indicator showing which direction is north |
| A minimum radius around the plant of 0.8km (0.5 miles) | Access and haul roads |
| Topographic features of the area | Facility property boundaries |
| The name of the map | The area which will be restricted to public access |
| A graphical scale | |

---

An area map is included in this section.




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TN
MN (6.4°E)

0 400 800 1200 1600 2000 ft
0 160 320 480 640 800 m

ALTAMIRA

2301 E. LAMAR BLVD.
SUITE 200
ARLINGTON, TX 76006

www.altamira-us.com

FIGURE TITLE
***AREA MAP***

DOCUMENT TITLE
NOTICE OF INTENT TO CONTRUCT

CLIENT
DEVON ENERGY PRODUCTION COMPANY, L.P.

LOCATION
BROADSIDE 1H BATTERY
LEA COUNTY, NEW MEXICO

| | |
|---|---|
| DATE | 02/03/2021 |
| SCALE | AS SHOWN |
| DESIGNED BY | AB |
| APPROVED BY | RZ |
| DRAWN BY | AB |
| PROJECT NUMBER | DVNANM1901 |
| FIGURE NUMBER | SECTION 5 |

# Section 6

## Applicable State & Federal Regulations

---

**Provide a discussion demonstrating compliance with applicable state & federal regulation**. All input cells should be filled in, even if the response is 'No' or 'N/A'.

In the "Justification" column, identify the criteria that are critical to the applicability determination, numbering each. For each unit subject to a state or federal regulation, after each listed unit, include the lowest level citation of the applicable regulation. For each unit, list the information necessary to verify the applicability of the regulation, including date of manufacture, date of construction, size (hp), and combustion type. Doing so will provide the applicability criteria for each unit.

---

**Example of a Table for Applicable State Regulations:**

| STATE REGU-LATIONS CITATION | Title | Federally Enforce-able | Applicability Information: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 $m^3$, 3. VOL) | Applicant's Justification of Applicability | Applicant Identifies if Applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|---|
| 20.2.38 NMAC | Hydrocarbon Storage Facility | No | **Use the regulation link (left) then cut & paste applicable sections.** Note: for 20.2.38.112 NMAC, 65,000 gallons is 1547.62 barrels. | The facility includes a "New Tank Battery" since the tanks were constructed after January 1, 1975. 20.2.38.112, New Tank Battery – More Than 65,000 Gallons Capacity is potentially applicable. Since the total capacity of the crude oil tanks (Unit ID TK-1 through TK-4) is greater than 65,000 gallons, the Facility is subject to 20NMAC2.38.112. The Facility is also subject to 20.2.38.109 due to the storage tank capacity and throughput. The Facility meets the requirements of 20.2.38.112.C. and 20.2.38.109.B by venting tank emissions to a combustor (Unit ID ECD-1) | TK-1 through TK-4 |
| 20.2.61.109 NMAC | Smoke & Visible Emissions | No | Engines and heaters are Stationary Combustion Equipment. Specify units subject to this regulation. | The combustor, combustion engine, and heater treater are Stationary Combustion Equipment. Devon will maintain compliance with the regulation by operating the combustion units according to manufacturer's recommendations to ensure complete combustion. | ECD-1, ENG 1, HT-1 |
| 20.2.73 NMAC | NOI & Emissions Inventory Requirements | No | **NOI:** 20.2.73.200 NMAC applies (requiring a NOI application) | This document serves as the Notice of Intent application requesting approval by the NM AQB to install the proposed equipment at this site. Therefore, Devon is in | FACILITY |

| | | | | | |
|---|---|---|---|---|---|
| | | | | compliance with NMAC 20.2.73.200.<br>Emissions Inventory Reporting: 20.2.73.300 NMAC applies. All Title V major sources meet the applicability requirements of 20.2.73.300 NMAC.<br>Site is not a Title V site. Devon will submit an Emissions Inventory Report if requested. | |
| 20.2.77 NMAC | New Source Performance | Yes | This is a stationary source which is subject to the requirements of 40 CFR Part 60, as amended through 2017.<br>Applies if any subpart applies. | The combustion engine (Unit ID ENG 1) is subject to NSPS JJJJ and is therefore subject to 20.2.77.9. The fugitives (Unit ID FUG-1), oil tanks (Unit ID TK-1 through TK-4), and combustor (ECD-1) are subject to NSPS OOOOa and are therefore subject to 20.2.77.9. | ENG 1, FUG-1, TK-1 through TK-4, ECD-1 |
| 20.2.78 NMAC | Emission Standards for HAPS | Yes | This facility emits hazardous air pollutants which are subject to the requirements of 40 CFR Part 61, as amended through 2017.<br>Applies in any subpart applies | | N/A |
| 20.2.82 NMAC | MACT Standards for source categories of HAPS | Yes | This regulation applies to all sources emitting hazardous air polluta4nts, which are subject to the requirements of 40 CFR Part 63, as amended through 2017.<br>Applies in any subpart applies | The combustion engine (Unit ID ENG 1) is subject to MACT ZZZZ and is therefore subject to 20.2.82.8. | ENG 1 |

**Example of a Table for Applicable Federal Regulations (This is not an exhaustive list):**

| **FEDERAL REGULATIONS CITATION** | **Title** | **JUSTIFICATION:** | **Applicant's Justification of Applicability** | **Identify if applies to Entire Facility or Unit No(s)** |
|---|---|---|---|---|
| 40 CFR 50 | NAAQS | Defined as applicable at 20.2.70.7.E.11, Any national ambient air quality standard | The combustion engine (Unit ID ENG 1), combustor (Unit ID ECD-1), and heater treater (Unit ID HT-1) are small combustion sources. The emission levels are such that no exceedances of the NAAQS are expected. | ENG 1, HT-1, ECD-1 |

| FEDERAL REGULATIONS CITATION | Title | JUSTIFICATION: | Applicant's Justification of Applicability | Identify if applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|
| NSPS 40 CFR 60, Subpart A | General Provisions | Applies if any other NSPS subpart applies. | The combustion engine (Unit ID ENG 1) is subject to NSPS JJJJ. The fugitives (Unit ID FUG-1), oil tanks (Unit ID TK-1 through TK-4), and combustor (Unit ID ECD-1) are subject to NSPS OOOOa. | ENG 1, FUG-1, TK-1 through TK-4, ECD-1 |
| NSPS 40 CFR Part 60 Subpart OOOO | Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375); centrifugal compressors (60.5380); reciprocating compressors (60.5385): controllers (60.5390); storage vessels (60.5395); equipment leaks (60.5400); sweetening units (60.5405).<br><br>**If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. Centrifugal Compressors 1a-3a are subject to the standards at 60.5380(a)(1) and (2) since we use a control device to reduce emissions)** | ☐ **Check this box if VRU is controlling Storage Vessel emissions and the facility is subject to the requirements under 60.5411(b) and (c)** | N/A |

| FEDERAL REGULATIONS CITATION | Title | JUSTIFICATION: | Applicant's Justification of Applicability | Identify if applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|
| NSPS<br>40 CFR Part<br>60 Subpart<br>OOOOa | Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 | If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375a); centrifugal compressors (60.5380a); reciprocating compressors (60.5385a): controllers (60.5390a); storage vessels (60.5395a); fugitive emissions at well sites and compressor stations (60.5397a); equipment leaks at gas plants (60.5400a); sweetening units (60.5405a).<br><br>**If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. Centrifugal Compressors 1a-3a are subject to the standards at 60.5380(a)(1) and (2) since we use a control device to reduce emissions)** | ☐ **Check this box if VRU is controlling Storage Vessel emissions and the facility is subject to the requirements under 60.5411a(b) and (c)**<br><br>The oil storage tanks at this location are subject to NSPS Subpart OOOOa because the oil tanks are affected facilities with VOC emissions greater than 6 tons per year per tank (60.5365a(e)). Devon will meet the 95% control requirement (60.5395a(a)(2)) by operating a combustor that meets the requirements of 60.5412a(d)(3). Devon will also comply with the applicable control requirements under 60.5395a(b).<br>Fugitive equipment components are subject to LDAR requirements. Devon will conduct routine fugitive leak monitoring using optical gas imaging (OGI) or EPA Method 21. | TK-1 through TK-4, ECD-1, FUG-1 |
| NSPS<br>40 CFR Part 60<br>Subpart IIII | | See 40 CFR 60.4200(a) 1 through 4 to determine applicable category and state engine size, fuel type, and date of manufacture. | ☐ **Table 1 or Table 2 to Subpart IIII attached with emission standards applicable to each engine highlighted.** | N/A |

| FEDERAL REGULATIONS CITATION | Title | JUSTIFICATION: | Applicant's Justification of Applicability | Identify if applies to Entire Facility or Unit No(s) |
|---|---|---|---|---|
| NSPS<br>40 CFR Part 60 Subpart JJJJ | | See 40 CFR 60.4230(a), 1 through 5 to determine applicable category and state engine size, fuel type, and date of manufacture. | ☒ **Table 1 to Subpart JJJJ is attached with emission standards applicable to each engine highlighted.**<br>The combustion engine (Unit ID ENG 1) is subject to NSPS JJJJ per 60.4230(a)(4)(iii) and the standards in 60.4233(e) and Table 1.<br><br>ENG-1<br>• 203 hp<br>• Mfr date – Post 1/1/2011<br>• 4SRB | ENG 1 |
| MACT<br>40 CFR 63, Subpart A | General Provisions | Applies if any other subpart applies. | The combustion engine (Unit ID ENG 1) is subject to MACT ZZZZ. | ENG 1 |
| MACT<br>40 CFR 63 Subpart ZZZZ | National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (**RICE MACT**) | Facilities are subject to this subpart if they own or operate a stationary RICE, except if the stationary RICE is being tested at a stationary RICE test cell/stand. | ☐ **Table 1, 2, 3, 4, 5, 6, and/or 7 to Subpart ZZZZ is attached with emission standards/requirements applicable to each engine highlighted.**<br>The combustion engine (Unit ID ENG 1) is subject to MACT ZZZZ and meets the requirements by complying with NSPS JJJJ per 63.6590(c)(1). | ENG 1 |

Title 40: Protection of Environment
PART 60—STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES (CONTINUED)
Subpart JJJJ—Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

TABLE 1 TO SUBPART JJJJ OF PART 60—$NO_X$, CO, AND VOC EMISSION STANDARDS FOR STATIONARY NON-EMERGENCY SI ENGINES ≥100 HP (EXCEPT GASOLINE AND RICH BURN LPG), STATIONARY SI LANDFILL/DIGESTER GAS ENGINES, AND STATIONARY EMERGENCY ENGINES >25 HP

| Engine type and fuel | Maximum engine power | Manufacture date | Emission standards[a] | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | g/HP-hr | | | ppmvd at 15% $O_2$ | | |
| | | | $NO_X$ | CO | VOC[d] | $NO_X$ | CO | VOC[d] |
| Non-Emergency SI Natural Gas[b] and Non-Emergency SI Lean Burn LPG[b] | 100≤HP<500 | 7/1/2008 | 2.0 | 4.0 | 1.0 | 160 | 540 | 86 |
| | | 1/1/2011 | 1.0 | 2.0 | 0.7 | 82 | 270 | 60 |
| Non-Emergency SI Lean Burn Natural Gas and LPG | 500≤HP<1,350 | 1/1/2008 | 2.0 | 4.0 | 1.0 | 160 | 540 | 86 |
| | | 7/1/2010 | 1.0 | 2.0 | 0.7 | 82 | 270 | 60 |
| Non-Emergency SI Natural Gas and Non-Emergency SI Lean Burn LPG (except lean burn 500≤HP<1,350) | HP≥500 | 7/1/2007 | 2.0 | 4.0 | 1.0 | 160 | 540 | 86 |
| | HP≥500 | 7/1/2010 | 1.0 | 2.0 | 0.7 | 82 | 270 | 60 |
| Landfill/Digester Gas (except lean burn 500≤HP<1,350) | HP<500 | 7/1/2008 | 3.0 | 5.0 | 1.0 | 220 | 610 | 80 |
| | | 1/1/2011 | 2.0 | 5.0 | 1.0 | 150 | 610 | 80 |
| | HP≥500 | 7/1/2007 | 3.0 | 5.0 | 1.0 | 220 | 610 | 80 |
| | | 7/1/2010 | 2.0 | 5.0 | 1.0 | 150 | 610 | 80 |
| Landfill/Digester Gas Lean Burn | 500≤HP<1,350 | 1/1/2008 | 3.0 | 5.0 | 1.0 | 220 | 610 | 80 |
| | | 7/1/2010 | 2.0 | 5.0 | 1.0 | 150 | 610 | 80 |
| Emergency | 25<HP<130 | 1/1/2009 | [c]10 | 387 | N/A | N/A | N/A | N/A |
| | HP≥130 | | 2.0 | 4.0 | 1.0 | 160 | 540 | 86 |

[a]Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent $O_2$.

[b]Owners and operators of new or reconstructed non-emergency lean burn SI stationary engines with a site rating of greater than or equal to 250 brake HP located at a major source that are meeting the requirements of 40 CFR part 63, subpart ZZZZ, Table 2a do not have to comply with the CO emission standards of Table 1 of this subpart.

[c]The emission standards applicable to emergency engines between 25 HP and 130 HP are in terms of $NO_X$ + HC.

[d]For purposes of this subpart, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

[76 FR 37975, June 28, 2011]

Need assistance?

# Section 7: Certification

Company Name: Devon Energy Production Company, L.P.

I, Clarence McDonald, hereby certify that the information and data submitted in this application are true and as accurate as possible, to the best of my knowledge and professional expertise and experience.

Signed this 28th day of January, 2021, upon my oath or affirmation, before a notary of the State of Oklahoma.

*Signature

1/28/2021
Date

Clarence McDonald
Printed Name

Production Manager
Title

Scribed and sworn before me on this 28 day of January, 2021.

My authorization as a notary of the State of Oklahoma expires on the 30 day of April, 2023.

PAMELA G BEERS NOTARY # 19004406 EXP. 04/30/23 PUBLIC STATE OF OKLAHOMA

Pamela G Beers
Notary's Signature

1.28.2021
Date

Pamela G Beers
Notary's Printed Name